PLOT NUMBER: 42

Developer: Bellway Homes **Date: 18/7/2018**
Pit Location: Rear Garden **Consultant: A.Reavley**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	0 mm bgl
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
N/A

GARDEN VALIDATION: PASS

PLOT NUMBER: 43

Developer: Bellway Homes **Date: 18/7/2018**
Pit Location: Rear Garden **Consultant: A.Reavley**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	0 mm bgl
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
Topsoil samples taken at 0.20 and 0.50m bgl respectively.

GARDEN VALIDATION: PASS

PLOT NUMBER: 117

Developer: Bellway Homes **Date: 18/7/2018**
Pit Location: Rear Garden **Consultant: A.Reavley**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	0 mm bgl
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
Topsoil samples taken at 0.20 and 0.50m bgl respectively.

GARDEN VALIDATION: PASS

SUITABILITY CRITERIA

Table 3.2: Validation Testing Summary

Determinand	Units	Screening Value for Use within Private Gardens	Maximum Concentration within Upper Topsoil	Maximum Concentration within Lower Topsoil	Screening Value Source
Inorganic Metals and Asbestos					
Arsenic	mg/kg	37	25	17	(i)
Cadmium	mg/kg	11	4	4	(i)
Chromium (VI)	mg/kg	6	<1	<1	(i)
Lead	mg/kg	200	150	130	(iv)
Inorganic Mercury	mg/kg	40	<1	<1	(i)
Nickel	mg/kg	130	21	23	(i)
Selenium	mg/kg	250	<3	<3	(i)
Copper	mg/kg	2,400	180	170	(i)
Zinc	mg/kg	3,700	130	100	(i)
Cyanide	mg/kg	791	<1	<1	(v)
Asbestos	%	None Detected	None Detected	None Detected.	N/A
Polycyclic Aromatic Hydrocarbons					
Phenol	mg/kg	200	<0.1	<0.1	(ii)
Naphthalene	mg/kg	5.6	<0.1	<0.1	(ii)
Acenaphthylene	mg/kg	420	<0.1	<0.1	(ii)
Acenaphthene	mg/kg	510	<0.1	<0.1	(ii)
Fluorene	mg/kg	400	<0.1	<0.1	(ii)
Phenanthrene	mg/kg	220	0.5	0.7	(ii)
Anthracene	mg/kg	2,400	<0.1	0.2	(ii)
Fluoranthene	mg/kg	280	0.9	1.4	(ii)
Pyrene	mg/kg	1200	0.9	1.2	(ii)
Benzo(a)Anthracene	mg/kg	2.7	0.4	0.6	(ii)
Chrysene	mg/kg	22	0.4	0.5	(ii)
Benzo(b)Fluoranthene	mg/kg	3.3	0.4	0.5	(ii)
Benzo(k)Fluoranthene	mg/kg	93	0.3	0.4	(ii)
Benzo(a)Pyrene	mg/kg	2.7	0.4	0.5	(ii)
Indeno(123-cd)Pyrene	mg/kg	36	0.2	0.3	(ii)
Dibenzo(a,h)Anthracene	mg/kg	0.28	0.1	0.1	(ii)
Benzo(ghi)Perylene	mg/kg	340	0.3	0.3	(ii)
Total Petroleum Hydrocarbons					
TPH C_5-C_6	mg/kg	78	<0.10	<0.10	(iii)
TPH C_6-C_8	mg/kg	230	<0.10	<0.10	(iii)
TPH C_8-C_{10}	mg/kg	65	<0.10	<0.10	(iii)
TPH C_{10}-C_{12}	mg/kg	180	[13]<1	[13]<1	(iii)
TPH C_{12}-C_{16}	mg/kg	330	[13]130	[13]<1	(iii)
TPH C_{16}-C_{21}	mg/kg	540	[13]330	[13]8	(iii)
TPH C_{21}-C_{35}	mg/kg	1,500	[13]320	[13]46	(iii)
TPH C_{35}-C_{44}	mg/kg	1,500	[13]27	[13]10	(iii)

Screening Value Source

(i) LQM/CIEH Suitable For Use Level (S4UL) (2015);
(ii) S4UL –Assessment Approach of 3% SOM;
(iii) S4UL –3% SOM and assumed worst case aliphatic / aromatic compound;
(iv) Defra Category 4 Screening Level (2014);
(v) CLEA v1.06 Derived Value.

