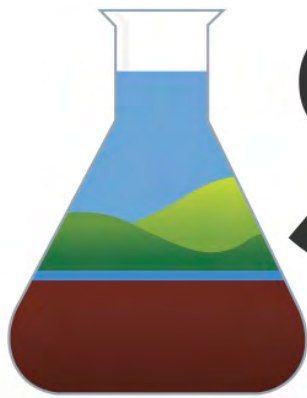


ATTACHMENT H

Detailed Site Investigation Contamination Report - SESL Australia
Extension of Detailed Site Investigation Study Area - SESL Australia



SES
AUSTRALIA
Environment & Soil Sciences

Tier 1 Detailed Site Investigation
Killara Golf Course
556 Pacific Highway Killara NSW
Lot 2 DP 535219

Prepared for:

The Killara Golf Club

April 2016

(Report: C0598.Q5224.B38160 DSI Killara FB)

Executive Summary

SESL Australia (SESL) was engaged by Killara Golf Club (the client) to conduct a Tier 1 Detailed Site Investigation (DSI) for 556 Pacific Highway, Killara NSW 2071 (the site). The legal definition of the site is Lot 2 in Deposited Plan (DP) 535219 with part of the site to be rezoned for residential development. This report will be used as supporting documentation for the rezoning of the property. Environmental Scientists from SESL undertook detailed sampling on 23/02/2016, 24/02/2016 and 25/02/2016.

The objective of this DSI was to:

- Produce a Tier 1 Detailed Site Investigation (DSI) in accordance with the National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013), NEPC 2013, Canberra;
- Identify issues of ongoing pollution and non-compliance, as compared to current regulatory criteria;
- Identify the likelihood and/or extent of contamination occurring from past or present practices on the site; and
- Recommend any further management strategies including additional investigations or remedial action if required.

Based on the site history review and the review of aerial photographs, it appears that the Site has historically been used as a golf course and has been filled to achieve the current landscape. This fill is of unknown origin. Onsite activities involved in course maintenance include pesticide and herbicide use. A service station adjacent to the site has historically had groundwater contamination issues. These activities potentially contribute to suspected onsite soil contamination.

Soil samples were taken at fourteen (14) locations across the site during the investigation. Soil profiles across the site were consistent with between 1.2m to 7.7m of mixed fill overlying brown silty shale with varying levels of clay natural soils. Variation in depth based on the natural topography and the depth of fill required to achieve the current landscape. Boreholes within the carpark were overlain with 0.1-0.2m of bitumen. No asbestos containing materials (ACM) were identified during sampling.

The laboratory results were compared against the Health Investigation Levels (Residential HIL-A) for all sample locations across the area of investigation at the Site. Carcinogenic PAH's were found to be elevated above the adopted threshold at (2) locations (BH 1, BH16). Asbestos was identified at one location on site (BH1), with fibre concentrations below the threshold value. A number of soil samples beneath the carpark had elevated concentrations of Polycyclic Aromatic Hydrocarbons, but were below the threshold value. One groundwater well had elevated Total Recoverable Hydrocarbon

The Killara Golf Club

Page 1 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



concentrations (MW2), but was below the threshold value, while another well had elevated volatile concentrations (MW1).

The results of the soil sampling undertaken at the Site indicated that some contaminants of concern were found to exceed the adopted HIL A – Residential, with garden/accessible soil. SESL believes the fill in the region of BH 1 and BH 16 may be an isolated area of contamination. The elevated PAH concentrations 0.5m below the surface across all carpark locations may also be another area of isolated contamination, but as the UCL confirmed they do not exceed threshold values, no action is required. It is likely the elevated TRH concentrations in the groundwater well located in the visitors carpark (MW2) is due to known groundwater contamination by the upstream maintenance workshop. PID readings in the well headspace in the maintenance carpark (MW1) were elevated, though subsequent analytical results did not identify any issues. It is expected that elevated vapour moisture may be interfering with readings.

Based on the findings of this site investigation, SESL concludes that in consideration of the provisions of SEPP 55 Clause 6, the site does not meet the conditions of subclause 4, and is therefore not captured under Clause 6 and can be rezoned without further consideration of contamination. Prior to development for residential purposes being undertaken:

A remedial action plan must be developed for the minor hotspot in the south eastern corner of the visitors carpark, including appropriate validation processes to ensure that at completion of the remediation program that the site is suitable for rezoning. It is possible this remediation can be conducted during future development of the rezoned area, and SESL do not consider it necessary to have remediation completed prior to rezoning.

Reference should be made to Section 10 of the report that sets out details of the limitations of the assessment.

SESL AUSTRALIA



Fiona Warden
Environmental Scientist



Ryan Jacka
Senior Environmental Scientist

The Killara Golf Club

Page 2 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



TABLE OF CONTENTS

1.1	BACKGROUND	8
1.2	SCOPE OF WORK.....	9
1.3	PERSONNEL	9
2	SITE DESCRIPTION	10
2.1	SITE LOCATION AND OWNERSHIP.....	10
2.2	SITE IDENTIFICATION.....	10
2.3	SURROUNDING LAND USE	11
2.4	SITE LAYOUT AND INFRASTRUCTURE.....	12
2.5	PHYSICAL SITE CHARACTERISTICS	13
2.6	SITE HISTORY	14
2.7	HISTORICAL TITLE SEARCH	15
2.8	HISTORICAL AERIAL PHOTOGRAPHS	15
2.9	SITE ZONING AND COUNCIL RECORDS	16
2.10	EPA CONTAMINATED SITES DATABASE.....	18
2.11	DANGEROUS GOODS LICENSE SEARCH	20
2.12	PREVIOUS ENVIRONMENTAL INVESTIGATIONS.....	21
2.13	CURRENT LANDUSE AND ASSOCIATED PRACTICES.....	21
2.14	INTEGRITY ASSESSMENT	21
3	SITE RECONNAISSANCE.....	22
3.1	STORMWATER	22
3.2	CHEMICAL STORAGE.....	22
3.3	HAZARDOUS BUILDING MATERIALS	22
3.4	CUT AND FILL	22
3.5	WASTE MANAGEMENT	23
3.6	AREAS OF ENVIRONMENTAL CONCERN	23
4	RELEVANT GUIDELINES FOR CONTAMINATION ASSESSMENT AND MANAGEMENT.....	24
4.1	RELEVANT GUIDELINES	24
4.2	PROPOSED DEVELOPMENT.....	24
4.3	NATIONAL ENVIRONMENTAL PROTECTION MEASURE (CONTAMINATED SITES) 1999	24
4.4	AUSTRALIAN AND NEW ZEALAND GUIDELINES FOR THE ASSESSMENT AND MANAGEMENT OF CONTAMINATED SITES (ANZECC/NHMRC, 1992).....	32
4.5	THE MANAGING LAND CONTAMINATION: PLANNING GUIDELINES – REMEDIATION OF LAND, NSW EPA 1997 (SEPP55 GUIDELINES).....	33
4.6	RELEVANT LEGISLATION.....	34

5	SOIL SAMPLING, ANALYSIS PLAN AND SAMPLING METHODOLOGY	35
5.1	SAMPLING TEAM	35
5.2	SAMPLING REGIME – SOIL	36
5.3	SAMPLING REGIME – WATER	37
5.4	SAMPLE COLLECTION – SOIL	37
5.5	COMPOSITE SAMPLE PROCEDURE	38
5.6	SAMPLE COLLECTION – WATER	38
5.7	DECONTAMINATION PROCEDURE	38
6	QUALITY ASSURANCE & QUALITY CONTROL PLAN	40
6.1	DATA QUALITY OBJECTIVES	40
6.2	DATA QUALITY INDICATORS AND DATA EVALUATION	41
6.3	FIELD AND LABORATORY QUALITY ASSURANCE PROGRAM	42
6.4	REPORTING	44
7	SUMMARY OF RESULTS	46
7.1	SITE STRATIGRAPHIC CONDITIONS	46
7.2	SOIL ANALYTICAL RESULTS SUMMARY	46
7.3	QA/QC RESULTS	47
7.4	CALCULATION OF 95% UPPER CONFIDENCE LIMIT (UCL)	48
TABLE 17 – 95% UPPER CONFIDENCE LIMIT OF THE AVERAGE CONTAMINANT CONCENTRATION COMPARED AGAINST HEALTH INVESTIGATION AND SCREENING LEVELS (RESIDENTIAL A) FOR HOTSPOT AREA.....		
	CHEMICAL.....	49
	HIL A CRITERIA	49
	BH1 500	49
	BH1 1	49
	BH16 500	49
	BH16 1	49
	MEAN	49
	95% UCL	49
	CARCINOGENIC PAHS (MG/KG).....	49
	3	49
	0.1	49

6.5	49
5.1	49
0.5	49
3.05	49
3.12	49
THE STATISTICAL ANALYSIS INDICATES THAT THERE IS A 95% PROBABILITY THAT THE ARITHMETIC AVERAGE CONCENTRATION OF CARCINOGENIC PAHS IN THE TOP 1M OF BH1 AND BH16, THE HOTSPOT, EXCEEDS HIL A. THE 95% UCL OF ALL OTHER CONTAMINANTS IS WITHIN THE THRESHOLD VALUES. SEE APPENDIX B FOR ALL UCL CALCUALTIONS.....	
7.5 SITE CHARACTERISATION	50
7.6 SUMMARY	50
8 LIMITATIONS	52
9 REFERENCES	54

DOCUMENT TABLES

Table 1 – Project Personnel	9
Table 2 – Site Identification	10
Table 3 – Summary of Owners for Lot 2 DP 535219	15
Table 4 – Summary of EPA Contaminated Lands notices issued to the suburb of Killara	18
Table 5 – Areas of Environmental Concern	23
Table 6 – Health Investigation Levels for Soil Contaminants	27
Table 7 – HSL Fractions and Corresponding Equivalent Carbon Range	29
Table 8 – Health Screening Levels for Asbestos Contamination in Soil	30
Table 9 – EILs Landuse Criteria and Protection Levels	30
Table 10 – Soil Sampling Team Personnel	35
Table 11 – Water Sampling Team Personnel	36
Table 12 – Soil sampling locations selection	37
Table 13 – Groundwater sampling locations selection	37
Table 14 – Data Quality Objectives	40
Table 15 – Summary of Sample Analysis	44
Table 16 – Soil Analytical Results Summary Compared Against Heath Investigation Levels and Screening Levels (Residential A)	47
Table 17 – 95% Upper Confidence Limit of the Average Contaminant Concentration Compared Against Health Investigation and Screening Levels (Residential A) for Hotspot area	49

DOCUMENT FIGURES

Figure 1 – Locality Map: 556 Pacific Highway, Killara NSW 2071	11
Figure 2 – Site Layout: 556 Pacific Highway, Killara NSW 2071	12

APPENDICES

- Appendix A. Maps - Site Layout and Sample Locations
- Appendix B. Soil and Groundwater Results Tables
95% Confidence Limit Result Tables
Quality Assurance and Quality Control Result Tables
NATA Laboratory Certificates
Chain of Custody documents
- Appendix C. Historical Aerial Photographs, NSW Department of Lands
Section 149 (2) & (5) Certificate
Historical Title Information
Dangerous Goods License search, NSW Workcover
- Appendix D. Groundwater Bore Location Search, Department of Primary Industries
Acid Sulfate Soil Search, Ku-Ring-Gai Local Environment Plan 2015
Contaminated Land Register Search, NSW EPA
- Appendix E. Borelogs
- Appendix F. NEPM 2013 Health Screening Levels TRH
NEPM 2013 Ecological Investigation Levels
NEPM 2013 Ecological Screening Levels

ABBREVIATIONS

AEC	Areas of Environmental Concern
AHD	Australian Height Datum
ANZECC	Australian and New Zealand Environment and Conservation Council
BaP	Benzo(a)pyrene
CA	Contamination Assessment
CLM	Contaminated Land Management Act
COC	Chain of Custody
CPAHs	Carcinogenic Polycyclic Aromatic Hydrocarbons
DEC	Department of Environment and Conservation NSW
DECC	Department of Environment and Climate Change NSW
DECCW	Department of Environment, Climate Change and Water NSW
DQO	Data Quality Objectives
DSI	Detailed Site Investigation
EILs	Ecological Investigation Levels.
EPA	Environmental Protection Authority
ESLs	Ecological Screening Levels
HILs	Health Investigation Levels
HSLs	Health Screening Levels
NATA	The National Association of Testing Authorities
NEHF	National Environment and Health Forum
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
OCP	Organochlorine Pesticides
OEH	Office of Environment and Heritage NSW
OPP	Organophosphate Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PID	Photo Ionisation Detector
PQL	Practical Quantitation Limits
PSI	Preliminary Site Investigation
QA/QC	Quality Assurance, Quality Control
RAC	Remediation Acceptance Criteria
RAP	Remedial Action Plan
RPD	Relative Percent Difference
SAC	Soil Assessment Criteria
SESL	SESL Australia
SMP	Site Management Plan
SVR	Site Validation Report
TEQ	Toxic Equivalence Quotient

The Killara Golf Club

Page 7 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1 INTRODUCTION

1.1 Background

SESL Australia (SESL) was engaged by Killara Golf Club (the client) to conduct a Tier 1 Detailed Site Investigation (DSI) on part of the property located at 556 Pacific Highway, Killara NSW 2071 (the site). The site is identified as Lot 2 in Deposited Plan (DP) 535219. SESL understands that the clients' intention is to rezone the site for residential development. This report will be used as supporting documentation for the rezoning of the property. Environmental Scientists from SESL undertook detailed sampling on 23/02/2016, 24/02/2016 and 25/02/2016. It is noted that the investigation boundary for this DSI is restricted from the time of the previous investigations to the northern portion of the site as the area of proposed rezoning.

The objective of this DSI was to:

- Produce a Tier 1 Detailed Site Investigation (DSI) in accordance with the *National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013)*, *NEPC 2013*, *Canberra*;
- Identify issues of ongoing pollution and non-compliance, as compared to current regulatory criteria;
- Identify the likelihood and/or extent of contamination occurring from past or present practices on the site; and
- Recommend any further management strategies including additional investigations or remedial action if required.

Generally, the preparation of the ESA was based on the following Guidelines, Acts and Regulations:

- *Managing Contaminated Land: Planning Guidelines SEPP 55 – Remediation of Land*, *Environment Protection Authority 1998*;
- *Contaminated Land Management Regulation 2008*;
- *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites – NSW OEH 2011*;
- *Guidelines for the NSW Site Auditor Scheme*, *NSW EPA 2006*;
- *Contaminated Sites: Sample Design Guidelines*, *NSW EPA 1995*;
- *Contaminated Sites: Guidelines for Assessing Service Stations Sites*, *NSW EPA 1994*;
- *Technical Note: Investigation for Service Station Sites*, *NSW EPA (2014)*;
- *Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2014*;
- *Environmental Planning and Assessment Act, 1979*;

- *National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013), NEPC 2013, Canberra;*
- *Protection of the Environment Operations Act, 1997;*
- *Ku-Ring-Gai Local Environmental Plan 2015; and*
- *Waste Classification Guidelines Part 1: Classifying Waste, NSW EPA 2014.*

1.2 Scope of Work

The scope of work for this DSI was as follows:

- Comprehensive data review on the history of the site;
- Site walk over and inspection by SESL prior to the commencement of site works;
- Intrusive soil sampling based on site account and site inspection;
- Standard quality assurance (QA) and quality control (QC) measures implemented;
- Laboratory chemical analysis by a National Association of Testing Authorities (NATA) accredited laboratory, in accordance with a chain of custody prepared by SESL;
- Assessment of field and laboratory analytical results; and
- Preparation of this report detailing the findings of the DSI in accordance with the *National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013)* for reporting on contaminated sites.

1.3 Personnel

The site works were undertaken on the 23rd, 24th and 25^h of February and 17th March 2016 by SESL Environmental Scientists.

Table 1 – Project Personnel

Personnel	Position	Project Task
Andrew Jacovides B Nat Sc Env Mgt	Environmental Scientist	Conduct site observation, soil sampling, groundwater well establishment and report preparation.
Luke Jacovides B Env. Mgmt & Sc	Environmental Scientist	Conduct site observation, soil sampling, groundwater well sampling and report preparation.

Ryan Jacka B Env Sc, M Env Sc, MEIANZ, SSA	Senior Environmental Scientist	Conduct Site walkover, report review and authorisation.
Lisa Jones B Bio & Con	Environmental Intern	Conduct site observation and soil sampling.
Fiona Warden B Env Sc & Mgt	Environmental Scientist	Conduct site observation, soil sampling and report preparation.

2 SITE DESCRIPTION

2.1 Site Location and Ownership

Access to the site is currently via a driveway northbound on Pacific Highway, Killara. The total site area is approximately 40,700m². The area of investigation is approximately 12 000 m². The site is legally defined as Lot 2 in DP 535219 and is currently owned by Killara Golf Club Limited.

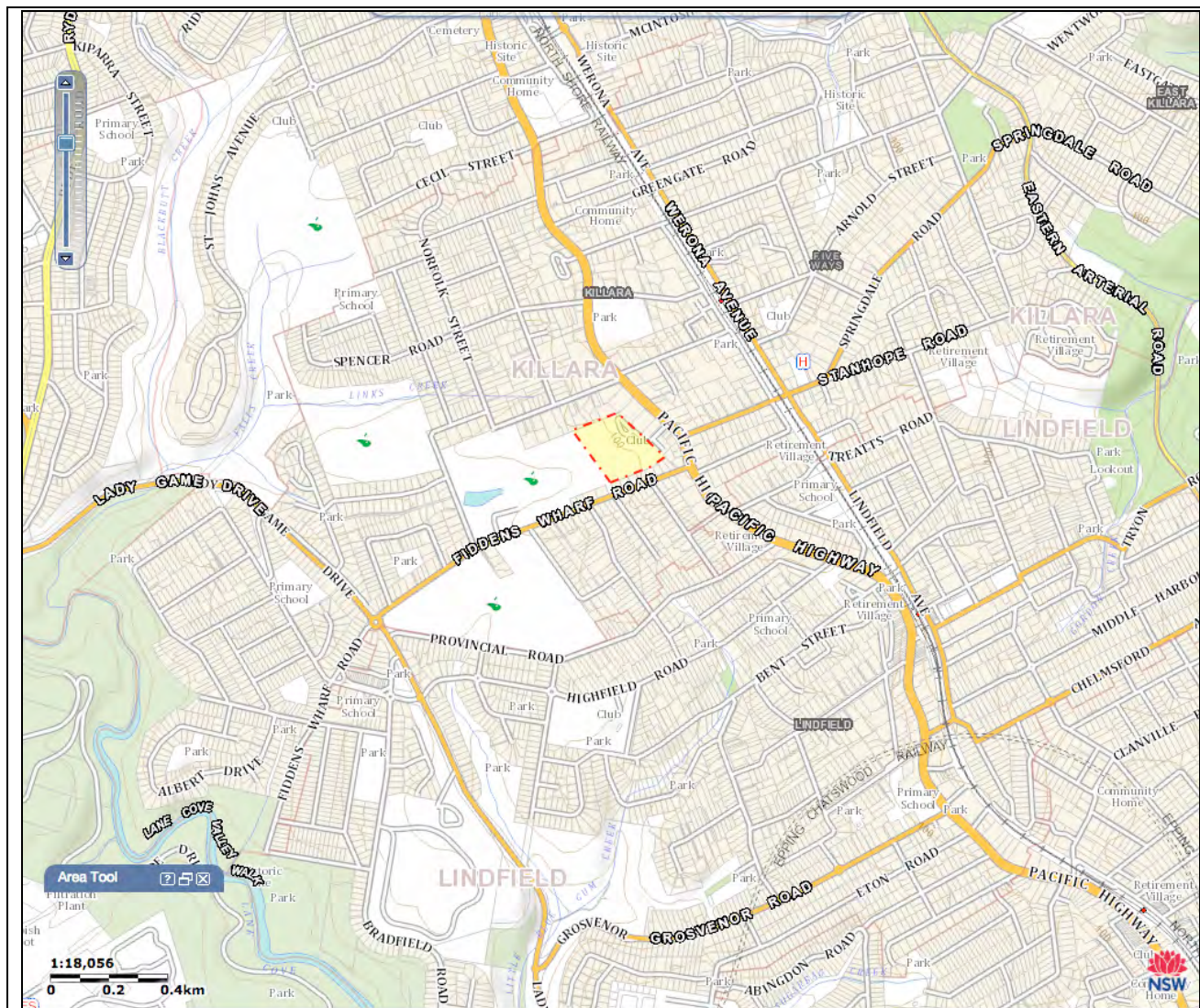
2.2 Site Identification

The following details describe the portion of land investigated during this DSI:

Table 2 – Site Identification

Site Owner	Killara Golf Club Limited
Site Address	556 Pacific Highway, Killara NSW 2071
Lot and DP Number	Lot 2 DP 535219
Local Government Area	Ku-ring-gai Council
Current Zoning	Deferred Area 15 (KLEP 2015)
Distance from Sydney CBD	Approximately 15km north of the CBD
Geographical Coordinates	33°46'12.89"S 151°09'29.46"E
Investigation Area	Approximately 12 000m ² (Figure 2)
Site Elevation	Approximately 110m AHD
Locality Map	Figure 1
Site Layout	Figure 2 and Appendix A: Site Layout

Figure 1 – Locality Map: 556 Pacific Highway, Killara NSW 2071



(Department of Lands, 2015)

2.3 Surrounding Land Use

The site itself is zoned Residential 2(b) (KPSO) and as Deferred Area 15 (KLEP 2015) within the Ku-ring-gai Council local government area. The site is surrounded by RE2 Private Recreational (the remaining section of the golf course) to the west of the site. East of the site is R4 High Density Residential and both north and south of the site are R2 Low Density Residential. Gordon Golf Club is located to the north west of the site. Ravenswood School for Girls is north of the club. Regimental Park

The Killara Golf Club

Page 11 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



A member of the
 Australasian Soil and
 Plant Analysis Council

and Killara Train station are east of the site. A service station and a shopping strip are located immediately east of the site.

Figure 2 – Site Layout: 556 Pacific Highway, Killara NSW 2071



(Department of Lands, 2015)

2.4 Site Layout and Infrastructure

The site layout can be viewed in Figure 2. The area highlighted in yellow is the area investigated in this DSI. The site is predominately a section of the golf course with two tennis courts and two bowling greens in the northern portion of the site. The clubhouse and carpark are at the eastern end of the site and are included in the investigation area. A small clubhouse and sheds are located adjacent the bowling green.

The site is connected to local electricity, mains water, stormwater drainage and sewer system.

The Killara Golf Club

Page 12 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



2.5 Physical Site Characteristics

2.5.1 Topography and Drainage

The site topography was observed to be sloping in a south westerly direction. The elevation across the investigation area is approximately 110 meters (m) Australian Height Datum (AHD) but ranges from 98 metres on the golf course to 119m in the carpark. Stormwater is presumed to flow south westerly over the course and into a pond on site. Onsite water is expected to be channelled through contours to on site capture where possible.

2.5.2 Geology

The *Soil Landscapes of the Sydney 1:100,000 Sheet* (Chapman et al. 1989) indicates the site to be within the Glenorie soil landscape group, with friable dark brown loam topsoils overlying hard setting brown clay loam subsoil and whole coloured, reddish brown strongly pedal clay at depth. Undulating to rolling low hills on Wianamatta Group shales. Most typically extensively cleared tall open-forest (wet sclerophyll forest).

Based on the topography of the site, it is expected that significant filling has occurred to obtain current levels. Natural soils, fitting the above description were present beneath fill materials.

2.5.3 Hydrogeology

A groundwater bore search was undertaken using the groundwater database under Office of Water, Department of Primary Industries (www.allwaterdata.water.nsw.gov.au). Six (6) groundwater bores are located within a 1km radius of the site (see Appendix D).

A domestically used bore hole (GW023498) was located approximately 200m east of the site. Three (3) boreholes (GW104668, GW104669 and GW104670) were approximately 800m north of the site. One borehole (GW106029) was located approximately 1km to the east of the site.

SESL was advised that a groundwater well is positioned in the western corner of the visitors carpark. This well was observed during the site inspection. It is noted that this well was constructed to monitor groundwater contamination from the upslope mechanics workshop.

2.5.4 Surface Water

One surface water body was observed at the time of the site assessment. A pond is located on the golf course approximately 400m to the west of the site. Links creek is located approximately 600m west of the site.

2.5.5 Acid Sulfate Soil

A search was undertaken through the Ku-ring-gai Council's record under the Ku-ring-gai Local Environmental Plan 2015 to determine the acid sulfate soil risk on site. The Acid Sulfate Soils Map identified there was no risk of Acid Sulfate Soils on the site. Based on the elevation and geological land unit of the area, it is not expected that acid sulfate soils are present.

2.5.6 Proximity to Local Sensitive Environments

The nearest sensitive environment is Lane Cove National Park, which is located approximately 2km west of the site. No other sensitive cultural or other environmental receptors are identified in close proximity to the site.

2.5.7 Soil and Groundwater Contamination

As part of the development assessment process, SESL was engaged by the client to undertake a Tier 1 Preliminary Site Investigation for the site. The findings of that investigation indicated the need for a Tier 1 Detailed Site investigation (See SESL report: C0598.Q4957.B36607 TKGC PSI FA). Soil and groundwater are potentially contaminated due to historical site uses and migration of contaminated groundwater from adjacent sites. SESL is not aware of any previous environmental investigations relating to this site.

2.6 Site History

A review of the site history was undertaken to assess the historical use of the site, and in particular to identify activities with potential to contaminate soil, groundwater and surface water at the site. The historical review included:

- Current and historical certificates of title;
- Current and historical aerial photographs;
- Council planning documentation; and
- The NSW EPA Contaminated Lands database.

2.7 Historical Title Search

The current and historical Certificates of Title was obtained from the Department of Lands and reviewed to assess the history of ownership and therefore possible landuse of the site.

The site is currently described as Lot 2 DP 535219. The registered owner of the site is listed as Killara Golf Club Limited. The history of ownership based on the Certificates of Titles is summarised in Table 3 and copies of the titles are provided in Appendix C.

Table 3 – Summary of Owners for Lot 2 DP 535219

Duration	Owner (s)	Suspected Landuse Activities
Circa 1926 – 10.11.1980	Lindfield Golf and Recreational Club Pty. Limited	Golf club and recreational facilities
10.11.1980 -present	Killara Golf Club Limited.	Golf club and recreational facilities

2.8 Historical Aerial Photographs

Aerial photographs from 1930, 1970, 1982, 1951, 1961, 1994 and 2004 were obtained from Land and Property Information Division for review to assess the history of the development of the site, copies of the aerial photographs can be in Appendix C.

1930 The site appears to already be being used as a golf course with minimal vegetation and covered surface. Houses along Pacific highway exist and there are some areas of disturbed land behind these. Surrounding land uses include residential, cleared land and dense vegetation. Regimental Park to the north of the site has been cleared.

1951 The site now has a clubhouse and car park established with one bowling green constructed. It appears the ground has been raised where the bowling green has been constructed. More houses appear on the southern boundary of the golf course. Vegetation on site is slightly denser. Residential dwelling density has increased surrounding the site. Regimental Park to the north of the site appears to have grass coverage.

1961 The land in the northeastern corner of the site has been developed with a small number of residential properties. What appears to be a second bowling green, at a lower elevation to the

previous is being constructed. The golf course grounds and the surrounding seem relatively unchanged.

1970 Vegetation on site has reduced in density. Residential properties north of the site have increased in density. The second bowling green appears completed. Cars now appear in the carpark indicated the site is operational. The golf course has increased surface indentations such as sandpits. A small pond appears in the western corner of the course. The surrounding area seems relatively unchanged.

1982 Vegetation on site has increased. Two tennis courts have been constructed below one of the bowling greens and appears to be on raised ground. The pond on the golf course seems to have increased in size. A small structure appears opposite the pond on raised group. The residential houses that boarder the east of the site on Pacific Highway have been redeveloped and now include three high density dwellings. Vegetation in the surround area appears to have slightly decreased.

1994 The pond in the western corner appears to have increased in size. The small structure opposite appears to have more land cleared surround it and possible paving. The site and surrounds appear relatively unchanged from the 1982 aerial photograph.

2004 A path/road has been made across the site from the clubhouse carpark to the small structure and paved area opposite the pond. A carpark or cart parking area has been established below the small structure. The site and surrounding area remain relatively unchanged from the 1994 photograph.

2.9 Site Zoning and Council Records

Ku-ring-gai Local Environmental Plan 2015 is the principle-planning instrument regulating landuse and development in the area. Ku-ring-gai Planning Scheme Ordinance (KPSO) and the Draft Ku-ring-gai Local Environment Plan 2013 are other planning instruments to be considered as they list the site as Residential 2(b) and RE2 Private Recreation respectively. The site is currently zoned Deferred Area 15 due to the proposed zoning changes.

The Section 149 (2) & (5) planning certificate for the property was obtained from Ku-ring-gai Council and a copy is provided in Appendix C. The following information has been noted following a review of the certificate:

- The site does not include or comprise critical habitat;

The Killara Golf Club

Page 16 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



- The site is not identified as a conservation area;
- The site is identified as containing an item of environmental heritage significance under the Ku-ring-gai Planning Scheme Ordinance and is listed as a Draft Heritage Item under Draft Ku-ring-gai Local Environment Plan 2013;
- The site is not affected by the operation of Section 38 or 39 of the *Coastal Protection Act 1979*;
- The site is not subject to mine subsidence under section 15 of the *Mine Subsidence Compensation Act 1961*;
- The site is not identified as bushfire prone land under the *Environmental Planning and Assessment Act 1979*. Ku-ring-gai Development Control Plan No.38- Residential Design Manual restrict the development of this site due to bushfire risk;
- The site is effected by Ku-ring-gai Development Control Plan No.47 - Water Management due to flood related controls on development;
- The site is not identified as biodiversity certified under part 7A of the *Threatened Species Conservation Act 1995*;
- This site is not affected by a Biobanking Agreement under part 7A of the *Threatened Species Conservation Act 1995*;
- This site may contain threatened species, populations and ecological communities listed under the *Threatened Species Conservation Act 1995* and or the *Environment Protection Biodiversity Conservation Act 1999* (Commonwealth);
- This site may contain one or more of the following endangered or critically endangered ecological communities as described in the final determination of the scientific committee to list the ecological communities under Part 3 of Schedule 1 or Part 2 of Schedule 1A of the *Threatened Species Conservation Act 1995*:
 - Blue Gum High Forest;
 - Duffys Forest Ecological Community in the Sydney Basin Bioregion;
 - Sydney Turpentine Ironbark Forest; and
 - Coastal Upland Swamp.
- The site is not affected by a Property Vegetation Plan under the *Native Vegetation Act 2003*;
- This site is not affected by an order under the *Tree (dispute Between Neighbours) Act 2006*; and
- This site is affected by a Tree Preservation Order pertaining to trees greater than 5m height or canopy spread exceeding 4m. Council consent will be required to ring bark, cut down, lop, prune, remove, injure or willfully destruct trees subject to this order.

The Section 149 Certificate identified the following matters prescribed by Section 59 (2) of the *Contaminated Land Management Act 1997* and noted that the site:

- Is **not** identified as significantly contaminated land within the meaning of the Act;

The Killara Golf Club

Page 17 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



- Is **not** subject to a management order within the meaning of the Act;
- Is **not** the subject of an approved voluntary management order within the meaning of the Act;
- Is **not** subject to an ongoing maintenance order within the meaning of the Act;
- Is **not** the subject of a site audit statement within the meaning of the Act; and
- Is **not** expected to be contaminated by Ku-ring-gai Council. However, council advises that prior to urban settlement, large areas of Ku-ring-gai were used for agricultural and horticultural activities. These activities may cause contamination and any concerns should be investigated.

2.10 EPA Contaminated Sites Database

A search of the NSW Environmental Protection Authority (EPA) contaminated land public record was performed to assess if the site or surrounding sites have been declared as contaminated sites. It should be noted that this database is not a comprehensive list of all contaminated land in NSW, this record only lists sites regulated under Part 3 of the *Contaminated Land Management Act 1997*.

A search undertaken on the 27/10/2015 for the Ku-ring-gai Council LGA, returned 24 notices relating to 5 sites listed under the *Contaminated Land Management Act 1997* within the suburb of Killara (see Appendix D). A summary of information related to this site is shown in Table 4.

Table 4 – Summary of EPA Contaminated Lands notices issued to the suburb of Killara

Site and Address	Issued Date	Description	Distance to site
BP Australia, 478 Pacific Highway, Killara	22.10.2014	<u>1) Voluntary Management Proposal</u> EPA approved the voluntary investigation proposal by BP Australia PTY LTD. The site is the location of a service station. The soil and/or groundwater at the site is contaminated with petroleum hydrocarbons and BTEX.	350m south of the site.
	22.10.2014	<u>2) Declaration of Significantly Contaminated Land</u> The service station site is significantly contaminated with petroleum hydrocarbon contaminated groundwater migrating offsite and a risk of human exposure to contaminated vapours via soil disturbance.	
Caltex Service Station, 684-696 Pacific Highway, Killara	28.03.2003	<u>1) Voluntary Remediation Proposal</u> EPA approved the voluntary remediation proposal by Charben Haulage PTY LTD to remediate the soil and groundwater at the former Caltex Service Station. The contaminants on site are identified as petroleum hydrocarbons and BTEX and are migrating offsite in groundwater. The	800 - 850m north of the site.

	27.11.2002	site is significantly contaminated.	
	Repealed	<u>2) Declaration of investigation area</u>	
	1.2.2010	EPA defined an investigation area for significantly contaminated land as a result of a former service station (692B-694 Pacific Highway) which operated for 40 years. Contaminants identified to have migrated off site in soil and groundwater are petroleum hydrocarbons and BTEX. It has know to have impacted four (4) sites and part of the Pacific Highway adjacent to the site. The EPA repealed the investigation in 2010 following the conclusion of management options, declaring these sites were no longer significantly contaminated.	
	5.3.2003	<u>3) Investigation Order</u>	
	Repealed	EPA ordered Caltex Petroleum PTY LTD, as the person principally responsible for the contamination to investigate, audit and implement plans to manage contamination issues at the former service station site and the four (4) sites and roadway impacted by contaminants. The EPA repealed the investigation in 2010 following the conclusion of management options, declaring these sites were no longer significantly contaminated.	
	1.2.2010		
	15.12.2004	4) End of Declaration Notice	
		The site was suspected to be impacted by petroleum hydrocarbons and BTEX from the nearby former Caltex service station. Investigations into soil and groundwater revealed the site was not significantly contaminated. No further investigations were to apply to this site.	
	15.12.2004	<u>5) Declaration of Remediation Area</u>	
		EPA revised the investigation area to exclude the non-contaminated 684-684A Pacific Highway, Killara site. It confirms that high concentrations of contaminants (petroleum hydrocarbons and BTEX) are present in a groundwater plume beneath the sites and is moving down gradient. It has the potential to cause harm to the environment including down gradient of groundwater flow.	
	12.4.2005	<u>6) Variation on Declaration of Remediation Area</u>	
	Amended	EPA revised the investigation area to include the Pacific Highway easement adjacent to 690, 692, 692B, 694 and 696 Pacific Highway, Killara. In 2010 the variation was amended to only include 692B and 694 Pacific Highway, Killara following investigations that concluded the other sites were not significantly contaminated.	
	1.2.2010		
	4.8.2006	<u>7) Remediation Order for Additional Areas</u>	

		EPA issued a remediation order to Caltex Petroleum PTY LTD which required them to conduct short term remediation, a method to delineate the extent of the groundwater plume, consult with the community and have reports audited.	
	24.5.2007	<u>8) Remediation Order for Additional Areas</u>	
	27.11.2007	EPA issued a further remediation order to Caltex Petroleum PTY LTD <u>9) Variation of Remediation Order</u> EPA added 690,692 and 696 Pacific Highway, Killara to the sites to be remediated. It was also made a requirement that site auditors audit the site and produce a report determining if the sites being assessed are suitable for specified land uses.	
	1.2.2010	<u>9) Repeal of Order</u> EPA declared all investigated sites to have the contamination issue managed and were considered no longer significantly contaminated. This repealed/amended all previous notices.	
	28.5.2003	<u>10) Site Audit Statement One</u> NSW accredited site auditor provided a site audit statement confirming the site details and confirmed the audit was being carried out to confirm the NSW EPA requirement stated in the remediation order issues to Caltex Petroleum PTY LTD.	
	13.1.2007	<u>11) Site Audit Statement Two</u> Accredited site auditor advised the EPA that the remediation plan carried out by Caltex Petroleum PTY LTD was appropriate for this site.	
	8.8.2008	<u>12) Site Audit Statement Three</u> Accredited site auditor advised the EPA that these sites were suitable for residential development with minimal opportunity for soil access including units.	

2.11 Dangerous Goods License Search

A search of the Stored Chemical Information Database and microfiche records held by WorkCover NSW did not locate any records pertaining to the site (See Appendix C).

The results of the search indicate that no chemicals are reported as being stored at the Site.

2.12 Previous Environmental Investigations

SESL conducted a Tier 1 Preliminary Site Investigation as part of the Development Assessment requirement for the site to be rezoned, (See SESL report: C0598.Q4957.B36607 TKGC PSI FA). The findings of the report are summarised in Sec 2.5.7.

SESL was not aware of any environmental investigations previously conducted for the site. The existence of a groundwater monitoring well in the east of the upper carpark suggests an investigation into the contamination status of the adjacent service station. No records were available for the findings of this investigation.

2.13 Current Landuse and Associated Practices

The site has a number of recreational activities performed, including golf, lawn bowls and tennis. Associated infrastructure such as carpark and the clubhouses also see general passive use. Key site activities of the current landuse and practices, including previous practices that may contribute to contamination being present include the establishment and maintenance of high performance sports turf of the golf course and bowling greens, and the importation of fill to contour and create level benches for the bowling and tennis areas.

The use of pesticides and herbicides in these areas historically presents a risk for contamination being present. Modern practices use less persistent products, however the residual impacts of previous practices may still present a risk to the proposed development.

2.14 Integrity Assessment

The integrity of information provided in this DSI was considered reliable. The DSI followed appropriate methods of investigation with the desktop survey being consistent with field observation and anecdotal evidence presented. Details regarding the site history and present status of the site have been largely obtained from official records sourced from Ku-Ring-Gai Council, NSW EPA, NSW Land and Property Information Department and Workcover NSW. These documents are considered accurate and credible. All information provided, as part of this report was believed to be true, accurate and representative of the past and present status of the site at the time of this investigation.

3 SITE RECONNAISSANCE

A walkover of the site was undertaken by SESL on Tuesday 16th October 2015 to support the findings of the desktop review and identify site characteristics that may be suggestive of site contamination. Intrusive soil sampling for this DSI was undertaken on 23rd, 24th and 25th February 2016. Groundwater sampling was conducted on 17th March 2016.

3.1 Stormwater

Based on the site topography for stormwater is unlikely to flow onto the site from surrounding land due to existing stormwater infrastructure. No significant issues were identified with respect to stormwater management on this property.

3.2 Chemical Storage

Chemical storage for golf course use is in the maintenance sheds on the west of the golf course. No chemical stores were observed during the site inspection. Some records of historical chemical use exist in site diaries, however no persistent pollutants were recorded. It is expected that persistent pollutants such as pesticides, would have been used historically due to the prevalence of use in recreational sportsturf industries.

3.3 Hazardous Building Materials

Potential asbestos-containing fragments are expected in the older buildings of the site. No asbestos was observed during the assessment. Asbestos-containing materials are commonly found in external structures such as walls and eaves, and internal wet areas such as bathrooms and kitchens. Asbestos was also commonly used for pipe lagging and insulation and also fire doors. The age of the structures also presents a risk for the presence of potential lead paint.

No PCB containing capacitors or SMF materials were identified at the time of the site assessment.

3.4 Cut and Fill

Based on the visual inspection during the site assessment, areas of cut and fill were identified. The bowling greens, tennis courts and carpark are significantly elevated above the adjacent course. The tennis courts appeared to be of localised cut and fill, with around 3m of fill depth in the south western corner of the western court. The western bowling green is expected to have the greatest depth of fill. This green is approximately 5-6m higher than the adjacent course. It is expected that the degree of

filling will reduce to negligible levels towards the north and east. Anecdotal evidence suggests that the fill materials used for the western bowling green is likely of questionable nature.

This assessment was limited to the area to be rezoned at present and did not include the bowling greens or tennis courts. Fill depth within the investigation area varied between 1.2m and 7.7m below the surface.

3.5 Waste Management

The site is currently used for recreational purposes. Waste is expected to be generated through typical maintenance of the course and grounds, predominantly greenwaste. The clubhouse would generate food and general waste through catering activities. No issues relating to waste management were observed.

