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Scientific Analysis Laboratories

Certificate of Analysis

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Report Number: 228671-1

Date of Report: 01-Mar-2011

Customer: Mini Soil Surveys (West) Ltd
19 St Catherine's Close
Bathwick Hill
Bath
BA2 6BS

Customer Contact: Mr Martin Shirley

Customer Job Reference:

Customer Site Reference: Rear of 95-101 Richmond Road

Date Job Received at SAL: 21-Feb-2011

Date Analysis Started: 22-Feb-2011

Date Analysis Completed: 28-Feb-2011

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs



1549

Report checked
and authorised by :
Miss Emma Tibbitts
Senior Project Manager

Issued by :
Miss Emma Tibbitts
Senior Project Manager

SAL Reference: 228671						
Project Site: Rear of 95-101 Richmond Road						
Customer Reference:						
Soil		Analysed as Soil				
ICRCL (Red. no sulphur or tolex)						
SAL Reference				228671 001	228671 002	
Customer Sample Reference				TP1 0.5m	BH2 0.2-0.8m	
Date Sampled				17-FEB-2011	17-FEB-2011	
Determinand	Method	Test Sample	LOD	Units		
Arsenic	T6	AR	1	mg/kg	35	37
Boron	T6	AR	1	mg/kg	<1	1
Cadmium	T6	AR	1	mg/kg	3	2
Chromium	T6	AR	1	mg/kg	27	26
Copper	T6	AR	1	mg/kg	110	110
Cyanide(Total)	T4	AR	1	mg/kg	<1	<1
Lead	T6	AR	1	mg/kg	830	1000
Mercury	T6	AR	1	mg/kg	2	<1
Nickel	T6	AR	1	mg/kg	45	43
pH	T7	AR			12.0	9.6
Phenols(Mono)	T4	AR	1	mg/kg	<1	<1
Selenium	T6	AR	3	mg/kg	<3	<3
SO4(Total)	T6	AR	0.01	%	0.35	0.43
Sulphide	T4	AR	10	mg/kg	<10	<10
Zinc	T6	AR	1	mg/kg	850	500

SAL Reference: 228671						
Project Site: Rear of 95-101 Richmond Road						
Customer Reference:						
Soil		Analysed as Soil				
TPH						
SAL Reference				228671 001	228671 002	
Customer Sample Reference				TP1 0.5m	BH2 0.2-0.8m	
Date Sampled				17-FEB-2011	17-FEB-2011	
Determinand	Method	Test Sample	LOD	Units		
TPH (C6-C8)	T54	AR	0.1	mg/kg	<0.1	<0.1
TPH (C8-C10)	T8	AR	1	mg/kg	<1	(9) <10
TPH (C10-C12)	T8	AR	1	mg/kg	<1	(9) <10
TPH (C12-C16)	T8	AR	1	mg/kg	8	(9) <10
TPH (C16-C21)	T8	AR	1	mg/kg	40	39
TPH (C21-C35)	T8	AR	1	mg/kg	180	150

SAL Reference: 228671

Project Site: Rear of 95-101 Richmond Road

Customer Reference:

Soil Analysed as Soil

Total and Speciated USEPA16 PAH

		SAL Reference		228671 001	228671 002	
		Customer Sample Reference		TP1 0.5m	BH2 0.2-0.8m	
		Date Sampled		17-FEB-2011	17-FEB-2011	
Determinand	Method	Test Sample	LOD	Units		
Naphthalene	T149	AR	0.01	mg/kg	0.17	0.12
Acenaphthylene	T149	AR	0.01	mg/kg	0.20	0.09
Acenaphthene	T149	AR	0.01	mg/kg	0.23	0.03
Fluorene	T149	AR	0.01	mg/kg	0.26	0.04
Phenanthrene	T149	AR	0.01	mg/kg	3.3	0.91
Anthracene	T149	AR	0.01	mg/kg	1.1	0.20
Fluoranthene	T149	AR	0.01	mg/kg	5.1	1.9
Pyrene	T149	AR	0.01	mg/kg	4.4	1.7
Benzo(a)Anthracene	T149	AR	0.01	mg/kg	2.3	0.93
Chrysene	T149	AR	0.01	mg/kg	2.4	1.1
Benzo(b/k)Fluoranthene	T149	AR	0.01	mg/kg	4.1	1.9
Benzo(a)Pyrene	T149	AR	0.01	mg/kg	2.1	0.99
Indeno(123-cd)Pyrene	T149	AR	0.01	mg/kg	1.0	0.50
Dibenzo(ah)Anthracene	T149	AR	0.01	mg/kg	0.29	0.15
Benzo(ghi)Perylene	T149	AR	0.01	mg/kg	1.3	0.60
PAH(total)	T149	AR	0.01	mg/kg	28	11

Index to symbols used in 228671-1

Value	Description
AR	As Received
9	LOD raised due to dilution of sample
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T54	GC/MS (Headspace)
T6	ICP/OES
T149	GC/MS (SIR)
T4	Colorimetry
T7	Probe
T8	GC/FID

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Sym bol	SAL References
Arsenic	T6	AR	1	mg/kg	U	001-002
Boron	T6	AR	1	mg/kg	N	001-002
Cadmium	T6	AR	1	mg/kg	U	001-002
Chromium	T6	AR	1	mg/kg	U	001-002
Copper	T6	AR	1	mg/kg	U	001-002
Cyanide(Total)	T4	AR	1	mg/kg	U	001-002
Lead	T6	AR	1	mg/kg	U	001-002
Mercury	T6	AR	1	mg/kg	U	001-002
Nickel	T6	AR	1	mg/kg	U	001-002
pH	T7	AR			U	001-002
Phenols(Mono)	T4	AR	1	mg/kg	U	001-002
Selenium	T6	AR	3	mg/kg	U	001-002
SO4(Total)	T6	AR	0.01	%	N	001-002
Sulphide	T4	AR	10	mg/kg	N	001-002
Zinc	T6	AR	1	mg/kg	U	001-002
TPH (C6-C8)	T54	AR	0.1	mg/kg	N	001-002
TPH (C8-C10)	T8	AR	1	mg/kg	N	001-002
TPH (C10-C12)	T8	AR	1	mg/kg	U	001-002
TPH (C12-C16)	T8	AR	1	mg/kg	U	001-002
TPH (C16-C21)	T8	AR	1	mg/kg	U	001-002
TPH (C21-C35)	T8	AR	1	mg/kg	U	001-002
Naphthalene	T149	AR	0.01	mg/kg	U	001-002
Acenaphthylene	T149	AR	0.01	mg/kg	U	001-002
Acenaphthene	T149	AR	0.01	mg/kg	U	001-002
Fluorene	T149	AR	0.01	mg/kg	U	001-002
Phenanthrene	T149	AR	0.01	mg/kg	U	001-002
Anthracene	T149	AR	0.01	mg/kg	U	001-002
Fluoranthene	T149	AR	0.01	mg/kg	U	001-002
Pyrene	T149	AR	0.01	mg/kg	U	001-002
Benzo(a)Anthracene	T149	AR	0.01	mg/kg	U	001-002
Chrysene	T149	AR	0.01	mg/kg	U	001-002
Benzo(b/k)Fluoranthene	T149	AR	0.01	mg/kg	U	001-002
Benzo(a)Pyrene	T149	AR	0.01	mg/kg	U	001-002
Indeno(123-cd)Pyrene	T149	AR	0.01	mg/kg	U	001-002
Dibenzo(ah)Anthracene	T149	AR	0.01	mg/kg	U	001-002
Benzo(ghi)Perylene	T149	AR	0.01	mg/kg	U	001-002
PAH(total)	T149	AR	0.01	mg/kg	U	001-002