SOIL CHEMICAL ANALYSIS

a CONCEPT LIFE SCIENCES company

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 572763-1

Date of Report: 01-Jun-2016

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Miss Sabine Sargeant

Customer Job Reference: 101754
Customer Purchase Order: 001151
Customer Site Reference: Scotchbarn Lane
Date Job Received at SAL: 18-May-2016
Date Analysis Started: 26-May-2016
Date Analysis Completed: 01-Jun-2016

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with Section 25 of the SAL Quality Manual

UKAS TESTING 1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Emma Spear
Project Manager

Issued by :
Emma Spear
Project Manager

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Bulk Product Analysed as Bulk Product
Asbestos ID

SAL Reference	**572763 004**
Customer Sample Reference	**TP102**
Bottom Depth	**0.4**
Date Sampled	**17-MAY-2016**
Type	**Fill**

Determinand	Method	Test Sample	LOD	Units	
Asbestos	T27	AR			Chrysotile Fibres Detected

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
Customer Sample Reference					**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
Bottom Depth					**1**	**0.4**	**0.2**	**0.7**	**0.2**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**11**	**7.2**	**7.4**	**7.4**	**18**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 008**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
Customer Sample Reference					**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
Bottom Depth					**2**	**2**	**0.5**	**2.1**	**0.5**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**7.3**	**11**	**18**	**18**	**9.7**
Retained on 10mm sieve	T2	M40	0.1	%	-	-	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 015**	**572763 016**	**572763 017**	**572763 018**	**572763 019**
Customer Sample Reference					**TP108**	**TP109**	**TP110**	**TP111**	**TP112**
Bottom Depth					**0.1**	**0.5**	**0.4**	**0.3**	**0.1**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**8.2**	**14**	**18**	**18**	**35**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 020**	**572763 022**	**572763 023**	**572763 025**	**572763 028**
				Customer Sample Reference	**TP112**	**TP113**	**TP113**	**WS102**	**WS104**
				Bottom Depth	**0.9**	**0.5**	**1.4**	**0.2**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**18**	**17**	**12**	**5.8**	**19**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 029**	**572763 031**	**572763 032**	**572763 033**	**572763 035**
				Customer Sample Reference	**WS105**	**WS108**	**WS108**	**WS109**	**WS110**
				Bottom Depth	**0.1**	**0.2**	**0.5**	**0.3**	**1.2**
				Date Sampled	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**25**	**23**	**16**	**15**	**26**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 039**
				Customer Sample Reference	**WS113**
				Bottom Depth	**0.7**
				Date Sampled	**19-MAY-2016**
				Type	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Moisture @105C	T162	AR	0.1	%	**5.2**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
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				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**8**	**25**	**17**	**5**	**18**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	**2**
Chromium	T6	M40	1	mg/kg	**30**	**18**	**26**	**20**	**20**
Lead	T6	M40	1	mg/kg	**11**	**110**	**32**	**5**	**66**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**17**	**70**	**69**	**7**	**81**
Nickel	T6	M40	1	mg/kg	**26**	**28**	**34**	**17**	**19**
Zinc	T6	M40	1	mg/kg	**48**	**190**	**120**	**23**	**98**
pH	T7	AR			**5.8**	**7.1**	**8.2**	**7.5**	**5.9**
SO4(Total)	T6	M40	0.01	%	**0.02**	**0.30**	**0.07**	**0.01**	**0.07**
SO4(2:1)	T6	AR	100	mg/l	<100	**310**	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**3**	**2**	**2**	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**36**	**37**	**41**	**24**	**32**
Barium	T6	M40	1	mg/kg	**100**	**150**	**160**	**26**	**98**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	**1**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 011**	**572763 012**	**572763 013**	**572763 015**	**572763 016**
				Customer Sample Reference	**TP106**	**TP106**	**TP107**	**TP108**	**TP109**
				Bottom Depth	**0.5**	**2.1**	**0.5**	**0.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**18**	**4**	**16**	**13**	**13**