3.6 Areas of Environmental Concern

A number of Areas of Environmental Concern (AEC) are associated with the former uses of the site. These include the use of the site for as general agricultural land, the presence of fill materials at the site, and the presences of degrading residential dwellings and sheds. These AEC and the Contaminants of Potential Concern associated with them are outlined in the table below.

Table 5 – Areas of Environmental Concern

Area of Environmental Concern	Contaminants of Potential Concern
AEC1: Potential for on-site migration of contamination from adjacent service station.	- Heavy metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Mn) - PAHS, TPHs, BTEXN - VOCs
AEC 2: Potential cut and fill activity during pre-development stage and to level former structure on site, particularly carparks.	- Organochlorine Pesticides (OCP) - Organophosphate Pesticides (OPP) - Heavy metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Mn) - PAHS, TPHs, BTEXN - Asbestos - VOCs - PCBs

4 RELEVANT GUIDELINES FOR CONTAMINATION ASSESSMENT AND MANAGEMENT

4.1 Relevant Guidelines

Assessment criteria will be based on guidelines made or approved by the NSW EPA under Section 105 of the *Contaminated Land Management Act 1997*. These include EPA's Contaminated Sites series of guidelines, and fundamental guideline documents such as the Australian and New Zealand Guidelines for the *Assessment and Management of Contaminated Sites* (ANZECC/NHMRC 1992) and *National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013)*, NEPC 2013, Canberra (NEPM).

The ASC NEPM 2013 incorporates a recommended general process for the assessment of site contamination and a set of 9 specific guidelines. The process and guidelines are closely based on previous documentation widely used for assessing site contamination (such as ANZECC/NHRMC 1992 and the various National Environmental Health Forum monographs and proceedings). Assessment criteria have been drawn from other guidelines and information sources, if not available in the above guidelines.

4.2 Proposed Development

SESL believes the investigation area is to be rezoned for residential development. This report is to be used as part of the development process.

4.3 National Environmental Protection Measure (Contaminated Sites) 1999

National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013), NEPC 2013, Canberra (ASC NEPM 2013) provides a national framework for conducting assessments of contaminated sites in Australia.

The purpose of the (ASC NEPM 2013) is to establish a nationally consistent approach to the assessment of site contamination to ensure sound environmental management practices by the community which includes regulators, site assessors, environmental auditors, landowners, developers and industry.

The ASC NEPM 2013 addresses assessment of contamination, and does not provide specific guidance on prevention of site contamination. The desired environmental outcome for the ASC NEPM 2013 is to provide adequate protection of human health and the environment, where site contamination has

occurred, through the development of an efficient and effective national approach to the assessment of site contamination.

Schedule A in the ASC NEPM 2013 outlines the general process for assessment of site contamination, with reference to Schedules B (1) to B (9) for guidance on each step of the process.

In broad terms, the assessment process as provided in Schedule A can be described as:

- Tier 1 PSI Preliminary investigation, laboratory analysis and interpretation, and assessment of results with reference to investigations levels;
- Tier 1 DSI Where required, detailed investigation, laboratory analysis and interpretation is completed, and the need for risk assessment to derive response levels and/or the need for remediation is evaluated; and
- Tier 2 or 3 Site-specific risk assessment to confirm/define appropriate health and ecological investigation levels.

Overarching guidance is provided on community consultation and risk communication, protection of health and safety during assessment of site contamination, and expected competencies of environmental auditors and related professionals.

ASC NEPM 2013 provides a framework for the use of investigation and screening levels for the protection of human health, ecosystems, groundwater resources and aesthetics. Investigations levels and screening levels are applicable to the Tier 1 site assessment. The adopted investigation and screening levels for this assessment is as follow:

- i) Health Investigation Levels (HILs);
- ii) Health Screening Levels (HSLs);
- iii) Ecological Investigation Levels (EILs); and
- iv) Ecological Screening Levels (ESLs).

4.3.1

HILs are scientifically based, generic assessment criteria designed to be used in the Tier 1 assessment for assessing human health risk via all relevant pathways of exposure. HILs are designed to be intentionally conservative and based on a reasonable worst-case scenario for the following generic land use settings:

The Killara Golf Club

Page 25 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



- A 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, preschools and primary schools.**
- B Residential with minimal opportunities for soil access, including dwellings with fully and permanently paved yard space such as high-rise apartments and flats.**
- C Public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths. It does not include undeveloped public open space (such as urban bushland and reserves), which should be subject to a site-specific assessment where appropriate.**
- D Commercial/industrial includes shops and offices as well as factories and industrial sites.**

The site is currently used as a golf club. Due to the proposed rezoning of this section of the property to medium density residential, with the possibility for soil access, high human exposure to the site needs to be accounted for. Therefore, the Health Investigation Levels selected for the site is **HIL – Residential A**.

ASC NEPM 2013 Schedule B7 defined the HILs as the concentration of a contaminant above, which further appropriate investigation and evaluation will be required. It is also stated "levels in excess of the HILs do not imply unacceptability or that a significant health risk is likely to be present".

The ASC NEPM 2013 Schedule B7 states at the very least, the maximum and the 95% UCL of the arithmetic mean contaminant as well as localised elevated values must be compared to the HILs. Two additional (secondary) criteria should also be met, namely that the standard deviation of the results must be <50% of the relevant investigation level and that no single value exceeds 250% of the relevant investigation level.

ASC NEPM 2013 also states that the HILs are not intended to be used as clean-up levels for contaminated sites. The requirement of clean-up should be based on site-specific assessment and risk management options.

The adopted HIL is shown in Table 5.

Table 6 – Health Investigation Levels for Soil Contaminants

Chemical	Health-based investigation levels (mg/kg)			
	Residential ¹ A	Residential ¹ B	Recreational ¹ C	Commercial/ Industrial ¹ D
Metals and Inorganics				
Arsenic ²	100	500	300	3,000
Beryllium	60	90	90	500
Boron	4,500	40,000	20,000	300,000
Cadmium	20	150	90	900
Chromium (VI)	100	500	300	3,600
Cobalt	100	600	300	4,000
Copper	6,000	30,000	17,000	240,000
Lead ³	300	1,200	600	1,500
Manganese	3,00	14,000	19,000	60,000
Mercury (Inorganic) ⁵	40	120	80	730
Methyl Mercury ⁴	10	30	13	180
Nickel	400	1,200	1,200	6,000
Selenium	200	1,400	700	10,000
Zinc	7,400	60,000	30,000	400,000
Cyanide	250	300	240	1,500
Polycyclic Aromatic Hydrocarbons (PAHs)				
Carcinogenic PAHs (as BaP TEQ) ⁶	3	4	3	40
Total PAHs ⁷	300	400	300	4000
Phenols				
Phenol	3,000	45,000	40,000	240,000
Pentachlorophenol	100	130	120	660
Cresols	400	4,700	4,000	25,000
Organochlorine Pesticides				
DDT+DDE+DDD	240	600	400	3,600
Aldrin and Dieldrin	6	10	10	45
Chlordane	50	90	70	530
Endosulfan	270	400	340	2,000
Endrin	10	20	20	100
Heptachlor	6	10	10	50
HCB	10	15	10	80
Methoxychlor	300	500	400	2,500
Mirex	10	20	20	100
Toxaphene	20	30	30	160
Herbicides				
2,4,5-T	600	900	800	5,000
2,4-D	900	1,600	1,300	9,000
MCPA	600	900	800	5,000
MCPB	600	900	800	5,000
Mecoprop	600	900	800	5,000
Picloram	4,500	6,600	5,700	35,000
Other Pesticides				
Atrazine	320	470	400	2,500
Chlorpyrifos	160	340	250	2,000
Bifenthrin	600	840	730	4,500
Other Organics				
PCBs ⁸	1	1	1	7
PBDE Flame Retardants (Br1-Br9)	1	2	2	10

Notes: This table is adapted from Table 2 in Schedule B7: Derivation of Health-Based Investigation Levels, *National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013* (NEPC 2013).

HIL A: Residential with garden/accessible soil (home-grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.

HIL B: Residential with minimal opportunities for soil access; includes dwellings with fully and permanently paved yard space such as high-rise buildings and apartments.

HIL C: Public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths. This does not include areas of undeveloped open space where the potential for exposure is lower and where a site-specific assessment may be more appropriate.

HIL D: Commercial/industrial includes premises such as shops, offices, factories and industrial sites.

Arsenic: HIL for arsenic assumes 70% oral bioavailability. Site-specific bioavailability may be important and should be considered where appropriate

Lead: HIL for lead is based on blood lead models (IEUBK for HILs A, B and C and adult lead model for HIL D) where 50% oral bioavailability has been considered. Site-specific bioavailability may be important and should be considered where appropriate

Methyl mercury: Assessment of methyl mercury should only occur where there is evidence of its potential source. It may be associated with inorganic mercury and anaerobic microorganism activity in aquatic environments. In addition, the reliability and quality of sampling/analysis should be considered.

Elemental mercury: HIL does not address elemental mercury. A site-specific assessment should be considered if elemental mercury is present, or suspected to be present.

Carcinogenic PAHs: HIL for carcinogenic PAHs is based on the 8 carcinogenic PAHs and their respective TEFs (potency relative to BaP) adopted by CCME 2008. The BaP TEQ is calculated by multiplying the concentration of each carcinogenic PAH in the sample by its BaP TEF, given below, and summing these products.

PAH Species	TEF	PAH Species	TEF
Benzo(a)anthracene	0.1	Benzo(g,h,i)perylene	0.01
Benzo(a)pyrene	1	Chrysene	0.01
Benzo(b+j)fluoranthene	0.1	Dibenzo(a,h)anthracene	1
Benzo(k)fluoranthene	0.1	Indeno(1,2,3-c,d)pyrene	0.1

Where the BaP occurs in bitumen fragments it is relatively immobile and does not represent a significant health risk.

Total PAHs: HIL for total PAH is based on the sum of the 16 PAHs most commonly reported for contaminated sites (WHO 1998). The application of the total PAH HIL should consider the presence of carcinogenic PAHs and naphthalene (the most volatile PAH). Carcinogenic PAHs reported in the total PAHs should meet the BaP TEQ HIL. Naphthalene reported in the total PAHs should meet the relevant HSL.

PCBs: HIL for PCBs relates to non-dioxin-like PCBs only. Where a PCB source is known, or suspected, to be present at a site a site-specific assessment of exposure to all PCBs (including dioxin-like PCBs) should be undertaken.

4.3.2 Health Screening Levels (HSLs)

4.3.2.1 Petroleum Hydrocarbon Compounds

ASC NEPM 2013 adopts the Health Screening Levels for various petroleum hydrocarbon compounds developed by the Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE). Friebel and Nadebaum 2011 provide the methodology for assessing human health risk via the inhalation and direct contact pathways of selected petroleum compounds and fractions.

The HSLs apply to the same landuse scenarios with additional consideration of soil texture and depth to determine the appropriate soil, groundwater and soil vapour criteria.

The ASC NEPM 2013 provides HSL fractions and corresponding equivalent carbon range for petroleum hydrocarbon compounds (see Table 7). HSLs are given only for F1, F2 and BTEX as the heavier petroleum compounds of F3 and F4 are non-volatile and do not pose a concern for vapour intrusion. However exposure can be via direct contact pathways (dermal contact, incidental oral ingestion and dust in halation). Friebel and Nadebaum 2011 provides the HSLs for direct contact, however for most site assessments, these levels are unlikely to trigger further investigation or site management as the values are substantially higher than most soil screening levels.

Table 7 – HSL Fractions and Corresponding Equivalent Carbon Range

Fraction Number	Equivalent Carbon Number Range
F1	$C_6 - C_{10}$
F2	$>C_{10} - C_{16}$
F3	$>C_{16} - C_{34}$
F4	$>C_{34} - C_{40}$

As aforementioned, HSLs for soil, groundwater and soil vapour haven been developed based on soil texture. The HSLs assume a uniform soil profile and the highest proportion of the soil texture from the soil profile should be used selecting the appropriate HSLs. For Tier 1 soil assessment, the HSL classifications of sand, silt and clay may be broadly applied to soil texture classification in Table A1 of Australian Standard 1726 as follow:

- i) Coarse grained soil: >50% of particles (by weight) <63mm and >0.075mm
 - Sand: >50% of particles (by weight) <2.36mm; or
 - Gravel: >50% of particles (by weight) >2.36mm.
- ii) Fine-grained soil: >50% of particles (by weight) <0.075mm
 - Silts and clays (liquid limit >50%);
 - Silts and clays (liquid limit <50%); or
 - Highly organic soils.

4.3.2.2 Asbestos

ASC NEPM 2013 adopted the HSLs from the Western Australia Department of Health (WA DoH) *Guidelines of Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia 2009*. The HSLs are based on scenario-specific likely exposure levels, that include bonded and friable asbestos levels (see Table 8).

Asbestos only poses human health risk when asbestos fibres are made airborne and inhaled. Bonded asbestos is not readily made airborne except through substantial physical damage. ASC NEPM 2013 states “the assessment and management of asbestos contamination should take into account the condition of the asbestos materials and the potential for damage and resulting release of asbestos fibres”.

The HSLs are to be used for Tier 1 assessment, in the event of an exceedance that triggers the need for a Tier 2 site-specific assessment. Site-specific assessments of asbestos contaminated sites should be designed to describe the nature and quantity of asbestos present in the soil that can sufficiently develop a risk management plan for the current and proposed landuse of the site.

Table 8 – Health Screening Levels for Asbestos Contamination in Soil

Form of asbestos	Health Screening Level (w/w)			
	Residential A ¹	Residential B ²	Recreational C ³	Commercial/ Industrial D ⁴
Bonded ACM	0.01%	0.04%	0.02%	0.05%
Fibrous Asbestos (FA) and Asbestos Fines (AF) ⁵ (Friable Asbestos)	0.001%			
All forms of asbestos	No visible asbestos for surface soil			

Note: This table is adapted from Table 7 in Schedule B1: Health Screening Levels of Asbestos Contamination in Soil, *National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013* (NEPC 2013).

1 Residential A with garden/accessible soil also includes childcare centres, preschools and primary schools.

2 Residential B with minimal opportunities for soil access; includes dwellings with fully and permanently paved yard space such as high-rise buildings and apartments.

3 Recreational C includes public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and unpaved footpaths.

4 Commercial/industrial D includes premises such as shops, offices, factories and industrial sites.

5 The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

4.3.3 Ecological Investigation Levels (EILs)

Ecological Investigation Levels (EILs) have been developed for assessing risk to terrestrial ecosystem for common contaminants in soil. The EILs are derived for specified levels of species protection depending on land use and are principally applied to the top 2m of the soil.

Table 9 – EILs Landuse Criteria and Protection Levels

Land Use	Levels of Protection
Areas of ecological significance	99%

The Killara Golf Club

Page 30 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Urban residential areas and public open space (HIL A, B and C)	80%
Commercial and industrial	60%

Schedule B5 of ASC NEPM 2013 provides the EILs for Arsenic, Copper, Trivalent Chromium, DDT, Naphthalene, Nickel, Lead and Zinc. The methodology to derive the EILs considers the physicochemical properties of soil and contaminants and the capacity of the local ecosystem to accommodate increases in contaminant levels above ambient background.

EILs are obtained by summing added ambient background concentration (ABC) and contaminant limit (ACL). ABC is the soil concentration in a specified locality that is the total of naturally occurring background level and the contaminant levels that have been introduced by general anthropogenic sources. ACL is the added concentration above the ABC of a contaminant which require further investigation on the impact on ecological values.

The derivation of EILs takes into consideration the ageing of contamination (>2 years) and soil properties as the toxicity of soil contaminants will reduce over time. Values for ACL based on pH, CEC and exposure scenario are provided for Lead, Zinc, Copper, Nickel and Trivalent Chromium. This method of deriving EILs only applies to metals and metalloids, with the exception of Arsenic. Generic EILs for Arsenic, DDT and Naphthalene are shown in Appendix F.

Methodology for Tier 2 site-specific assessments to determine site-specific EILs is provided in Schedule B5(b).

4.3.4 Ecological Screening Levels (ESLs)

Ecological Screening Levels (ESLs) haven been developed for selected petroleum hydrocarbon compounds to assess risk to terrestrial ecosystem. The ESLs adopts the same four fractions from the HSLs (see Table 7), however the soil texture standards are only divided into two: coarse or fine.

ESLs were adopted based on a review of Canadian guidance, a risk based TPH standards for human health and ecological aspects for various land uses in the *Canada-wide standard for petroleum hydrocarbons in soil* (CCME 2008).

In summary, the Investigation and Screening Levels adopted for this assessment is as follow:

- NEPC 2013, ASC NEPM 2013 Schedule B7, Table 1(A)1 – Health Investigation Levels for Soil Contaminants, Exposure Setting **Residential A**;

The Killara Golf Club

Page 31 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



- NEPC 2013, ASC NEPM 2013 Schedule B7, Table 7 – Health Screening Levels for Asbestos Contamination in Soil, Exposure Setting **Residential A**;
- NEPC 2013, ASC NEPM 2013 Schedule B7, Table 1(A)3 – Soil Health Screening Levels for Vapour Intrusion;
- NEPC 2013, ASC NEPM 2013 Schedule B5b & B5c, Ecological Investigations Levels
- NEPC 2013, ASC NEPM 2013 Schedule B7, Table 1(B)5 – Generic EILS for Aged As, Fresh DDT and Fresh Napthalene in Soils; and
- NEPC 2013, ASC NEPM 2013 Schedule B7, Table 1(B)6 – ESLs for TPH Fractions F1-F4, NTEX and Benzo(a)pyrene in Soil.

4.4 Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites (ANZECC/NHMRC, 1992)

The *Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites* (ANZECC/NHMRC, 1992) provide a risk management approach consistent with the attainment of environmental outcomes described in the ASC NEPM 2013.

Contamination of land is defined as the presence in, on or under the land of a substance at a concentration above the concentration at which the substance is normally present in, on or under (respectively) land in the same locality, being a presence that presents a risk of harm to human health or any other aspect of the environment¹.

The objectives of contaminated site remediation (ANZECC/NHMRC, 1992) are:

1. To render a site acceptable and safe for the long term continuation of its existing/proposed use;
2. To minimise environmental and health risks both on and off site to acceptable levels; and
3. To maximise to the extent practicable, the potential future uses of the site.

The ANZECC/NHRMC 1992 Guidelines provides two basic approaches in dealing with contaminated sites.

- i) A strict adherence to a set of preferred soil criteria used to define a condition of contamination and to serve as the standard which sites must meet in order to be considered to have been decontaminated; or
- ii) A more flexible use of pre-determined soil criteria use chiefly to provide guidance as to whether a detailed investigation is required, confirm no further action is needed or provide guidance for

¹ Contaminated Land Management Act (CLM Act) 1997

clean-up in appropriate circumstances. This approach relies on careful consideration of site-specific data to derive acceptable criteria, which will ensure that public health, local amenity and soil, air water and quality are protected.

The ANZECC/NHRMC 1992 Guidelines concluded that the most appropriate approach for Australia is to adopt the combination of both approaches that incorporates, at a national level a general set of management principles and soil quality guidelines which guide site assessment and may guide site clean-up action, eliminating where appropriate, the need to develop costly site specific criteria. This approach also recognises that every site is different and that in many cases site specific acceptable criteria and clean-up technologies will need to be developed which reflect local conditions.

4.5 The Managing Land Contamination: Planning Guidelines – Remediation of Land, NSW EPA 1997 (SEPP55 Guidelines)

The Managing Land Contamination: Planning Guidelines – Remediation of Land, NSW EPA 1997 (SEPP55 Guidelines) establishes the best practice for managing land contamination through the planning and development control process. The planning and development control process as provided for in the *Environmental Planning and Assessment Act 1979* plays an important role in the management of land contamination. The integration of land contamination management into the planning and development control process will:

- Ensure that changes of land use will not increase the risk to health or the environment;
- Avoid inappropriate restrictions on land use; and
- Provide information to support decision-making and to inform the community.

The SEPP55 Guidelines include:

- a) Information to assist in the investigation of contamination possibilities;
- b) A decision making process that responds to the information obtained from an investigation;
- c) Information on how planning and development control can cover the issues of contamination and remediation;
- d) A suggested policy approach for planning authorities;
- e) Discussion of information management systems and notification and notation schemes, including the use of Section 149 planning certificates notations; and
- f) Approaches to prevent contamination and reduce the environmental impact from remediation activities.

SEPP 55 Guidelines provides consistent statewide planning and development controls for the remediation of contaminated land and ensures the following:

The Killara Golf Club

Page 33 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



- Landuse changes do not occur until planning authorities consider whether the land is contaminated and whether it needs to be remediated to make it suitable for the proposed use;
- Remediation of contaminated land is permissible throughout the State;
- Remediation requires consent only where it has the potential for significant environmental impacts or does not comply with a council's policy for contaminated land;
- Most remediation proposal which require consent are advertised for public comment;
- All remediation is carried out in accordance with appropriate standards and guidelines;
- Applications for remediation are not refused without substantial justification; and
- Councils are notified at commencement and completion of remediation.

4.6 Relevant Legislation

NSW has a comprehensive suite of guidelines relating to assessment and management of contamination, administered under the *Contaminated Land Management Act (CLM Act) 1997* and the *Environmental Planning and Assessment Act 1997*. These include the following:

- *Contaminated Sites: Guidelines for Assessing Service Station Sites, NSW EPA, 1994;*
- *Contaminated Sites: Sampling Design Guidelines, NSW EPA, 1995;*
- *Managing Land Contamination: Planning Guidelines SEPP 55 – Remediation of Land, NSW EPA 1998;*
- *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites, NSW OEH, 2011;*
- *Contaminated Sites: Guidelines for the NSW Site Auditor Scheme, NSW DEC, April 2006;*
- *Waste Classification Guidelines Part 1: Classifying Waste, NSW EPA 2014.*

Guidelines approved under the CLM Act also include ADWG (2011) *Australian Drinking Water Guidelines*, ANZECC/ARMCANZ (2000) *Water Quality Guidelines* and GMRRW (2008) *Guidelines for Managing Risk in Recreational Waters*.

SESL's policy of meeting the spirit and intent of State Legislation where possible, consideration will be given in the first instance to NSW legislation and guidelines, where these do not conflict with Commonwealth legislative requirements. State legislation and guidelines are directly relevant to any offsite components of the proposed remediation.

5 SOIL SAMPLING, ANALYSIS PLAN AND SAMPLING METHODOLOGY

5.1 Sampling Team

The details and duties (see Table 10) of the soil sampling team, over the three days were as follows:

- a) Sample collector:
 - Soil sample collection according to sampling regime.
 - Described soil horizon features.
 - Responsible for decontamination between sampling.
- b) Sample logger:
 - Identified testing location and depth of profiles.
 - Labeled sample containers.
 - Recorded field conditions current at sampling into the sample log.
 - Recorded soil profile information.
 - Nominated field duplicates at the nominated ratio.
 - Recorded analytes to be tested for each sample.
 -

The details and duties (see Table 10) of the water sampling team, on 17th March 2016 were as follows:

- c) Sample collector:
 - Water sample collection using a Micropurge;
 - Measured Standing Water Level; and
 - Collected Sample in appropriate containers.
- d) Sample logger:
 - Identified groundwater well locations;
 - Labeled sample containers;
 - Recorded field conditions current at sampling into the sample log;
 - Recorded instrument readings.
 - Recorded analytes to be tested for each sample.

Table 10 – Soil Sampling Team Personnel

Personnel	Position	Qualifications	Project Task
Luke Jacovides	Environmental Scientist	Bachelor of Environmental Science and Management Workcover Construction Work in NSW (White Card)	Conduct site visual assessment Identify sampling location Conduct soil sampling
Andrew Jacovides	Environmental Scientist	Bachelor of Natural Science in Environmental Management	Conduct site visual assessment

The Killara Golf Club

Page 35 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



A member of the
Australasian Soil and
Plant Analysis Council

		Workcover Construction Work in NSW (White Card)	Identify sampling location Conduct soil sampling
Lisa Jones	Environmental Intern	Bachelor of Biodiversity and Conservation Workcover Construction Work in NSW (White Card)	Conduct site visual assessment Identify sampling location Conduct soil sampling
Fiona Warden	Environmental Scientist	Bachelor of Environmental Science and Management Workcover Construction Work in NSW (White Card)	Conduct site visual assessment Identify sampling location Conduct soil sampling

Table 11 – Water Sampling Team Personnel

Personnel	Position	Qualifications	Project Task
Luke Jacovides	Environmental Scientist	Bachelor of Environmental Science and Management Workcover Construction Work in NSW (White Card)	Conduct site visual assessment Identify sampling location Conduct water sampling
Marie-France Courtois	Field Scientist	Workcover Construction Work in NSW (White Card)	Assist water sampling Record instrument readings
Adam Reid	Environmental Intern	Workcover Construction Work in NSW (White Card)	Conduct water sampling Record instrument readings

5.2 Sampling Regime – Soil

The fieldwork for the assessment was devised to address the issues identified as potential for contamination as set out in Section 3. The sampling objective was to gather information with regard to the type, location and extent of potential soil contamination as a result of historical filling of the Site. This process provided sufficient supporting data to allow recommendations to be made on whether the possible site contamination is compliant with the proposed landuse and the environmental concerns.

The selection of the soil sampling locations was formed based on a judgemental sampling pattern to investigate the extent and depth of contamination in imported fill across filled areas of varied depth. The summary of sampling location selection is show in Table 12.

Table 12 – Soil sampling locations selection

Sampling Location	Depth	Justification
BH1 to BH17	500mm to natural materials	Within the area of identified filling. Analyse soils for pesticides, heavy metals, PCBs, TRH, BTEXN, PAHs, asbestos and VOCs.

5.3 Sampling Regime – Water

The fieldwork for the assessment was devised to address the issues identified as potential for contamination as set out in Section 3. The sampling objective was to gather information with regard to the type, location and extent of groundwater contamination as a result migration from adjacent sites and on site fill material. This process provided sufficient supporting data to allow recommendations to be made on whether the possible site contamination is compliant with the proposed landuse and the environmental concerns.

The selection of the groundwater sampling locations were chosen based on proximity to sources of potential offsite migration and to allow for the determination of groundwater flow direction. The summary of sampling location selection is show in Table 13.

Table 13 – Groundwater sampling locations selection

Sampling Location	Depth	Justification
GW1-4	Depth of water table	To investigate onsite groundwater for potential contamination and determine groundwater flow direction. Contaminants of concern include lead, VOCS, TRH, PAHs and BTEXN.

5.4 Sample Collection – Soil

Sampling locations were selected based on the following process:

- 1 Visual inspection for contamination during the site walkover;

The Killara Golf Club

Page 37 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



- 2 Sample collection was conducted on a judgemental sample regime (See Appendix A);
- 3 Soil samples within the site were recovered from each sample location using a drill rig for boreholes; and
- 4 Photo Ionisation Detector (PID) monitoring was not undertaken during this investigation as volatiles were not identified as contaminants of concern in soil.

Each soil sample was collected into a 250ml glass jar, then placed in a chilled container and forwarded to the laboratory for analysis under Chain of Custody (COC) procedures. A copy of our COC is located in Appendix B of this report.

5.5 Composite Sample Procedure

No composite samples were taken during this assessment.

5.6 Sample Collection – Water

Sampling locations were selected based on the following process:

- 5 Review of site history and anecdotal evidence indicating contaminated groundwater from a machinery workshop on an adjacent property and onsite fill;
- 6 Groundwater samples within the site were recovered from each sample location using Micropurge sampling equipment during low flow.
- 7 Once sample was been obtained, a multi probe was used to measure water quality with values recorded.
- 8 Photo Ionisation Detector (PID) monitoring was undertaken during this investigation with values recorded at each location.

Each water sample was collected into four (4) containers, a 1 litre amber bottle, 2 vials and a 125mL plastic container, then placed in a chilled container and forwarded to the laboratory for analysis under Chain of Custody (COC) procedures. A copy of our COC is located in Appendix B of this report.

No Surface Water was collected as part of this assessment.

5.7 Decontamination Procedure

The sampling and decontamination procedures adopted during the fieldwork for this assessment included hand tools decontaminated prior to use and in between samples to prevent cross contamination. Disposable gloves were used for the collection of soil samples directly from the auger

The Killara Golf Club

Page 38 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



flight. New tubing was used for each groundwater well sampling, with the pump rinsed with deionised water between wells.

The Killara Golf Club

Page 39 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



6 QUALITY ASSURANCE & QUALITY CONTROL PLAN

6.1 Data Quality Objectives

The purpose of establishing data quality objectives (DQOs) is to ensure the field investigations and analyses are undertaken in a way that enables the collection and reporting of reliable data on which to base the site validation. The DQOs and the procedures designed to achieve these objectives are listed below.

Table 14 – Data Quality Objectives

Process	Response
Step 1. Define the problem	The owner of the property is looking to subdivide the existing block and an environmental investigation has been requested to determine the vertical and lateral extent of contamination if present.
Step 2. Identify the goal of the study.	The objective of sampling was to determine if contamination exists, and if present determine the extent of the contamination. Assess the suitability of the site for the intended subdivision
Step 3. Identify information inputs	Data inputs for the project: Findings from desktop review. Results of soil and water sampling and analysis to be gained by the assessment process. Visual inspection to determine the depth of fill material.
Step 4. Define the boundaries of the Study	The area of the investigation is the portion of the lot proposed for rezoning (see Appendix A: Sampling Map). The vertical boundary of the assessment extends to a maximum depth of 9 metres or where natural materials were encountered. The sample medium comprises of soil within each of the boreholes and water in each well.
Step 5. Develop the analytical approach	A review of the previous site usage and site history review to identify the main contaminants of potential concern (see Section 2). Concentrations of potential contaminants will be compared to criteria set in Section 4.3 to assess the potential impact to soil and to assess the waste disposal requirements.
Step 6. Specify performance or acceptance criteria.	The guidelines, as listed in Section 4, to assess the contamination status of the soils within the area of investigation. That being Residential A – 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, preschools and primary

	schools
Step 7. Develop the Plan for obtaining data	Samples will be collected as per Section 5. A qualified environmental consultant undertook sampling with the rationale behind the selection of sample locations is provided in Table 12 and Table 13. Quality Assurance (QA) procedures was used as described in Section 6 and Quality Control (QC) samples collected to allow evaluation of DQI.

6.2 Data Quality Indicators and Data Evaluation

SESL has selected the following Data Quality Indicators (DQIs) to ensure that the data obtained from the assessment are of sufficient quality to be used to draw reliable and representative conclusion in an assessment of the environmental conditions of the investigation area.

6.2.1 Documentation and Data Completeness

The completeness of data is defined as the percentage of analytical results that are considered valid. Valid chemical data values that have been identified as acceptable or acceptable as qualified during the data validation process. The completeness is a comparison of the total number of samples accepted against the total number of samples, calculated as a percentage. The project goal for completeness is greater than 90%. QA/QC for completeness includes the following:

- All critical locations sampled;
- All required samples collected (i.e. surface and in depth samples);
- Sampling team are well informed, qualified and experienced;
- Correct and complete documentation;
- Appropriate analysis methods and PQLs;
- Compliance of sample holding times; and
- All data entries in the database are correct, properly entered, checked and that any typographical errors in the database are corrected and the data re-entered properly.

6.2.2 Data Comparability

6.2.3 Comparability expresses the confidence that the data may be considered to be equivalent for each sampling and analytical event and deemed suitable for comparison. In order to assess comparability, field procedures, laboratory sample preparation procedures, analytical procedures and reporting units must be known and similar to establish protocols (Standard Operating Procedures). Qualitatively, data subject to strict QA/QC procedures will be deemed more reliable, therefore more comparable, than other data.

SESL Environmental Scientists conducted this assessment.

The Killara Golf Club

Page 41 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



6.2.4 Data Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of parameter variations at sample points or environmental conditions and obtaining suitable samples from these sites.

Sample selection and analysis was conducted in order to meet the specific objectives of the particular phase of work. Analysis for the contaminants of concern will be selectively conducted on a soil as indicated in analytical summary tables.

6.2.5 Precision and Accuracy for Sampling and Analysis

Precision and accuracy for sampling and analysis expresses the quantitative measure of the variability and closeness of the data. This DQI is crucial to provide information to data users of the reliability, unreliability or qualitative value of the data representing each analyte in each environmental matrix. QA/QC includes:

- Correct and appropriate Standard Operating Procedures applied and complied with;
- Analysis of duplicates, triplicates, blanks, spikes and rinsates are satisfactory;
- Assessment of RFDs are satisfactory; and
- Independent review of QA/QC data satisfactory.

6.3 Field and Laboratory Quality Assurance Program

Quality Assurance (QA) and Quality Control (QC) practices were applied to all stages of data gathering and subsequent sample handling procedures. These are designed to provide control over both field and laboratory operations. Additionally, the analytical laboratories will complete their own internal QA procedures during the analysis of samples. Details of the QA/QC program are described below.

6.3.1 Quality Assurance

All fieldwork followed the SESL procedure to ensure that all environmental samples were collected by a set of uniform and systematic methods as required by the QA system.

The SESL field procedure describe the following:

- Decontamination procedures;
- Sample identification procedures;
- Information requirements for soil bore logs;
- Chain of custody information requirements;
- Sample duplicate frequency; and
- Field calibration requirements (if necessary).

6.3.2 Quality Control Results

The results of the field and laboratory quality control samples were assessed to determine:

- The quality of the data generated;
- If the data meets the objectives of the study; and
- If the data is acceptable for the intended use.

6.3.3 Field QC

The following data quality indicators were used for the investigation:

- All samples analysed were conducted using NATA registered methods in accordance with ANZECC (1996) and NEPC (1999) guidelines;
- Maximum acceptable sample holding times was 14 days for organic and 6 months for metal analyses. Mercury (Hg) to be analysed within 28 days of sample collection;
- Samples were appropriately preserved and handled;
- Laboratory method blank analyses were required to be below the limits of reporting PQL;
- All compound concentrations were (if required) spiked at similar concentration to sample results;
- All PQLs must be less than the assessment criteria;
- The relative percent difference of duplicates was determined and compared to the following criteria for acceptability. The acceptance criteria are:
 - Less than 50% for field duplicates;
 - Less than 30% for inter laboratory duplicates;
 - 30% for laboratory duplicates where the detection is less than 10 times the PQL; and
 - Less than 20% for laboratory duplicates where the detection is greater than 10 the PQL.
- RPDs for control spike duplicates to be compared to an acceptable limit of 20%;
- RPDs for Matrix Spike Duplicates to be compared to an acceptable limit of 20%; and
- Percent recoveries of control spikes and matrix spikes to be compared to an acceptable range of 70-130%. In addition, percent recoveries of surrogates were also compared to the USEPA surrogate recovery limits.

6.3.4 Laboratory Quality Control

Chemical analysis for soil samples to be undertaken by an environmental laboratory under COC procedures.

6.3.5 Laboratory Blanks

Laboratory or control blanks consist of reagents specific to each individual method and are prepared and analysed by laboratories in the same manner as regular samples. The preparation and analysis of laboratory blanks enable the measurement of contamination within the laboratory.

Ideally, no contamination should be present in blanks. However, in the event that contamination is detected, the following actions are taken:

- The organic test results are not to be corrected by subtracting any blank value;
- If any analyte is found in blank but not a sample, no action is taken;
- No absolute results are reported unless the analyte concentration within a sample exceeds 10 times the amount in any blank for common contaminants, or five times the amount for any other analyte; and
- Professional judgment is used where little or not contamination is present in the associated blanks, but contamination is suspected in actual samples.

Laboratory blanks are typically analysed at a frequency of 1 in 20, with a minimum of one analysed for each batch.

6.3.6 Laboratory Duplicates

Laboratory duplicate samples are prepared in the laboratory by splitting a field sample and analysing it as two independent samples. The analysis of laboratory duplicate samples provides an indication of analytical precision and may be influenced by sample heterogeneity. The laboratory duplicate RPDs are used to assess the laboratory precision.

6.4 Reporting

On completion of this investigation, the SESL Environmental Scientists have prepared this report summarising the works performed and assessed the results and findings in order to demonstrate compliance with the objectives of the DSI.

Table 15 provides a summary of the sampling regime for the DSI.

Table 15 – Summary of Sample Analysis

Sample Type and Analysis	Number of Samples	Number of Duplicate Samples

Soil Samples – Pesticides, Heavy Metals, PCBs, TRH, BTEXN, PAHs, asbestos and VOCs.	80	8
Water Samples – Lead, VOCS, TRH, PAHs and BTEXN.	4	-

The Killara Golf Club

Page 45 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



7 SUMMARY OF RESULTS

7.1 Site Stratigraphic Conditions

The site is a golf course with associated infrastructure such as a club house, carparks and greens. The area of investigation was limited to the area to be rezoned.

Field observations made during the PSI and intrusive sampling during the DSI indicated the presence of deep filling of variable depth across the site (See Appendix E for borelogs). Fill material was encountered at all sampling locations from beneath bitumen to 1.2m and a maximum of 7.7m. Beneath fill, natural light brown silty shale was observed. No investigations were conducted beyond the depth of natural materials.

7.2 Soil Analytical Results Summary

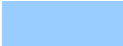
The analysis of the laboratory results indicated that contaminants of concern were elevated above the adopted Health Investigation Levels (residential A) in samples from a section of the investigation area.

Elevations of Carcinogenic Polycyclic Aromatic Hydrocarbons above the adopted threshold were observed at (2) locations towards the south eastern corner of the visitors carpark (BH 1, BH 16). Asbestos was identified at one location on site (BH 1), with fibre concentrations below the threshold value. A number of soil samples beneath the carpark had elevated concentrations of Polycyclic Aromatic Hydrocarbons, but were below the threshold value. One groundwater well had elevated Total Recoverable Hydrocarbon concentrations (MW2), but was below the threshold value, while another bore had elevated volatile concentrations (MW1).

SESL believes the fill in the region of BH 1 and BH 16 may be an isolated area of contamination. The elevated PAH concentrations 0.5m below the surface across all carpark locations may also be another area of isolated contamination. It is likely the elevated TRH concentrations in the groundwater well located in the visitors carpark (MW2) is due to known groundwater contamination by the upstream maintenance workshop. PID readings in the well headspace in the maintenance carpark (MW1) were elevated, though subsequent analytical results did not identify any issues. It is expected that elevated vapour moisture may be interfering with readings.

A summary of results compared to the assessment criteria can be seen in Appendix B accompanied by complete NATA laboratory certificates, chain of custody (CoC) documentation and sample receipt advice.

Table 16 – Soil Analytical Results Summary Compared Against Heath Investigation Levels and Screening Levels (Residential A)

 Exceeds adopted HIL

Chemical	HIL A	BH1 1	BH16 500
Carcinogenic PAH's (mg/kg)	3	6.5	5.1

7.3 QA/QC Results

Quality assurance / quality control (QA/QC) procedures conducted within this DSI included standard laboratory QA/QC procedures (see Section 7: Quality Assurance & Quality Control Plan). All laboratory replicate samples were found to be within acceptable levels.

One field QAQC sample was taken for every ten (10) samples collected. In total, 8 soil duplicate samples were collected during the DSI. The results of the QA/QC samples found that most analytes were within the acceptable range. In samples where some analytes were outside the acceptable range, all had low readings and therefore a large percentage difference. As the samples consist of heterogeneous fill material, variation is expected even within a single sample. Retesting of some samples confirmed this difference. Due to the low results and sample heterogeneity, no ongoing issue related to QAQC has been identified.

Based on the QA/QC results, the data is considered suitable for use in assessing the site. Results of QA/QC analysis can be seen in the NATA test certificates in Appendix B.

7.4 Calculation of 95% Upper Confidence Limit (UCL)

The 95% UCL demonstrates with 95% confidence that the average contaminant concentration of the soil represented by the data set is at or below the concentration stated.

EPA recommends a minimum of ten samples for 95% UCL calculation. For large soil volumes (i.e. >2,500m³) the minimum sampling rate should not be less than 1 sample per 250m³.

In accordance with Procedure D of the *NSW EPA Sampling Design Guidelines (1995)* each domain or stockpile should be categorized separately. Non-detect samples need to be included in calculations of 95% UCL. Non-detect values are substituted with a value of half of the detection limit of the laboratory apparatus.

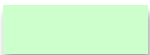
The 95% UCL can be calculated using the following formula:

$$\text{UCL average} = X + t_{\alpha, n-1} (s/\sqrt{n})$$

Where:

- UCL upper confidence limit of the arithmetic average concentration of the sampling are at the 1- α confidence level
- X arithmetic average of all samples
- $t_{\alpha, n-1}$ A test statistic (student's t at an α level of significance and n-1 degrees of freedom)
- s standard deviation of the sample measurements
- n number of sample measurements
- α the probability that the 'true' average concentration of the sampling area might exceed the UCL average determined by the above equation

Table 17 – 95% Upper Confidence Limit of the Average Contaminant Concentration Compared Against Health Investigation and Screening Levels (Residential A) for Hotspot area

 Exceeds HIL A

Chemical	HIL Criteria A	BH1 500	BH1 1	BH16 500	BH16 1	Mean	95% UCL
Carcinogenic PAHs (mg/kg)	3	0.1	6.5	5.1	0.5	3.05	3.12

The statistical analysis indicates that there is a 95% probability that the arithmetic average concentration of Carcinogenic PAHs in the top 1m of BH1 and BH16, the hotspot, exceeds HIL A. The 95% UCL of all other contaminants is within the threshold values. See Appendix B for all UCL calculations.

7.5 Site Characterisation

The subject site is the Killara Golf Club located at 556 Pacific Highway, Killara 2071 and is defined as Lot 2 DP 535219. The investigation area for this DSI is approximately 12,000 m². The site currently operates as a golf club with other recreational activities including tennis courts and bowling greens. The site has been historically cut and filled to varying depths across the site, predominately beneath the carparks, bowling greens and tennis courts.

Based on the site history review and the review of aerial photographs, it appears that the Site has historically been used as a golf course and has been filled to achieve the current landscape. This fill is of unknown origin. Onsite activities involved in course maintenance include pesticide and herbicide use. A service station adjacent to the site has historically had groundwater contamination issues. These activities potentially contribute to suspected onsite soil contamination. The investigation area has been limited to the area to be rezoned for residential.

Soil sampling procedures were devised to address variations in fill material within the investigation area. Sampling was undertaken on a judgmental basis based on topography and included near surface and subsurface sampling till natural materials were encountered at fourteen (14) locations across site. Groundwater well installation and sampling was undertaken judgmentally to characterize groundwater across the site and observe any influence from potential upstream contaminant sources.

Elevations above the adopted threshold (HIL - Residential A) were observed at a two (2) locations of the site indicating a potential hotspot (see Table 16).

7.6 Summary

The objective of this DSI report was to determine the extent of potential soil and groundwater contamination prior to the rezoning of the property located at 556 Pacific Highway, Killara NSW. Environmental scientists from SESL undertook the site works and soil sampling on Tuesday 23rd, Wednesday 24th and Thursday 25th February 2016. Groundwater sampling was undertaken on Thursday 17th March 2016.

A total of fourteen (14) boreholes were judgementally sampled across the site. Soil samples were collected throughout the soil profile, with samples taken at varying intervals till natural materials were encountered.

The Killara Golf Club

Page 50 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708	POST	LAB	ACT	VIC	QLD
T 1300 30 40 80	PO Box 357	16 Chilvers Rd	Level 5	Level 1	Level 10
F 1300 64 46 89	Pennant Hills	Thornleigh	7 London Cct	88 Mt Alexander Rd	15 Green Square Cl
E info@sesl.com.au	NSW 1715	NSW 2120	Canberra	Flemington	Fortitude Valley
W sesl.com.au			ACT 2601	VIC 3031	QLD 4006



The laboratory results were compared against the Health Investigation Levels (Residential HIL-A) for all sample locations across the area of investigation at the Site. Carcinogenic PAH's were found to be elevated above the adopted threshold at (2) locations. Asbestos was identified at one location on site (BH 1), with fibre concentrations below the threshold value. A number of soil samples beneath the carpark had elevated concentrations of Polycyclic Aromatic Hydrocarbons, but were below the threshold value. One groundwater well had elevated Total Recoverable Hydrocarbon concentrations (MW2), but was below the threshold value, while another bore had elevated volatile concentrations (MW 1).

The results of the soil sampling undertaken at the Site indicated that some contaminants of concern were found to exceed the adopted HIL A – Residential, with garden/accessible soil. SESL believes the fill in the region of BH 1 and BH 16 may be an isolated area of contamination. The elevated PAH concentrations 0.5m below the surface across all carpark locations may also be another area of isolated contamination, but as the UCL confirmed they do not exceed threshold values, no action is required. It is likely the elevated TRH concentrations in the groundwater well located in the visitors carpark (MW2) is due to known groundwater contamination by the upstream maintenance workshop. PID readings in the well headspace in the maintenance carpark (MW1) were elevated, though subsequent analytical results did not identify any issues. It is expected that elevated vapour moisture may be interfering with readings.

Based on the findings of this site investigation, SESL concludes that in consideration of the provisions of SEPP 55 Clause 6, the site does not meet the conditions of subclause 4, and is therefore not captured under Clause 6 and can be rezoned without further consideration of contamination. Prior to development for residential purposes being undertaken:

A remedial action plan must be developed for the minor hotspot in the south eastern corner of the visitors carpark, including appropriate validation processes to ensure that at completion of the remediation program that the site is suitable for rezoning. It is possible this remediation can be conducted during future development of the rezoned area, and SESL do not consider it necessary to have remediation completed prior to rezoning.

8 LIMITATIONS

This report only covers the site conditions at the time of inspection (23-25 February 2016). Should there be any variation in the site conditions beyond this date, such as imported fill, chemical spillage, illegal dumping, further assessment will be required.

This report is for the use of the Client and any relevant authorities that rely on the information for development applications and approval processes. Any reliance on this report by third parties shall be at such parties' sole risk. This report shall only be presented in full and may not be used to support any other objective other than those set out in the report.

SESL's assessment is necessarily based on the result of limited site investigations and upon the restricted program of visual assessment of the surface and consultation of available records. Neither SESL, nor any other reputable consultant, can provide unqualified warranties nor does SESL assume any liabilities for site conditions not observed, or accessible during the time of investigations.

No site investigations can be thorough enough to provide absolute confirmation of the presence or absence of substances, which may be considered contaminating, hazardous or polluting. Similarly, the level of testing undertaken cannot be considered to unequivocally characterise the degree or extent of contamination on site. In addition, regulatory or guideline criteria for the evaluation of environmental soil and groundwater quality are frequently being reviewed and concentrations of contaminants which are considered acceptable at present may in the future be considered to exceed acceptance criteria. Similar conditions may prevail in regard to site remediation standards as different regulatory mechanisms are developed and implemented.

COPYRIGHT: The concepts, information and design ideas contained in this document are the property of Sydney Environmental & Soil Laboratory Pty Ltd (ABN 70106 810 708). Use or copying of this document in whole or in part without the written permission of Sydney Environmental & Soil Laboratory constitutes an infringement of copyright.

The Killara Golf Club

Page 53 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



9 REFERENCES

ANZECC (1996) *Guidelines for the Laboratory Analysis of Contaminated Soils* – Australian and New Zealand Environment and Conservation Council

Australian Standard AS1726:1994 *Geotechnical Site Investigations*

Australian Standards AS4482.1:2005 *Guide to the Sampling and Investigation of Potentially Contaminated Soil (Part 1 & 2)*

enHealth 2012, Australian exposure factor guidance. Environmental Health Subcommittee (enHealth) of the Australian Health Protection Principal Committee, Canberra, Australia.

Hazelton, P.A, Bannerman, S. M. and Tille, P. J. (1989), *Soil Series Sheet 9030 – Penrith*. Soil Conservation Service of NSW, Sydney

National Environmental Protection (Assessment of Site Contamination) Measures, NEPC 1999;

National Environmental Protection (Assessment of Site Contamination) Amendment Measures, NEPC 2013;

NSW DEC (2006) *Contaminated Sites: Guidelines for the NSW Site Auditor Scheme*

NSW EPA (2014) Technical Note: Investigation for Service Station Sites

NSW EPA (2014) *Waste Classification Guidelines Part 1: Classifying Waste*

NSW EPA (1994) *Guidelines for Assessing Service Station Sites*

NSW EPA (1995) *Contaminated Sites: Sampling Design Guidelines*

NSW EPA (1999) *Contaminated Sites: Guidelines of Significant Risk of Harm from Contaminated Land and the Duty to Report*

Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2014;

NSW OEH (2011) *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites*

Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2014;

Soil Series No. 1, 2nd Edition, 1998 and 3rd Edition, (1999) Health-Based Soil Investigation Levels, National Environmental Health Forum monographs

WA DoH (2009) Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009)

The Killara Golf Club

Page 55 of 55

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Appendix A

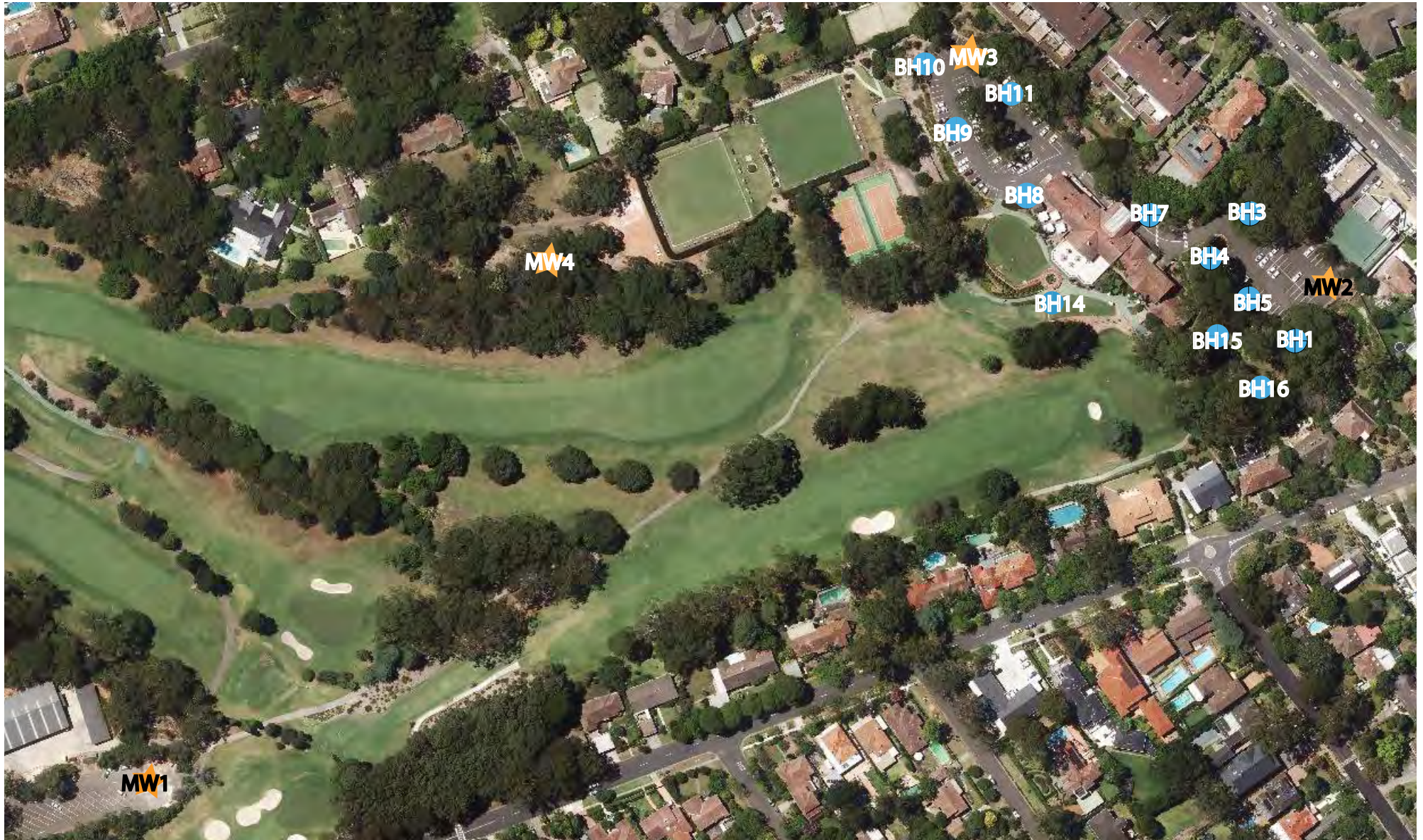
Sampling and Well Installation Locations



 Sampling Area  Intrusive Sampling Locations (boreholes)

 Groundwater Monitoring Well installation

Sampling Locations



Boreholes



Groundwater Wells

Appendix B

Analytical Results Compared Against Groundwater Investigation Levels and Health Screening Levels (Residential A)

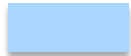
 Exceeds adopted HIL

Table 1. Groundwater Analytical Results Summary

Analyte Name	Units	Description	Maintenance Carpark	Visitors Carpark	Members Carpark	Tennis Courts
		Sample Name	MW1	MW2	MW3	MW4
		GILs for Freshwater/HSL	Result	Result	Result	Result
Dichlorodifluoromethane (CFC-12)	µg/L	N/A	<5	<5	<5	<5
Chloromethane	µg/L	N/A	<5	<5	<5	<5
Vinyl chloride (Chloroethene)	µg/L	N/A	<0.3	<0.3	<0.3	<0.3
Bromomethane	µg/L	N/A	<10	<10	<10	<10
Chloroethane	µg/L	6500	<5	<5	<5	<5
Trichlorofluoromethane	µg/L	N/A	<1	<1	<1	<1
Acetone (2-propanone)	µg/L	N/A	<10	<10	<10	<10

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Iodomethane	µg/L	N/A	<5	<5	<5	<5
1,1-dichloroethene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Acrylonitrile	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Dichloromethane (Methylene chloride)	µg/L	N/A	<5	<5	<5	<5
Allyl chloride	µg/L	N/A	<2	<2	<2	<2
Carbon disulfide	µg/L	N/A	<2	<2	<2	<2
trans-1,2-dichloroethene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
MtBE (Methyl-tert-butyl ether)	µg/L	N/A	<2	<2	<2	<2
1,1-dichloroethane	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Vinyl acetate	µg/L	N/A	<10	<10	<10	<10
MEK (2-butanone)	µg/L	N/A	<10	<10	<10	<10
cis-1,2-dichloroethene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Bromochloromethane	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Chloroform (THM)	µg/L	N/A	<0.5	7.1	<0.5	<0.5
2,2-dichloropropane	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	µg/L	6500	<0.5	<0.5	<0.5	<0.5
1,1-dichloropropene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	µg/L	N/A	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Benzene	µg/L	950	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Trichloroethene (Trichloroethylene,TCE)	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
2-nitropropane	µg/L	N/A	<100	<100	<100	<100
Bromodichloromethane (THM)	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
MIBK (4-methyl-2-pentanone)	µg/L	N/A	<5	<5	<5	<5
cis-1,3-dichloropropene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
trans-1,3-dichloropropene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	µg/L	6500	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane (THM)	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
2-hexanone (MBK)	µg/L	N/A	<5	<5	<5	<5
1,2-dibromoethane (EDB)	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,1,1,2-tetrachloroethane	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Ethylbenzene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Bromoform (THM)	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	200	<1	<1	<1	<1
cis-1,4-dichloro-2-butene	µg/L	N/A	<1	<1	<1	<1
Styrene (Vinyl benzene)	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,1,2,2-tetrachloroethane	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
o-xylene	µg/L	350	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	200	<1.5	<1.5	<1.5	<1.5
1,2,3-trichloropropane	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
trans-1,4-dichloro-2-butene	µg/L	N/A	<1	<1	<1	<1
Isopropylbenzene (Cumene)	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
Bromobenzene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
n-propylbenzene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
2-chlorotoluene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
4-chlorotoluene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,3,5-trimethylbenzene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
tert-butylbenzene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,2,4-trimethylbenzene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
sec-butylbenzene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,3-dichlorobenzene	µg/L	260	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	µg/L	60	<0.3	<0.3	<0.3	<0.3
p-isopropyltoluene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,2-dichlorobenzene	µg/L	160	<0.5	<0.5	<0.5	<0.5
n-butylbenzene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,2-dibromo-3-chloropropane	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	µg/L	85	<0.5	<0.5	<0.5	<0.5
Naphthalene	µg/L	16	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	µg/L	N/A	<0.5	<0.5	<0.5	<0.5
1,2,3-trichlorobenzene	µg/L	3	<0.5	<0.5	<0.5	<0.5
Total BTEX	µg/L	N/A	<3	<3	<3	<3
TRH C6-C9	µg/L	N/A	<40	<40	<40	<40
Benzene (F0)	µg/L	5000	<0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	N/A	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	6000	<50	<50	<50	<50
TRH C10-C14	µg/L	N/A	<50	<50	<50	<50
TRH C15-C28	µg/L	N/A	<200	740	<200	<200
TRH C29-C36	µg/L	N/A	<200	<200	<200	<200
TRH C37-C40	µg/L	N/A	<200	<200	<200	<200

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



TRH >C10-C16 (F2)	µg/L	N/A	<60	<60	<60	<60
TRH >C16-C34 (F3)	µg/L	N/A	<500	750	<500	<500
TRH >C34-C40 (F4)	µg/L	N/A	<500	<500	<500	<500
TRH C10-C36	µg/L	N/A	<450	740	<450	<450
TRH C10-C40	µg/L	N/A	<650	740	<650	<650
Naphthalene	µg/L	16	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Benzo(a)pyrene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	N/A	<0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	16	<1	<1	<1	<1
Photo Ionisation Detection	ppm	N/A	240	0	0	0
Standing Water Level	Metres	N/A	2.78	4.39	5.39	5.31
Dissolved Oxygen	ppm	N/A	2.22	N/A	0.47	0.37
Total Dissolved Solids	ppm	N/A	500	N/A	706	355
pH	units	N/A	5.27	N/A	5.18	5.75
Temperature	Degrees	N/A	22.9	N/A	24.1	15.6
Redox	mV	N/A	183	N/A	132	82

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Table 2. Soil Analytical Results Summary BH1

		Sample Name	BH1 500	BH1 1	BH1 2	BH1 3	BH1 4	BH1 5	BH1 6	BH1 7	BH1 7 (QA 7)	BH1 8
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

■ WATER
 ■ MINING
 ■ SPORTS & RECREATION
 ■ HORTICULTURE & AGRICULTURE
 ■ ENVIRONMENTAL
 ■ ENGINEERING & GEOTECH
 ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2- pentanone)	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3- dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2- tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2- tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2- butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	110	<45	<45	<45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45	<45	<45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	N/A	<90	130	<90	<90	<90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110	<110	<110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	<0.1	0.6	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	<0.1	9.6	1.6	0.1	<0.1	0.2	0.1	0.1	0.2	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



A member of the
Australasian Soil and
Plant Analysis Council

Anthracene	mg/kg	N/A	<0.1	2.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	<0.1	14	2.5	0.2	<0.1	0.4	0.3	0.3	0.4	0.2
Pyrene	mg/kg	N/A	<0.1	15	2.3	0.2	<0.1	0.5	0.4	0.4	0.4	0.2
Benzo(a)anthracene	mg/kg	N/A	<0.1	5.1	1.0	<0.1	<0.1	0.2	0.2	0.1	0.2	<0.1
Chrysene	mg/kg	N/A	<0.1	4.3	0.8	<0.1	<0.1	0.2	0.2	0.1	0.2	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	<0.1	4.6	0.9	<0.1	<0.1	0.2	0.2	0.2	0.2	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	<0.1	3.0	0.5	<0.1	<0.1	0.1	0.1	<0.1	0.1	<0.1
Benzo(a)pyrene	mg/kg	N/A	<0.1	4.4	0.8	<0.1	<0.1	0.2	0.2	0.2	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	<0.1	2.9	0.4	<0.1	<0.1	0.1	0.1	<0.1	0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	<0.1	2.4	0.4	<0.1	<0.1	0.1	0.1	<0.1	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	<0.2	6.5	1.1	<0.2	<0.2	0.3	0.3	0.2	0.2	<0.2
Total PAH (18)	mg/kg	300	<0.8	70	12	<0.8	<0.8	2.2	1.9	1.4	2.1	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	11	7	9	7	5	4	7	5	5	5
Cadmium, Cd	mg/kg	20	0.5	0.3	0.5	0.4	0.2	0.3	0.4	0.3	0.3	0.4
Chromium, Cr	mg/kg	100	11	8.5	15	18	17	11	11	12	13	13
Copper, Cu	mg/kg	6000	4.5	11	31	16	2.6	11	16	14	14	14

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Lead, Pb	mg/kg	300	16	16	58	38	12	29	43	35	35	24
Nickel, Ni	mg/kg	400	3.7	1.0	4.6	3.3	1.2	2.8	2.6	6.8	5.3	4.9
Zinc, Zn	mg/kg	7400	13	8	140	81	7	49	43	50	48	32
Mercury	mg/kg	40	<0.01	<0.01	0.05	0.02	<0.01	0.03	0.03	0.03	0.03	0.02
Asbestos Detected	No unit	N/A	No	No	Yes	Yes	No	No	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Table 3. Soil Analytical Results Summary BH2

		Sample Name	BH2 500	BH2 1	BH2 1 (QA1)	BH2 2	BH2 3	BH2 4
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1

 WATER
  MINING
  SPORTS & RECREATION
  HORTICULTURE & AGRICULTURE
  ENVIRONMENTAL
  ENGINEERING & GEOTECH
  URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	N/A	<5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene - TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25	<25	<25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Benzo(k)fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	5	5	5	4	5	3
Cadmium, Cd	mg/kg	20	0.2	0.2	0.2	0.2	0.2	0.2
Chromium, Cr	mg/kg	100	7.6	5.9	7.8	5.0	5.5	8.2
Copper, Cu	mg/kg	6000	7.2	8.2	8.3	13	9.9	8.6
Lead, Pb	mg/kg	300	13	11	14	10	31	13
Nickel, Ni	mg/kg	400	1.9	2.2	1.1	<0.5	<0.5	1.8
Zinc, Zn	mg/kg	7400	7	5	5	4	10	7
Mercury	mg/kg	40	<0.01	<0.01	<0.01	0.02	0.03	0.02
Asbestos Detected	No unit	N/A	No	No	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Table 4. Soil Analytical Results Summary BH3

		Sample Name	BH3 500	BH3 1	BH3 3
		Sample Date	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1

■ WATER
 ■ MINING
 ■ SPORTS & RECREATION
 ■ HORTICULTURE & AGRICULTURE
 ■ ENVIRONMENTAL
 ■ ENGINEERING & GEOTECH
 ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10
Iodomethane	mg/kg	N/A	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene - TCE)	mg/kg	0.02	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene, PCE)	mg/kg	2.0	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	<0.1	<0.1	<0.1
Anthracene	mg/kg	N/A	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1
Pyrene	mg/kg	N/A	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1
Chrysene	mg/kg	N/A	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Benzo(k)fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	N/A	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1
Mirex	mg/kg	10	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2
MCP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5
Clpyralid	mg/kg	N/A	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2
loxynil	mg/kg	N/A	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2
2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	42	10	4
Cadmium, Cd	mg/kg	20	0.2	0.4	0.4
Chromium, Cr	mg/kg	100	7.0	10	8.3
Copper, Cu	mg/kg	6000	2.5	6.5	18
Lead, Pb	mg/kg	300	18	18	11
Nickel, Ni	mg/kg	400	<0.5	<0.5	<0.5
Zinc, Zn	mg/kg	7400	4	6	4
Mercury	mg/kg	40	0.01	0.01	<0.01
Asbestos Detected	No unit	N/A	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Table 5. Soil Analytical Results Summary BH4

		Sample Name	BH4 500	BH4 1	BH4 2	BH4 3	BH4 4	BH4 5
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1

■ WATER
 ■ MINING
 ■ SPORTS & RECREATION
 ■ HORTICULTURE & AGRICULTURE
 ■ ENVIRONMENTAL
 ■ ENGINEERING & GEOTECH
 ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	N/A	<5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100	<100	<100

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	0.9	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	N/A	0.9	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	N/A	0.5	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Chrysene	mg/kg	N/A	0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	0.9	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	0.4	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	N/A	0.7	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	0.6	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	1.0	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	6.1	<0.8	<0.8	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	5	6	3	5	3	16
Cadmium, Cd	mg/kg	20	0.5	0.3	0.2	0.3	0.1	0.9
Chromium, Cr	mg/kg	100	23	7.3	7.6	5.9	6.8	12
Copper, Cu	mg/kg	6000	28	10	9.8	16	5.4	23
Lead, Pb	mg/kg	300	88	15	14	10	16	20
Nickel, Ni	mg/kg	400	20	1.7	2.9	1.4	<0.5	<0.5
Zinc, Zn	mg/kg	7400	140	9	10	13	3	8
Mercury	mg/kg	40	0.55	0.03	0.04	0.01	0.01	<0.01
Asbestos Detected	No unit	N/A	No	No	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Table 6. Soil Analytical Results Summary BH5

		Sample Name	BH5 500	BH5 1	BH5 2	BH5 3	BH 5 3 (QA3)	BH5 4
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10

■ WATER
 ■ MINING
 ■ SPORTS & RECREATION
 ■ HORTICULTURE & AGRICULTURE
 ■ ENVIRONMENTAL
 ■ ENGINEERING & GEOTECH
 ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Iodomethane	mg/kg	N/A	<5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2- pentanone)	mg/kg	N/A	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	57	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	86	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100	<100	<100

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	N/A	<90	130	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	140	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	<0.1	0.2	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	0.8	0.7	<0.1	0.1	0.2	0.2
Pyrene	mg/kg	N/A	0.6	0.6	<0.1	0.1	0.2	0.2
Benzo(a)anthracene	mg/kg	N/A	0.3	0.3	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Chrysene	mg/kg	N/A	0.2	0.2	<0.1	<0.1	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	0.3	0.3	<0.1	<0.1	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	0.2	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	N/A	0.2	0.2	<0.1	<0.1	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	0.2	0.2	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	0.2	0.2	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	0.3	0.3	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	2.9	2.8	<0.8	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichloroprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	16	3	7	6	5	6
Cadmium, Cd	mg/kg	20	0.3	0.3	0.4	0.3	0.2	0.3
Chromium, Cr	mg/kg	100	11	6.9	10	7.2	8.3	8.7
Copper, Cu	mg/kg	6000	11	13	12	21	18	15
Lead, Pb	mg/kg	300	20	22	35	33	23	32
Nickel, Ni	mg/kg	400	2.6	1.1	1.1	0.9	<0.5	2.5
Zinc, Zn	mg/kg	7400	8	8	40	32	26	37
Mercury	mg/kg	40	0.02	0.02	0.02	4.0	0.14	0.76
Asbestos Detected	No unit	N/A	No	No	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Table 7. Soil Analytical Results Summary BH6

		Sample Name	BH6 500	BH6 1	BH6 2	BH6 2 (QA2)	BH6 3	BH6 5
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10

■ WATER
 ■ MINING
 ■ SPORTS & RECREATION
 ■ HORTICULTURE & AGRICULTURE
 ■ ENVIRONMENTAL
 ■ ENGINEERING & GEOTECH
 ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Iodomethane	mg/kg	N/A	<5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2- pentanone)	mg/kg	N/A	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100	<100	<100

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	0.6	0.2	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	N/A	0.9	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	N/A	0.4	0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Chrysene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	N/A	0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	3.1	<0.8	<0.8	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	5	4	1	6	2	8
Cadmium, Cd	mg/kg	20	0.4	0.5	0.2	0.3	0.5	0.4
Chromium, Cr	mg/kg	100	22	12	5.0	6.5	8.5	9.2
Copper, Cu	mg/kg	6000	15	41	42	54	53	37
Lead, Pb	mg/kg	300	82	42	20	23	20	19
Nickel, Ni	mg/kg	400	17	5.9	5.2	11	8.6	14
Zinc, Zn	mg/kg	7400	54	41	34	56	45	66
Mercury	mg/kg	40	0.04	<0.01	<0.01	<0.01	0.01	0.05
Asbestos Detected	No unit	N/A	No	No	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Table 8. Soil Analytical Results Summary BH7

		Sample Name	BH7 500	BH7 1	BH7 2
		Sample Date	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1
Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Iodomethane	mg/kg	N/A	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.02	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	<0.1	<0.1	<0.1
Anthracene	mg/kg	N/A	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1
Pyrene	mg/kg	N/A	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1
Chrysene	mg/kg	N/A	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	N/A	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Dibenzo(a&h)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Dieldrin	mg/kg	6	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1
Mirex	mg/kg	10	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2
MCPD (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



MCPA	mg/kg	600	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5
Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2
Ioxynil	mg/kg	N/A	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2
2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	4	3	3

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Cadmium, Cd	mg/kg	20	<0.1	0.4	0.2
Chromium, Cr	mg/kg	100	4.4	6.0	5.5
Copper, Cu	mg/kg	6000	3.1	9.2	15
Lead, Pb	mg/kg	300	15	14	20
Nickel, Ni	mg/kg	400	<0.5	<0.5	<0.5
Zinc, Zn	mg/kg	7400	3	3	4
Mercury	mg/kg	40	<0.01	<0.01	<0.01
Asbestos Detected	No unit	N/A	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Table 9. Soil Analytical Results Summary BH8

			Sample Name	BH8 500	BH8 1	BH8 2	BH8 2.5	BH8 2.5 (QA8)	BH8 3	BH8 4
			Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1

■ WATER
 ■ MINING
 ■ SPORTS & RECREATION
 ■ HORTICULTURE & AGRICULTURE
 ■ ENVIRONMENTAL
 ■ ENGINEERING & GEOTECH
 ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	N/A	<5	<5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2- pentanone)	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3- dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5	<5	<5	<5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25	<25	<25	<25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	57	<45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Phenanthrene	mg/kg	N/A	4.3	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	N/A	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	6.9	<0.1	0.2	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	N/A	5.4	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	N/A	1.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	N/A	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	2.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	N/A	1.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	1.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	2.7	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	29	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



(Guthion)									
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	4	4	4	5	7	7	2
Cadmium, Cd	mg/kg	20	0.3	0.3	0.3	0.4	0.4	0.4	0.4
Chromium, Cr	mg/kg	100	15	7.3	8.7	18	24	17	7.3

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Copper, Cu	mg/kg	6000	11	21	7.4	11	12	16	35
Lead, Pb	mg/kg	300	15	23	15	180	170	26	23
Nickel, Ni	mg/kg	400	16	3.4	0.7	3.2	4.1	1.6	0.8
Zinc, Zn	mg/kg	7400	18	24	9	100	100	17	11
Mercury	mg/kg	40	0.02	0.04	<0.01	0.04	0.08	<0.01	0.01
Asbestos Detected	No unit	N/A	No	No	No	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Table 10. Soil Analytical Results Summary BH9

		Sample Name	BH9 500	BH9 1	BH9 2	BH9 2 (QA4)	BH9 4
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1	<1

■ WATER
 ■ MINING
 ■ SPORTS & RECREATION
 ■ HORTICULTURE & AGRICULTURE
 ■ ENVIRONMENTAL
 ■ ENGINEERING & GEOTECH
 ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10	<10
Iodomethane	mg/kg	N/A	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene - TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene, PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25	<25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	0.3	0.2	<0.1	<0.1	<0.1
Pyrene	mg/kg	N/A	0.3	0.2	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Benzo(a)pyrene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	0.3	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	2.1	<0.8	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Total PCBs (Aroclors)	mg/kg	1	<1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
loxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	6	6	5	4	3
Cadmium, Cd	mg/kg	20	0.3	0.2	0.1	0.1	0.2
Chromium, Cr	mg/kg	100	39	7.6	6.8	6.4	7.2
Copper, Cu	mg/kg	6000	15	4.0	11	14	6.6
Lead, Pb	mg/kg	300	22	13	11	10	16
Nickel, Ni	mg/kg	400	25	1.4	1.1	<0.5	<0.5
Zinc, Zn	mg/kg	7400	22	4	3	5	3
Mercury	mg/kg	40	0.02	0.01	<0.01	0.01	<0.01
Asbestos Detected	No unit	N/A	No	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Table 11. Soil Analytical Results Summary BH10

		Sample Name	BH10 500	BH10 1	BH10 2	BH10 3	BH10 4
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1	<1

■ WATER
 ■ MINING
 ■ SPORTS & RECREATION
 ■ HORTICULTURE & AGRICULTURE
 ■ ENVIRONMENTAL
 ■ ENGINEERING & GEOTECH
 ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10	<10
Iodomethane	mg/kg	N/A	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene - TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene, PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25	<25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	2.4	<0.1	<0.1	0.1	<0.1
Anthracene	mg/kg	N/A	0.5	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	2.7	0.1	0.1	0.3	<0.1
Pyrene	mg/kg	N/A	2.2	0.1	0.1	0.3	<0.1
Benzo(a)anthracene	mg/kg	N/A	0.8	<0.1	<0.1	0.1	<0.1
Chrysene	mg/kg	N/A	0.6	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	0.7	<0.1	<0.1	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	0.4	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Benzo(a)pyrene	mg/kg	N/A	0.7	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	0.4	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	0.3	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	1.0	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	12	<0.8	<0.8	0.9	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
loxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	1	3	3	7	6
Cadmium, Cd	mg/kg	20	0.2	<0.1	0.2	0.4	0.3
Chromium, Cr	mg/kg	100	6.1	4.6	9.1	14	6.8
Copper, Cu	mg/kg	6000	5.5	7.4	29	18	43
Lead, Pb	mg/kg	300	12	180	260	31	19
Nickel, Ni	mg/kg	400	1.0	<0.5	4.0	2.2	3.8
Zinc, Zn	mg/kg	7400	9	33	120	16	40
Mercury	mg/kg	40	0.01	0.01	0.08	0.01	<0.01
Asbestos Detected	No unit	N/A	No	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Table 12. Soil Analytical Results Summary BH11

		Sample Name	BH11 500	BH11 1	BH11 2	BH11 3
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10
Iodomethane	mg/kg	N/A	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene - TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	0.4	<0.1	<0.1	<0.1
Pyrene	mg/kg	N/A	0.4	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1
Chrysene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Benzo(a)pyrene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	0.2	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	0.3	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	2.1	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
loxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	4	5	5	1
Cadmium, Cd	mg/kg	20	0.3	0.4	0.5	0.4
Chromium, Cr	mg/kg	100	17	14	9.4	5.6
Copper, Cu	mg/kg	6000	42	23	47	44
Lead, Pb	mg/kg	300	220	18	23	22
Nickel, Ni	mg/kg	400	9.3	0.7	4.1	17
Zinc, Zn	mg/kg	7400	110	7	47	65
Mercury	mg/kg	40	0.32	0.01	<0.01	0.03
Asbestos Detected	No unit	N/A	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Table 13. Soil Analytical Results Summary BH14

		Sample Name	BH14 500	BH14 1	BH14 2	BH14 3	BH14 4	BH14 5	BH 14 5 (QA5)
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1

 WATER
  MINING
  SPORTS & RECREATION
  HORTICULTURE & AGRICULTURE
  ENVIRONMENTAL
  ENGINEERING & GEOTECH
  URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	N/A	<5	<5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2- pentanone)	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3- dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5	<5	<5	<5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25	<25	<25	<25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	<45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	1	2	6	1	3	9	8
Cadmium, Cd	mg/kg	20	0.2	0.2	0.4	0.2	0.3	0.3	0.3
Chromium, Cr	mg/kg	100	3.7	4.2	18	4.2	7.1	6.4	6.6
Copper, Cu	mg/kg	6000	4.1	9.8	8.5	16	36	26	26

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Lead, Pb	mg/kg	300	12	14	24	24	18	18	18
Nickel, Ni	mg/kg	400	2.8	0.8	1.7	<0.5	4.4	1.1	1.8
Zinc, Zn	mg/kg	7400	17	10	12	3	25	11	14
Mercury	mg/kg	40	0.06	0.03	0.01	<0.01	<0.01	<0.01	<0.01
Asbestos Detected	No unit	N/A	No	No	No	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Table 14. Soil Analytical Results Summary BH15

		Sample Name	BH15 Surface	BH15 500	BH15 1	BH15 3	BH15 4	BH15 5
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1

 WATER
  MINING
  SPORTS & RECREATION
  HORTICULTURE & AGRICULTURE
  ENVIRONMENTAL
  ENGINEERING & GEOTECH
  URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	N/A	<5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25	<25	<25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Benzo(b&j)fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
loxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	22	5	2	6	4	10
Cadmium, Cd	mg/kg	20	0.4	0.2	0.1	0.4	0.3	0.3
Chromium, Cr	mg/kg	100	10	6.8	4.0	18	7.7	7.5
Copper, Cu	mg/kg	6000	17	10	4.9	17	38	51
Lead, Pb	mg/kg	300	140	16	10	30	26	21
Nickel, Ni	mg/kg	400	2.3	<0.5	<0.5	0.6	1.1	13
Zinc, Zn	mg/kg	7400	48	5	<2	6	16	70
Mercury	mg/kg	40	2.0	0.12	<0.01	0.02	<0.01	0.01
Asbestos Detected	No unit	N/A	No	No	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Table 15. Soil Analytical Results Summary BH16

			Sample Name	BH16 500	BH16 1	BH16 2	BH16 2 (QA6)	BH16 3	BH16 4	BH16 6
			Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result	Result	Result	Result
Benzene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	390.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	95.0	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	N/A	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1	<1

■ WATER
 ■ MINING
 ■ SPORTS & RECREATION
 ■ HORTICULTURE & AGRICULTURE
 ■ ENVIRONMENTAL
 ■ ENGINEERING & GEOTECH
 ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



A member of the
 Australasian Soil and
 Plant Analysis Council

Acetone (2-propanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	N/A	<5	<5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1,1-trichloroethane	mg/kg	60.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	N/A	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	N/A	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1,1,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	N/A	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,4-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC	mg/kg	N/A	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
TRH C6-C9	mg/kg	N/A	<20	<20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	N/A	<25	<25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	40	<25	<25	<25	<25	<25	<25	<25
TRH C10-C14	mg/kg	N/A	<20	<20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	N/A	<45	<45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	N/A	<45	<45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	N/A	<100	<100	<100	<100	<100	<100	<100

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



TRH >C10-C16 (F2)	mg/kg	230	<25	<25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	<25	<25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	N/A	<90	<90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	N/A	<120	<120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	N/A	<110	<110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	N/A	<210	<210	<210	<210	<210	<210	<210
Naphthalene	mg/kg	4.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	N/A	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	N/A	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	N/A	3.4	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	N/A	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	N/A	7.2	0.6	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	N/A	8.3	0.7	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	N/A	3.7	0.3	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Chrysene	mg/kg	N/A	3.3	0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	N/A	3.3	0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	N/A	1.9	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	N/A	3.6	0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	1.8	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	N/A	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	N/A	1.7	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	5.1	0.5	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	300	40	3.3	<0.8	<0.8	<0.8	<0.8	<0.8
Hexachlorobenzene (HCB)	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



o,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	270	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	240	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	270	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Mirex	mg/kg	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1016	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Arochlor 1254	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
Dicamba	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	900	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	600	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxynil	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Clopyralid	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	N/A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	4500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As	mg/kg	100	6	3	6	5	3	4	5
Cadmium, Cd	mg/kg	20	0.6	0.2	0.2	0.2	0.3	0.4	0.4
Chromium, Cr	mg/kg	100	18	4.5	7.7	9.0	6.0	9.0	17
Copper, Cu	mg/kg	6000	15	11	3.3	4.0	10	14	12
Lead, Pb	mg/kg	300	74	13	20	15	9	12	22
Nickel, Ni	mg/kg	400	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	2.6
Zinc, Zn	mg/kg	7400	44	8	5	6	3	6	18
Mercury	mg/kg	40	0.34	0.03	0.01	0.01	0.02	0.01	0.03
Asbestos Detected	No unit	N/A	No	No	No	No	No	No	No
Estimated Fibres	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



95% Upper Confidence Limit of the Average Contaminant Concentration Compared Against Health Investigation and Screening Levels A

Table 1 – UCL Top 500mm of Visitors Carpark

Analyte Name	Units	Sample Name	BH1 500	BH2 500	BH3 500	BH4 500	BH5 500	BH15 Surface	BH15 500	BH16 500	95% UCL
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	
		HIL A/HSL	Result	Result	Result	Result	Result	Result	Result	Result	
Benzene	mg/kg	0.6	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Toluene	mg/kg	390.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Ethylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total Xylenes	mg/kg	95.0	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Total BTEX	mg/kg	N/A	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.30
Naphthalene	mg/kg	4.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
Chloromethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
Vinyl chloride	mg/kg	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



(Chloroethene)											
Bromomethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
Chloroethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
Trichlorofluoromethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
Acetone (2-propanone)	mg/kg	N/A	5	5	5	5	5	5	5	5	5.00
Iodomethane	mg/kg	N/A	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.50
1,1-dichloroethene	mg/kg	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Acrylonitrile	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Allyl chloride	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Carbon disulfide	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
trans-1,2-dichloroethene	mg/kg	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,1-dichloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Vinyl acetate	mg/kg	N/A	5	5	5	5	5	5	5	5	5.00
MEK (2-butanone)	mg/kg	N/A	5	5	5	5	5	5	5	5	5.00