Cadmium	T6	M40	1	mg/kg	**3**	<1	**2**	<1	**2**
Chromium	T6	M40	1	mg/kg	**23**	**17**	**23**	**28**	**22**
Lead	T6	M40	1	mg/kg	**120**	**7**	**190**	**150**	**100**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**130**	**12**	**48**	**61**	**84**
Nickel	T6	M40	1	mg/kg	**20**	**16**	**18**	**21**	**18**
Zinc	T6	M40	1	mg/kg	**140**	**24**	**270**	**170**	**130**
pH	T7	AR			**6.9**	**6.7**	**6.9**	**7.4**	**7.4**
SO4(Total)	T6	M40	0.01	%	**0.07**	<0.01	**0.88**	**0.08**	**0.15**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**650**	**130**	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**2**	<2	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**36**	**20**	**36**	**30**	**31**
Barium	T6	M40	1	mg/kg	**97**	**35**	**280**	**150**	**150**
Cyanide(Total)	T546	AR	1	mg/kg	**1**	<1	**1**	**1**	<1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
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				SAL Reference	**572763 017**	**572763 018**	**572763 019**	**572763 020**	**572763 022**
				Customer Sample Reference	**TP110**	**TP111**	**TP112**	**TP112**	**TP113**
				Bottom Depth	**0.4**	**0.3**	**0.1**	**0.9**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**10**	**18**	**12**	**21**	**10**
Cadmium	T6	M40	1	mg/kg	<1	**3**	**4**	**4**	<1
Chromium	T6	M40	1	mg/kg	**14**	**35**	**19**	**21**	**52**
Lead	T6	M40	1	mg/kg	**92**	**140**	**100**	**110**	**12**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**42**	**150**	**170**	**130**	**17**
Nickel	T6	M40	1	mg/kg	**16**	**28**	**16**	**15**	**29**
Zinc	T6	M40	1	mg/kg	**170**	**160**	**120**	**110**	**47**
pH	T7	AR			**7.7**	**7.0**	**5.3**	**4.6**	**5.8**
SO4(Total)	T6	M40	0.01	%	**0.04**	**0.07**	**0.11**	**0.09**	**0.02**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	<2	**2**	<2	<2	**3**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	**3**	<1	<1
Vanadium	T6	M40	1	mg/kg	**25**	**39**	**27**	**28**	**55**
Barium	T6	M40	1	mg/kg	**100**	**160**	**93**	**98**	**78**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 023**	**572763 025**	**572763 028**	**572763 029**	**572763 031**
				Customer Sample Reference	**TP113**	**WS102**	**WS104**	**WS105**	**WS108**
				Bottom Depth	**1.4**	**0.2**	**0.2**	**0.1**	**0.2**
				Date Sampled	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**10**	**18**	**19**	**18**	**15**
Cadmium	T6	M40	1	mg/kg	<1	<1	**3**	**4**	**4**
Chromium	T6	M40	1	mg/kg	**33**	**16**	**20**	**25**	**23**
Lead	T6	M40	1	mg/kg	**16**	**65**	**130**	**120**	**110**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**15**	**21**	**160**	**180**	**180**
Nickel	T6	M40	1	mg/kg	**37**	**16**	**20**	**21**	**20**
Zinc	T6	M40	1	mg/kg	**38**	**86**	**140**	**150**	**130**
pH	T7	AR			**6.6**	**10.7**	**6.5**	**6.4**	**6.3**
SO4(Total)	T6	M40	0.01	%	**0.01**	**0.61**	**0.09**	**0.09**	**0.09**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**2**	<2	**2**	**2**	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	**1**	**2**	**1**
Vanadium	T6	M40	1	mg/kg	**41**	**25**	**30**	**34**	**32**
Barium	T6	M40	1	mg/kg	**100**	**110**	**110**	**110**	**100**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 032**	**572763 033**	**572763 035**	**572763 039**
				Customer Sample Reference	**WS108**	**WS109**	**WS110**	**WS113**
				Bottom Depth	**0.5**	**0.3**	**1.2**	**0.7**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Arsenic	T6	M40	2	mg/kg	**15**	**21**	**21**	**5**
Cadmium	T6	M40	1	mg/kg	**2**	**2**	**3**	<1
Chromium	T6	M40	1	mg/kg	**21**	**27**	**19**	**33**
Lead	T6	M40	1	mg/kg	**110**	**170**	**190**	**33**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**93**	**120**	**250**	**44**
Nickel	T6	M40	1	mg/kg	**19**	**42**	**23**	**24**
Zinc	T6	M40	1	mg/kg	**110**	**170**	**450**	**120**
pH	T7	AR			**6.4**	**6.4**	**6.7**	**7.8**
SO4(Total)	T6	M40	0.01	%	**0.06**	**0.11**	**0.18**	**0.03**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**170**	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	<2	**3**	**2**	**2**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**34**	**52**	**32**	**46**
Barium	T6	M40	1	mg/kg	**87**	**210**	**170**	**86**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1