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



cis-1,2-dichloroethene	mg/kg	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Bromochloromethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Chloroform	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
2,2-dichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,2-dichloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,1,1-trichloroethane	mg/kg	60.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,1-dichloropropene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Carbon tetrachloride	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Dibromomethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,2-dichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
2-nitropropane	mg/kg	N/A	5	5	5	5	5	5	5	5	5.00
Bromodichloromethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
cis-1,3-dichloropropene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
trans-1,3-dichloropropene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,1,2-trichloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,3-dichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Chlorodibromomethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
2-hexanone (MBK)	mg/kg	N/A	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.50
1,2-dibromoethane (EDB)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,1,1,2-tetrachloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Chlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Bromoform	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
cis-1,4-dichloro-2-butene	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
Styrene (Vinyl benzene)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,1,2,2-tetrachloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,2,3-trichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
trans-1,4-dichloro-2-butene	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
Isopropylbenzene (Cumene)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Bromobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
n-propylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
2-chlorotoluene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
4-chlorotoluene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,3,5-trimethylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
tert-butylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,2,4-trimethylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
sec-butylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,3-dichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,4-dichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
p-isopropyltoluene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,2-dichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
n-butylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,2-dibromo-3-chloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1,2,4-trichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Hexachlorobutadiene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,2,3-trichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Total VOC	mg/kg	N/A	0.0	0	0	0	0	0	0	0	0.00
TRH C6-C9	mg/kg	N/A	10	10	10	10	10	10	10	10	10.00
Benzene (F0)	mg/kg	0.6	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
TRH C6-C10	mg/kg	N/A	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.50
TRH C6-C10 minus BTEX (F1)	mg/kg	40	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.50
TRH C10-C14	mg/kg	N/A	10	10	10	10	10	10	10	10	10.00
TRH C15-C28	mg/kg	N/A	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.50
TRH C29-C36	mg/kg	N/A	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.50
TRH C37-C40	mg/kg	N/A	50	50	50	50	50	50	50	50	50.00
TRH >C10-C16 (F2)	mg/kg	230	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.50
TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.50
TRH >C16-C34 (F3)	mg/kg	N/A	45	45	45	45	45	45	45	45	45.00
TRH >C34-C40 (F4)	mg/kg	N/A	60	60	60	60	60	60	60	60	60.00
TRH C10-C36 Total	mg/kg	N/A	55	55	55	55	55	55	55	55	55.00
TRH C10-C40 Total	mg/kg	N/A	105	105	105	105	105	105	105	105	105.00

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Naphthalene	mg/kg	4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
2-methylnaphthalene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
1-methylnaphthalene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Acenaphthylene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.4	0.09
Acenaphthene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Fluorene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Phenanthrene	mg/kg	N/A	0.05	0.05	0.05	0.3	0.05	0.05	0.05	3.4	0.50
Anthracene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.8	0.14
Fluoranthene	mg/kg	N/A	0.05	0.05	0.05	0.9	0.8	0.05	0.05	7.2	1.14
Pyrene	mg/kg	N/A	0.05	0.05	0.05	0.9	0.6	0.05	0.05	8.3	1.26
Benzo(a)anthracene	mg/kg	N/A	0.05	0.05	0.05	0.5	0.3	0.05	0.05	3.7	0.59
Chrysene	mg/kg	N/A	0.05	0.05	0.05	0.5	0.2	0.05	0.05	3.3	0.53
Benzo(b&j)fluoranthene	mg/kg	N/A	0.05	0.05	0.05	0.9	0.3	0.05	0.05	3.3	0.59
Benzo(k)fluoranthene	mg/kg	N/A	0.05	0.05	0.05	0.4	0.2	0.05	0.05	1.9	0.34
Benzo(a)pyrene	mg/kg	N/A	0.05	0.05	0.05	0.7	0.2	0.05	0.05	3.6	0.59
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	0.05	0.05	0.05	0.6	0.2	0.05	0.05	1.8	0.36
Dibenzo(a&h)anthracene	mg/kg	N/A	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.4	0.10

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Benzo(ghi)perylene	mg/kg	N/A	0.05	0.05	0.05	0.5	0.2	0.05	0.05	1.7	0.33
Carcinogenic PAHs, BaP											
TEQ <LOR=LOR/2	TEQ (mg/kg)	3	0.1	0.1	0.1	1.0	0.3	0.1	0.1	5.1	0.86
Total PAH (18)	mg/kg	300	0.4	0.4	0.4	6.1	2.9	0.4	0.4	40	6.38
Hexachlorobenzene (HCB)	mg/kg	10	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Alpha BHC	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Lindane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Heptachlor	mg/kg	6	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Aldrin	mg/kg	6	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Beta BHC	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Delta BHC	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Heptachlor epoxide	mg/kg	6	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
o,p'-DDE	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Alpha Endosulfan	mg/kg	270	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Gamma Chlordane	mg/kg	50	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Alpha Chlordane	mg/kg	50	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
trans-Nonachlor	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



A member of the
Australasian Soil and
Plant Analysis Council

p,p'-DDE	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Dieldrin	mg/kg	6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Endrin	mg/kg	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
o,p'-DDD	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
o,p'-DDT	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Beta Endosulfan	mg/kg	270	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
p,p'-DDD	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
p,p'-DDT	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Endosulfan sulphate	mg/kg	270	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Endrin Aldehyde	mg/kg	10	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Methoxychlor	mg/kg	300	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Endrin Ketone	mg/kg	10	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Isodrin	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Mirex	mg/kg	10	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Dichlorvos	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Dimethoate	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Diazinon (Dimpylate)	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



A member of the
 Australasian Soil and
 Plant Analysis Council

Fenitrothion	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Malathion	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Parathion-ethyl (Parathion)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Bromophos Ethyl	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Methidathion	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Ethion	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Azinphos-methyl (Guthion)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1016	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1221	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1232	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1242	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1248	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1254	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1260	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Arochlor 1262	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1268	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Total PCBs (Arochors)	mg/kg	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.50
Dicamba	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
MCPP (Mecoprop)	mg/kg	600	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
MCPA	mg/kg	600	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Dichlorprop (2,4-DP)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
2,4-D	mg/kg	900	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
2,4,5-T	mg/kg	600	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Dinoseb	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
2,6-D	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Bromoxynil	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Clopyralid	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Fluroxypyr	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Ioxynil	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
MCPB	mg/kg	600	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Triclopyr	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
2,4-DB	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.10
Picloram	mg/kg	4500	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Arsenic, As	mg/kg	100	11	5	42	5	16	22	5	6	14.00
Cadmium, Cd	mg/kg	20	0.5	0.2	0.2	0.5	0.3	0.4	0.2	0.6	0.36
Chromium, Cr	mg/kg	100	11	7.6	7.0	23	11	10	6.8	18	11.80
Copper, Cu	mg/kg	6000	4.5	7.2	2.5	28	11	17	10	15	11.90
Lead, Pb	mg/kg	300	16	13	18	88	20	140	16	74	48.13
Nickel, Ni	mg/kg	400	3.7	1.9	0.25	20	2.6	2.3	0.25	2.7	4.21
Zinc, Zn	mg/kg	7400	13	7	4	140	8	48	5	44	33.63
Mercury	mg/kg	40	0.005	0.005	0.01	0.55	0.02	2.0	0.12	0.34	0.38
Estimated Fibres	%w/w	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Table 2 – UCL Top 500mm of Members Carpark

		Sample Name	BH6 500	BH8 500	BH9 500	BH10 500	BH11 500	
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016	
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	Result	95% UCL
Benzene	mg/kg	0.6	0.05	0.05	0.05	0.05	0.05	0.05
Toluene	mg/kg	390.0	0.05	0.05	0.05	0.05	0.05	0.05
Ethylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Total Xylenes	mg/kg	95.0	0.15	0.15	0.15	0.15	0.15	0.15
Total BTEX	mg/kg	N/A	0.3	0.3	0.3	0.3	0.3	0.30
Naphthalene	mg/kg	4.0	0.05	0.05	0.05	0.05	0.05	0.05
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.50
Chloromethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.50
Vinyl chloride (Chloroethene)	mg/kg	0.03	0.05	0.05	0.05	0.05	0.05	0.05
Bromomethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.50
Chloroethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.50
Trichlorofluoromethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.50

■ WATER
 ■ MINING
 ■ SPORTS & RECREATION
 ■ HORTICULTURE & AGRICULTURE
 ■ ENVIRONMENTAL
 ■ ENGINEERING & GEOTECH
 ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Acetone (2-propanone)	mg/kg	N/A	5	5	5	5	5	5.00
Iodomethane	mg/kg	N/A	2.5	2.5	2.5	2.5	2.5	2.50
1,1-dichloroethene	mg/kg	0.08	0.05	0.05	0.05	0.05	0.05	0.05
Acrylonitrile	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Dichloromethane (Methylene chloride)	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25
Allyl chloride	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Carbon disulfide	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25
trans-1,2-dichloroethene	mg/kg	0.08	0.05	0.05	0.05	0.05	0.05	0.05
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,1-dichloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Vinyl acetate	mg/kg	N/A	5	5	5	5	5	5.00
MEK (2-butanone)	mg/kg	N/A	5	5	5	5	5	5.00
cis-1,2-dichloroethene	mg/kg	0.08	0.05	0.05	0.05	0.05	0.05	0.05
Bromochloromethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Chloroform	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
2,2-dichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,2-dichloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,1,1-trichloroethane	mg/kg	60.0	0.05	0.05	0.05	0.05	0.05	0.05
1,1-dichloropropene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Carbon tetrachloride	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Dibromomethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,2-dichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.02	0.05	0.05	0.05	0.05	0.05	0.05
2-nitropropane	mg/kg	N/A	5	5	5	5	5	5.00
Bromodichloromethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.50
cis-1,3-dichloropropene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
trans-1,3-dichloropropene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,1,2-trichloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,3-dichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Chlorodibromomethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
2-hexanone (MBK)	mg/kg	N/A	2.5	2.5	2.5	2.5	2.5	2.50
1,2-dibromoethane (EDB)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	0.05	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,1,1,2-tetrachloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Chlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Bromoform	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
cis-1,4-dichloro-2-butene	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.50
Styrene (Vinyl benzene)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,1,2,2-tetrachloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,2,3-trichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
trans-1,4-dichloro-2-butene	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	0.50
Isopropylbenzene (Cumene)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Bromobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
n-propylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
2-chlorotoluene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
4-chlorotoluene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,3,5-trimethylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
tert-butylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,2,4-trimethylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
sec-butylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,3-dichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,4-dichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
p-isopropyltoluene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,2-dichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
n-butylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,2-dibromo-3-chloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,2,4-trichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Hexachlorobutadiene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
1,2,3-trichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Total VOC	mg/kg	N/A	0	0	0	0	0	0.00
TRH C6-C9	mg/kg	N/A	10	10	10	10	10	10.00
Benzene (F0)	mg/kg	0.6	0.05	0.05	0.05	0.05	0.05	0.05
TRH C6-C10	mg/kg	N/A	12.5	12.5	12.5	12.5	12.5	12.50
TRH C6-C10 minus BTEX (F1)	mg/kg	40	12.5	12.5	12.5	12.5	12.5	12.50
TRH C10-C14	mg/kg	N/A	10	10	10	10	10	10.00
TRH C15-C28	mg/kg	N/A	22.5	22.5	22.5	22.5	22.5	22.50
TRH C29-C36	mg/kg	N/A	22.5	22.5	22.5	22.5	22.5	22.50
TRH C37-C40	mg/kg	N/A	50	50	50	50	50	50.00
TRH >C10-C16 (F2)	mg/kg	230	12.5	12.5	12.5	12.5	12.5	12.50

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	12.5	12.5	12.5	12.5	12.5	12.50
TRH >C16-C34 (F3)	mg/kg	N/A	45	45	45	45	45	45.00
TRH >C34-C40 (F4)	mg/kg	N/A	60	60	60	60	60	60.00
TRH C10-C36 Total	mg/kg	N/A	55	55	55	55	55	55.00
TRH C10-C40 Total	mg/kg	N/A	105	105	105	105	105	105.00
Naphthalene	mg/kg	4.0	0.05	0.05	0.05	0.05	0.05	0.05
2-methylnaphthalene	mg/kg	N/A	0.05	0.1	0.05	0.05	0.05	0.06
1-methylnaphthalene	mg/kg	N/A	0.05	0.1	0.05	0.05	0.05	0.06
Acenaphthylene	mg/kg	N/A	0.05	0.4	0.05	0.2	0.05	0.15
Acenaphthene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Fluorene	mg/kg	N/A	0.05	0.1	0.05	0.2	0.05	0.09
Phenanthrene	mg/kg	N/A	0.2	4.3	0.2	2.4	0.05	1.47
Anthracene	mg/kg	N/A	0.05	0.6	0.05	0.5	0.05	0.26
Fluoranthene	mg/kg	N/A	0.6	6.9	0.3	2.7	0.4	2.24
Pyrene	mg/kg	N/A	0.9	5.4	0.3	2.2	0.4	1.89
Benzo(a)anthracene	mg/kg	N/A	0.4	1.6	0.2	0.8	0.2	0.65
Chrysene	mg/kg	N/A	0.2	1.5	0.1	0.6	0.1	0.51

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Benzo(b&j)fluoranthene	mg/kg	N/A	0.3	2.2	0.2	0.7	0.2	0.74
Benzo(k)fluoranthene	mg/kg	N/A	0.2	1.0	0.1	0.4	0.1	0.37
Benzo(a)pyrene	mg/kg	N/A	0.3	1.9	0.2	0.7	0.2	0.68
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	0.1	1.3	0.2	0.4	0.2	0.45
Dibenzo(a&h)anthracene	mg/kg	N/A	0.05	0.2	0.05	0.05	0.05	0.08
Benzo(ghi)perylene	mg/kg	N/A	0.1	1.0	0.2	0.3	0.2	0.37
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	0.4	2.7	0.3	1.0	0.3	0.96
Total PAH (18)	mg/kg	300	3.1	29	2.1	12	2.1	9.92
Hexachlorobenzene (HCB)	mg/kg	10	0.05	0.05	0.05	0.05	0.05	0.05
Alpha BHC	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Lindane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Heptachlor	mg/kg	6	0.05	0.05	0.05	0.05	0.05	0.05
Aldrin	mg/kg	6	0.05	0.05	0.05	0.05	0.05	0.05
Beta BHC	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Delta BHC	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Heptachlor epoxide	mg/kg	6	0.05	0.05	0.05	0.05	0.05	0.05
o,p'-DDE	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Alpha Endosulfan	mg/kg	270	0.1	0.1	0.1	0.1	0.1	0.10
Gamma Chlordane	mg/kg	50	0.05	0.05	0.05	0.05	0.05	0.05
Alpha Chlordane	mg/kg	50	0.05	0.05	0.05	0.05	0.05	0.05
trans-Nonachlor	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
p,p'-DDE	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05
Dieldrin	mg/kg	6	0.1	0.1	0.1	0.1	0.1	0.10
Endrin	mg/kg	10	0.1	0.1	0.1	0.1	0.1	0.10
o,p'-DDD	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05
o,p'-DDT	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05
Beta Endosulfan	mg/kg	270	0.1	0.1	0.1	0.1	0.1	0.10
p,p'-DDD	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05
p,p'-DDT	mg/kg	240	0.05	0.05	0.05	0.05	0.05	0.05
Endosulfan sulphate	mg/kg	270	0.05	0.05	0.05	0.05	0.05	0.05
Endrin Aldehyde	mg/kg	10	0.05	0.05	0.05	0.05	0.05	0.05
Methoxychlor	mg/kg	300	0.05	0.05	0.05	0.05	0.05	0.05
Endrin Ketone	mg/kg	10	0.05	0.05	0.05	0.05	0.05	0.05
Isodrin	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	0.05
Mirex	mg/kg	10	0.05	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Dichlorvos	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25
Dimethoate	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25
Diazinon (Dimpylate)	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25
Fenitrothion	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
Malathion	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	0.1	0.1	0.1	0.1	0.1	0.10
Parathion-ethyl (Parathion)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
Bromophos Ethyl	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
Methidathion	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25
Ethion	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
Azinphos-methyl (Guthion)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1016	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1221	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1232	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1242	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1248	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1254	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1260	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.10

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Arochlor 1262	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.10
Arochlor 1268	mg/kg	1	0.1	0.1	0.1	0.1	0.1	0.10
Total PCBs (Arochlors)	mg/kg	1	0.5	0.5	0.5	0.5	0.5	0.50
Dicamba	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
MCPP (Mecoprop)	mg/kg	600	0.1	0.1	0.1	0.1	0.1	0.10
MCPA	mg/kg	600	0.1	0.1	0.1	0.1	0.1	0.10
Dichlorprop (2,4-DP)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
2,4-D	mg/kg	900	0.1	0.1	0.1	0.1	0.1	0.10
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
2,4,5-T	mg/kg	600	0.1	0.1	0.1	0.1	0.1	0.10
Dinoseb	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
2,6-D	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
Bromoxynil	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25
Clopyralid	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
Fluroxypyr	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Ioxynil	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25	0.25
MCPB	mg/kg	600	0.25	0.25	0.25	0.25	0.25	0.25
Triclopyr	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
2,4-DB	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1	0.10
Picloram	mg/kg	4500	0.25	0.25	0.25	0.25	0.25	0.25
Arsenic, As	mg/kg	100	5	4	6	1	4	4.04
Cadmium, Cd	mg/kg	20	0.4	0.3	0.3	0.2	0.3	0.30
Chromium, Cr	mg/kg	100	22	15	39	6.1	17	20.09
Copper, Cu	mg/kg	6000	15	11	15	5.5	42	18.01
Lead, Pb	mg/kg	300	82	15	22	12	220	72.17
Nickel, Ni	mg/kg	400	17	16	25	1.0	9.3	13.86
Zinc, Zn	mg/kg	7400	54	18	22	9	110	43.52
Mercury	mg/kg	40	0.04	0.02	0.02	0.01	0.32	0.08
Estimated Fibres	%w/w	0.010	0.005	0.005	0.005	0.005	0.005	0.005

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

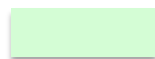
LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Table 3 – Hotspot UCL
 Exceeds HIL A

		Sample Name	BH1 500	BH1 1	BH16 500	BH16 1		
		Sample Date	29/2/2016	29/2/2016	29/2/2016	29/2/2016		
Analyte Name	Units	HIL A/HSL	Result	Result	Result	Result	95% UCL	
Benzene	mg/kg	0.6	0.05	0.05	0.05	0.05	0.05	
Toluene	mg/kg	390.0	0.05	0.05	0.05	0.05	0.05	
Ethylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05	
Total Xylenes	mg/kg	95.0	0.15	0.15	0.15	0.15	0.15	
Total BTEX	mg/kg	N/A	0.3	0.3	0.3	0.3	0.3	
Naphthalene	mg/kg	4.0	0.05	0.05	0.05	0.05	0.05	
Dichlorodifluoromethane (CFC-12)	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	
Chloromethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	
Vinyl chloride (Chloroethene)	mg/kg	0.03	0.05	0.05	0.05	0.05	0.05	
Bromomethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	
Chloroethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5	

 WATER
  MINING
  SPORTS & RECREATION
  HORTICULTURE & AGRICULTURE
  ENVIRONMENTAL
  ENGINEERING & GEOTECH
  URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Trichlorofluoromethane	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5
Acetone (2-propanone)	mg/kg	N/A	5	5	5	5	5
Iodomethane	mg/kg	N/A	2.5	2.5	2.5	2.5	2.5
1,1-dichloroethene	mg/kg	0.08	0.05	0.05	0.05	0.05	0.05
Acrylonitrile	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Dichloromethane (Methylene chloride)	mg/kg	N/A	<0.5	0.25	0.25	0.25	0.25
Allyl chloride	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Carbon disulfide	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25
trans-1,2-dichloroethene	mg/kg	0.08	0.05	0.05	0.05	0.05	0.05
MtBE (Methyl-tert-butyl ether)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,1-dichloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Vinyl acetate	mg/kg	N/A	5	5	5	5	5
MEK (2-butanone)	mg/kg	N/A	5	5	5	5	5
cis-1,2-dichloroethene	mg/kg	0.08	0.05	0.05	0.05	0.05	0.05
Bromochloromethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Chloroform	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
2,2-dichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,2-dichloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,1,1-trichloroethane	mg/kg	60.0	0.05	0.05	0.05	0.05	0.05
1,1-dichloropropene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Carbon tetrachloride	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Dibromomethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,2-dichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Trichloroethene (Trichloroethylene - TCE)	mg/kg	0.02	0.05	0.05	0.05	0.05	0.05
2-nitropropane	mg/kg	N/A	5	5	5	5	5
Bromodichloromethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
MIBK (4-methyl-2-pentanone)	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5
cis-1,3-dichloropropene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
trans-1,3-dichloropropene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,1,2-trichloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,3-dichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Chlorodibromomethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
2-hexanone (MBK)	mg/kg	N/A	2.5	2.5	2.5	2.5	2.5
1,2-dibromoethane (EDB)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	2.0	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



1,1,1,2-tetrachloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Chlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Bromoform	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
cis-1,4-dichloro-2-butene	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5
Styrene (Vinyl benzene)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,1,2,2-tetrachloroethane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,2,3-trichloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
trans-1,4-dichloro-2-butene	mg/kg	N/A	0.5	0.5	0.5	0.5	0.5
Isopropylbenzene (Cumene)	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Bromobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
n-propylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
2-chlorotoluene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
4-chlorotoluene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,3,5-trimethylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
tert-butylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,2,4-trimethylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
sec-butylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,3-dichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,4-dichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
p-isopropyltoluene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,2-dichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
n-butylbenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,2-dibromo-3-chloropropane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,2,4-trichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Hexachlorobutadiene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1,2,3-trichlorobenzene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Total VOC	mg/kg	N/A	0.0	0	0	0	0
TRH C6-C9	mg/kg	N/A	10	10	10	10	10
Benzene (F0)	mg/kg	0.6	0.05	0.05	0.05	0.05	0.05
TRH C6-C10	mg/kg	N/A	12.5	12.5	12.5	12.5	12.5
TRH C6-C10 minus BTEX (F1)	mg/kg	40	12.5	12.5	12.5	12.5	12.5
TRH C10-C14	mg/kg	N/A	10	10	10	10	10
TRH C15-C28	mg/kg	N/A	22.5	110	22.5	22.5	45.35
TRH C29-C36	mg/kg	N/A	22.5	22.5	22.5	22.5	22.50
TRH C37-C40	mg/kg	N/A	50	50	50	50	50.00
TRH >C10-C16 (F2)	mg/kg	230	12.5	12.5	12.5	12.5	12.50

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



TRH >C10-C16 (F2) - Naphthalene	mg/kg	230	12.5	12.5	12.5	12.5	12.50
TRH >C16-C34 (F3)	mg/kg	N/A	45	130	45	45	67.20
TRH >C34-C40 (F4)	mg/kg	N/A	60	60	60	60	60
TRH C10-C36 Total	mg/kg	N/A	55	55	55	55	55
TRH C10-C40 Total	mg/kg	N/A	105	105	105	105	105
Naphthalene	mg/kg	4.0	0.05	0.05	0.05	0.05	0.05
2-methylnaphthalene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
1-methylnaphthalene	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Acenaphthylene	mg/kg	N/A	0.05	0.5	0.4	0.05	0.26
Acenaphthene	mg/kg	N/A	0.05	0.2	0.05	0.05	0.09
Fluorene	mg/kg	N/A	0.05	0.6	0.05	0.05	0.19
Phenanthrene	mg/kg	N/A	0.05	9.6	3.4	0.2	3.41
Anthracene	mg/kg	N/A	0.05	2.1	0.8	0.05	0.77
Fluoranthene	mg/kg	N/A	0.05	14	7.2	0.6	5.61
Pyrene	mg/kg	N/A	0.05	15	8.3	0.7	6.17
Benzo(a)anthracene	mg/kg	N/A	0.05	5.1	3.7	0.3	2.34
Chrysene	mg/kg	N/A	0.05	4.3	3.3	0.3	2.03
Benzo(b&j)fluoranthene	mg/kg	N/A	0.05	4.6	3.3	0.3	2.11

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Benzo(k)fluoranthene	mg/kg	N/A	0.05	3.0	1.9	0.2	1.32
Benzo(a)pyrene	mg/kg	N/A	0.05	4.4	3.6	0.3	2.14
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	0.05	2.9	1.8	0.2	1.27
Dibenzo(a&h)anthracene	mg/kg	N/A	0.05	0.6	0.4	0.05	0.28
Benzo(ghi)perylene	mg/kg	N/A	0.05	2.4	1.7	0.2	1.11
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	3	0.1	6.5	5.1	0.5	3.12
Total PAH (18)	mg/kg	300	0.4	70	40	3.3	29.16
Hexachlorobenzene (HCB)	mg/kg	10	0.05	0.05	0.05	0.05	0.05
Alpha BHC	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Lindane	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Heptachlor	mg/kg	6	0.05	0.05	0.05	0.05	0.05
Aldrin	mg/kg	6	0.05	0.05	0.05	0.05	0.05
Beta BHC	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Delta BHC	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Heptachlor epoxide	mg/kg	6	0.05	0.05	0.05	0.05	0.05
o,p'-DDE	mg/kg	240	0.05	0.05	0.05	0.05	0.05
Alpha Endosulfan	mg/kg	270	0.1	0.1	0.1	0.1	0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Gamma Chlordane	mg/kg	50	0.05	0.05	0.05	0.05	0.05
Alpha Chlordane	mg/kg	50	0.05	0.05	0.05	0.05	0.05
trans-Nonachlor	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
p,p'-DDE	mg/kg	240	0.05	0.05	0.05	0.05	0.05
Dieldrin	mg/kg	6	0.1	0.1	0.1	0.1	0.1
Endrin	mg/kg	10	0.1	0.1	0.1	0.1	0.1
o,p'-DDD	mg/kg	240	0.05	0.05	0.05	0.05	0.05
o,p'-DDT	mg/kg	240	0.05	0.05	0.05	0.05	0.05
Beta Endosulfan	mg/kg	270	0.1	0.1	0.1	0.1	0.1
p,p'-DDD	mg/kg	240	0.05	0.05	0.05	0.05	0.05
p,p'-DDT	mg/kg	240	0.05	0.05	0.05	0.05	0.05
Endosulfan sulphate	mg/kg	270	0.05	0.05	0.05	0.05	0.05
Endrin Aldehyde	mg/kg	10	0.05	0.05	0.05	0.05	0.05
Methoxychlor	mg/kg	300	0.05	0.05	0.05	0.05	0.05
Endrin Ketone	mg/kg	10	0.05	0.05	0.05	0.05	0.05
Isodrin	mg/kg	N/A	0.05	0.05	0.05	0.05	0.05
Mirex	mg/kg	10	0.05	0.05	0.05	0.05	0.05
Dichlorvos	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Dimethoate	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25
Diazinon (Dimpylate)	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25
Fenitrothion	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
Malathion	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	160	0.1	0.1	0.1	0.1	0.1
Parathion-ethyl (Parathion)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
Bromophos Ethyl	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
Methidathion	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25
Ethion	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
Azinphos-methyl (Guthion)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
Arochlor 1016	mg/kg	1	0.1	0.1	0.1	0.1	0.1
Arochlor 1221	mg/kg	1	0.1	0.1	0.1	0.1	0.1
Arochlor 1232	mg/kg	1	0.1	0.1	0.1	0.1	0.1
Arochlor 1242	mg/kg	1	0.1	0.1	0.1	0.1	0.1
Arochlor 1248	mg/kg	1	0.1	0.1	0.1	0.1	0.1
Arochlor 1254	mg/kg	1	0.1	0.1	0.1	0.1	0.1
Arochlor 1260	mg/kg	1	0.1	0.1	0.1	0.1	0.1
Arochlor 1262	mg/kg	1	0.1	0.1	0.1	0.1	0.1

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Arochlor 1268	mg/kg	1	0.1	0.1	0.05	0.05	0.076
Total PCBs (Arochlors)	mg/kg	1	0.5	0.5	0.5	0.5	0.5
Dicamba	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
MCP (Mecoprop)	mg/kg	600	0.1	0.1	0.1	0.1	0.1
MCPA	mg/kg	600	0.1	0.1	0.1	0.1	0.1
Dichlorprop (2,4-DP)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
2,4-D	mg/kg	900	0.1	0.1	0.1	0.1	0.1
2,4,5-TP (Silvex, Fenopop)	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
2,4,5-T	mg/kg	600	0.1	0.1	0.1	0.1	0.1
Dinoseb	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
2,6-D	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
2,4,6-trichlorophenoxyacetic acid	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
Bromoxynil	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25
Clopyralid	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
Fluroxypyr	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
Ioxynil	mg/kg	N/A	0.25	0.25	0.25	0.25	0.25
MCPB	mg/kg	600	0.25	0.25	0.25	0.25	0.25

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Triclopyr	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
2,4-DB	mg/kg	N/A	0.1	0.1	0.1	0.1	0.1
Picloram	mg/kg	4500	0.25	0.25	0.25	0.25	0.25
Arsenic, As	mg/kg	100	11	7	6	3	6.82
Cadmium, Cd	mg/kg	20	0.5	0.3	0.6	0.2	0.40
Chromium, Cr	mg/kg	100	11	8.5	18	4.5	10.63
Copper, Cu	mg/kg	6000	4.5	11	15	11	10.47
Lead, Pb	mg/kg	300	16	16	74	13	30.41
Nickel, Ni	mg/kg	400	3.7	1.0	2.7	0.25	1.95
Zinc, Zn	mg/kg	7400	13	8	44	8	18.64
Mercury	mg/kg	40	0.005	0.005	0.34	0.03	0.10
Estimated Fibres	%w/w	0.01	0.005	0.005	0.005	0.005	0.005

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Quality Assurance and Quality Control Results

Table 1 – Relative Percentage Difference (RPD%) between duplicate samples BH2 1 (QA 1)

		QA1	BH2 1	
		29/2/2016	29/2/2016	
Analyte Name	Units	Result	Result	RPD %
Benzene	mg/kg	<0.1	<0.1	0
Toluene	mg/kg	<0.1	<0.1	0
Ethylbenzene	mg/kg	<0.1	<0.1	0
Total Xylenes	mg/kg	<0.3	<0.3	0
Total BTEX	mg/kg	<0.6	<0.6	0
Naphthalene	mg/kg	<0.1	<0.1	0
Dichlorodifluoromethane (CFC-12)	mg/kg	<1	<1	0
Chloromethane	mg/kg	<1	<1	0
Vinyl chloride (Chloroethene)	mg/kg	<0.1	<0.1	0
Bromomethane	mg/kg	<1	<1	0
Chloroethane	mg/kg	<1	<1	0
Trichlorofluoromethane	mg/kg	<1	<1	0
Acetone (2-propanone)	mg/kg	<10	<10	0
Iodomethane	mg/kg	<5	<5	0
1,1-dichloroethene	mg/kg	<0.1	<0.1	0
Acrylonitrile	mg/kg	<0.1	<0.1	0
Dichloromethane (Methylene chloride)	mg/kg	<0.5	<0.5	0
Allyl chloride	mg/kg	<0.1	<0.1	0
Carbon disulfide	mg/kg	<0.5	<0.5	0
trans-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
MtBE (Methyl-tert-butyl ether)	mg/kg	<0.1	<0.1	0
1,1-dichloroethane	mg/kg	<0.1	<0.1	0
Vinyl acetate	mg/kg	<10	<10	0
MEK (2-butanone)	mg/kg	<10	<10	0
cis-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
Bromochloromethane	mg/kg	<0.1	<0.1	0
Chloroform	mg/kg	<0.1	<0.1	0
2,2-dichloropropane	mg/kg	<0.1	<0.1	0
1,2-dichloroethane	mg/kg	<0.1	<0.1	0
1,1,1-trichloroethane	mg/kg	<0.1	<0.1	0
1,1-dichloropropene	mg/kg	<0.1	<0.1	0
Carbon tetrachloride	mg/kg	<0.1	<0.1	0
Dibromomethane	mg/kg	<0.1	<0.1	0
1,2-dichloropropane	mg/kg	<0.1	<0.1	0
Trichloroethene (Trichloroethylene -TCE)	mg/kg	<0.1	<0.1	0
2-nitropropane	mg/kg	<10	<10	0
Bromodichloromethane	mg/kg	<0.1	<0.1	0
MIBK (4-methyl-2-pentanone)	mg/kg	<1	<1	0
cis-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
trans-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
1,1,2-trichloroethane	mg/kg	<0.1	<0.1	0
1,3-dichloropropane	mg/kg	<0.1	<0.1	0
Chlorodibromomethane	mg/kg	<0.1	<0.1	0
2-hexanone (MBK)	mg/kg	<5	<5	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



A member of the
 Australian Soil and
 Plant Analysis Council

1,2-dibromoethane (EDB)	mg/kg	<0.1	<0.1	0
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	<0.1	<0.1	0
1,1,1,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
Chlorobenzene	mg/kg	<0.1	<0.1	0
Bromoform	mg/kg	<0.1	<0.1	0
cis-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Styrene (Vinyl benzene)	mg/kg	<0.1	<0.1	0
1,1,2,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
1,2,3-trichloropropane	mg/kg	<0.1	<0.1	0
trans-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Isopropylbenzene (Cumene)	mg/kg	<0.1	<0.1	0
Bromobenzene	mg/kg	<0.1	<0.1	0
n-propylbenzene	mg/kg	<0.1	<0.1	0
2-chlorotoluene	mg/kg	<0.1	<0.1	0
4-chlorotoluene	mg/kg	<0.1	<0.1	0
1,3,5-trimethylbenzene	mg/kg	<0.1	<0.1	0
tert-butylbenzene	mg/kg	<0.1	<0.1	0
1,2,4-trimethylbenzene	mg/kg	<0.1	<0.1	0
sec-butylbenzene	mg/kg	<0.1	<0.1	0
1,3-dichlorobenzene	mg/kg	<0.1	<0.1	0
1,4-dichlorobenzene	mg/kg	<0.1	<0.1	0
p-isopropyltoluene	mg/kg	<0.1	<0.1	0
1,2-dichlorobenzene	mg/kg	<0.1	<0.1	0
n-butylbenzene	mg/kg	<0.1	<0.1	0
1,2-dibromo-3-chloropropane	mg/kg	<0.1	<0.1	0
1,2,4-trichlorobenzene	mg/kg	<0.1	<0.1	0
Hexachlorobutadiene	mg/kg	<0.1	<0.1	0
1,2,3-trichlorobenzene	mg/kg	<0.1	<0.1	0
Total VOC	mg/kg	N/A	N.A.	0
TRH C6-C9	mg/kg	<20	<20	0
Benzene (F0)	mg/kg	<0.1	<0.1	0
TRH C6-C10	mg/kg	<25	<25	0
TRH C6-C10 minus BTEX (F1)	mg/kg	<25	<25	0
TRH C10-C14	mg/kg	<20	<20	0
TRH C15-C28	mg/kg	<45	<45	0
TRH C29-C36	mg/kg	<45	<45	0
TRH C37-C40	mg/kg	<100	<100	0
TRH >C10-C16 (F2)	mg/kg	<25	<25	0
TRH >C10-C16 (F2) - Naphthalene	mg/kg	<25	<25	0
TRH >C16-C34 (F3)	mg/kg	<90	<90	0
TRH >C34-C40 (F4)	mg/kg	<120	<120	0
TRH C10-C36 Total	mg/kg	<110	<110	0
TRH C10-C40 Total	mg/kg	<210	<210	0
Naphthalene	mg/kg	<0.1	<0.1	0
2-methylnaphthalene	mg/kg	<0.1	<0.1	0
1-methylnaphthalene	mg/kg	<0.1	<0.1	0
Acenaphthylene	mg/kg	<0.1	<0.1	0
Acenaphthene	mg/kg	<0.1	<0.1	0
Fluorene	mg/kg	<0.1	<0.1	0
Phenanthrene	mg/kg	<0.1	<0.1	0
Anthracene	mg/kg	<0.1	<0.1	0
Fluoranthene	mg/kg	<0.1	<0.1	0
Pyrene	mg/kg	<0.1	<0.1	0
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0
Chrysene	mg/kg	<0.1	<0.1	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



A member of the
 Australian Soil and
 Plant Analysis Council

Benzo(b&j)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(k)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(a)pyrene	mg/kg	<0.1	<0.1	0
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	<0.1	0
Dibenzo(a&h)anthracene	mg/kg	<0.1	<0.1	0
Benzo(ghi)perylene	mg/kg	<0.1	<0.1	0
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	<0.2	<0.2	0
Total PAH (18)	mg/kg	<0.8	<0.8	0
Hexachlorobenzene (HCB)	mg/kg	<0.1	<0.1	0
Alpha BHC	mg/kg	<0.1	<0.1	0
Lindane	mg/kg	<0.1	<0.1	0
Heptachlor	mg/kg	<0.1	<0.1	0
Aldrin	mg/kg	<0.1	<0.1	0
Beta BHC	mg/kg	<0.1	<0.1	0
Delta BHC	mg/kg	<0.1	<0.1	0
Heptachlor epoxide	mg/kg	<0.1	<0.1	0
o,p'-DDE	mg/kg	<0.1	<0.1	0
Alpha Endosulfan	mg/kg	<0.2	<0.2	0
Gamma Chlordane	mg/kg	<0.1	<0.1	0
Alpha Chlordane	mg/kg	<0.1	<0.1	0
trans-Nonachlor	mg/kg	<0.1	<0.1	0
p,p'-DDE	mg/kg	<0.1	<0.1	0
Dieldrin	mg/kg	<0.2	<0.2	0
Endrin	mg/kg	<0.2	<0.2	0
o,p'-DDD	mg/kg	<0.1	<0.1	0
o,p'-DDT	mg/kg	<0.1	<0.1	0
Beta Endosulfan	mg/kg	<0.2	<0.2	0
p,p'-DDD	mg/kg	<0.1	<0.1	0
p,p'-DDT	mg/kg	<0.1	<0.1	0
Endosulfan sulphate	mg/kg	<0.1	<0.1	0
Endrin Aldehyde	mg/kg	<0.1	<0.1	0
Methoxychlor	mg/kg	<0.1	<0.1	0
Endrin Ketone	mg/kg	<0.1	<0.1	0
Isodrin	mg/kg	<0.1	<0.1	0
Mirex	mg/kg	<0.1	<0.1	0
Dichlorvos	mg/kg	<0.5	<0.5	0
Dimethoate	mg/kg	<0.5	<0.5	0
Diazinon (Dimpylate)	mg/kg	<0.5	<0.5	0
Fenitrothion	mg/kg	<0.2	<0.2	0
Malathion	mg/kg	<0.2	<0.2	0
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	<0.2	<0.2	0
Parathion-ethyl (Parathion)	mg/kg	<0.2	<0.2	0
Bromophos Ethyl	mg/kg	<0.2	<0.2	0
Methidathion	mg/kg	<0.5	<0.5	0
Ethion	mg/kg	<0.2	<0.2	0
Azinphos-methyl (Guthion)	mg/kg	<0.2	<0.2	0
Arochlor 1016	mg/kg	<0.2	<0.2	0
Arochlor 1221	mg/kg	<0.2	<0.2	0
Arochlor 1232	mg/kg	<0.2	<0.2	0
Arochlor 1242	mg/kg	<0.2	<0.2	0
Arochlor 1248	mg/kg	<0.2	<0.2	0
Arochlor 1254	mg/kg	<0.2	<0.2	0
Arochlor 1260	mg/kg	<0.2	<0.2	0
Arochlor 1262	mg/kg	<0.2	<0.2	0
Arochlor 1268	mg/kg	<0.2	<0.2	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



A member of the
 Australian Soil and
 Plant Analysis Council

Total PCBs (Aroclors)	mg/kg	<1	<1	0
Dicamba	mg/kg	<0.2	<0.2	0
MCPP (Mecoprop)	mg/kg	<0.2	<0.2	0
MCPA	mg/kg	<0.2	<0.2	0
Dichlorprop (2,4-DP)	mg/kg	<0.2	<0.2	0
2,4-D	mg/kg	<0.2	<0.2	0
2,4,5-TP (Silvex, Fenopop)	mg/kg	<0.2	<0.2	0
2,4,5-T	mg/kg	<0.2	<0.2	0
Dinoseb	mg/kg	<0.2	<0.2	0
2,6-D	mg/kg	<0.2	<0.2	0
2,4,6-trichlorophenoxyacetic acid	mg/kg	<0.2	<0.2	0
Bromoxynil	mg/kg	<0.2	<0.2	0
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	<0.5	<0.5	0
Clopyralid	mg/kg	<0.2	<0.2	0
Fluroxypyr	mg/kg	<0.2	<0.2	0
Ioxynil	mg/kg	<0.5	<0.5	0
MCPB	mg/kg	<0.5	<0.5	0
Triclopyr	mg/kg	<0.2	<0.2	0
2,4-DB	mg/kg	<0.2	<0.2	0
Picloram	mg/kg	<0.5	<0.5	0
Arsenic, As	mg/kg	5	5	0
Cadmium, Cd	mg/kg	0.2	0.2	0
Chromium, Cr	mg/kg	7.8	5.9	28
Copper, Cu	mg/kg	8.3	8.2	1
Lead, Pb	mg/kg	14	11	24
Nickel, Ni	mg/kg	1.1	2.2	-67
Zinc, Zn	mg/kg	5	5	0
Mercury	mg/kg	<0.01	<0.01	0
Asbestos Detected	No unit	No	No	0
Estimated Fibres	%w/w	<0.01	<0.01	0

Table 2 – Relative Percentage Difference (RPD%) between duplicate samples BH6 2 (QA 2)

		QA2	BH6 2 (QA 2)	
		29/2/2016	29/2/2016	
Analyte Name	Units	Result	Result	RPD %
Benzene	mg/kg	<0.1	<0.1	0
Toluene	mg/kg	<0.1	<0.1	0
Ethylbenzene	mg/kg	<0.1	<0.1	0
Total Xylenes	mg/kg	<0.3	<0.3	0
Total BTEX	mg/kg	<0.6	<0.6	0
Naphthalene	mg/kg	<0.1	<0.1	0
Dichlorodifluoromethane (CFC-12)	mg/kg	<1	<1	0
Chloromethane	mg/kg	<1	<1	0
Vinyl chloride (Chloroethene)	mg/kg	<0.1	<0.1	0
Bromomethane	mg/kg	<1	<1	0
Chloroethane	mg/kg	<1	<1	0
Trichlorofluoromethane	mg/kg	<1	<1	0
Acetone (2-propanone)	mg/kg	<10	<10	0
Iodomethane	mg/kg	<5	<5	0
1,1-dichloroethene	mg/kg	<0.1	<0.1	0
Acrylonitrile	mg/kg	<0.1	<0.1	0
Dichloromethane (Methylene chloride)	mg/kg	<0.5	<0.5	0
Allyl chloride	mg/kg	<0.1	<0.1	0
Carbon disulfide	mg/kg	<0.5	<0.5	0
trans-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
MtBE (Methyl-tert-butyl ether)	mg/kg	<0.1	<0.1	0
1,1-dichloroethane	mg/kg	<0.1	<0.1	0
Vinyl acetate	mg/kg	<10	<10	0
MEK (2-butanone)	mg/kg	<10	<10	0
cis-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
Bromochloromethane	mg/kg	<0.1	<0.1	0
Chloroform	mg/kg	<0.1	<0.1	0
2,2-dichloropropane	mg/kg	<0.1	<0.1	0
1,2-dichloroethane	mg/kg	<0.1	<0.1	0
1,1,1-trichloroethane	mg/kg	<0.1	<0.1	0
1,1-dichloropropene	mg/kg	<0.1	<0.1	0
Carbon tetrachloride	mg/kg	<0.1	<0.1	0
Dibromomethane	mg/kg	<0.1	<0.1	0
1,2-dichloropropane	mg/kg	<0.1	<0.1	0
Trichloroethene (Trichloroethylene -TCE)	mg/kg	<0.1	<0.1	0
2-nitropropane	mg/kg	<10	<10	0
Bromodichloromethane	mg/kg	<0.1	<0.1	0
MIBK (4-methyl-2-pentanone)	mg/kg	<1	<1	0
cis-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
trans-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
1,1,2-trichloroethane	mg/kg	<0.1	<0.1	0
1,3-dichloropropane	mg/kg	<0.1	<0.1	0
Chlorodibromomethane	mg/kg	<0.1	<0.1	0
2-hexanone (MBK)	mg/kg	<5	<5	0
1,2-dibromoethane (EDB)	mg/kg	<0.1	<0.1	0
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	<0.1	<0.1	0
1,1,1,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
Chlorobenzene	mg/kg	<0.1	<0.1	0
Bromoform	mg/kg	<0.1	<0.1	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



cis-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Styrene (Vinyl benzene)	mg/kg	<0.1	<0.1	0
1,1,2,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
1,2,3-trichloropropane	mg/kg	<0.1	<0.1	0
trans-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Isopropylbenzene (Cumene)	mg/kg	<0.1	<0.1	0
Bromobenzene	mg/kg	<0.1	<0.1	0
n-propylbenzene	mg/kg	<0.1	<0.1	0
2-chlorotoluene	mg/kg	<0.1	<0.1	0
4-chlorotoluene	mg/kg	<0.1	<0.1	0
1,3,5-trimethylbenzene	mg/kg	<0.1	<0.1	0
tert-butylbenzene	mg/kg	<0.1	<0.1	0
1,2,4-trimethylbenzene	mg/kg	<0.1	<0.1	0
sec-butylbenzene	mg/kg	<0.1	<0.1	0
1,3-dichlorobenzene	mg/kg	<0.1	<0.1	0
1,4-dichlorobenzene	mg/kg	<0.1	<0.1	0
p-isopropyltoluene	mg/kg	<0.1	<0.1	0
1,2-dichlorobenzene	mg/kg	<0.1	<0.1	0
n-butylbenzene	mg/kg	<0.1	<0.1	0
1,2-dibromo-3-chloropropane	mg/kg	<0.1	<0.1	0
1,2,4-trichlorobenzene	mg/kg	<0.1	<0.1	0
Hexachlorobutadiene	mg/kg	<0.1	<0.1	0
1,2,3-trichlorobenzene	mg/kg	<0.1	<0.1	0
Total VOC	mg/kg	N/A	N.A.	0
TRH C6-C9	mg/kg	<20	<20	0
Benzene (F0)	mg/kg	<0.1	<0.1	0
TRH C6-C10	mg/kg	<25	<25	0
TRH C6-C10 minus BTEX (F1)	mg/kg	<25	<25	0
TRH C10-C14	mg/kg	<20	<20	0
TRH C15-C28	mg/kg	<45	<45	0
TRH C29-C36	mg/kg	<45	<45	0
TRH C37-C40	mg/kg	<100	<100	0
TRH >C10-C16 (F2)	mg/kg	<25	<25	0
TRH >C10-C16 (F2) - Naphthalene	mg/kg	<25	<25	0
TRH >C16-C34 (F3)	mg/kg	<90	<90	0
TRH >C34-C40 (F4)	mg/kg	<120	<120	0
TRH C10-C36 Total	mg/kg	<110	<110	0
TRH C10-C40 Total	mg/kg	<210	<210	0
Naphthalene	mg/kg	<0.1	<0.1	0
2-methylnaphthalene	mg/kg	<0.1	<0.1	0
1-methylnaphthalene	mg/kg	<0.1	<0.1	0
Acenaphthylene	mg/kg	<0.1	<0.1	0
Acenaphthene	mg/kg	<0.1	<0.1	0
Fluorene	mg/kg	<0.1	<0.1	0
Phenanthrene	mg/kg	<0.1	<0.1	0
Anthracene	mg/kg	<0.1	<0.1	0
Fluoranthene	mg/kg	<0.1	<0.1	0
Pyrene	mg/kg	<0.1	<0.1	0
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0
Chrysene	mg/kg	<0.1	<0.1	0
Benzo(b&j)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(k)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(a)pyrene	mg/kg	<0.1	<0.1	0
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	<0.1	0
Dibenzo(a&h)anthracene	mg/kg	<0.1	<0.1	0
Benzo(ghi)perylene	mg/kg	<0.1	<0.1	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



A member of the
 Australian Soil and
 Plant Analysis Council

Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	<0.2	<0.2	0
Total PAH (18)	mg/kg	<0.8	<0.8	0
Hexachlorobenzene (HCB)	mg/kg	<0.1	<0.1	0
Alpha BHC	mg/kg	<0.1	<0.1	0
Lindane	mg/kg	<0.1	<0.1	0
Heptachlor	mg/kg	<0.1	<0.1	0
Aldrin	mg/kg	<0.1	<0.1	0
Beta BHC	mg/kg	<0.1	<0.1	0
Delta BHC	mg/kg	<0.1	<0.1	0
Heptachlor epoxide	mg/kg	<0.1	<0.1	0
o,p'-DDE	mg/kg	<0.1	<0.1	0
Alpha Endosulfan	mg/kg	<0.2	<0.2	0
Gamma Chlordane	mg/kg	<0.1	<0.1	0
Alpha Chlordane	mg/kg	<0.1	<0.1	0
trans-Nonachlor	mg/kg	<0.1	<0.1	0
p,p'-DDE	mg/kg	<0.1	<0.1	0
Dieldrin	mg/kg	<0.2	<0.2	0
Endrin	mg/kg	<0.2	<0.2	0
o,p'-DDD	mg/kg	<0.1	<0.1	0
o,p'-DDT	mg/kg	<0.1	<0.1	0
Beta Endosulfan	mg/kg	<0.2	<0.2	0
p,p'-DDD	mg/kg	<0.1	<0.1	0
p,p'-DDT	mg/kg	<0.1	<0.1	0
Endosulfan sulphate	mg/kg	<0.1	<0.1	0
Endrin Aldehyde	mg/kg	<0.1	<0.1	0
Methoxychlor	mg/kg	<0.1	<0.1	0
Endrin Ketone	mg/kg	<0.1	<0.1	0
Isodrin	mg/kg	<0.1	<0.1	0
Mirex	mg/kg	<0.1	<0.1	0
Dichlorvos	mg/kg	<0.5	<0.5	0
Dimethoate	mg/kg	<0.5	<0.5	0
Diazinon (Dimpylate)	mg/kg	<0.5	<0.5	0
Fenitrothion	mg/kg	<0.2	<0.2	0
Malathion	mg/kg	<0.2	<0.2	0
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	<0.2	<0.2	0
Parathion-ethyl (Parathion)	mg/kg	<0.2	<0.2	0
Bromophos Ethyl	mg/kg	<0.2	<0.2	0
Methidathion	mg/kg	<0.5	<0.5	0
Ethion	mg/kg	<0.2	<0.2	0
Azinphos-methyl (Guthion)	mg/kg	<0.2	<0.2	0
Arochlor 1016	mg/kg	<0.2	<0.2	0
Arochlor 1221	mg/kg	<0.2	<0.2	0
Arochlor 1232	mg/kg	<0.2	<0.2	0
Arochlor 1242	mg/kg	<0.2	<0.2	0
Arochlor 1248	mg/kg	<0.2	<0.2	0
Arochlor 1254	mg/kg	<0.2	<0.2	0
Arochlor 1260	mg/kg	<0.2	<0.2	0
Arochlor 1262	mg/kg	<0.2	<0.2	0
Arochlor 1268	mg/kg	<0.2	<0.2	0
Total PCBs (Arochlors)	mg/kg	<1	<1	0
Dicamba	mg/kg	<0.2	<0.2	0
MCP (Mecoprop)	mg/kg	<0.2	<0.2	0
MCPA	mg/kg	<0.2	<0.2	0
Dichlorprop (2,4-DP)	mg/kg	<0.2	<0.2	0
2,4-D	mg/kg	<0.2	<0.2	0
2,4,5-TP (Silvex, Fenopop)	mg/kg	<0.2	<0.2	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



2,4,5-T	mg/kg	<0.2	<0.2	0
Dinoseb	mg/kg	<0.2	<0.2	0
2,6-D	mg/kg	<0.2	<0.2	0
2,4,6-trichlorophenoxyacetic acid	mg/kg	<0.2	<0.2	0
Bromoxynil	mg/kg	<0.2	<0.2	0
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	<0.5	<0.5	0
Clopyralid	mg/kg	<0.2	<0.2	0
Fluroxypyr	mg/kg	<0.2	<0.2	0
Ioxynil	mg/kg	<0.5	<0.5	0
MCPB	mg/kg	<0.5	<0.5	0
Triclopyr	mg/kg	<0.2	<0.2	0
2,4-DB	mg/kg	<0.2	<0.2	0
Picloram	mg/kg	<0.5	<0.5	0
Arsenic, As	mg/kg	6	1	143
Cadmium, Cd	mg/kg	0.3	0.2	40
Chromium, Cr	mg/kg	6.5	5.0	26
Copper, Cu	mg/kg	54	42	25
Lead, Pb	mg/kg	23	20	14
Nickel, Ni	mg/kg	11	5.2	72
Zinc, Zn	mg/kg	56	34	49
Mercury	mg/kg	<0.01	<0.01	0
Asbestos Detected	No unit	No	No	0
Estimated Fibres	%w/w	<0.01	<0.01	0

Table 3 – Relative Percentage Difference (RPD%) between duplicate samples BH5 3 (QA3)

		QA3	BH5 3 (QA3)	
		29/2/2016	29/2/2016	
Analyte Name	Units	Result	Result	RPD %
Benzene	mg/kg	<0.1	<0.1	0
Toluene	mg/kg	<0.1	<0.1	0
Ethylbenzene	mg/kg	<0.1	<0.1	0
Total Xylenes	mg/kg	<0.3	<0.3	0
Total BTEX	mg/kg	<0.6	<0.6	0
Naphthalene	mg/kg	<0.1	<0.1	0
Dichlorodifluoromethane (CFC-12)	mg/kg	<1	<1	0
Chloromethane	mg/kg	<1	<1	0
Vinyl chloride (Chloroethene)	mg/kg	<0.1	<0.1	0
Bromomethane	mg/kg	<1	<1	0
Chloroethane	mg/kg	<1	<1	0
Trichlorofluoromethane	mg/kg	<1	<1	0
Acetone (2-propanone)	mg/kg	<10	<10	0
Iodomethane	mg/kg	<5	<5	0
1,1-dichloroethene	mg/kg	<0.1	<0.1	0
Acrylonitrile	mg/kg	<0.1	<0.1	0
Dichloromethane (Methylene chloride)	mg/kg	<0.5	<0.5	0
Allyl chloride	mg/kg	<0.1	<0.1	0
Carbon disulfide	mg/kg	<0.5	<0.5	0
trans-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
MtBE (Methyl-tert-butyl ether)	mg/kg	<0.1	<0.1	0
1,1-dichloroethane	mg/kg	<0.1	<0.1	0
Vinyl acetate	mg/kg	<10	<10	0
MEK (2-butanone)	mg/kg	<10	<10	0
cis-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
Bromochloromethane	mg/kg	<0.1	<0.1	0
Chloroform	mg/kg	<0.1	<0.1	0
2,2-dichloropropane	mg/kg	<0.1	<0.1	0
1,2-dichloroethane	mg/kg	<0.1	<0.1	0
1,1,1-trichloroethane	mg/kg	<0.1	<0.1	0
1,1-dichloropropene	mg/kg	<0.1	<0.1	0
Carbon tetrachloride	mg/kg	<0.1	<0.1	0
Dibromomethane	mg/kg	<0.1	<0.1	0
1,2-dichloropropane	mg/kg	<0.1	<0.1	0
Trichloroethene (Trichloroethylene -TCE)	mg/kg	<0.1	<0.1	0
2-nitropropane	mg/kg	<10	<10	0
Bromodichloromethane	mg/kg	<0.1	<0.1	0
MIBK (4-methyl-2-pentanone)	mg/kg	<1	<1	0
cis-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
trans-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
1,1,2-trichloroethane	mg/kg	<0.1	<0.1	0
1,3-dichloropropane	mg/kg	<0.1	<0.1	0
Chlorodibromomethane	mg/kg	<0.1	<0.1	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



A member of the
 Australian Soil and
 Plant Analysis Council

2-hexanone (MBK)	mg/kg	<5	<5	0
1,2-dibromoethane (EDB)	mg/kg	<0.1	<0.1	0
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	<0.1	<0.1	0
1,1,1,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
Chlorobenzene	mg/kg	<0.1	<0.1	0
Bromoform	mg/kg	<0.1	<0.1	0
cis-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Styrene (Vinyl benzene)	mg/kg	<0.1	<0.1	0
1,1,2,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
1,2,3-trichloropropane	mg/kg	<0.1	<0.1	0
trans-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Isopropylbenzene (Cumene)	mg/kg	<0.1	<0.1	0
Bromobenzene	mg/kg	<0.1	<0.1	0
n-propylbenzene	mg/kg	<0.1	<0.1	0
2-chlorotoluene	mg/kg	<0.1	<0.1	0
4-chlorotoluene	mg/kg	<0.1	<0.1	0
1,3,5-trimethylbenzene	mg/kg	<0.1	<0.1	0
tert-butylbenzene	mg/kg	<0.1	<0.1	0
1,2,4-trimethylbenzene	mg/kg	<0.1	<0.1	0
sec-butylbenzene	mg/kg	<0.1	<0.1	0
1,3-dichlorobenzene	mg/kg	<0.1	<0.1	0
1,4-dichlorobenzene	mg/kg	<0.1	<0.1	0
p-isopropyltoluene	mg/kg	<0.1	<0.1	0
1,2-dichlorobenzene	mg/kg	<0.1	<0.1	0
n-butylbenzene	mg/kg	<0.1	<0.1	0
1,2-dibromo-3-chloropropane	mg/kg	<0.1	<0.1	0
1,2,4-trichlorobenzene	mg/kg	<0.1	<0.1	0
Hexachlorobutadiene	mg/kg	<0.1	<0.1	0
1,2,3-trichlorobenzene	mg/kg	<0.1	<0.1	0
Total VOC	mg/kg	N/A	N.A.	0
TRH C6-C9	mg/kg	<20	<20	0
Benzene (F0)	mg/kg	<0.1	<0.1	0
TRH C6-C10	mg/kg	<25	<25	0
TRH C6-C10 minus BTEX (F1)	mg/kg	<25	<25	0
TRH C10-C14	mg/kg	<20	<20	0
TRH C15-C28	mg/kg	<45	<45	0
TRH C29-C36	mg/kg	<45	<45	0
TRH C37-C40	mg/kg	<100	<100	0
TRH >C10-C16 (F2)	mg/kg	<25	<25	0
TRH >C10-C16 (F2) - Naphthalene	mg/kg	<25	<25	0
TRH >C16-C34 (F3)	mg/kg	<90	<90	0
TRH >C34-C40 (F4)	mg/kg	<120	<120	0
TRH C10-C36 Total	mg/kg	<110	<110	0
TRH C10-C40 Total	mg/kg	<210	<210	0
Naphthalene	mg/kg	<0.1	<0.1	0
2-methylnaphthalene	mg/kg	<0.1	<0.1	0
1-methylnaphthalene	mg/kg	<0.1	<0.1	0
Acenaphthylene	mg/kg	<0.1	<0.1	0
Acenaphthene	mg/kg	<0.1	<0.1	0
Fluorene	mg/kg	<0.1	<0.1	0

■ WATER
 ■ MINING
 ■ SPORTS & RECREATION
 ■ HORTICULTURE & AGRICULTURE
 ■ ENVIRONMENTAL
 ■ ENGINEERING & GEOTECH
 ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



A member of the
 Australian Soil and
 Plant Analysis Council

Phenanthrene	mg/kg	<0.1	<0.1	0
Anthracene	mg/kg	<0.1	<0.1	0
Fluoranthene	mg/kg	0.2	0.1	67
Pyrene	mg/kg	0.2	0.1	67
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0
Chrysene	mg/kg	0.1	<0.1	0
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	0
Benzo(k)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(a)pyrene	mg/kg	0.1	<0.1	0
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	<0.1	0
Dibenzo(a&h)anthracene	mg/kg	<0.1	<0.1	0
Benzo(ghi)perylene	mg/kg	<0.1	<0.1	0
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	<0.2	<0.2	0
Total PAH (18)	mg/kg	<0.8	<0.8	0
Hexachlorobenzene (HCB)	mg/kg	<0.1	<0.1	0
Alpha BHC	mg/kg	<0.1	<0.1	0
Lindane	mg/kg	<0.1	<0.1	0
Heptachlor	mg/kg	<0.1	<0.1	0
Aldrin	mg/kg	<0.1	<0.1	0
Beta BHC	mg/kg	<0.1	<0.1	0
Delta BHC	mg/kg	<0.1	<0.1	0
Heptachlor epoxide	mg/kg	<0.1	<0.1	0
o,p'-DDE	mg/kg	<0.1	<0.1	0
Alpha Endosulfan	mg/kg	<0.2	<0.2	0
Gamma Chlordane	mg/kg	<0.1	<0.1	0
Alpha Chlordane	mg/kg	<0.1	<0.1	0
trans-Nonachlor	mg/kg	<0.1	<0.1	0
p,p'-DDE	mg/kg	<0.1	<0.1	0
Dieldrin	mg/kg	<0.2	<0.2	0
Endrin	mg/kg	<0.2	<0.2	0
o,p'-DDD	mg/kg	<0.1	<0.1	0
o,p'-DDT	mg/kg	<0.1	<0.1	0
Beta Endosulfan	mg/kg	<0.2	<0.2	0
p,p'-DDD	mg/kg	<0.1	<0.1	0
p,p'-DDT	mg/kg	<0.1	<0.1	0
Endosulfan sulphate	mg/kg	<0.1	<0.1	0
Endrin Aldehyde	mg/kg	<0.1	<0.1	0
Methoxychlor	mg/kg	<0.1	<0.1	0
Endrin Ketone	mg/kg	<0.1	<0.1	0
Isodrin	mg/kg	<0.1	<0.1	0
Mirex	mg/kg	<0.1	<0.1	0
Dichlorvos	mg/kg	<0.5	<0.5	0
Dimethoate	mg/kg	<0.5	<0.5	0
Diazinon (Dimpylate)	mg/kg	<0.5	<0.5	0
Fenitrothion	mg/kg	<0.2	<0.2	0
Malathion	mg/kg	<0.2	<0.2	0
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	<0.2	<0.2	0
Parathion-ethyl (Parathion)	mg/kg	<0.2	<0.2	0
Bromophos Ethyl	mg/kg	<0.2	<0.2	0
Methodathion	mg/kg	<0.5	<0.5	0

 WATER
  MINING
  SPORTS & RECREATION
  HORTICULTURE & AGRICULTURE
  ENVIRONMENTAL
  ENGINEERING & GEOTECH
  URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



A member of the
 Australian Soil and
 Plant Analysis Council

Ethion	mg/kg	<0.2	<0.2	0
Azinphos-methyl (Guthion)	mg/kg	<0.2	<0.2	0
Arochlor 1016	mg/kg	<0.2	<0.2	0
Arochlor 1221	mg/kg	<0.2	<0.2	0
Arochlor 1232	mg/kg	<0.2	<0.2	0
Arochlor 1242	mg/kg	<0.2	<0.2	0
Arochlor 1248	mg/kg	<0.2	<0.2	0
Arochlor 1254	mg/kg	<0.2	<0.2	0
Arochlor 1260	mg/kg	<0.2	<0.2	0
Arochlor 1262	mg/kg	<0.2	<0.2	0
Arochlor 1268	mg/kg	<0.2	<0.2	0
Total PCBs (Arochlors)	mg/kg	<1	<1	0
Dicamba	mg/kg	<0.2	<0.2	0
MCP (Mecoprop)	mg/kg	<0.2	<0.2	0
MCPA	mg/kg	<0.2	<0.2	0
Dichlorprop (2,4-DP)	mg/kg	<0.2	<0.2	0
2,4-D	mg/kg	<0.2	<0.2	0
2,4,5-TP (Silvex, Fenopop)	mg/kg	<0.2	<0.2	0
2,4,5-T	mg/kg	<0.2	<0.2	0
Dinoseb	mg/kg	<0.2	<0.2	0
2,6-D	mg/kg	<0.2	<0.2	0
2,4,6-trichlorophenoxyacetic acid	mg/kg	<0.2	<0.2	0
Bromoxynil	mg/kg	<0.2	<0.2	0
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	<0.5	<0.5	0
Clopyralid	mg/kg	<0.2	<0.2	0
Fluroxypyr	mg/kg	<0.2	<0.2	0
Ioxynil	mg/kg	<0.5	<0.5	0
MCPB	mg/kg	<0.5	<0.5	0
Triclopyr	mg/kg	<0.2	<0.2	0
2,4-DB	mg/kg	<0.2	<0.2	0
Picloram	mg/kg	<0.5	<0.5	0
Arsenic, As	mg/kg	5	6	-18
Cadmium, Cd	mg/kg	0.2	0.3	-40
Chromium, Cr	mg/kg	8.3	7.2	14
Copper, Cu	mg/kg	18	21	-15
Lead, Pb	mg/kg	23	33	-36
Nickel, Ni	mg/kg	<0.5	0.9	0
Zinc, Zn	mg/kg	26	32	-21
Mercury	mg/kg	0.14	4.0	-186
Asbestos Detected	No unit	No	No	0
Estimated Fibres	%w/w	<0.01	<0.01	0

Table 4 – Relative Percentage Difference (RPD%) between duplicate samples BH9 2 (QA4)

		QA4	BH9 2 (QA4)	
		29/2/2016	29/2/2016	
Analyte Name	Units	Result	Result	RDP
Benzene	mg/kg	<0.1	<0.1	0
Toluene	mg/kg	<0.1	<0.1	0
Ethylbenzene	mg/kg	<0.1	<0.1	0
Total Xylenes	mg/kg	<0.3	<0.3	0
Total BTEX	mg/kg	<0.6	<0.6	0
Naphthalene	mg/kg	<0.1	<0.1	0
Dichlorodifluoromethane (CFC-12)	mg/kg	<1	<1	0
Chloromethane	mg/kg	<1	<1	0
Vinyl chloride (Chloroethene)	mg/kg	<0.1	<0.1	0
Bromomethane	mg/kg	<1	<1	0
Chloroethane	mg/kg	<1	<1	0
Trichlorofluoromethane	mg/kg	<1	<1	0
Acetone (2-propanone)	mg/kg	<10	<10	0
Iodomethane	mg/kg	<5	<5	0
1,1-dichloroethene	mg/kg	<0.1	<0.1	0
Acrylonitrile	mg/kg	<0.1	<0.1	0
Dichloromethane (Methylene chloride)	mg/kg	<0.5	<0.5	0
Allyl chloride	mg/kg	<0.1	<0.1	0
Carbon disulfide	mg/kg	<0.5	<0.5	0
trans-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
MtBE (Methyl-tert-butyl ether)	mg/kg	<0.1	<0.1	0
1,1-dichloroethane	mg/kg	<0.1	<0.1	0
Vinyl acetate	mg/kg	<10	<10	0
MEK (2-butanone)	mg/kg	<10	<10	0
cis-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
Bromochloromethane	mg/kg	<0.1	<0.1	0
Chloroform	mg/kg	<0.1	<0.1	0
2,2-dichloropropane	mg/kg	<0.1	<0.1	0
1,2-dichloroethane	mg/kg	<0.1	<0.1	0
1,1,1-trichloroethane	mg/kg	<0.1	<0.1	0
1,1-dichloropropene	mg/kg	<0.1	<0.1	0
Carbon tetrachloride	mg/kg	<0.1	<0.1	0
Dibromomethane	mg/kg	<0.1	<0.1	0
1,2-dichloropropane	mg/kg	<0.1	<0.1	0
Trichloroethene (Trichloroethylene -TCE)	mg/kg	<0.1	<0.1	0
2-nitropropane	mg/kg	<10	<10	0
Bromodichloromethane	mg/kg	<0.1	<0.1	0
MIBK (4-methyl-2-pentanone)	mg/kg	<1	<1	0
cis-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
trans-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
1,1,2-trichloroethane	mg/kg	<0.1	<0.1	0
1,3-dichloropropane	mg/kg	<0.1	<0.1	0
Chlorodibromomethane	mg/kg	<0.1	<0.1	0
2-hexanone (MBK)	mg/kg	<5	<5	0
1,2-dibromoethane (EDB)	mg/kg	<0.1	<0.1	0
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	<0.1	<0.1	0
1,1,1,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
Chlorobenzene	mg/kg	<0.1	<0.1	0
Bromoform	mg/kg	<0.1	<0.1	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



cis-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Styrene (Vinyl benzene)	mg/kg	<0.1	<0.1	0
1,1,2,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
1,2,3-trichloropropane	mg/kg	<0.1	<0.1	0
trans-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Isopropylbenzene (Cumene)	mg/kg	<0.1	<0.1	0
Bromobenzene	mg/kg	<0.1	<0.1	0
n-propylbenzene	mg/kg	<0.1	<0.1	0
2-chlorotoluene	mg/kg	<0.1	<0.1	0
4-chlorotoluene	mg/kg	<0.1	<0.1	0
1,3,5-trimethylbenzene	mg/kg	<0.1	<0.1	0
tert-butylbenzene	mg/kg	<0.1	<0.1	0
1,2,4-trimethylbenzene	mg/kg	<0.1	<0.1	0
sec-butylbenzene	mg/kg	<0.1	<0.1	0
1,3-dichlorobenzene	mg/kg	<0.1	<0.1	0
1,4-dichlorobenzene	mg/kg	<0.1	<0.1	0
p-isopropyltoluene	mg/kg	<0.1	<0.1	0
1,2-dichlorobenzene	mg/kg	<0.1	<0.1	0
n-butylbenzene	mg/kg	<0.1	<0.1	0
1,2-dibromo-3-chloropropane	mg/kg	<0.1	<0.1	0
1,2,4-trichlorobenzene	mg/kg	<0.1	<0.1	0
Hexachlorobutadiene	mg/kg	<0.1	<0.1	0
1,2,3-trichlorobenzene	mg/kg	<0.1	<0.1	0
Total VOC	mg/kg	N/A	N.A.	0
TRH C6-C9	mg/kg	<20	<20	0
Benzene (F0)	mg/kg	<0.1	<0.1	0
TRH C6-C10	mg/kg	<25	<25	0
TRH C6-C10 minus BTEX (F1)	mg/kg	<25	<25	0
TRH C10-C14	mg/kg	<20	<20	0
TRH C15-C28	mg/kg	<45	<45	0
TRH C29-C36	mg/kg	<45	<45	0
TRH C37-C40	mg/kg	<100	<100	0
TRH >C10-C16 (F2)	mg/kg	<25	<25	0
TRH >C10-C16 (F2) - Naphthalene	mg/kg	<25	<25	0
TRH >C16-C34 (F3)	mg/kg	<90	<90	0
TRH >C34-C40 (F4)	mg/kg	<120	<120	0
TRH C10-C36 Total	mg/kg	<110	<110	0
TRH C10-C40 Total	mg/kg	<210	<210	0
Naphthalene	mg/kg	<0.1	<0.1	0
2-methylnaphthalene	mg/kg	<0.1	<0.1	0
1-methylnaphthalene	mg/kg	<0.1	<0.1	0
Acenaphthylene	mg/kg	<0.1	<0.1	0
Acenaphthene	mg/kg	<0.1	<0.1	0
Fluorene	mg/kg	<0.1	<0.1	0
Phenanthrene	mg/kg	<0.1	<0.1	0
Anthracene	mg/kg	<0.1	<0.1	0
Fluoranthene	mg/kg	<0.1	<0.1	0
Pyrene	mg/kg	<0.1	<0.1	0
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0
Chrysene	mg/kg	<0.1	<0.1	0
Benzo(b&j)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(k)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(a)pyrene	mg/kg	<0.1	<0.1	0
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	<0.1	0
Dibenzo(a&h)anthracene	mg/kg	<0.1	<0.1	0
Benzo(ghi)perylene	mg/kg	<0.1	<0.1	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



A member of the
 Australian Soil and
 Plant Analysis Council

Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	<0.2	<0.2	0
Total PAH (18)	mg/kg	<0.8	<0.8	0
Hexachlorobenzene (HCB)	mg/kg	<0.1	<0.1	0
Alpha BHC	mg/kg	<0.1	<0.1	0
Lindane	mg/kg	<0.1	<0.1	0
Heptachlor	mg/kg	<0.1	<0.1	0
Aldrin	mg/kg	<0.1	<0.1	0
Beta BHC	mg/kg	<0.1	<0.1	0
Delta BHC	mg/kg	<0.1	<0.1	0
Heptachlor epoxide	mg/kg	<0.1	<0.1	0
o,p'-DDE	mg/kg	<0.1	<0.1	0
Alpha Endosulfan	mg/kg	<0.2	<0.2	0
Gamma Chlordane	mg/kg	<0.1	<0.1	0
Alpha Chlordane	mg/kg	<0.1	<0.1	0
trans-Nonachlor	mg/kg	<0.1	<0.1	0
p,p'-DDE	mg/kg	<0.1	<0.1	0
Dieldrin	mg/kg	<0.2	<0.2	0
Endrin	mg/kg	<0.2	<0.2	0
o,p'-DDD	mg/kg	<0.1	<0.1	0
o,p'-DDT	mg/kg	<0.1	<0.1	0
Beta Endosulfan	mg/kg	<0.2	<0.2	0
p,p'-DDD	mg/kg	<0.1	<0.1	0
p,p'-DDT	mg/kg	<0.1	<0.1	0
Endosulfan sulphate	mg/kg	<0.1	<0.1	0
Endrin Aldehyde	mg/kg	<0.1	<0.1	0
Methoxychlor	mg/kg	<0.1	<0.1	0
Endrin Ketone	mg/kg	<0.1	<0.1	0
Isodrin	mg/kg	<0.1	<0.1	0
Mirex	mg/kg	<0.1	<0.1	0
Dichlorvos	mg/kg	<0.5	<0.5	0
Dimethoate	mg/kg	<0.5	<0.5	0
Diazinon (Dimpylate)	mg/kg	<0.5	<0.5	0
Fenitrothion	mg/kg	<0.2	<0.2	0
Malathion	mg/kg	<0.2	<0.2	0
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	<0.2	<0.2	0
Parathion-ethyl (Parathion)	mg/kg	<0.2	<0.2	0
Bromophos Ethyl	mg/kg	<0.2	<0.2	0
Methidathion	mg/kg	<0.5	<0.5	0
Ethion	mg/kg	<0.2	<0.2	0
Azinphos-methyl (Guthion)	mg/kg	<0.2	<0.2	0
Arochlor 1016	mg/kg	<0.2	<0.2	0
Arochlor 1221	mg/kg	<0.2	<0.2	0
Arochlor 1232	mg/kg	<0.2	<0.2	0
Arochlor 1242	mg/kg	<0.2	<0.2	0
Arochlor 1248	mg/kg	<0.2	<0.2	0
Arochlor 1254	mg/kg	<0.2	<0.2	0
Arochlor 1260	mg/kg	<0.2	<0.2	0
Arochlor 1262	mg/kg	<0.2	<0.2	0
Arochlor 1268	mg/kg	<0.2	<0.2	0
Total PCBs (Arochlors)	mg/kg	<1	<1	0
Dicamba	mg/kg	<0.2	<0.2	0
MCP (Mecoprop)	mg/kg	<0.2	<0.2	0
MCPA	mg/kg	<0.2	<0.2	0
Dichlorprop (2,4-DP)	mg/kg	<0.2	<0.2	0
2,4-D	mg/kg	<0.2	<0.2	0
2,4,5-TP (Silvex, Fenopop)	mg/kg	<0.2	<0.2	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Ctr
Fortitude Valley
QLD 4006



2,4,5-T	mg/kg	<0.2	<0.2	0
Dinoseb	mg/kg	<0.2	<0.2	0
2,6-D	mg/kg	<0.2	<0.2	0
2,4,6-trichlorophenoxyacetic acid	mg/kg	<0.2	<0.2	0
Bromoxynil	mg/kg	<0.2	<0.2	0
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	<0.5	<0.5	0
Clopyralid	mg/kg	<0.2	<0.2	0
Fluroxypyr	mg/kg	<0.2	<0.2	0
Ioxynil	mg/kg	<0.5	<0.5	0
MCPB	mg/kg	<0.5	<0.5	0
Triclopyr	mg/kg	<0.2	<0.2	0
2,4-DB	mg/kg	<0.2	<0.2	0
Picloram	mg/kg	<0.5	<0.5	0
Arsenic, As	mg/kg	4	5	-22
Cadmium, Cd	mg/kg	0.1	0.1	0
Chromium, Cr	mg/kg	6.4	6.8	-6
Copper, Cu	mg/kg	14	11	24
Lead, Pb	mg/kg	10	11	-10
Nickel, Ni	mg/kg	<0.5	1.1	0
Zinc, Zn	mg/kg	5	3	50
Mercury	mg/kg	0.01	<0.01	0
Asbestos Detected	No unit	No	No	0
Estimated Fibres	%w/w	<0.01	<0.01	0

Table 5 – Relative Percentage Difference (RPD%) between duplicate samples BH14 5 (QA5)

		QA5	BH14 5 (QA 5)	
		29/2/2016	29/2/2016	
Analyte Name	Units	Result	Result	RPD %
Benzene	mg/kg	<0.1	<0.1	0
Toluene	mg/kg	<0.1	<0.1	0
Ethylbenzene	mg/kg	<0.1	<0.1	0
Total Xylenes	mg/kg	<0.3	<0.3	0
Total BTEX	mg/kg	<0.6	<0.6	0
Naphthalene	mg/kg	<0.1	<0.1	0
Dichlorodifluoromethane (CFC-12)	mg/kg	<1	<1	0
Chloromethane	mg/kg	<1	<1	0
Vinyl chloride (Chloroethene)	mg/kg	<0.1	<0.1	0
Bromomethane	mg/kg	<1	<1	0
Chloroethane	mg/kg	<1	<1	0
Trichlorofluoromethane	mg/kg	<1	<1	0
Acetone (2-propanone)	mg/kg	<10	<10	0
Iodomethane	mg/kg	<5	<5	0
1,1-dichloroethene	mg/kg	<0.1	<0.1	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



Acrylonitrile	mg/kg	<0.1	<0.1	0
Dichloromethane (Methylene chloride)	mg/kg	<0.5	<0.5	0
Allyl chloride	mg/kg	<0.1	<0.1	0
Carbon disulfide	mg/kg	<0.5	<0.5	0
trans-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
MtBE (Methyl-tert-butyl ether)	mg/kg	<0.1	<0.1	0
1,1-dichloroethane	mg/kg	<0.1	<0.1	0
Vinyl acetate	mg/kg	<10	<10	0
MEK (2-butanone)	mg/kg	<10	<10	0
cis-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
Bromochloromethane	mg/kg	<0.1	<0.1	0
Chloroform	mg/kg	<0.1	<0.1	0
2,2-dichloropropane	mg/kg	<0.1	<0.1	0
1,2-dichloroethane	mg/kg	<0.1	<0.1	0
1,1,1-trichloroethane	mg/kg	<0.1	<0.1	0
1,1-dichloropropene	mg/kg	<0.1	<0.1	0
Carbon tetrachloride	mg/kg	<0.1	<0.1	0
Dibromomethane	mg/kg	<0.1	<0.1	0
1,2-dichloropropane	mg/kg	<0.1	<0.1	0
Trichloroethene (Trichloroethylene -TCE)	mg/kg	<0.1	<0.1	0
2-nitropropane	mg/kg	<10	<10	0
Bromodichloromethane	mg/kg	<0.1	<0.1	0
MIBK (4-methyl-2-pentanone)	mg/kg	<1	<1	0
cis-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
trans-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
1,1,2-trichloroethane	mg/kg	<0.1	<0.1	0
1,3-dichloropropane	mg/kg	<0.1	<0.1	0
Chlorodibromomethane	mg/kg	<0.1	<0.1	0
2-hexanone (MBK)	mg/kg	<5	<5	0
1,2-dibromoethane (EDB)	mg/kg	<0.1	<0.1	0
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	<0.1	<0.1	0
1,1,1,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
Chlorobenzene	mg/kg	<0.1	<0.1	0
Bromoform	mg/kg	<0.1	<0.1	0
cis-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Styrene (Vinyl benzene)	mg/kg	<0.1	<0.1	0
1,1,2,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
1,2,3-trichloropropane	mg/kg	<0.1	<0.1	0
trans-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Isopropylbenzene (Cumene)	mg/kg	<0.1	<0.1	0
Bromobenzene	mg/kg	<0.1	<0.1	0
n-propylbenzene	mg/kg	<0.1	<0.1	0
2-chlorotoluene	mg/kg	<0.1	<0.1	0
4-chlorotoluene	mg/kg	<0.1	<0.1	0
1,3,5-trimethylbenzene	mg/kg	<0.1	<0.1	0
tert-butylbenzene	mg/kg	<0.1	<0.1	0
1,2,4-trimethylbenzene	mg/kg	<0.1	<0.1	0
sec-butylbenzene	mg/kg	<0.1	<0.1	0
1,3-dichlorobenzene	mg/kg	<0.1	<0.1	0
1,4-dichlorobenzene	mg/kg	<0.1	<0.1	0
p-isopropyltoluene	mg/kg	<0.1	<0.1	0
1,2-dichlorobenzene	mg/kg	<0.1	<0.1	0
n-butylbenzene	mg/kg	<0.1	<0.1	0
1,2-dibromo-3-chloropropane	mg/kg	<0.1	<0.1	0
1,2,4-trichlorobenzene	mg/kg	<0.1	<0.1	0
Hexachlorobutadiene	mg/kg	<0.1	<0.1	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
 T 1300 30 40 80
 F 1300 64 46 89
 E info@sesl.com.au
 W sesl.com.au

POST
 PO Box 357
 Pennant Hills
 NSW 1715

LAB
 16 Chilvers Rd
 Thornleigh
 NSW 2120

ACT
 Level 5
 7 London Cct
 Canberra
 ACT 2601

VIC
 Level 1
 88 Mt Alexander Rd
 Flemington
 VIC 3031

QLD
 Level 10
 15 Green Square Cl
 Fortitude Valley
 QLD 4006



1,2,3-trichlorobenzene	mg/kg	<0.1	<0.1	0
Total VOC	mg/kg	N/A	N.A.	0
TRH C6-C9	mg/kg	<20	<20	0
Benzene (F0)	mg/kg	<0.1	<0.1	0
TRH C6-C10	mg/kg	<25	<25	0
TRH C6-C10 minus BTEX (F1)	mg/kg	<25	<25	0
TRH C10-C14	mg/kg	<20	<20	0
TRH C15-C28	mg/kg	<45	<45	0
TRH C29-C36	mg/kg	<45	<45	0
TRH C37-C40	mg/kg	<100	<100	0
TRH >C10-C16 (F2)	mg/kg	<25	<25	0
TRH >C10-C16 (F2) - Naphthalene	mg/kg	<25	<25	0
TRH >C16-C34 (F3)	mg/kg	<90	<90	0
TRH >C34-C40 (F4)	mg/kg	<120	<120	0
TRH C10-C36 Total	mg/kg	<110	<110	0
TRH C10-C40 Total	mg/kg	<210	<210	0
Naphthalene	mg/kg	<0.1	<0.1	0
2-methylnaphthalene	mg/kg	<0.1	<0.1	0
1-methylnaphthalene	mg/kg	<0.1	<0.1	0
Acenaphthylene	mg/kg	<0.1	<0.1	0
Acenaphthene	mg/kg	<0.1	<0.1	0
Fluorene	mg/kg	<0.1	<0.1	0
Phenanthrene	mg/kg	<0.1	<0.1	0
Anthracene	mg/kg	<0.1	<0.1	0
Fluoranthene	mg/kg	<0.1	<0.1	0
Pyrene	mg/kg	<0.1	<0.1	0
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0
Chrysene	mg/kg	<0.1	<0.1	0
Benzo(b&j)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(k)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(a)pyrene	mg/kg	<0.1	<0.1	0
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	<0.1	0
Dibenzo(a&h)anthracene	mg/kg	<0.1	<0.1	0
Benzo(ghi)perylene	mg/kg	<0.1	<0.1	0
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	<0.2	<0.2	0
Total PAH (18)	mg/kg	<0.8	<0.8	0
Hexachlorobenzene (HCB)	mg/kg	<0.1	<0.1	0
Alpha BHC	mg/kg	<0.1	<0.1	0
Lindane	mg/kg	<0.1	<0.1	0
Heptachlor	mg/kg	<0.1	<0.1	0
Aldrin	mg/kg	<0.1	<0.1	0
Beta BHC	mg/kg	<0.1	<0.1	0
Delta BHC	mg/kg	<0.1	<0.1	0
Heptachlor epoxide	mg/kg	<0.1	<0.1	0
o,p'-DDE	mg/kg	<0.1	<0.1	0
Alpha Endosulfan	mg/kg	<0.2	<0.2	0
Gamma Chlordane	mg/kg	<0.1	<0.1	0
Alpha Chlordane	mg/kg	<0.1	<0.1	0
trans-Nonachlor	mg/kg	<0.1	<0.1	0
p,p'-DDE	mg/kg	<0.1	<0.1	0
Dieldrin	mg/kg	<0.2	<0.2	0
Endrin	mg/kg	<0.2	<0.2	0
o,p'-DDD	mg/kg	<0.1	<0.1	0
o,p'-DDT	mg/kg	<0.1	<0.1	0
Beta Endosulfan	mg/kg	<0.2	<0.2	0
p,p'-DDD	mg/kg	<0.1	<0.1	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



p,p'-DDT	mg/kg	<0.1	<0.1	0
Endosulfan sulphate	mg/kg	<0.1	<0.1	0
Endrin Aldehyde	mg/kg	<0.1	<0.1	0
Methoxychlor	mg/kg	<0.1	<0.1	0
Endrin Ketone	mg/kg	<0.1	<0.1	0
Isodrin	mg/kg	<0.1	<0.1	0
Mirex	mg/kg	<0.1	<0.1	0
Dichlorvos	mg/kg	<0.5	<0.5	0
Dimethoate	mg/kg	<0.5	<0.5	0
Diazinon (Dimpylate)	mg/kg	<0.5	<0.5	0
Fenitrothion	mg/kg	<0.2	<0.2	0
Malathion	mg/kg	<0.2	<0.2	0
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	<0.2	<0.2	0
Parathion-ethyl (Parathion)	mg/kg	<0.2	<0.2	0
Bromophos Ethyl	mg/kg	<0.2	<0.2	0
Methidathion	mg/kg	<0.5	<0.5	0
Ethion	mg/kg	<0.2	<0.2	0
Azinphos-methyl (Guthion)	mg/kg	<0.2	<0.2	0
Arochlor 1016	mg/kg	<0.2	<0.2	0
Arochlor 1221	mg/kg	<0.2	<0.2	0
Arochlor 1232	mg/kg	<0.2	<0.2	0
Arochlor 1242	mg/kg	<0.2	<0.2	0
Arochlor 1248	mg/kg	<0.2	<0.2	0
Arochlor 1254	mg/kg	<0.2	<0.2	0
Arochlor 1260	mg/kg	<0.2	<0.2	0
Arochlor 1262	mg/kg	<0.2	<0.2	0
Arochlor 1268	mg/kg	<0.2	<0.2	0
Total PCBs (Arochlors)	mg/kg	<1	<1	0
Dicamba	mg/kg	<0.2	<0.2	0
MCPP (Mecoprop)	mg/kg	<0.2	<0.2	0
MCPA	mg/kg	<0.2	<0.2	0
Dichlorprop (2,4-DP)	mg/kg	<0.2	<0.2	0
2,4-D	mg/kg	<0.2	<0.2	0
2,4,5-TP (Silvex, Fenopop)	mg/kg	<0.2	<0.2	0
2,4,5-T	mg/kg	<0.2	<0.2	0
Dinoseb	mg/kg	<0.2	<0.2	0
2,6-D	mg/kg	<0.2	<0.2	0
2,4,6-trichlorophenoxyacetic acid	mg/kg	<0.2	<0.2	0
Bromoxynil	mg/kg	<0.2	<0.2	0
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	<0.5	<0.5	0
Clopyralid	mg/kg	<0.2	<0.2	0
Fluroxypyr	mg/kg	<0.2	<0.2	0
Ioxynil	mg/kg	<0.5	<0.5	0
MCPB	mg/kg	<0.5	<0.5	0
Triclopyr	mg/kg	<0.2	<0.2	0
2,4-DB	mg/kg	<0.2	<0.2	0
Picloram	mg/kg	<0.5	<0.5	0
Arsenic, As	mg/kg	8	9	-12
Cadmium, Cd	mg/kg	0.3	0.3	0
Chromium, Cr	mg/kg	6.6	6.4	3
Copper, Cu	mg/kg	26	26	0
Lead, Pb	mg/kg	18	18	0
Nickel, Ni	mg/kg	1.8	1.1	48
Zinc, Zn	mg/kg	14	11	24
Mercury	mg/kg	<0.01	<0.01	0
Asbestos Detected	No unit	No	No	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Estimated Fibres	%w/w	<0.01	<0.01	0
------------------	------	-------	-------	---

Table 6 – Relative Percentage Difference (RPD%) between duplicate samples BH16 2 (QA6)

Analyte Name	Units	QA6	BH16 2 (QA6)	RPD %
		29/2/2016	29/2/2016	
Analyte Name	Units	Result	Result	RPD %
Benzene	mg/kg	<0.1	<0.1	0
Toluene	mg/kg	<0.1	<0.1	0
Ethylbenzene	mg/kg	<0.1	<0.1	0
Total Xylenes	mg/kg	<0.3	<0.3	0
Total BTEX	mg/kg	<0.6	<0.6	0
Naphthalene	mg/kg	<0.1	<0.1	0
Dichlorodifluoromethane (CFC-12)	mg/kg	<1	<1	0
Chloromethane	mg/kg	<1	<1	0
Vinyl chloride (Chloroethene)	mg/kg	<0.1	<0.1	0
Bromomethane	mg/kg	<1	<1	0
Chloroethane	mg/kg	<1	<1	0
Trichlorofluoromethane	mg/kg	<1	<1	0
Acetone (2-propanone)	mg/kg	<10	<10	0
Iodomethane	mg/kg	<5	<5	0
1,1-dichloroethene	mg/kg	<0.1	<0.1	0
Acrylonitrile	mg/kg	<0.1	<0.1	0
Dichloromethane (Methylene chloride)	mg/kg	<0.5	<0.5	0
Allyl chloride	mg/kg	<0.1	<0.1	0
Carbon disulfide	mg/kg	<0.5	<0.5	0
trans-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
MtBE (Methyl-tert-butyl ether)	mg/kg	<0.1	<0.1	0
1,1-dichloroethane	mg/kg	<0.1	<0.1	0
Vinyl acetate	mg/kg	<10	<10	0
MEK (2-butanone)	mg/kg	<10	<10	0
cis-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
Bromochloromethane	mg/kg	<0.1	<0.1	0
Chloroform	mg/kg	<0.1	<0.1	0
2,2-dichloropropane	mg/kg	<0.1	<0.1	0
1,2-dichloroethane	mg/kg	<0.1	<0.1	0
1,1,1-trichloroethane	mg/kg	<0.1	<0.1	0
1,1-dichloropropene	mg/kg	<0.1	<0.1	0
Carbon tetrachloride	mg/kg	<0.1	<0.1	0
Dibromomethane	mg/kg	<0.1	<0.1	0
1,2-dichloropropane	mg/kg	<0.1	<0.1	0
Trichloroethene (Trichloroethylene -TCE)	mg/kg	<0.1	<0.1	0
2-nitropropane	mg/kg	<10	<10	0
Bromodichloromethane	mg/kg	<0.1	<0.1	0
MIBK (4-methyl-2-pentanone)	mg/kg	<1	<1	0
cis-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
trans-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
1,1,2-trichloroethane	mg/kg	<0.1	<0.1	0
1,3-dichloropropane	mg/kg	<0.1	<0.1	0
Chlorodibromomethane	mg/kg	<0.1	<0.1	0
2-hexanone (MBK)	mg/kg	<5	<5	0
1,2-dibromoethane (EDB)	mg/kg	<0.1	<0.1	0
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	<0.1	<0.1	0
1,1,1,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
Chlorobenzene	mg/kg	<0.1	<0.1	0
Bromoform	mg/kg	<0.1	<0.1	0
cis-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Styrene (Vinyl benzene)	mg/kg	<0.1	<0.1	0

1,1,2,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
1,2,3-trichloropropane	mg/kg	<0.1	<0.1	0
trans-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Isopropylbenzene (Cumene)	mg/kg	<0.1	<0.1	0
Bromobenzene	mg/kg	<0.1	<0.1	0
n-propylbenzene	mg/kg	<0.1	<0.1	0
2-chlorotoluene	mg/kg	<0.1	<0.1	0
4-chlorotoluene	mg/kg	<0.1	<0.1	0
1,3,5-trimethylbenzene	mg/kg	<0.1	<0.1	0
tert-butylbenzene	mg/kg	<0.1	<0.1	0
1,2,4-trimethylbenzene	mg/kg	<0.1	<0.1	0
sec-butylbenzene	mg/kg	<0.1	<0.1	0
1,3-dichlorobenzene	mg/kg	<0.1	<0.1	0
1,4-dichlorobenzene	mg/kg	<0.1	<0.1	0
p-isopropyltoluene	mg/kg	<0.1	<0.1	0
1,2-dichlorobenzene	mg/kg	<0.1	<0.1	0
n-butylbenzene	mg/kg	<0.1	<0.1	0
1,2-dibromo-3-chloropropane	mg/kg	<0.1	<0.1	0
1,2,4-trichlorobenzene	mg/kg	<0.1	<0.1	0
Hexachlorobutadiene	mg/kg	<0.1	<0.1	0
1,2,3-trichlorobenzene	mg/kg	<0.1	<0.1	0
Total VOC	mg/kg	N/A	N.A.	0
TRH C6-C9	mg/kg	<20	<20	0
Benzene (F0)	mg/kg	<0.1	<0.1	0
TRH C6-C10	mg/kg	<25	<25	0
TRH C6-C10 minus BTEX (F1)	mg/kg	<25	<25	0
TRH C10-C14	mg/kg	<20	<20	0
TRH C15-C28	mg/kg	<45	<45	0
TRH C29-C36	mg/kg	<45	<45	0
TRH C37-C40	mg/kg	<100	<100	0
TRH >C10-C16 (F2)	mg/kg	<25	<25	0
TRH >C10-C16 (F2) - Naphthalene	mg/kg	<25	<25	0
TRH >C16-C34 (F3)	mg/kg	<90	<90	0
TRH >C34-C40 (F4)	mg/kg	<120	<120	0
TRH C10-C36 Total	mg/kg	<110	<110	0
TRH C10-C40 Total	mg/kg	<210	<210	0
Naphthalene	mg/kg	<0.1	<0.1	0
2-methylnaphthalene	mg/kg	<0.1	<0.1	0
1-methylnaphthalene	mg/kg	<0.1	<0.1	0
Acenaphthylene	mg/kg	<0.1	<0.1	0
Acenaphthene	mg/kg	<0.1	<0.1	0
Fluorene	mg/kg	<0.1	<0.1	0
Phenanthrene	mg/kg	<0.1	<0.1	0
Anthracene	mg/kg	<0.1	<0.1	0
Fluoranthene	mg/kg	<0.1	<0.1	0
Pyrene	mg/kg	<0.1	<0.1	0
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0
Chrysene	mg/kg	<0.1	<0.1	0
Benzo(b&j)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(k)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(a)pyrene	mg/kg	<0.1	<0.1	0
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	<0.1	0
Dibenzo(a&h)anthracene	mg/kg	<0.1	<0.1	0
Benzo(ghi)perylene	mg/kg	<0.1	<0.1	0
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	<0.2	<0.2	0
Total PAH (18)	mg/kg	<0.8	<0.8	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Hexachlorobenzene (HCB)	mg/kg	<0.1	<0.1	0
Alpha BHC	mg/kg	<0.1	<0.1	0
Lindane	mg/kg	<0.1	<0.1	0
Heptachlor	mg/kg	<0.1	<0.1	0
Aldrin	mg/kg	<0.1	<0.1	0
Beta BHC	mg/kg	<0.1	<0.1	0
Delta BHC	mg/kg	<0.1	<0.1	0
Heptachlor epoxide	mg/kg	<0.1	<0.1	0
o,p'-DDE	mg/kg	<0.1	<0.1	0
Alpha Endosulfan	mg/kg	<0.2	<0.2	0
Gamma Chlordane	mg/kg	<0.1	<0.1	0
Alpha Chlordane	mg/kg	<0.1	<0.1	0
trans-Nonachlor	mg/kg	<0.1	<0.1	0
p,p'-DDE	mg/kg	<0.1	<0.1	0
Dieldrin	mg/kg	<0.2	<0.2	0
Endrin	mg/kg	<0.2	<0.2	0
o,p'-DDD	mg/kg	<0.1	<0.1	0
o,p'-DDT	mg/kg	<0.1	<0.1	0
Beta Endosulfan	mg/kg	<0.2	<0.2	0
p,p'-DDD	mg/kg	<0.1	<0.1	0
p,p'-DDT	mg/kg	<0.1	<0.1	0
Endosulfan sulphate	mg/kg	<0.1	<0.1	0
Endrin Aldehyde	mg/kg	<0.1	<0.1	0
Methoxychlor	mg/kg	<0.1	<0.1	0
Endrin Ketone	mg/kg	<0.1	<0.1	0
Isodrin	mg/kg	<0.1	<0.1	0
Mirex	mg/kg	<0.1	<0.1	0
Dichlorvos	mg/kg	<0.5	<0.5	0
Dimethoate	mg/kg	<0.5	<0.5	0
Diazinon (Dimpylate)	mg/kg	<0.5	<0.5	0
Fenitrothion	mg/kg	<0.2	<0.2	0
Malathion	mg/kg	<0.2	<0.2	0
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	<0.2	<0.2	0
Parathion-ethyl (Parathion)	mg/kg	<0.2	<0.2	0
Bromophos Ethyl	mg/kg	<0.2	<0.2	0
Methidathion	mg/kg	<0.5	<0.5	0
Ethion	mg/kg	<0.2	<0.2	0
Azinphos-methyl (Guthion)	mg/kg	<0.2	<0.2	0
Arochlor 1016	mg/kg	<0.2	<0.2	0
Arochlor 1221	mg/kg	<0.2	<0.2	0
Arochlor 1232	mg/kg	<0.2	<0.2	0
Arochlor 1242	mg/kg	<0.2	<0.2	0
Arochlor 1248	mg/kg	<0.2	<0.2	0
Arochlor 1254	mg/kg	<0.2	<0.2	0
Arochlor 1260	mg/kg	<0.2	<0.2	0
Arochlor 1262	mg/kg	<0.2	<0.2	0
Arochlor 1268	mg/kg	<0.2	<0.2	0
Total PCBs (Arochlors)	mg/kg	<1	<1	0
Dicamba	mg/kg	<0.2	<0.2	0
MCP (Mecoprop)	mg/kg	<0.2	<0.2	0
MCPA	mg/kg	<0.2	<0.2	0
Dichlorprop (2,4-DP)	mg/kg	<0.2	<0.2	0
2,4-D	mg/kg	<0.2	<0.2	0
2,4,5-TP (Silvex, Fenopop)	mg/kg	<0.2	<0.2	0
2,4,5-T	mg/kg	<0.2	<0.2	0
Dinoseb	mg/kg	<0.2	<0.2	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



2,6-D	mg/kg	<0.2	<0.2	0
2,4,6-trichlorophenoxyacetic acid	mg/kg	<0.2	<0.2	0
Bromoxynil	mg/kg	<0.2	<0.2	0
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	<0.5	<0.5	0
Clopyralid	mg/kg	<0.2	<0.2	0
Fluroxypyr	mg/kg	<0.2	<0.2	0
Ioxynil	mg/kg	<0.5	<0.5	0
MCPB	mg/kg	<0.5	<0.5	0
Triclopyr	mg/kg	<0.2	<0.2	0
2,4-DB	mg/kg	<0.2	<0.2	0
Picloram	mg/kg	<0.5	<0.5	0
Arsenic, As	mg/kg	5	6	-18
Cadmium, Cd	mg/kg	0.2	0.2	0
Chromium, Cr	mg/kg	9.0	7.7	16
Copper, Cu	mg/kg	4.0	3.3	19
Lead, Pb	mg/kg	15	20	-29
Nickel, Ni	mg/kg	<0.5	<0.5	0
Zinc, Zn	mg/kg	6	5	18
Mercury	mg/kg	0.01	0.01	0
Asbestos Detected	No unit	No	No	0
Estimated Fibres	%w/w	<0.01	<0.01	0

Table 7 – Relative Percentage Difference (RPD%) between duplicate samples BH1 7 (QA7)

		QA7	BH1 7 (QA 7)	
		29/2/2016	29/2/2016	
Analyte Name	Units	Result	Result	RPD %
Benzene	mg/kg	<0.1	<0.1	0
Toluene	mg/kg	<0.1	<0.1	0
Ethylbenzene	mg/kg	<0.1	<0.1	0
Total Xylenes	mg/kg	<0.3	<0.3	0
Total BTEX	mg/kg	<0.6	<0.6	0
Naphthalene	mg/kg	<0.1	<0.1	0
Dichlorodifluoromethane (CFC-12)	mg/kg	<1	<1	0
Chloromethane	mg/kg	<1	<1	0
Vinyl chloride (Chloroethene)	mg/kg	<0.1	<0.1	0
Bromomethane	mg/kg	<1	<1	0
Chloroethane	mg/kg	<1	<1	0
Trichlorofluoromethane	mg/kg	<1	<1	0
Acetone (2-propanone)	mg/kg	<10	<10	0
Iodomethane	mg/kg	<5	<5	0
1,1-dichloroethene	mg/kg	<0.1	<0.1	0
Acrylonitrile	mg/kg	<0.1	<0.1	0
Dichloromethane (Methylene chloride)	mg/kg	<0.5	<0.5	0
Allyl chloride	mg/kg	<0.1	<0.1	0
Carbon disulfide	mg/kg	<0.5	<0.5	0
trans-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
MtBE (Methyl-tert-butyl ether)	mg/kg	<0.1	<0.1	0
1,1-dichloroethane	mg/kg	<0.1	<0.1	0
Vinyl acetate	mg/kg	<10	<10	0
MEK (2-butanone)	mg/kg	<10	<10	0
cis-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
Bromochloromethane	mg/kg	<0.1	<0.1	0
Chloroform	mg/kg	<0.1	<0.1	0
2,2-dichloropropane	mg/kg	<0.1	<0.1	0
1,2-dichloroethane	mg/kg	<0.1	<0.1	0
1,1,1-trichloroethane	mg/kg	<0.1	<0.1	0
1,1-dichloropropene	mg/kg	<0.1	<0.1	0
Carbon tetrachloride	mg/kg	<0.1	<0.1	0
Dibromomethane	mg/kg	<0.1	<0.1	0
1,2-dichloropropane	mg/kg	<0.1	<0.1	0
Trichloroethene (Trichloroethylene -TCE)	mg/kg	<0.1	<0.1	0
2-nitropropane	mg/kg	<10	<10	0
Bromodichloromethane	mg/kg	<0.1	<0.1	0
MIBK (4-methyl-2-pentanone)	mg/kg	<1	<1	0
cis-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
trans-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
1,1,2-trichloroethane	mg/kg	<0.1	<0.1	0
1,3-dichloropropane	mg/kg	<0.1	<0.1	0
Chlorodibromomethane	mg/kg	<0.1	<0.1	0
2-hexanone (MBK)	mg/kg	<5	<5	0
1,2-dibromoethane (EDB)	mg/kg	<0.1	<0.1	0
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	<0.1	<0.1	0
1,1,1,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
Chlorobenzene	mg/kg	<0.1	<0.1	0
Bromoform	mg/kg	<0.1	<0.1	0
cis-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Styrene (Vinyl benzene)	mg/kg	<0.1	<0.1	0

1,1,2,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
1,2,3-trichloropropane	mg/kg	<0.1	<0.1	0
trans-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Isopropylbenzene (Cumene)	mg/kg	<0.1	<0.1	0
Bromobenzene	mg/kg	<0.1	<0.1	0
n-propylbenzene	mg/kg	<0.1	<0.1	0
2-chlorotoluene	mg/kg	<0.1	<0.1	0
4-chlorotoluene	mg/kg	<0.1	<0.1	0
1,3,5-trimethylbenzene	mg/kg	<0.1	<0.1	0
tert-butylbenzene	mg/kg	<0.1	<0.1	0
1,2,4-trimethylbenzene	mg/kg	<0.1	<0.1	0
sec-butylbenzene	mg/kg	<0.1	<0.1	0
1,3-dichlorobenzene	mg/kg	<0.1	<0.1	0
1,4-dichlorobenzene	mg/kg	<0.1	<0.1	0
p-isopropyltoluene	mg/kg	<0.1	<0.1	0
1,2-dichlorobenzene	mg/kg	<0.1	<0.1	0
n-butylbenzene	mg/kg	<0.1	<0.1	0
1,2-dibromo-3-chloropropane	mg/kg	<0.1	<0.1	0
1,2,4-trichlorobenzene	mg/kg	<0.1	<0.1	0
Hexachlorobutadiene	mg/kg	<0.1	<0.1	0
1,2,3-trichlorobenzene	mg/kg	<0.1	<0.1	0
Total VOC	mg/kg	N/A	N/A	0
TRH C6-C9	mg/kg	<20	<20	0
Benzene (F0)	mg/kg	<0.1	<0.1	0
TRH C6-C10	mg/kg	<25	<25	0
TRH C6-C10 minus BTEX (F1)	mg/kg	<25	<25	0
TRH C10-C14	mg/kg	<20	<20	0
TRH C15-C28	mg/kg	<45	<45	0
TRH C29-C36	mg/kg	<45	<45	0
TRH C37-C40	mg/kg	<100	<100	0
TRH >C10-C16 (F2)	mg/kg	<25	<25	0
TRH >C10-C16 (F2) - Naphthalene	mg/kg	<25	<25	0
TRH >C16-C34 (F3)	mg/kg	<90	<90	0
TRH >C34-C40 (F4)	mg/kg	<120	<120	0
TRH C10-C36 Total	mg/kg	<110	<110	0
TRH C10-C40 Total	mg/kg	<210	<210	0
Naphthalene	mg/kg	<0.1	<0.1	0
2-methylnaphthalene	mg/kg	<0.1	<0.1	0
1-methylnaphthalene	mg/kg	<0.1	<0.1	0
Acenaphthylene	mg/kg	<0.1	<0.1	0
Acenaphthene	mg/kg	<0.1	<0.1	0
Fluorene	mg/kg	<0.1	<0.1	0
Phenanthrene	mg/kg	0.2	0.1	67
Anthracene	mg/kg	<0.1	<0.1	0
Fluoranthene	mg/kg	0.4	0.3	29
Pyrene	mg/kg	0.4	0.4	0
Benzo(a)anthracene	mg/kg	0.2	0.1	67
Chrysene	mg/kg	0.2	0.1	67
Benzo(b&j)fluoranthene	mg/kg	0.2	0.2	0
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0
Benzo(a)pyrene	mg/kg	0.1	0.2	-67
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0
Dibenzo(a&h)anthracene	mg/kg	<0.1	<0.1	0
Benzo(ghi)perylene	mg/kg	0.1	<0.1	0
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	0.2	0
Total PAH (18)	mg/kg	2.1	1.4	40

Hexachlorobenzene (HCB)	mg/kg	<0.1	<0.1	0
Alpha BHC	mg/kg	<0.1	<0.1	0
Lindane	mg/kg	<0.1	<0.1	0
Heptachlor	mg/kg	<0.1	<0.1	0
Aldrin	mg/kg	<0.1	<0.1	0
Beta BHC	mg/kg	<0.1	<0.1	0
Delta BHC	mg/kg	<0.1	<0.1	0
Heptachlor epoxide	mg/kg	<0.1	<0.1	0
o,p'-DDE	mg/kg	<0.1	<0.1	0
Alpha Endosulfan	mg/kg	<0.2	<0.2	0
Gamma Chlordane	mg/kg	<0.1	<0.1	0
Alpha Chlordane	mg/kg	<0.1	<0.1	0
trans-Nonachlor	mg/kg	<0.1	<0.1	0
p,p'-DDE	mg/kg	<0.1	<0.1	0
Dieldrin	mg/kg	<0.2	<0.2	0
Endrin	mg/kg	<0.2	<0.2	0
o,p'-DDD	mg/kg	<0.1	<0.1	0
o,p'-DDT	mg/kg	<0.1	<0.1	0
Beta Endosulfan	mg/kg	<0.2	<0.2	0
p,p'-DDD	mg/kg	<0.1	<0.1	0
p,p'-DDT	mg/kg	<0.1	<0.1	0
Endosulfan sulphate	mg/kg	<0.1	<0.1	0
Endrin Aldehyde	mg/kg	<0.1	<0.1	0
Methoxychlor	mg/kg	<0.1	<0.1	0
Endrin Ketone	mg/kg	<0.1	<0.1	0
Isodrin	mg/kg	<0.1	<0.1	0
Mirex	mg/kg	<0.1	<0.1	0
Dichlorvos	mg/kg	<0.5	<0.5	0
Dimethoate	mg/kg	<0.5	<0.5	0
Diazinon (Dimpylate)	mg/kg	<0.5	<0.5	0
Fenitrothion	mg/kg	<0.2	<0.2	0
Malathion	mg/kg	<0.2	<0.2	0
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	<0.2	<0.2	0
Parathion-ethyl (Parathion)	mg/kg	<0.2	<0.2	0
Bromophos Ethyl	mg/kg	<0.2	<0.2	0
Methidathion	mg/kg	<0.5	<0.5	0
Ethion	mg/kg	<0.2	<0.2	0
Azinphos-methyl (Guthion)	mg/kg	<0.2	<0.2	0
Arochlor 1016	mg/kg	<0.2	<0.2	0
Arochlor 1221	mg/kg	<0.2	<0.2	0
Arochlor 1232	mg/kg	<0.2	<0.2	0
Arochlor 1242	mg/kg	<0.2	<0.2	0
Arochlor 1248	mg/kg	<0.2	<0.2	0
Arochlor 1254	mg/kg	<0.2	<0.2	0
Arochlor 1260	mg/kg	<0.2	<0.2	0
Arochlor 1262	mg/kg	<0.2	<0.2	0
Arochlor 1268	mg/kg	<0.2	<0.2	0
Total PCBs (Arochlors)	mg/kg	<1	<1	0
Dicamba	mg/kg	<0.2	<0.2	0
MCP (Mecoprop)	mg/kg	<0.2	<0.2	0
MCPA	mg/kg	<0.2	<0.2	0
Dichlorprop (2,4-DP)	mg/kg	<0.2	<0.2	0
2,4-D	mg/kg	<0.2	<0.2	0
2,4,5-TP (Silvex, Fenopop)	mg/kg	<0.2	<0.2	0
2,4,5-T	mg/kg	<0.2	<0.2	0
Dinoseb	mg/kg	<0.2	<0.2	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



2,6-D	mg/kg	<0.2	<0.2	0
2,4,6-trichlorophenoxyacetic acid	mg/kg	<0.2	<0.2	0
Bromoxynil	mg/kg	<0.2	<0.2	0
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	<0.5	<0.5	0
Clopyralid	mg/kg	<0.2	<0.2	0
Fluroxypyr	mg/kg	<0.2	<0.2	0
Ioxynil	mg/kg	<0.5	<0.5	0
MCPB	mg/kg	<0.5	<0.5	0
Triclopyr	mg/kg	<0.2	<0.2	0
2,4-DB	mg/kg	<0.2	<0.2	0
Picloram	mg/kg	<0.5	<0.5	0
Arsenic, As	mg/kg	5	5	0
Cadmium, Cd	mg/kg	0.3	0.3	0
Chromium, Cr	mg/kg	13	12	8
Copper, Cu	mg/kg	14	14	0
Lead, Pb	mg/kg	35	35	0
Nickel, Ni	mg/kg	5.3	6.8	-25
Zinc, Zn	mg/kg	48	50	-4
Mercury	mg/kg	0.03	0.03	0
Asbestos Detected	No unit	No	No	0
Estimated Fibres	%w/w	<0.01	<0.01	0

Table 8 – Relative Percentage Difference (RPD%) between duplicate samples BH8 2.5 (QA8)

Analyte Name	Units	BH8 2.5 (QA 8)		RPD %
		29/2/2016	29/2/2016	
Benzene	mg/kg	<0.1	<0.1	0
Toluene	mg/kg	<0.1	<0.1	0
Ethylbenzene	mg/kg	<0.1	<0.1	0
Total Xylenes	mg/kg	<0.3	<0.3	0
Total BTEX	mg/kg	<0.6	<0.6	0
Naphthalene	mg/kg	<0.1	<0.1	0
Dichlorodifluoromethane (CFC-12)	mg/kg	<1	<1	0
Chloromethane	mg/kg	<1	<1	0
Vinyl chloride (Chloroethene)	mg/kg	<0.1	<0.1	0
Bromomethane	mg/kg	<1	<1	0
Chloroethane	mg/kg	<1	<1	0
Trichlorofluoromethane	mg/kg	<1	<1	0
Acetone (2-propanone)	mg/kg	<10	<10	0
Iodomethane	mg/kg	<5	<5	0
1,1-dichloroethene	mg/kg	<0.1	<0.1	0
Acrylonitrile	mg/kg	<0.1	<0.1	0
Dichloromethane (Methylene chloride)	mg/kg	<0.5	<0.5	0
Allyl chloride	mg/kg	<0.1	<0.1	0
Carbon disulfide	mg/kg	<0.5	<0.5	0
trans-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
MtBE (Methyl-tert-butyl ether)	mg/kg	<0.1	<0.1	0
1,1-dichloroethane	mg/kg	<0.1	<0.1	0
Vinyl acetate	mg/kg	<10	<10	0
MEK (2-butanone)	mg/kg	<10	<10	0
cis-1,2-dichloroethene	mg/kg	<0.1	<0.1	0
Bromochloromethane	mg/kg	<0.1	<0.1	0
Chloroform	mg/kg	<0.1	<0.1	0
2,2-dichloropropane	mg/kg	<0.1	<0.1	0
1,2-dichloroethane	mg/kg	<0.1	<0.1	0
1,1,1-trichloroethane	mg/kg	<0.1	<0.1	0
1,1-dichloropropene	mg/kg	<0.1	<0.1	0
Carbon tetrachloride	mg/kg	<0.1	<0.1	0
Dibromomethane	mg/kg	<0.1	<0.1	0
1,2-dichloropropane	mg/kg	<0.1	<0.1	0
Trichloroethene (Trichloroethylene -TCE)	mg/kg	<0.1	<0.1	0
2-nitropropane	mg/kg	<10	<10	0
Bromodichloromethane	mg/kg	<0.1	<0.1	0
MIBK (4-methyl-2-pentanone)	mg/kg	<1	<1	0
cis-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
trans-1,3-dichloropropene	mg/kg	<0.1	<0.1	0
1,1,2-trichloroethane	mg/kg	<0.1	<0.1	0
1,3-dichloropropane	mg/kg	<0.1	<0.1	0
Chlorodibromomethane	mg/kg	<0.1	<0.1	0
2-hexanone (MBK)	mg/kg	<5	<5	0
1,2-dibromoethane (EDB)	mg/kg	<0.1	<0.1	0
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	<0.1	<0.1	0
1,1,1,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
Chlorobenzene	mg/kg	<0.1	<0.1	0
Bromoform	mg/kg	<0.1	<0.1	0
cis-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Styrene (Vinyl benzene)	mg/kg	<0.1	<0.1	0

1,1,2,2-tetrachloroethane	mg/kg	<0.1	<0.1	0
1,2,3-trichloropropane	mg/kg	<0.1	<0.1	0
trans-1,4-dichloro-2-butene	mg/kg	<1	<1	0
Isopropylbenzene (Cumene)	mg/kg	<0.1	<0.1	0
Bromobenzene	mg/kg	<0.1	<0.1	0
n-propylbenzene	mg/kg	<0.1	<0.1	0
2-chlorotoluene	mg/kg	<0.1	<0.1	0
4-chlorotoluene	mg/kg	<0.1	<0.1	0
1,3,5-trimethylbenzene	mg/kg	<0.1	<0.1	0
tert-butylbenzene	mg/kg	<0.1	<0.1	0
1,2,4-trimethylbenzene	mg/kg	<0.1	<0.1	0
sec-butylbenzene	mg/kg	<0.1	<0.1	0
1,3-dichlorobenzene	mg/kg	<0.1	<0.1	0
1,4-dichlorobenzene	mg/kg	<0.1	<0.1	0
p-isopropyltoluene	mg/kg	<0.1	<0.1	0
1,2-dichlorobenzene	mg/kg	<0.1	<0.1	0
n-butylbenzene	mg/kg	<0.1	<0.1	0
1,2-dibromo-3-chloropropane	mg/kg	<0.1	<0.1	0
1,2,4-trichlorobenzene	mg/kg	<0.1	<0.1	0
Hexachlorobutadiene	mg/kg	<0.1	<0.1	0
1,2,3-trichlorobenzene	mg/kg	<0.1	<0.1	0
Total VOC	mg/kg	N/A	N.A.	0
TRH C6-C9	mg/kg	<20	<20	0
Benzene (F0)	mg/kg	<0.1	<0.1	0
TRH C6-C10	mg/kg	<25	<25	0
TRH C6-C10 minus BTEX (F1)	mg/kg	<25	<25	0
TRH C10-C14	mg/kg	<20	<20	0
TRH C15-C28	mg/kg	<45	<45	0
TRH C29-C36	mg/kg	<45	<45	0
TRH C37-C40	mg/kg	<100	<100	0
TRH >C10-C16 (F2)	mg/kg	<25	<25	0
TRH >C10-C16 (F2) - Naphthalene	mg/kg	<25	<25	0
TRH >C16-C34 (F3)	mg/kg	<90	<90	0
TRH >C34-C40 (F4)	mg/kg	<120	<120	0
TRH C10-C36 Total	mg/kg	<110	<110	0
TRH C10-C40 Total	mg/kg	<210	<210	0
Naphthalene	mg/kg	<0.1	<0.1	0
2-methylnaphthalene	mg/kg	<0.1	<0.1	0
1-methylnaphthalene	mg/kg	<0.1	<0.1	0
Acenaphthylene	mg/kg	<0.1	<0.1	0
Acenaphthene	mg/kg	<0.1	<0.1	0
Fluorene	mg/kg	<0.1	<0.1	0
Phenanthrene	mg/kg	<0.1	<0.1	0
Anthracene	mg/kg	<0.1	<0.1	0
Fluoranthene	mg/kg	<0.1	<0.1	0
Pyrene	mg/kg	<0.1	<0.1	0
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0
Chrysene	mg/kg	<0.1	<0.1	0
Benzo(b&j)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(k)fluoranthene	mg/kg	<0.1	<0.1	0
Benzo(a)pyrene	mg/kg	<0.1	<0.1	0
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	<0.1	0
Dibenzo(a&h)anthracene	mg/kg	<0.1	<0.1	0
Benzo(ghi)perylene	mg/kg	<0.1	<0.1	0
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	<0.2	<0.2	0
Total PAH (18)	mg/kg	<0.8	<0.8	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



Hexachlorobenzene (HCB)	mg/kg	<0.1	<0.1	0
Alpha BHC	mg/kg	<0.1	<0.1	0
Lindane	mg/kg	<0.1	<0.1	0
Heptachlor	mg/kg	<0.1	<0.1	0
Aldrin	mg/kg	<0.1	<0.1	0
Beta BHC	mg/kg	<0.1	<0.1	0
Delta BHC	mg/kg	<0.1	<0.1	0
Heptachlor epoxide	mg/kg	<0.1	<0.1	0
o,p'-DDE	mg/kg	<0.1	<0.1	0
Alpha Endosulfan	mg/kg	<0.2	<0.2	0
Gamma Chlordane	mg/kg	<0.1	<0.1	0
Alpha Chlordane	mg/kg	<0.1	<0.1	0
trans-Nonachlor	mg/kg	<0.1	<0.1	0
p,p'-DDE	mg/kg	<0.1	<0.1	0
Dieldrin	mg/kg	<0.2	<0.2	0
Endrin	mg/kg	<0.2	<0.2	0
o,p'-DDD	mg/kg	<0.1	<0.1	0
o,p'-DDT	mg/kg	<0.1	<0.1	0
Beta Endosulfan	mg/kg	<0.2	<0.2	0
p,p'-DDD	mg/kg	<0.1	<0.1	0
p,p'-DDT	mg/kg	<0.1	<0.1	0
Endosulfan sulphate	mg/kg	<0.1	<0.1	0
Endrin Aldehyde	mg/kg	<0.1	<0.1	0
Methoxychlor	mg/kg	<0.1	<0.1	0
Endrin Ketone	mg/kg	<0.1	<0.1	0
Isodrin	mg/kg	<0.1	<0.1	0
Mirex	mg/kg	<0.1	<0.1	0
Dichlorvos	mg/kg	<0.5	<0.5	0
Dimethoate	mg/kg	<0.5	<0.5	0
Diazinon (Dimpylate)	mg/kg	<0.5	<0.5	0
Fenitrothion	mg/kg	<0.2	<0.2	0
Malathion	mg/kg	<0.2	<0.2	0
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	<0.2	<0.2	0
Parathion-ethyl (Parathion)	mg/kg	<0.2	<0.2	0
Bromophos Ethyl	mg/kg	<0.2	<0.2	0
Methidathion	mg/kg	<0.5	<0.5	0
Ethion	mg/kg	<0.2	<0.2	0
Azinphos-methyl (Guthion)	mg/kg	<0.2	<0.2	0
Arochlor 1016	mg/kg	<0.2	<0.2	0
Arochlor 1221	mg/kg	<0.2	<0.2	0
Arochlor 1232	mg/kg	<0.2	<0.2	0
Arochlor 1242	mg/kg	<0.2	<0.2	0
Arochlor 1248	mg/kg	<0.2	<0.2	0
Arochlor 1254	mg/kg	<0.2	<0.2	0
Arochlor 1260	mg/kg	<0.2	<0.2	0
Arochlor 1262	mg/kg	<0.2	<0.2	0
Arochlor 1268	mg/kg	<0.2	<0.2	0
Total PCBs (Arochlors)	mg/kg	<1	<1	0
Dicamba	mg/kg	<0.2	<0.2	0
MCP (Mecoprop)	mg/kg	<0.2	<0.2	0
MCPA	mg/kg	<0.2	<0.2	0
Dichlorprop (2,4-DP)	mg/kg	<0.2	<0.2	0
2,4-D	mg/kg	<0.2	<0.2	0
2,4,5-TP (Silvex, Fenopop)	mg/kg	<0.2	<0.2	0
2,4,5-T	mg/kg	<0.2	<0.2	0
Dinoseb	mg/kg	<0.2	<0.2	0

■ WATER ■ MINING ■ SPORTS & RECREATION ■ HORTICULTURE & AGRICULTURE ■ ENVIRONMENTAL ■ ENGINEERING & GEOTECH ■ URBAN HORTICULTURE & LANDSCAPING

ABN 70 106 810 708
T 1300 30 40 80
F 1300 64 46 89
E info@sesl.com.au
W sesl.com.au

POST
PO Box 357
Pennant Hills
NSW 1715

LAB
16 Chilvers Rd
Thornleigh
NSW 2120

ACT
Level 5
7 London Cct
Canberra
ACT 2601

VIC
Level 1
88 Mt Alexander Rd
Flemington
VIC 3031

QLD
Level 10
15 Green Square Cl
Fortitude Valley
QLD 4006



2,6-D	mg/kg	<0.2	<0.2	0
2,4,6-trichlorophenoxyacetic acid	mg/kg	<0.2	<0.2	0
Bromoxynil	mg/kg	<0.2	<0.2	0
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	<0.5	<0.5	0
Clopyralid	mg/kg	<0.2	<0.2	0
Fluroxypyr	mg/kg	<0.2	<0.2	0
Ioxynil	mg/kg	<0.5	<0.5	0
MCPB	mg/kg	<0.5	<0.5	0
Triclopyr	mg/kg	<0.2	<0.2	0
2,4-DB	mg/kg	<0.2	<0.2	0
Picloram	mg/kg	<0.5	<0.5	0
Arsenic, As	mg/kg	7	5	33
Cadmium, Cd	mg/kg	0.4	0.4	0
Chromium, Cr	mg/kg	24	18	29
Copper, Cu	mg/kg	12	11	9
Lead, Pb	mg/kg	170	180	-6
Nickel, Ni	mg/kg	4.1	3.2	25
Zinc, Zn	mg/kg	100	100	0
Mercury	mg/kg	0.08	0.04	67
Asbestos Detected	No unit	No	No	0
Estimated Fibres	%w/w	<0.01	<0.01	0

CLIENT DETAILS

Contact Harrison Leake
Client Sydney Environmental & Soil Laboratory Pty Ltd
Address

Telephone 02 9980 6554
Facsimile 02 9484 2427
Email subsamples@sesl.com.au
Project **38160 - COC No 21405**
Order Number **38160**
Samples 81

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com
SGS Reference **SE149556 R0**
Date Received 29/2/2016
Date Reported 8/3/2016

COMMENTS

Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all samples using trace analysis technique.

A portion of the sample supplied has been sub-sampled for asbestos according to SGS In-house procedures.
We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied.
SGS Environmental Services recommends supplying approximately 50-100g of sample in a separate container.

Sample #3: 2-4mm length fibre bundles x4 found loose in sample.
Sample #4: 2-5mm length fibre bundles x5 found loose in sample.
Sample #80: Insufficient sample provided for asbestos analysis.

Asbestos analysed by Approved Identifiers Ravee Sivasubramaniam and Yusuf Kuthpudin

SIGNATORIES



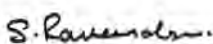
Andy Sutton
Senior Organic Chemist



Kamrul Ahsan
Senior Chemist



Ly Kim Ha
Organic Section Head



Ravee Sivasubramaniam
Asbestos Analyst/Hygiene Team Leader



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016

PARAMETER	UOM	LOR	1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL 29/2/2016 SE149556.001	SOIL 29/2/2016 SE149556.002	SOIL 29/2/2016 SE149556.003	SOIL 29/2/2016 SE149556.004	SOIL 29/2/2016 SE149556.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.001	29/2/2016 SE149556.002	29/2/2016 SE149556.003	29/2/2016 SE149556.004	29/2/2016 SE149556.005
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL - 29/2/2016 SE149556.006	SOIL - 29/2/2016 SE149556.007	SOIL - 29/2/2016 SE149556.008	SOIL - 29/2/2016 SE149556.009	SOIL - 29/2/2016 SE149556.010
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.006	29/2/2016 SE149556.007	29/2/2016 SE149556.008	29/2/2016 SE149556.009	29/2/2016 SE149556.010
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL 29/2/2016 SE149556.011	SOIL 29/2/2016 SE149556.012	SOIL 29/2/2016 SE149556.013	SOIL 29/2/2016 SE149556.014	SOIL 29/2/2016 SE149556.015
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.011	29/2/2016 SE149556.012	29/2/2016 SE149556.013	29/2/2016 SE149556.014	29/2/2016 SE149556.015
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL 29/2/2016 SE149556.016	SOIL 29/2/2016 SE149556.017	SOIL 29/2/2016 SE149556.018	SOIL 29/2/2016 SE149556.019	SOIL 29/2/2016 SE149556.020
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.016	29/2/2016 SE149556.017	29/2/2016 SE149556.018	29/2/2016 SE149556.019	29/2/2016 SE149556.020
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL 29/2/2016 SE149556.021	SOIL 29/2/2016 SE149556.022	SOIL 29/2/2016 SE149556.023	SOIL 29/2/2016 SE149556.024	SOIL 29/2/2016 SE149556.025
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.021	29/2/2016 SE149556.022	29/2/2016 SE149556.023	29/2/2016 SE149556.024	29/2/2016 SE149556.025
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL 29/2/2016 SE149556.026	SOIL 29/2/2016 SE149556.027	SOIL 29/2/2016 SE149556.028	SOIL 29/2/2016 SE149556.029	SOIL 29/2/2016 SE149556.030
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.026	29/2/2016 SE149556.027	29/2/2016 SE149556.028	29/2/2016 SE149556.029	29/2/2016 SE149556.030
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL 29/2/2016 SE149556.031	SOIL 29/2/2016 SE149556.032	SOIL 29/2/2016 SE149556.033	SOIL 29/2/2016 SE149556.034	SOIL 29/2/2016 SE149556.035
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.031	29/2/2016 SE149556.032	29/2/2016 SE149556.033	29/2/2016 SE149556.034	29/2/2016 SE149556.035
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL 29/2/2016 SE149556.036	SOIL 29/2/2016 SE149556.037	SOIL 29/2/2016 SE149556.038	SOIL 29/2/2016 SE149556.039	SOIL 29/2/2016 SE149556.040
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.036	29/2/2016 SE149556.037	29/2/2016 SE149556.038	29/2/2016 SE149556.039	29/2/2016 SE149556.040
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL - 29/2/2016 SE149556.041	SOIL - 29/2/2016 SE149556.042	SOIL - 29/2/2016 SE149556.043	SOIL - 29/2/2016 SE149556.044	SOIL - 29/2/2016 SE149556.045
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.041	29/2/2016 SE149556.042	29/2/2016 SE149556.043	29/2/2016 SE149556.044	29/2/2016 SE149556.045
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL 29/2/2016 SE149556.046	SOIL 29/2/2016 SE149556.047	SOIL 29/2/2016 SE149556.048	SOIL 29/2/2016 SE149556.049	SOIL 29/2/2016 SE149556.050
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.046	29/2/2016 SE149556.047	29/2/2016 SE149556.048	29/2/2016 SE149556.049	29/2/2016 SE149556.050
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL 29/2/2016 SE149556.051	SOIL 29/2/2016 SE149556.052	SOIL 29/2/2016 SE149556.053	SOIL 29/2/2016 SE149556.054	SOIL 29/2/2016 SE149556.055
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.051	29/2/2016 SE149556.052	29/2/2016 SE149556.053	29/2/2016 SE149556.054	29/2/2016 SE149556.055
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL - 29/2/2016 SE149556.056	SOIL - 29/2/2016 SE149556.057	SOIL - 29/2/2016 SE149556.058	SOIL - 29/2/2016 SE149556.059	SOIL - 29/2/2016 SE149556.060
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.056	29/2/2016 SE149556.057	29/2/2016 SE149556.058	29/2/2016 SE149556.059	29/2/2016 SE149556.060
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL - 29/2/2016 SE149556.061	SOIL - 29/2/2016 SE149556.062	SOIL - 29/2/2016 SE149556.063	SOIL - 29/2/2016 SE149556.064	SOIL - 29/2/2016 SE149556.065
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.061	29/2/2016 SE149556.062	29/2/2016 SE149556.063	29/2/2016 SE149556.064	29/2/2016 SE149556.065
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL - 29/2/2016 SE149556.066	SOIL - 29/2/2016 SE149556.067	SOIL - 29/2/2016 SE149556.068	SOIL - 29/2/2016 SE149556.069	SOIL - 29/2/2016 SE149556.070
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.066	29/2/2016 SE149556.067	29/2/2016 SE149556.068	29/2/2016 SE149556.069	29/2/2016 SE149556.070
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL 29/2/2016 SE149556.071	SOIL 29/2/2016 SE149556.072	SOIL 29/2/2016 SE149556.073	SOIL 29/2/2016 SE149556.074	SOIL 29/2/2016 SE149556.075
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.071	29/2/2016 SE149556.072	29/2/2016 SE149556.073	29/2/2016 SE149556.074	29/2/2016 SE149556.075
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL 29/2/2016 SE149556.076	SOIL 29/2/2016 SE149556.077	SOIL 29/2/2016 SE149556.078	SOIL 29/2/2016 SE149556.079	SOIL 29/2/2016 SE149556.080
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate	mg/kg	10	<10	<10	<10	<10	<10
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.076	29/2/2016 SE149556.077	29/2/2016 SE149556.078	29/2/2016 SE149556.079	29/2/2016 SE149556.080
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	-	-	-	-	-



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

			88-BH14 5
			SOIL
			-
			29/2/2016
PARAMETER	UOM	LOR	SE149556.081
Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2
o-xylene	mg/kg	0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1
Chloromethane	mg/kg	1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1
Bromomethane	mg/kg	1	<1
Chloroethane	mg/kg	1	<1
Trichlorofluoromethane	mg/kg	1	<1
Acetone (2-propanone)	mg/kg	10	<10
Iodomethane	mg/kg	5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1
Vinyl acetate	mg/kg	10	<10
MEK (2-butanone)	mg/kg	10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1
Chloroform	mg/kg	0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1
Trichloroethene (Trichloroethylene -TCE)	mg/kg	0.1	<0.1
2-nitropropane	mg/kg	10	<10
Bromodichloromethane	mg/kg	0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1
Chlorodibromomethane	mg/kg	0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1
Bromoform	mg/kg	0.1	<0.1
cis-1,4-dichloro-2-butene	mg/kg	1	<1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1



ANALYTICAL RESULTS

SE149556 R0

VOC's in Soil [AN433/AN434] Tested: 1/3/2016 (continued)

			88-BH14 5
			SOIL
			-
			29/2/2016
			SE149556.081
PARAMETER	UOM	LOR	
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1
n-propylbenzene	mg/kg	0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1
Total VOC*	mg/kg	24	-



ANALYTICAL RESULTS

SE149556 R0

Volatile Petroleum Hydrocarbons in Soil [AN433/AN434/AN410] Tested: 1/3/2016

PARAMETER	UOM	LOR	1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.001	29/2/2016 SE149556.002	29/2/2016 SE149556.003	29/2/2016 SE149556.004	29/2/2016 SE149556.005
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.006	29/2/2016 SE149556.007	29/2/2016 SE149556.008	29/2/2016 SE149556.009	29/2/2016 SE149556.010
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.011	29/2/2016 SE149556.012	29/2/2016 SE149556.013	29/2/2016 SE149556.014	29/2/2016 SE149556.015
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.016	29/2/2016 SE149556.017	29/2/2016 SE149556.018	29/2/2016 SE149556.019	29/2/2016 SE149556.020
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.021	29/2/2016 SE149556.022	29/2/2016 SE149556.023	29/2/2016 SE149556.024	29/2/2016 SE149556.025
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.026	29/2/2016 SE149556.027	29/2/2016 SE149556.028	29/2/2016 SE149556.029	29/2/2016 SE149556.030
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25



ANALYTICAL RESULTS

SE149556 R0

Volatile Petroleum Hydrocarbons in Soil [AN433/AN434/AN410] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.031	29/2/2016 SE149556.032	29/2/2016 SE149556.033	29/2/2016 SE149556.034	29/2/2016 SE149556.035
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.036	29/2/2016 SE149556.037	29/2/2016 SE149556.038	29/2/2016 SE149556.039	29/2/2016 SE149556.040
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.041	29/2/2016 SE149556.042	29/2/2016 SE149556.043	29/2/2016 SE149556.044	29/2/2016 SE149556.045
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.046	29/2/2016 SE149556.047	29/2/2016 SE149556.048	29/2/2016 SE149556.049	29/2/2016 SE149556.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.051	29/2/2016 SE149556.052	29/2/2016 SE149556.053	29/2/2016 SE149556.054	29/2/2016 SE149556.055
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.056	29/2/2016 SE149556.057	29/2/2016 SE149556.058	29/2/2016 SE149556.059	29/2/2016 SE149556.060
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

Volatile Petroleum Hydrocarbons in Soil [AN433/AN434/AN410] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL -	SOIL -	SOIL -	SOIL -	SOIL -
			29/2/2016 SE149556.061	29/2/2016 SE149556.062	29/2/2016 SE149556.063	29/2/2016 SE149556.064	29/2/2016 SE149556.065
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL -	SOIL -	SOIL -	SOIL -	SOIL -
			29/2/2016 SE149556.066	29/2/2016 SE149556.067	29/2/2016 SE149556.068	29/2/2016 SE149556.069	29/2/2016 SE149556.070
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL -	SOIL -	SOIL -	SOIL -	SOIL -
			29/2/2016 SE149556.071	29/2/2016 SE149556.072	29/2/2016 SE149556.073	29/2/2016 SE149556.074	29/2/2016 SE149556.075
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL -	SOIL -	SOIL -	SOIL -	SOIL -
			29/2/2016 SE149556.076	29/2/2016 SE149556.077	29/2/2016 SE149556.078	29/2/2016 SE149556.079	29/2/2016 SE149556.080
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	88-BH14 5
			SOIL -
			29/2/2016 SE149556.081
TRH C6-C9	mg/kg	20	<20
Benzene (F0)	mg/kg	0.1	<0.1
TRH C6-C10	mg/kg	25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25



ANALYTICAL RESULTS

SE149556 R0

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 1/3/2016

PARAMETER	UOM	LOR	1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.001	29/2/2016 SE149556.002	29/2/2016 SE149556.003	29/2/2016 SE149556.004	29/2/2016 SE149556.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	110	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	130	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.006	29/2/2016 SE149556.007	29/2/2016 SE149556.008	29/2/2016 SE149556.009	29/2/2016 SE149556.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.011	29/2/2016 SE149556.012	29/2/2016 SE149556.013	29/2/2016 SE149556.014	29/2/2016 SE149556.015
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210



ANALYTICAL RESULTS

SE149556 R0

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.016	29/2/2016 SE149556.017	29/2/2016 SE149556.018	29/2/2016 SE149556.019	29/2/2016 SE149556.020
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.021	29/2/2016 SE149556.022	29/2/2016 SE149556.023	29/2/2016 SE149556.024	29/2/2016 SE149556.025
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	57
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	86
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	130
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	140
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.026	29/2/2016 SE149556.027	29/2/2016 SE149556.028	29/2/2016 SE149556.029	29/2/2016 SE149556.030
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210



ANALYTICAL RESULTS

SE149556 R0

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 1/3/2016 (continued)

			38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.031	SE149556.032	SE149556.033	SE149556.034	SE149556.035
PARAMETER	UOM	LOR					
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210

			47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.036	SE149556.037	SE149556.038	SE149556.039	SE149556.040
PARAMETER	UOM	LOR					
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	57	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210

			53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.041	SE149556.042	SE149556.043	SE149556.044	SE149556.045
PARAMETER	UOM	LOR					
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210



ANALYTICAL RESULTS

SE149556 R0

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.046	29/2/2016 SE149556.047	29/2/2016 SE149556.048	29/2/2016 SE149556.049	29/2/2016 SE149556.050
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.051	29/2/2016 SE149556.052	29/2/2016 SE149556.053	29/2/2016 SE149556.054	29/2/2016 SE149556.055
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.056	29/2/2016 SE149556.057	29/2/2016 SE149556.058	29/2/2016 SE149556.059	29/2/2016 SE149556.060
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210



ANALYTICAL RESULTS

SE149556 R0

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 1/3/2016 (continued)

			89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL - 29/2/2016 SE149556.061	SOIL - 29/2/2016 SE149556.062	SOIL - 29/2/2016 SE149556.063	SOIL - 29/2/2016 SE149556.064	SOIL - 29/2/2016 SE149556.065
PARAMETER	UOM	LOR					
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210

			95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL - 29/2/2016 SE149556.066	SOIL - 29/2/2016 SE149556.067	SOIL - 29/2/2016 SE149556.068	SOIL - 29/2/2016 SE149556.069	SOIL - 29/2/2016 SE149556.070
PARAMETER	UOM	LOR					
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210

			101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL - 29/2/2016 SE149556.071	SOIL - 29/2/2016 SE149556.072	SOIL - 29/2/2016 SE149556.073	SOIL - 29/2/2016 SE149556.074	SOIL - 29/2/2016 SE149556.075
PARAMETER	UOM	LOR					
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210



ANALYTICAL RESULTS

SE149556 R0

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 1/3/2016 (continued)

			108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.076	SE149556.077	SE149556.078	SE149556.079	SE149556.080
PARAMETER	UOM	LOR					
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH C10-C40 Total	mg/kg	210	<210	<210	<210	<210	<210

			88-BH14 5
			SOIL
			-
			29/2/2016
			SE149556.081
PARAMETER	UOM	LOR	
TRH C10-C14	mg/kg	20	<20
TRH C15-C28	mg/kg	45	<45
TRH C29-C36	mg/kg	45	<45
TRH C37-C40	mg/kg	100	<100
TRH >C10-C16 (F2)	mg/kg	25	<25
TRH >C10-C16 (F2) - Naphthalene	mg/kg	25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120
TRH C10-C36 Total	mg/kg	110	<110
TRH C10-C40 Total	mg/kg	210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 1/3/2016

PARAMETER	UOM	LOR	1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.001	29/2/2016 SE149556.002	29/2/2016 SE149556.003	29/2/2016 SE149556.004	29/2/2016 SE149556.005
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	0.5	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	0.6	0.2	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	9.6	1.6	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	2.1	0.4	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	14	2.5	0.2	<0.1
Pyrene	mg/kg	0.1	<0.1	15	2.3	0.2	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	5.1	1.0	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	4.3	0.8	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	4.6	0.9	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	3.0	0.5	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	4.4	0.8	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	2.9	0.4	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	0.6	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	2.4	0.4	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	6.5	1.1	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	6.5	1.2	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	6.5	1.1	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	70	12	<0.8	<0.8

PARAMETER	UOM	LOR	6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.006	29/2/2016 SE149556.007	29/2/2016 SE149556.008	29/2/2016 SE149556.009	29/2/2016 SE149556.010
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	0.2	0.1	0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	0.4	0.3	0.3	0.2	<0.1
Pyrene	mg/kg	0.1	0.5	0.4	0.4	0.2	<0.1
Benzo(a)anthracene	mg/kg	0.1	0.2	0.2	0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	0.2	0.2	0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	0.2	0.2	0.2	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	0.1	0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	0.2	0.2	0.2	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1	0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	0.1	0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	0.3	0.3	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	0.4	0.4	0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	0.3	0.3	0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	2.2	1.9	1.4	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.011	29/2/2016 SE149556.012	29/2/2016 SE149556.013	29/2/2016 SE149556.014	29/2/2016 SE149556.015
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.016	29/2/2016 SE149556.017	29/2/2016 SE149556.018	29/2/2016 SE149556.019	29/2/2016 SE149556.020
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	0.3	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	0.9	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	0.9	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	0.5	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	0.5	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	0.9	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	0.4	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	0.7	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	0.6	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	0.5	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	<0.2	1.0	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	1.0	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	1.0	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	6.1	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.021	29/2/2016 SE149556.022	29/2/2016 SE149556.023	29/2/2016 SE149556.024	29/2/2016 SE149556.025
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.2
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	0.8	0.7
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.6	0.6
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	0.3	0.3
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	0.2
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	0.3	0.3
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	0.2
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	0.2
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	0.2
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	0.2
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	<0.2	<0.2	0.3	0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	0.4	0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	0.3	0.3
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	2.9	2.8

PARAMETER	UOM	LOR	31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.026	29/2/2016 SE149556.027	29/2/2016 SE149556.028	29/2/2016 SE149556.029	29/2/2016 SE149556.030
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	0.1	0.2	0.6	0.2
Pyrene	mg/kg	0.1	<0.1	0.1	0.2	0.9	0.2
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	0.4	0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	0.3	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.3	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	<0.2	<0.2	0.3	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	0.4	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	0.4	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	3.1	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.031	29/2/2016 SE149556.032	29/2/2016 SE149556.033	29/2/2016 SE149556.034	29/2/2016 SE149556.035
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.036	29/2/2016 SE149556.037	29/2/2016 SE149556.038	29/2/2016 SE149556.039	29/2/2016 SE149556.040
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	0.4	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	4.3	<0.1	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	0.6	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	6.9	<0.1	0.2	<0.1
Pyrene	mg/kg	0.1	<0.1	5.4	<0.1	0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	1.6	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	1.5	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	2.2	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	1.0	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	1.9	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	1.3	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	1.0	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	2.7	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	2.7	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	2.7	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	29	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.041	29/2/2016 SE149556.042	29/2/2016 SE149556.043	29/2/2016 SE149556.044	29/2/2016 SE149556.045
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	0.3	0.2	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	0.3	0.2	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	<0.2	0.3	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	0.4	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	0.3	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	2.1	<0.8	<0.8

PARAMETER	UOM	LOR	59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.046	29/2/2016 SE149556.047	29/2/2016 SE149556.048	29/2/2016 SE149556.049	29/2/2016 SE149556.050
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	2.4	<0.1	<0.1	0.1
Anthracene	mg/kg	0.1	<0.1	0.5	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	2.7	0.1	0.1	0.3
Pyrene	mg/kg	0.1	<0.1	2.2	0.1	0.1	0.3
Benzo(a)anthracene	mg/kg	0.1	<0.1	0.8	<0.1	<0.1	0.1
Chrysene	mg/kg	0.1	<0.1	0.6	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	0.7	<0.1	<0.1	0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0.4	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	0.7	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0.4	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	0.3	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	0.9	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	1.0	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	1.0	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	12	<0.8	<0.8	0.9

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.051	29/2/2016 SE149556.052	29/2/2016 SE149556.053	29/2/2016 SE149556.054	29/2/2016 SE149556.055
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	0.4	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	0.4	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	0.3	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	0.4	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	0.3	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	2.1	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.056	29/2/2016 SE149556.057	29/2/2016 SE149556.058	29/2/2016 SE149556.059	29/2/2016 SE149556.060
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.061	29/2/2016 SE149556.062	29/2/2016 SE149556.063	29/2/2016 SE149556.064	29/2/2016 SE149556.065
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.066	29/2/2016 SE149556.067	29/2/2016 SE149556.068	29/2/2016 SE149556.069	29/2/2016 SE149556.070
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	0.4	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	3.4	0.2	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	0.8	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	7.2	0.6	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	8.3	0.7	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	3.7	0.3	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	3.3	0.3	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	3.3	0.3	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	1.9	0.2	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	3.6	0.3	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	1.8	0.2	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	0.4	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	1.7	0.2	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	5.1	0.4	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	5.1	0.5	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	5.1	0.5	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	40	3.3	<0.8	<0.8



ANALYTICAL RESULTS

SE149556 R0

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.071	29/2/2016 SE149556.072	29/2/2016 SE149556.073	29/2/2016 SE149556.074	29/2/2016 SE149556.075
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.2
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.2
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.076	29/2/2016 SE149556.077	29/2/2016 SE149556.078	29/2/2016 SE149556.079	29/2/2016 SE149556.080
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	0.4	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.4	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	2.1	<0.8



ANALYTICAL RESULTS

SE149556 R0

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 1/3/2016 (continued)

			88-BH14 5
			SOIL
			-
			29/2/2016
			SE149556.081
PARAMETER	UOM	LOR	
Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1
Fluorene	mg/kg	0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1
Pyrene	mg/kg	0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1
Chrysene	mg/kg	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ	0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016

PARAMETER	UOM	LOR	1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.001	29/2/2016 SE149556.002	29/2/2016 SE149556.003	29/2/2016 SE149556.004	29/2/2016 SE149556.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.006	29/2/2016 SE149556.007	29/2/2016 SE149556.008	29/2/2016 SE149556.009	29/2/2016 SE149556.010
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.011	29/2/2016 SE149556.012	29/2/2016 SE149556.013	29/2/2016 SE149556.014	29/2/2016 SE149556.015
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.016	29/2/2016 SE149556.017	29/2/2016 SE149556.018	29/2/2016 SE149556.019	29/2/2016 SE149556.020
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.021	29/2/2016 SE149556.022	29/2/2016 SE149556.023	29/2/2016 SE149556.024	29/2/2016 SE149556.025
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.026	29/2/2016 SE149556.027	29/2/2016 SE149556.028	29/2/2016 SE149556.029	29/2/2016 SE149556.030
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.031	29/2/2016 SE149556.032	29/2/2016 SE149556.033	29/2/2016 SE149556.034	29/2/2016 SE149556.035
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.036	29/2/2016 SE149556.037	29/2/2016 SE149556.038	29/2/2016 SE149556.039	29/2/2016 SE149556.040
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.041	29/2/2016 SE149556.042	29/2/2016 SE149556.043	29/2/2016 SE149556.044	29/2/2016 SE149556.045
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.046	29/2/2016 SE149556.047	29/2/2016 SE149556.048	29/2/2016 SE149556.049	29/2/2016 SE149556.050
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.051	29/2/2016 SE149556.052	29/2/2016 SE149556.053	29/2/2016 SE149556.054	29/2/2016 SE149556.055
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.056	29/2/2016 SE149556.057	29/2/2016 SE149556.058	29/2/2016 SE149556.059	29/2/2016 SE149556.060
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.061	29/2/2016 SE149556.062	29/2/2016 SE149556.063	29/2/2016 SE149556.064	29/2/2016 SE149556.065
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.066	29/2/2016 SE149556.067	29/2/2016 SE149556.068	29/2/2016 SE149556.069	29/2/2016 SE149556.070
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.071	29/2/2016 SE149556.072	29/2/2016 SE149556.073	29/2/2016 SE149556.074	29/2/2016 SE149556.075
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.076	29/2/2016 SE149556.077	29/2/2016 SE149556.078	29/2/2016 SE149556.079	29/2/2016 SE149556.080
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OC Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

			88-BH14 5
			SOIL
			-
			29/2/2016
			SE149556.081
PARAMETER	UOM	LOR	
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1
Lindane	mg/kg	0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1
Aldrin	mg/kg	0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2
Endrin	mg/kg	0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1
Isodrin	mg/kg	0.1	<0.1
Mirex	mg/kg	0.1	<0.1



ANALYTICAL RESULTS

SE149556 R0

OP Pesticides in Soil [AN400/AN420] Tested: 1/3/2016

PARAMETER	UOM	LOR	1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.001	29/2/2016 SE149556.002	29/2/2016 SE149556.003	29/2/2016 SE149556.004	29/2/2016 SE149556.005
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.006	29/2/2016 SE149556.007	29/2/2016 SE149556.008	29/2/2016 SE149556.009	29/2/2016 SE149556.010
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.011	29/2/2016 SE149556.012	29/2/2016 SE149556.013	29/2/2016 SE149556.014	29/2/2016 SE149556.015
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2



ANALYTICAL RESULTS

SE149556 R0

OP Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.016	29/2/2016 SE149556.017	29/2/2016 SE149556.018	29/2/2016 SE149556.019	29/2/2016 SE149556.020
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.021	29/2/2016 SE149556.022	29/2/2016 SE149556.023	29/2/2016 SE149556.024	29/2/2016 SE149556.025
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.026	29/2/2016 SE149556.027	29/2/2016 SE149556.028	29/2/2016 SE149556.029	29/2/2016 SE149556.030
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2



ANALYTICAL RESULTS

SE149556 R0

OP Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.031	29/2/2016 SE149556.032	29/2/2016 SE149556.033	29/2/2016 SE149556.034	29/2/2016 SE149556.035
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.036	29/2/2016 SE149556.037	29/2/2016 SE149556.038	29/2/2016 SE149556.039	29/2/2016 SE149556.040
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.041	29/2/2016 SE149556.042	29/2/2016 SE149556.043	29/2/2016 SE149556.044	29/2/2016 SE149556.045
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2



ANALYTICAL RESULTS

SE149556 R0

OP Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.046	29/2/2016 SE149556.047	29/2/2016 SE149556.048	29/2/2016 SE149556.049	29/2/2016 SE149556.050
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.051	29/2/2016 SE149556.052	29/2/2016 SE149556.053	29/2/2016 SE149556.054	29/2/2016 SE149556.055
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.056	29/2/2016 SE149556.057	29/2/2016 SE149556.058	29/2/2016 SE149556.059	29/2/2016 SE149556.060
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2



ANALYTICAL RESULTS

SE149556 R0

OP Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.061	29/2/2016 SE149556.062	29/2/2016 SE149556.063	29/2/2016 SE149556.064	29/2/2016 SE149556.065
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.066	29/2/2016 SE149556.067	29/2/2016 SE149556.068	29/2/2016 SE149556.069	29/2/2016 SE149556.070
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.071	29/2/2016 SE149556.072	29/2/2016 SE149556.073	29/2/2016 SE149556.074	29/2/2016 SE149556.075
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2



ANALYTICAL RESULTS

SE149556 R0

OP Pesticides in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

			108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.076	SE149556.077	SE149556.078	SE149556.079	SE149556.080
PARAMETER	UOM	LOR					
Dichlorvos	mg/kg	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
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

			88-BH14 5
			SOIL
			-
			29/2/2016
			SE149556.081
PARAMETER	UOM	LOR	
Dichlorvos	mg/kg	0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2
Malathion	mg/kg	0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2
Methidathion	mg/kg	0.5	<0.5
Ethion	mg/kg	0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2

PCBs in Soil [AN400/AN420] Tested: 1/3/2016

PARAMETER	UOM	LOR	1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.001	29/2/2016 SE149556.002	29/2/2016 SE149556.003	29/2/2016 SE149556.004	29/2/2016 SE149556.005
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.006	29/2/2016 SE149556.007	29/2/2016 SE149556.008	29/2/2016 SE149556.009	29/2/2016 SE149556.010
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016 SE149556.011	29/2/2016 SE149556.012	29/2/2016 SE149556.013	29/2/2016 SE149556.014	29/2/2016 SE149556.015
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

PCBs in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

			18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.016	SE149556.017	SE149556.018	SE149556.019	SE149556.020
PARAMETER	UOM	LOR					
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

			25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.021	SE149556.022	SE149556.023	SE149556.024	SE149556.025
PARAMETER	UOM	LOR					
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

			31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.026	SE149556.027	SE149556.028	SE149556.029	SE149556.030
PARAMETER	UOM	LOR					
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.031	29/2/2016 SE149556.032	29/2/2016 SE149556.033	29/2/2016 SE149556.034	29/2/2016 SE149556.035
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.036	29/2/2016 SE149556.037	29/2/2016 SE149556.038	29/2/2016 SE149556.039	29/2/2016 SE149556.040
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.041	29/2/2016 SE149556.042	29/2/2016 SE149556.043	29/2/2016 SE149556.044	29/2/2016 SE149556.045
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

PCBs in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.046	29/2/2016 SE149556.047	29/2/2016 SE149556.048	29/2/2016 SE149556.049	29/2/2016 SE149556.050
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.051	29/2/2016 SE149556.052	29/2/2016 SE149556.053	29/2/2016 SE149556.054	29/2/2016 SE149556.055
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.056	29/2/2016 SE149556.057	29/2/2016 SE149556.058	29/2/2016 SE149556.059	29/2/2016 SE149556.060
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

PCBs in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

			89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL - 29/2/2016 SE149556.061	SOIL - 29/2/2016 SE149556.062	SOIL - 29/2/2016 SE149556.063	SOIL - 29/2/2016 SE149556.064	SOIL - 29/2/2016 SE149556.065
PARAMETER	UOM	LOR					
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

			95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL - 29/2/2016 SE149556.066	SOIL - 29/2/2016 SE149556.067	SOIL - 29/2/2016 SE149556.068	SOIL - 29/2/2016 SE149556.069	SOIL - 29/2/2016 SE149556.070
PARAMETER	UOM	LOR					
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

			101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL - 29/2/2016 SE149556.071	SOIL - 29/2/2016 SE149556.072	SOIL - 29/2/2016 SE149556.073	SOIL - 29/2/2016 SE149556.074	SOIL - 29/2/2016 SE149556.075
PARAMETER	UOM	LOR					
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1



ANALYTICAL RESULTS

SE149556 R0

PCBs in Soil [AN400/AN420] Tested: 1/3/2016 (continued)

			108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.076	SE149556.077	SE149556.078	SE149556.079	SE149556.080
PARAMETER	UOM	LOR					
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

			88-BH14 5
			SOIL
			-
			29/2/2016
			SE149556.081
PARAMETER	UOM	LOR	
Arochlor 1016	mg/kg	0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1



ANALYTICAL RESULTS

SE149556 R0

Acid Herbicides in Soil [AN420] Tested: 1/3/2016

PARAMETER	UOM	LOR	1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.001	29/2/2016 SE149556.002	29/2/2016 SE149556.003	29/2/2016 SE149556.004	29/2/2016 SE149556.005
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.006	29/2/2016 SE149556.007	29/2/2016 SE149556.008	29/2/2016 SE149556.009	29/2/2016 SE149556.010
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5



ANALYTICAL RESULTS

SE149556 R0

Acid Herbicides in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.011	29/2/2016 SE149556.012	29/2/2016 SE149556.013	29/2/2016 SE149556.014	29/2/2016 SE149556.015
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.016	29/2/2016 SE149556.017	29/2/2016 SE149556.018	29/2/2016 SE149556.019	29/2/2016 SE149556.020
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5



ANALYTICAL RESULTS

SE149556 R0

Acid Herbicides in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.021	29/2/2016 SE149556.022	29/2/2016 SE149556.023	29/2/2016 SE149556.024	29/2/2016 SE149556.025
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.026	29/2/2016 SE149556.027	29/2/2016 SE149556.028	29/2/2016 SE149556.029	29/2/2016 SE149556.030
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5



ANALYTICAL RESULTS

SE149556 R0

Acid Herbicides in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.031	29/2/2016 SE149556.032	29/2/2016 SE149556.033	29/2/2016 SE149556.034	29/2/2016 SE149556.035
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.036	29/2/2016 SE149556.037	29/2/2016 SE149556.038	29/2/2016 SE149556.039	29/2/2016 SE149556.040
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5



ANALYTICAL RESULTS

SE149556 R0

Acid Herbicides in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.041	29/2/2016 SE149556.042	29/2/2016 SE149556.043	29/2/2016 SE149556.044	29/2/2016 SE149556.045
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.046	29/2/2016 SE149556.047	29/2/2016 SE149556.048	29/2/2016 SE149556.049	29/2/2016 SE149556.050
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5



ANALYTICAL RESULTS

SE149556 R0

Acid Herbicides in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.051	29/2/2016 SE149556.052	29/2/2016 SE149556.053	29/2/2016 SE149556.054	29/2/2016 SE149556.055
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.056	29/2/2016 SE149556.057	29/2/2016 SE149556.058	29/2/2016 SE149556.059	29/2/2016 SE149556.060
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5



ANALYTICAL RESULTS

SE149556 R0

Acid Herbicides in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.061	29/2/2016 SE149556.062	29/2/2016 SE149556.063	29/2/2016 SE149556.064	29/2/2016 SE149556.065
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.066	29/2/2016 SE149556.067	29/2/2016 SE149556.068	29/2/2016 SE149556.069	29/2/2016 SE149556.070
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5



ANALYTICAL RESULTS

SE149556 R0

Acid Herbicides in Soil [AN420] Tested: 1/3/2016 (continued)

PARAMETER	UOM	LOR	101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.071	29/2/2016 SE149556.072	29/2/2016 SE149556.073	29/2/2016 SE149556.074	29/2/2016 SE149556.075
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
loxylin	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.076	29/2/2016 SE149556.077	29/2/2016 SE149556.078	29/2/2016 SE149556.079	29/2/2016 SE149556.080
Dicamba	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MCPA	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,6-D	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromoxnil	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
loxylin	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MCPB	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Picloram	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5



ANALYTICAL RESULTS

SE149556 R0

Acid Herbicides in Soil [AN420] Tested: 1/3/2016 (continued)

			88-BH14 5
			SOIL
			-
			29/2/2016
			SE149556.081
PARAMETER	UOM	LOR	
Dicamba	mg/kg	0.2	<0.2
MCPP (Mecoprop)	mg/kg	0.2	<0.2
MCPA	mg/kg	0.2	<0.2
Dichlorprop (2,4-DP)	mg/kg	0.2	<0.2
2,4-D	mg/kg	0.2	<0.2
2,4,5-TP (Silvex, Fenopop)	mg/kg	0.2	<0.2
2,4,5-T	mg/kg	0.2	<0.2
Dinoseb	mg/kg	0.2	<0.2
2,6-D	mg/kg	0.2	<0.2
2,4,6-trichlorophenoxyacetic acid	mg/kg	0.2	<0.2
Bromoxynil	mg/kg	0.2	<0.2
4-chlorophenoxy acetic acid (4-CPA)	mg/kg	0.5	<0.5
Clopyralid	mg/kg	0.2	<0.2
Fluroxypyr	mg/kg	0.2	<0.2
Ioxynil	mg/kg	0.5	<0.5
MCPB	mg/kg	0.5	<0.5
Triclopyr	mg/kg	0.2	<0.2
2,4-DB	mg/kg	0.2	<0.2
Picloram	mg/kg	0.5	<0.5



ANALYTICAL RESULTS

SE149556 R0

Total Recoverable Metals in Soil by ICPOES [AN040/AN320] Tested: 3/3/2016

			1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.001	SE149556.002	SE149556.003	SE149556.004	SE149556.005
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	11	7	9	7	5
Cadmium, Cd	mg/kg	0.1	0.5	0.3	0.5	0.4	0.2
Chromium, Cr	mg/kg	0.5	11	8.5	15	18	17
Copper, Cu	mg/kg	0.5	4.5	11	31	16	2.6
Lead, Pb	mg/kg	1	16	16	58	38	12
Nickel, Ni	mg/kg	0.5	3.7	1.0	4.6	3.3	1.2
Zinc, Zn	mg/kg	2	13	8	140	81	7

			6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.006	SE149556.007	SE149556.008	SE149556.009	SE149556.010
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	4	7	5	5	5
Cadmium, Cd	mg/kg	0.1	0.3	0.4	0.3	0.4	0.2
Chromium, Cr	mg/kg	0.5	11	11	12	13	7.6
Copper, Cu	mg/kg	0.5	11	16	14	14	7.2
Lead, Pb	mg/kg	1	29	43	35	24	13
Nickel, Ni	mg/kg	0.5	2.8	2.6	6.8	4.9	1.9
Zinc, Zn	mg/kg	2	49	43	50	32	7

			12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.011	SE149556.012	SE149556.013	SE149556.014	SE149556.015
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	5	4	5	3	42
Cadmium, Cd	mg/kg	0.1	0.2	0.2	0.2	0.2	0.2
Chromium, Cr	mg/kg	0.5	5.9	5.0	5.5	8.2	7.0
Copper, Cu	mg/kg	0.5	8.2	13	9.9	8.6	2.5
Lead, Pb	mg/kg	1	11	10	31	13	18
Nickel, Ni	mg/kg	0.5	2.2	<0.5	<0.5	1.8	<0.5
Zinc, Zn	mg/kg	2	5	4	10	7	4

			18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.016	SE149556.017	SE149556.018	SE149556.019	SE149556.020
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	10	4	5	6	3
Cadmium, Cd	mg/kg	0.1	0.4	0.4	0.5	0.3	0.2
Chromium, Cr	mg/kg	0.5	10	8.3	23	7.3	7.6
Copper, Cu	mg/kg	0.5	6.5	18	28	10	9.8
Lead, Pb	mg/kg	1	18	11	88	15	14
Nickel, Ni	mg/kg	0.5	<0.5	<0.5	20	1.7	2.9
Zinc, Zn	mg/kg	2	6	4	140	9	10



ANALYTICAL RESULTS

SE149556 R0

Total Recoverable Metals in Soil by ICPOES [AN040/AN320] Tested: 3/3/2016 (continued)

			25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.021	SE149556.022	SE149556.023	SE149556.024	SE149556.025
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	5	3	16	16	3
Cadmium, Cd	mg/kg	0.1	0.3	0.1	0.9	0.3	0.3
Chromium, Cr	mg/kg	0.5	5.9	6.8	12	11	6.9
Copper, Cu	mg/kg	0.5	16	5.4	23	11	13
Lead, Pb	mg/kg	1	10	16	20	20	22
Nickel, Ni	mg/kg	0.5	1.4	<0.5	<0.5	2.6	1.1
Zinc, Zn	mg/kg	2	13	3	8	8	8

			31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.026	SE149556.027	SE149556.028	SE149556.029	SE149556.030
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	7	6	6	5	4
Cadmium, Cd	mg/kg	0.1	0.4	0.3	0.3	0.4	0.5
Chromium, Cr	mg/kg	0.5	10	7.2	8.7	22	12
Copper, Cu	mg/kg	0.5	12	21	15	15	41
Lead, Pb	mg/kg	1	35	33	32	82	42
Nickel, Ni	mg/kg	0.5	1.1	0.9	2.5	17	5.9
Zinc, Zn	mg/kg	2	40	32	37	54	41

			38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.031	SE149556.032	SE149556.033	SE149556.034	SE149556.035
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	1	2	8	4	3
Cadmium, Cd	mg/kg	0.1	0.2	0.5	0.4	<0.1	0.4
Chromium, Cr	mg/kg	0.5	5.0	8.5	9.2	4.4	6.0
Copper, Cu	mg/kg	0.5	42	53	37	3.1	9.2
Lead, Pb	mg/kg	1	20	20	19	15	14
Nickel, Ni	mg/kg	0.5	5.2	8.6	14	<0.5	<0.5
Zinc, Zn	mg/kg	2	34	45	66	3	3

			47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.036	SE149556.037	SE149556.038	SE149556.039	SE149556.040
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	3	4	4	4	5
Cadmium, Cd	mg/kg	0.1	0.2	0.3	0.3	0.3	0.4
Chromium, Cr	mg/kg	0.5	5.5	15	7.3	8.7	18
Copper, Cu	mg/kg	0.5	15	11	21	7.4	11
Lead, Pb	mg/kg	1	20	15	23	15	180
Nickel, Ni	mg/kg	0.5	<0.5	16	3.4	0.7	3.2
Zinc, Zn	mg/kg	2	4	18	24	9	100



ANALYTICAL RESULTS

SE149556 R0

Total Recoverable Metals in Soil by ICPOES [AN040/AN320] Tested: 3/3/2016 (continued)

			53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.041	SE149556.042	SE149556.043	SE149556.044	SE149556.045
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	7	2	6	6	5
Cadmium, Cd	mg/kg	0.1	0.4	0.4	0.3	0.2	0.1
Chromium, Cr	mg/kg	0.5	17	7.3	39	7.6	6.8
Copper, Cu	mg/kg	0.5	16	35	15	4.0	11
Lead, Pb	mg/kg	1	26	23	22	13	11
Nickel, Ni	mg/kg	0.5	1.6	0.8	25	1.4	1.1
Zinc, Zn	mg/kg	2	17	11	22	4	3

			59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.046	SE149556.047	SE149556.048	SE149556.049	SE149556.050
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	3	1	3	3	7
Cadmium, Cd	mg/kg	0.1	0.2	0.2	<0.1	0.2	0.4
Chromium, Cr	mg/kg	0.5	7.2	6.1	4.6	9.1	14
Copper, Cu	mg/kg	0.5	6.6	5.5	7.4	29	18
Lead, Pb	mg/kg	1	16	12	180	260	31
Nickel, Ni	mg/kg	0.5	<0.5	1.0	<0.5	4.0	2.2
Zinc, Zn	mg/kg	2	3	9	33	120	16

			65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.051	SE149556.052	SE149556.053	SE149556.054	SE149556.055
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	6	4	5	5	1
Cadmium, Cd	mg/kg	0.1	0.3	0.3	0.4	0.5	0.4
Chromium, Cr	mg/kg	0.5	6.8	17	14	9.4	5.6
Copper, Cu	mg/kg	0.5	43	42	23	47	44
Lead, Pb	mg/kg	1	19	220	18	23	22
Nickel, Ni	mg/kg	0.5	3.8	9.3	0.7	4.1	17
Zinc, Zn	mg/kg	2	40	110	7	47	65

			83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
			SE149556.056	SE149556.057	SE149556.058	SE149556.059	SE149556.060
PARAMETER	UOM	LOR					
Arsenic, As	mg/kg	1	1	2	6	1	3
Cadmium, Cd	mg/kg	0.1	0.2	0.2	0.4	0.2	0.3
Chromium, Cr	mg/kg	0.5	3.7	4.2	18	4.2	7.1
Copper, Cu	mg/kg	0.5	4.1	9.8	8.5	16	36
Lead, Pb	mg/kg	1	12	14	24	24	18
Nickel, Ni	mg/kg	0.5	2.8	0.8	1.7	<0.5	4.4
Zinc, Zn	mg/kg	2	17	10	12	3	25



ANALYTICAL RESULTS

SE149556 R0

Total Recoverable Metals in Soil by ICPOES [AN040/AN320] Tested: 3/3/2016 (continued)

PARAMETER	UOM	LOR	89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.061	29/2/2016 SE149556.062	29/2/2016 SE149556.063	29/2/2016 SE149556.064	29/2/2016 SE149556.065
Arsenic, As	mg/kg	1	22	5	2	6	4
Cadmium, Cd	mg/kg	0.1	0.4	0.2	0.1	0.4	0.3
Chromium, Cr	mg/kg	0.5	10	6.8	4.0	18	7.7
Copper, Cu	mg/kg	0.5	17	10	4.9	17	38
Lead, Pb	mg/kg	1	140	16	10	30	26
Nickel, Ni	mg/kg	0.5	2.3	<0.5	<0.5	0.6	1.1
Zinc, Zn	mg/kg	2	48	5	<2	6	16

PARAMETER	UOM	LOR	95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.066	29/2/2016 SE149556.067	29/2/2016 SE149556.068	29/2/2016 SE149556.069	29/2/2016 SE149556.070
Arsenic, As	mg/kg	1	10	6	3	6	3
Cadmium, Cd	mg/kg	0.1	0.3	0.6	0.2	0.2	0.3
Chromium, Cr	mg/kg	0.5	7.5	18	4.5	7.7	6.0
Copper, Cu	mg/kg	0.5	51	15	11	3.3	10
Lead, Pb	mg/kg	1	21	74	13	20	9
Nickel, Ni	mg/kg	0.5	13	2.7	<0.5	<0.5	<0.5
Zinc, Zn	mg/kg	2	70	44	8	5	3

PARAMETER	UOM	LOR	101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.071	29/2/2016 SE149556.072	29/2/2016 SE149556.073	29/2/2016 SE149556.074	29/2/2016 SE149556.075
Arsenic, As	mg/kg	1	4	5	5	6	5
Cadmium, Cd	mg/kg	0.1	0.4	0.4	0.2	0.3	0.2
Chromium, Cr	mg/kg	0.5	9.0	17	7.8	6.5	8.3
Copper, Cu	mg/kg	0.5	14	12	8.3	54	18
Lead, Pb	mg/kg	1	12	22	14	23	23
Nickel, Ni	mg/kg	0.5	<0.5	2.6	1.1	11	<0.5
Zinc, Zn	mg/kg	2	6	18	5	56	26

PARAMETER	UOM	LOR	108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL	SOIL	SOIL	SOIL	SOIL
			29/2/2016 SE149556.076	29/2/2016 SE149556.077	29/2/2016 SE149556.078	29/2/2016 SE149556.079	29/2/2016 SE149556.080
Arsenic, As	mg/kg	1	4	8	5	5	7
Cadmium, Cd	mg/kg	0.1	0.1	0.3	0.2	0.3	0.4
Chromium, Cr	mg/kg	0.5	6.4	6.6	9.0	13	24
Copper, Cu	mg/kg	0.5	14	26	4.0	14	12
Lead, Pb	mg/kg	1	10	18	15	35	170
Nickel, Ni	mg/kg	0.5	<0.5	1.8	<0.5	5.3	4.1
Zinc, Zn	mg/kg	2	5	14	6	48	100



ANALYTICAL RESULTS

SE149556 R0

Total Recoverable Metals in Soil by ICPOES [AN040/AN320] Tested: 3/3/2016 (continued)

			88-BH14 5
			SOIL
			-
			29/2/2016
			SE149556.081
PARAMETER	UOM	LOR	
Arsenic, As	mg/kg	1	9
Cadmium, Cd	mg/kg	0.1	0.3
Chromium, Cr	mg/kg	0.5	6.4
Copper, Cu	mg/kg	0.5	26
Lead, Pb	mg/kg	1	18
Nickel, Ni	mg/kg	0.5	1.1
Zinc, Zn	mg/kg	2	11



ANALYTICAL RESULTS

SE149556 R0

Mercury in Soil [AN312] Tested: 3/3/2016

			1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.001	SE149556.002	SE149556.003	SE149556.004	SE149556.005
Mercury	mg/kg	0.01	<0.01	<0.01	0.05	0.02	<0.01

			6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.006	SE149556.007	SE149556.008	SE149556.009	SE149556.010
Mercury	mg/kg	0.01	0.03	0.03	0.03	0.02	<0.01

			12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.011	SE149556.012	SE149556.013	SE149556.014	SE149556.015
Mercury	mg/kg	0.01	<0.01	0.02	0.03	0.02	0.01

			18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.016	SE149556.017	SE149556.018	SE149556.019	SE149556.020
Mercury	mg/kg	0.01	0.01	<0.01	0.55	0.03	0.04

			25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.021	SE149556.022	SE149556.023	SE149556.024	SE149556.025
Mercury	mg/kg	0.01	0.01	0.01	<0.01	0.02	0.02

			31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.026	SE149556.027	SE149556.028	SE149556.029	SE149556.030
Mercury	mg/kg	0.01	0.02	4.0	0.76	0.04	<0.01

			38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.031	SE149556.032	SE149556.033	SE149556.034	SE149556.035
Mercury	mg/kg	0.01	<0.01	0.01	0.05	<0.01	<0.01



ANALYTICAL RESULTS

SE149556 R0

Mercury in Soil [AN312] Tested: 3/3/2016 (continued)

			47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.036	SE149556.037	SE149556.038	SE149556.039	SE149556.040
Mercury	mg/kg	0.01	<0.01	0.02	0.04	<0.01	0.04

			53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.041	SE149556.042	SE149556.043	SE149556.044	SE149556.045
Mercury	mg/kg	0.01	<0.01	0.01	0.02	0.01	<0.01

			59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.046	SE149556.047	SE149556.048	SE149556.049	SE149556.050
Mercury	mg/kg	0.01	<0.01	0.01	0.01	0.08	0.01

			65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.051	SE149556.052	SE149556.053	SE149556.054	SE149556.055
Mercury	mg/kg	0.01	<0.01	0.32	0.01	<0.01	0.03

			83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.056	SE149556.057	SE149556.058	SE149556.059	SE149556.060
Mercury	mg/kg	0.01	0.06	0.03	0.01	<0.01	<0.01

			89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.061	SE149556.062	SE149556.063	SE149556.064	SE149556.065
Mercury	mg/kg	0.01	2.0	0.12	<0.01	0.02	<0.01

			95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.066	SE149556.067	SE149556.068	SE149556.069	SE149556.070
Mercury	mg/kg	0.01	0.01	0.34	0.03	0.01	0.02



ANALYTICAL RESULTS

SE149556 R0

Mercury in Soil [AN312] Tested: 3/3/2016 (continued)

			101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.071	SE149556.072	SE149556.073	SE149556.074	SE149556.075
Mercury	mg/kg	0.01	0.01	0.03	<0.01	<0.01	0.14

			108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.076	SE149556.077	SE149556.078	SE149556.079	SE149556.080
Mercury	mg/kg	0.01	0.01	<0.01	0.01	0.03	0.08

			88-BH14 5
			SOIL
			-
			29/2/2016
PARAMETER	UOM	LOR	SE149556.081
Mercury	mg/kg	0.01	<0.01



ANALYTICAL RESULTS

SE149556 R0

Moisture Content [AN002] Tested: 2/3/2016

			1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.001	SE149556.002	SE149556.003	SE149556.004	SE149556.005
% Moisture	%w/w	0.5	17	18	20	17	14

			6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.006	SE149556.007	SE149556.008	SE149556.009	SE149556.010
% Moisture	%w/w	0.5	16	17	17	17	13

			12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.011	SE149556.012	SE149556.013	SE149556.014	SE149556.015
% Moisture	%w/w	0.5	13	14	12	18	17

			18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.016	SE149556.017	SE149556.018	SE149556.019	SE149556.020
% Moisture	%w/w	0.5	14	15	18	13	14

			25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.021	SE149556.022	SE149556.023	SE149556.024	SE149556.025
% Moisture	%w/w	0.5	13	19	15	15	15

			31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.026	SE149556.027	SE149556.028	SE149556.029	SE149556.030
% Moisture	%w/w	0.5	17	16	17	18	21

			38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.031	SE149556.032	SE149556.033	SE149556.034	SE149556.035
% Moisture	%w/w	0.5	9.0	8.9	7.6	15	11



ANALYTICAL RESULTS

SE149556 R0

Moisture Content [AN002] Tested: 2/3/2016 (continued)

			47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.036	SE149556.037	SE149556.038	SE149556.039	SE149556.040
% Moisture	%w/w	0.5	8.8	15	15	15	22

			53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.041	SE149556.042	SE149556.043	SE149556.044	SE149556.045
% Moisture	%w/w	0.5	23	13	13	16	19

			59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.046	SE149556.047	SE149556.048	SE149556.049	SE149556.050
% Moisture	%w/w	0.5	12	16	14	19	21

			65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.051	SE149556.052	SE149556.053	SE149556.054	SE149556.055
% Moisture	%w/w	0.5	12	19	16	15	7.9

			83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.056	SE149556.057	SE149556.058	SE149556.059	SE149556.060
% Moisture	%w/w	0.5	13	18	26	17	16

			89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.061	SE149556.062	SE149556.063	SE149556.064	SE149556.065
% Moisture	%w/w	0.5	19	22	19	23	18

			95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.066	SE149556.067	SE149556.068	SE149556.069	SE149556.070
% Moisture	%w/w	0.5	8.8	19	16	16	14



ANALYTICAL RESULTS

SE149556 R0

Moisture Content [AN002] Tested: 2/3/2016 (continued)

			101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.071	SE149556.072	SE149556.073	SE149556.074	SE149556.075
% Moisture	%w/w	0.5	17	23	15	9.9	16

			108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			29/2/2016	29/2/2016	29/2/2016	29/2/2016	29/2/2016
PARAMETER	UOM	LOR	SE149556.076	SE149556.077	SE149556.078	SE149556.079	SE149556.080
% Moisture	%w/w	0.5	15	8.1	18	17	22

			88-BH14 5
			SOIL
			-
			29/2/2016
PARAMETER	UOM	LOR	SE149556.081
% Moisture	%w/w	0.5	7.9



ANALYTICAL RESULTS

SE149556 R0

Fibre Identification in soil [AN602] Tested: 4/3/2016

			1-BH1 500	2-BH1 1	3-BH1 2	4-BH1 3	5-BH1 4
			SOIL - 29/2/2016 SE149556.001	SOIL - 29/2/2016 SE149556.002	SOIL - 29/2/2016 SE149556.003	SOIL - 29/2/2016 SE149556.004	SOIL - 29/2/2016 SE149556.005
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	Yes	Yes	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			6-BH1 5	7-BH1 6	8-BH1 7	9-BH1 8	11-BH2 500
			SOIL - 29/2/2016 SE149556.006	SOIL - 29/2/2016 SE149556.007	SOIL - 29/2/2016 SE149556.008	SOIL - 29/2/2016 SE149556.009	SOIL - 29/2/2016 SE149556.010
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			12-BH2 1	13-BH2 2	14-BH2 3	15-BH2 4	17-BH3 500
			SOIL - 29/2/2016 SE149556.011	SOIL - 29/2/2016 SE149556.012	SOIL - 29/2/2016 SE149556.013	SOIL - 29/2/2016 SE149556.014	SOIL - 29/2/2016 SE149556.015
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			18-BH3 1	20-BH3 3	22-BH4 500	23-BH4 1	24-BH4 2
			SOIL - 29/2/2016 SE149556.016	SOIL - 29/2/2016 SE149556.017	SOIL - 29/2/2016 SE149556.018	SOIL - 29/2/2016 SE149556.019	SOIL - 29/2/2016 SE149556.020
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			25-BH4 3	26-BH4 4	27-BH4 5	29-BH5 500	30-BH5 1
			SOIL - 29/2/2016 SE149556.021	SOIL - 29/2/2016 SE149556.022	SOIL - 29/2/2016 SE149556.023	SOIL - 29/2/2016 SE149556.024	SOIL - 29/2/2016 SE149556.025
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			31-BH5 2	32-BH5 3	33-BH5 4	36-BH6 500	37-BH6 1
			SOIL - 29/2/2016 SE149556.026	SOIL - 29/2/2016 SE149556.027	SOIL - 29/2/2016 SE149556.028	SOIL - 29/2/2016 SE149556.029	SOIL - 29/2/2016 SE149556.030
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			38-BH6 2	39-BH6 3	41-BH6 5	45-BH7 500	46-BH7 1
			SOIL - 29/2/2016 SE149556.031	SOIL - 29/2/2016 SE149556.032	SOIL - 29/2/2016 SE149556.033	SOIL - 29/2/2016 SE149556.034	SOIL - 29/2/2016 SE149556.035
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01



ANALYTICAL RESULTS

SE149556 R0

Fibre Identification in soil [AN602] Tested: 4/3/2016 (continued)

			47-BH7 2	49-BH8 500	50-BH8 1	51-BH8 2	52-BH8 2.5
			SOIL - 29/2/2016 SE149556.036	SOIL - 29/2/2016 SE149556.037	SOIL - 29/2/2016 SE149556.038	SOIL - 29/2/2016 SE149556.039	SOIL - 29/2/2016 SE149556.040
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			53-BH8 3	54-BH8 4	56-BH9 500	57-BH9 1	58-BH9 2
			SOIL - 29/2/2016 SE149556.041	SOIL - 29/2/2016 SE149556.042	SOIL - 29/2/2016 SE149556.043	SOIL - 29/2/2016 SE149556.044	SOIL - 29/2/2016 SE149556.045
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			59-BH9 4	61-BH10 500	62-BH10 1	63-BH10 2	64-BH10 3
			SOIL - 29/2/2016 SE149556.046	SOIL - 29/2/2016 SE149556.047	SOIL - 29/2/2016 SE149556.048	SOIL - 29/2/2016 SE149556.049	SOIL - 29/2/2016 SE149556.050
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			65-BH10 4	67-BH11 500	68-BH11 1	69-BH11 2	70-BH11 3
			SOIL - 29/2/2016 SE149556.051	SOIL - 29/2/2016 SE149556.052	SOIL - 29/2/2016 SE149556.053	SOIL - 29/2/2016 SE149556.054	SOIL - 29/2/2016 SE149556.055
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			83-BH14 500	84-BH14 1	85-BH14 2	86-BH14 3	87-BH14 4
			SOIL - 29/2/2016 SE149556.056	SOIL - 29/2/2016 SE149556.057	SOIL - 29/2/2016 SE149556.058	SOIL - 29/2/2016 SE149556.059	SOIL - 29/2/2016 SE149556.060
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			89-BH15 Surface	90-BH15 500	91-BH15 1	93-BH1 3	94-BH15 4
			SOIL - 29/2/2016 SE149556.061	SOIL - 29/2/2016 SE149556.062	SOIL - 29/2/2016 SE149556.063	SOIL - 29/2/2016 SE149556.064	SOIL - 29/2/2016 SE149556.065
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			95-BH15 5	97-BH16 500	98-BH16 1	99-BH16 2	100-BH16 3
			SOIL - 29/2/2016 SE149556.066	SOIL - 29/2/2016 SE149556.067	SOIL - 29/2/2016 SE149556.068	SOIL - 29/2/2016 SE149556.069	SOIL - 29/2/2016 SE149556.070
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01



ANALYTICAL RESULTS

SE149556 R0

Fibre Identification in soil [AN602] Tested: 4/3/2016 (continued)

			101-BH16 4	103-BH16 6	105-QA1	106-QA2	107-QA3
			SOIL - 29/2/2016 SE149556.071	SOIL - 29/2/2016 SE149556.072	SOIL - 29/2/2016 SE149556.073	SOIL - 29/2/2016 SE149556.074	SOIL - 29/2/2016 SE149556.075
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			108-QA4	109-QA5	110-QA6	111-QA7	112-QA8
			SOIL - 29/2/2016 SE149556.076	SOIL - 29/2/2016 SE149556.077	SOIL - 29/2/2016 SE149556.078	SOIL - 29/2/2016 SE149556.079	SOIL - 29/2/2016 SE149556.080
PARAMETER	UOM	LOR					
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

			88-BH14 5
			SOIL - 29/2/2016 SE149556.081
PARAMETER	UOM	LOR	
Asbestos Detected	No unit	-	No
Estimated Fibres*	%w/w	0.01	<0.01

METHOD

METHODOLOGY SUMMARY

AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN400	OC and OP Pesticides by GC-ECD: The determination of organochlorine (OC) and organophosphorus (OP) pesticides and polychlorinated biphenyls (PCBs) in soils, sludges and groundwater. (Based on USEPA methods 3510, 3550, 8140 and 8080.)
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433/AN434/AN410	VOCs and C6-C9/C6-C10 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf).
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

AN602

The sample can be reported "no asbestos found at the reporting limit of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-

- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres);
- (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and
- (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Samples analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- a. 1 Bq is equivalent to 27 pCi
- b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here : <http://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf>

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at <http://www.sgs.com/en/terms-and-conditions>. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

This report must not be reproduced, except in full.

CLIENT DETAILS

Contact Harrison Leake
Client Sydney Environmental & Soil Laboratory Pty Ltd
Address

Telephone 02 9980 6554
Facsimile 02 9484 2427
Email subsamples@sesl.com.au

Project **38160 - COC No 21405**
Order Number **38160**
Samples 81

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE149556 R0**
Date Received 29 Feb 2016
Date Reported 08 Mar 2016

COMMENTS

Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all samples using trace analysis technique.

A portion of the sample supplied has been sub-sampled for asbestos according to SGS In-house procedures. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Environmental Services recommends supplying approximately 50-100g of sample in a separate container.

Sample #3: 2-4mm length fibre bundles x4 found loose in sample.
Sample #4: 2-5mm length fibre bundles x5 found loose in sample.
Sample #80: Insufficient sample provided for asbestos analysis.

Asbestos analysed by Approved Identifiers Ravee Sivasubramaniam and Yusuf Kuthpudin

SIGNATORIES



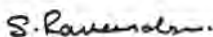
Andy Sutton
Senior Organic Chemist



Kamrul Ahsan
Senior Chemist



Ly Kim Ha
Organic Section Head



Ravee Sivasubramaniam
Asbestos Analyst/Hygiene Team Leader



ANALYTICAL REPORT

SE149556 R0

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification
SE149556.001	1-BH1 500	Soil	59g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.002	2-BH1 1	Soil	69g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.003	3-BH1 2	Soil	51g Clay, Sand, Rocks	29 Feb 2016	Chrysotile Asbestos Found <0.01
SE149556.004	4-BH1 3	Soil	73g Clay, Sand, Rocks	29 Feb 2016	Amosite & Chrysotile Asbestos Found <0.01
SE149556.005	5-BH1 4	Soil	95g Clay, Sand	29 Feb 2016	No Asbestos Found <0.01
SE149556.006	6-BH1 5	Soil	77g Clay, Sand, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.007	7-BH1 6	Soil	43g Clay, Sand, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.008	8-BH1 7	Soil	56g Clay, Sand, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.009	9-BH1 8	Soil	53g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.010	11-BH2 500	Soil	45g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.011	12-BH2 1	Soil	60g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.012	13-BH2 2	Soil	71g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.013	14-BH2 3	Soil	47g Clay	29 Feb 2016	No Asbestos Found <0.01
SE149556.014	15-BH2 4	Soil	65g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.015	17-BH3 500	Soil	48g Clay	29 Feb 2016	No Asbestos Found <0.01
SE149556.016	18-BH3 1	Soil	85g Clay	29 Feb 2016	No Asbestos Found <0.01
SE149556.017	20-BH3 3	Soil	63g Clay	29 Feb 2016	No Asbestos Found <0.01
SE149556.018	22-BH4 500	Soil	51g Clay, Sand, Soil, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.019	23-BH4 1	Soil	75g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.020	24-BH4 2	Soil	59g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.021	25-BH4 3	Soil	73g Clay	29 Feb 2016	No Asbestos Found <0.01
SE149556.022	26-BH4 4	Soil	43g Clay	29 Feb 2016	No Asbestos Found <0.01
SE149556.023	27-BH4 5	Soil	39g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.024	29-BH5 500	Soil	56g Clay	29 Feb 2016	No Asbestos Found <0.01
SE149556.025	30-BH5 1	Soil	70g Clay	29 Feb 2016	No Asbestos Found <0.01
SE149556.026	31-BH5 2	Soil	73g Clay	29 Feb 2016	No Asbestos Found <0.01
SE149556.027	32-BH5 3	Soil	41g Clay	29 Feb 2016	No Asbestos Found <0.01
SE149556.028	33-BH5 4	Soil	49g Clay, Rocks	29 Feb 2016	No Asbestos Found Organic Fibres Detected <0.01
SE149556.029	36-BH6 500	Soil	48g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.030	37-BH6 1	Soil	43g Clay, Rocks	29 Feb 2016	No Asbestos Found <0.01
SE149556.031	38-BH6 2	Soil	61g Clay, Soil	29 Feb 2016	No Asbestos Found <0.01
SE149556.032	39-BH6 3	Soil	75g Clay	29 Feb 2016	No Asbestos Found <0.01
SE149556.033	41-BH6 5	Soil	67g Clay, Soil	29 Feb 2016	No Asbestos Found <0.01



ANALYTICAL REPORT

SE149556 R0

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est. %w/w*
SE149556.034	45-BH7 500	Soil	53g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.035	46-BH7 1	Soil	61g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.036	47-BH7 2	Soil	71g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.037	49-BH8 500	Soil	45g Clay, Rocks	29 Feb 2016	No Asbestos Found	<0.01
SE149556.038	50-BH8 1	Soil	60g Clay, Rocks	29 Feb 2016	No Asbestos Found	<0.01
SE149556.039	51-BH8 2	Soil	59g Clay, Rocks	29 Feb 2016	No Asbestos Found	<0.01
SE149556.040	52-BH8 2.5	Soil	60g Clay, Soil	29 Feb 2016	No Asbestos Found	<0.01
SE149556.041	53-BH8 3	Soil	45g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.042	54-BH8 4	Soil	42g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.043	56-BH9 500	Soil	57g Clay, Soil, Rocks	29 Feb 2016	No Asbestos Found	<0.01
SE149556.044	57-BH9 1	Soil	53g Clay, Rocks	29 Feb 2016	No Asbestos Found	<0.01
SE149556.045	58-BH9 2	Soil	64g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.046	59-BH9 4	Soil	51g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.047	61-BH10 500	Soil	31g Clay, Rocks	29 Feb 2016	No Asbestos Found	<0.01
SE149556.048	62-BH10 1	Soil	77g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.049	63-BH10 2	Soil	70g Clay, Soil, Rocks	29 Feb 2016	No Asbestos Found	<0.01
SE149556.050	64-BH10 3	Soil	78g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.051	65-BH10 4	Soil	60g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.052	67-BH11 500	Soil	48g Clay, Soil, Rocks	29 Feb 2016	No Asbestos Found	<0.01
SE149556.053	68-BH11 1	Soil	39g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.054	69-BH11 2	Soil	59g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.055	70-BH11 3	Soil	63g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.056	83-BH14 500	Soil	79g Sand, Soil	29 Feb 2016	No Asbestos Found	<0.01
SE149556.057	84-BH14 1	Soil	73g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.058	85-BH14 2	Soil	50g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.059	86-BH14 3	Soil	41g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.060	87-BH14 4	Soil	60g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.061	89-BH15 Surface	Soil	55g Clay, Sand, Soil, Rocks	29 Feb 2016	No Asbestos Found	<0.01
SE149556.062	90-BH15 500	Soil	69g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.063	91-BH15 1	Soil	56g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.064	93-BH1 3	Soil	36g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.065	94-BH15 4	Soil	63g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.066	95-BH15 5	Soil	47g Clay, Soil	29 Feb 2016	No Asbestos Found	<0.01
SE149556.067	97-BH16 500	Soil	62g Clay, Soil	29 Feb 2016	No Asbestos Found	<0.01



ANALYTICAL REPORT

SE149556 R0

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est. %w/w*
SE149556.068	98-BH16 1	Soil	55g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.069	99-BH16 2	Soil	31g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.070	100-BH16 3	Soil	49g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.071	101-BH16 4	Soil	67g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.072	103-BH16 6	Soil	24g Clay, Soil	29 Feb 2016	No Asbestos Found	<0.01
SE149556.073	105-QA1	Soil	69g Clay, Soil	29 Feb 2016	No Asbestos Found	<0.01
SE149556.074	106-QA2	Soil	23g Clay, Soil	29 Feb 2016	No Asbestos Found	<0.01
SE149556.075	107-QA3	Soil	16g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.076	108-QA4	Soil	31g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.077	109-QA5	Soil	17g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.078	110-QA6	Soil	9g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.079	111-QA7	Soil	72g Clay	29 Feb 2016	No Asbestos Found	<0.01
SE149556.080	112-QA8	Soil		29 Feb 2016	No Asbestos Found	<0.01
SE149556.081	88-BH14 5	Soil	72g Clay	29 Feb 2016	No Asbestos Found	<0.01

METHOD

METHODOLOGY SUMMARY

- AN602 Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
- AN602 Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf).
- AN602 AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
- AN602 The sample can be reported "no asbestos found at the reporting limit of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-
- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres);
 - (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and
 - (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service.
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Sampled by the client.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.

Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.

Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here : <http://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf>

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at <http://www.sgs.com/en/terms-and-conditions>. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

This test report shall not be reproduced, except in full.

CLIENT DETAILS

Contact Harrison Leake
Client Sydney Environmental & Soil Laboratory Pty Ltd
Address (PO Box 357, Pennant Hills NSW 1715)
 16 Chilvers Road
 NSW 2120

Telephone 02 9980 6554
Facsimile 02 9484 2427
Email subsamples@sesl.com.au

Project **38445 - COC No 21542**
Order Number **38445**
Samples 4

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
 Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE150241 R0**
Date Received 18/3/2016
Date Reported 23/3/2016

COMMENTS

Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

SIGNATORIES



Andy Sutton
 Senior Organic Chemist

VOCs in Water [AN433/AN434] Tested: 21/3/2016

PARAMETER	UOM	LOR	MW1	MW2	MW3	MW4
			WATER - 18/3/2016 SE150241.001	WATER - 18/3/2016 SE150241.002	WATER - 18/3/2016 SE150241.003	WATER - 18/3/2016 SE150241.004
Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	<5	<5
Chloromethane	µg/L	5	<5	<5	<5	<5
Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	<0.3	<0.3
Bromomethane	µg/L	10	<10	<10	<10	<10
Chloroethane	µg/L	5	<5	<5	<5	<5
Trichlorofluoromethane	µg/L	1	<1	<1	<1	<1
Acetone (2-propanone)	µg/L	10	<10	<10	<10	<10
Iodomethane	µg/L	5	<5	<5	<5	<5
1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Acrylonitrile	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	<5	<5
Allyl chloride	µg/L	2	<2	<2	<2	<2
Carbon disulfide	µg/L	2	<2	<2	<2	<2
trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
MIBE (Methyl-tert-butyl ether)	µg/L	2	<2	<2	<2	<2
1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Vinyl acetate	µg/L	10	<10	<10	<10	<10
MEK (2-butanone)	µg/L	10	<10	<10	<10	<10
cis-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromochloromethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chloroform (THM)	µg/L	0.5	<0.5	7.1	<0.5	<0.5
2,2-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-nitropropane	µg/L	100	<100	<100	<100	<100
Bromodichloromethane (THM)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	<5	<5
cis-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane (THM)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-hexanone (MBK)	µg/L	5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromoform (THM)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1
cis-1,4-dichloro-2-butene	µg/L	1	<1	<1	<1	<1
Styrene (Vinyl benzene)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5
1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5



ANALYTICAL RESULTS

SE150241 R0

VOCs in Water [AN433/AN434] Tested: 21/3/2016 (continued)

PARAMETER	UOM	LOR	MW1	MW2	MW3	MW4
			WATER	WATER	WATER	WATER
			18/3/2016 SE150241.001	18/3/2016 SE150241.002	18/3/2016 SE150241.003	18/3/2016 SE150241.004
n-propylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-chlorotoluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
4-chlorotoluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-trimethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
tert-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trimethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
sec-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,4-dichlorobenzene	µg/L	0.3	<0.3	<0.3	<0.3	<0.3
p-isopropyltoluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
n-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-trichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-trichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Total BTEX	µg/L	3	<3	<3	<3	<3
Total VOC	µg/L	10	-	-	-	-



ANALYTICAL RESULTS

SE150241 R0

Volatile Petroleum Hydrocarbons in Water [AN433/AN434/AN410] Tested: 21/3/2016

PARAMETER	UOM	LOR	MW1	MW2	MW3	MW4
			WATER	WATER	WATER	WATER
			-	-	-	-
			18/3/2016 SE150241.001	18/3/2016 SE150241.002	18/3/2016 SE150241.003	18/3/2016 SE150241.004
TRH C6-C9	µg/L	40	<40	<40	<40	<40
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50	<50



ANALYTICAL RESULTS

SE150241 R0

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 21/3/2016

PARAMETER	UOM	LOR	MW1	MW2	MW3	MW4
			WATER	WATER	WATER	WATER
			-	-	-	-
			18/3/2016 SE150241.001	18/3/2016 SE150241.002	18/3/2016 SE150241.003	18/3/2016 SE150241.004
TRH C10-C14	µg/L	50	<50	<50	<50	<50
TRH C15-C28	µg/L	200	<200	740	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200
TRH >C10-C16 (F2)	µg/L	60	<60	<60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	750	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500
TRH C10-C36	µg/L	450	<450	740	<450	<450
TRH C10-C40	µg/L	650	<650	740	<650	<650



ANALYTICAL RESULTS

SE150241 R0

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 21/3/2016

PARAMETER	UOM	LOR	MW1	MW2	MW3	MW4
			WATER	WATER	WATER	WATER
			18/3/2016 SE150241.001	18/3/2016 SE150241.002	18/3/2016 SE150241.003	18/3/2016 SE150241.004
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1	<1

METHOD

METHODOLOGY SUMMARY

AN403

Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is not corrected for Naphthalene.

AN403

Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents .

AN403

The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.

AN420

(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

AN433/AN434/AN410

VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

AN433/AN434

VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.



FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Samples analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the $\pm$ sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

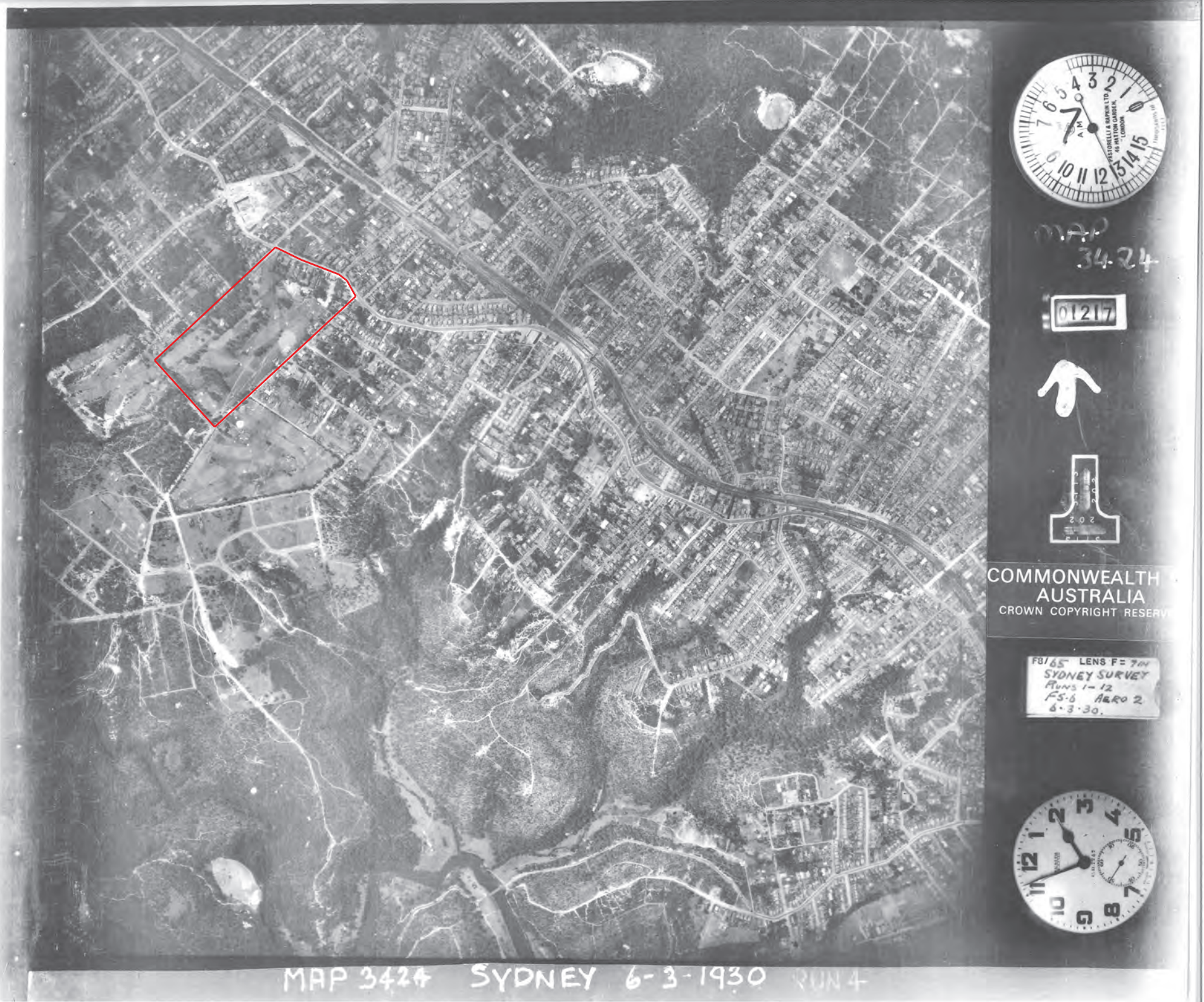
The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here : <http://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf>

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at <http://www.sgs.com/en/terms-and-conditions>. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

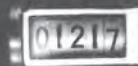
Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

This report must not be reproduced, except in full.

Appendix C



34-24



COMMONWEALTH
AUSTRALIA
CROWN COPYRIGHT RESERVE

FBI 65 LENS F=70M
SYDNEY SURVEY
Runs 1-12
FS-6 Aero 2
6-3-30



MAP 3424 SYDNEY 6-3-1930 RUN 4



472-94

1951

SYDNEY (Co.CUMBERLAND) RUN 7 ↓ MAY 51 12"12200

LANDSPHOTO



VSW

1049
5154

21A12
822
1-209.79

CUMBERLAND
1961
SERIES



Run 27 E



9,200' ASL
209.74MM



LANDS
PHOTO

N.S.W.
1911
5146

CUMBERLAND
1970 SERIES

NSW 1911

RUN 13
7.7.70

7.500A-SL
152.37 M-M
←

CROWN
COPY N.S.W.
LAND PHOTO
LOG E
1ST COPY