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				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.2**	<0.1	**0.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.4**	**0.6**	<0.1	**0.4**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.3**	**0.9**	<0.1	**0.4**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.3**	<0.1	**0.2**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.5**	<0.1	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.6**	<0.1	**0.3**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.4**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.7**	**0.4**	<0.1	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.4**	<0.1	**0.1**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**8.3**	**3.9**	<0.1	**2.0**

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				SAL Reference	**572763 011**	**572763 012**	**572763 013**	**572763 015**	**572763 016**
				Customer Sample Reference	**TP106**	**TP106**	**TP107**	**TP108**	**TP109**
				Bottom Depth	**0.5**	**2.1**	**0.5**	**0.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**0.1**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**0.1**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.0**	**1.7**	**1.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	**0.5**	**0.3**
Fluoranthene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**2.2**	**3.3**	**2.0**
Pyrene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**2.0**	**3.3**	**2.0**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.0**	**2.3**	**1.1**
Chrysene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.2**	**2.6**	**1.3**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.4**	**3.3**	**1.4**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.4**	**0.5**	**0.3**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.0**	**2.2**	**1.0**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.6**	**1.2**	**0.5**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.3**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.8**	**1.5**	**0.6**
PAH(total)	T207	M105	0.1	mg/kg	**2.6**	<0.1	**12**	**23**	**12**

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				SAL Reference	**572763 017**	**572763 018**	**572763 019**	**572763 020**	**572763 022**
				Customer Sample Reference	**TP110**	**TP111**	**TP112**	**TP112**	**TP113**
				Bottom Depth	**0.4**	**0.3**	**0.1**	**0.9**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.6**	**0.2**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**1.7**	**0.5**	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**1.7**	**0.5**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.9**	**0.2**	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**1.0**	**0.3**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**1.2**	**0.3**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.2**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.8**	**0.2**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.5**	**0.1**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.3**	**0.6**	**0.1**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**5.1**	**9.4**	**2.5**	<0.1

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				SAL Reference	**572763 023**	**572763 025**	**572763 028**	**572763 029**	**572763 031**
				Customer Sample Reference	**TP113**	**WS102**	**WS104**	**WS105**	**WS108**
				Bottom Depth	**1.4**	**0.2**	**0.2**	**0.1**	**0.2**
				Date Sampled	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.7**	**0.2**	**0.3**	**0.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.7**	**0.6**	**0.6**	**0.5**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.6**	**0.6**	**0.6**	**0.5**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**1.0**	**0.3**	**0.3**	**0.2**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.3**	**0.3**	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.2**	**0.5**	**0.5**	**0.3**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.3**	**0.3**	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.2**	**0.2**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.2**	**0.2**	**0.2**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**9.5**	**3.3**	**3.4**	**2.3**

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 032**	**572763 033**	**572763 035**	**572763 039**
				Customer Sample Reference	**WS108**	**WS109**	**WS110**	**WS113**
				Bottom Depth	**0.5**	**0.3**	**1.2**	**0.7**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.4**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.3**	**1.0**	**0.8**	<0.1
Pyrene	T207	M105	0.1	mg/kg	**0.3**	**0.9**	**0.7**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.1**	**0.6**	**0.4**	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.1**	**0.6**	**0.4**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.1**	**0.7**	**0.4**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.3**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.3**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**0.9**	**6.5**	**3.9**	<0.1

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				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	**(13) 2**	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	**(13) 6**	**(13) 2**	(13) <1	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1	**(13) 10**	**(13) 13**	(13) <1	**(13) 2**
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1	**(13) 36**	**(13) 150**	(13) <1	**(13) 7**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	**(13) 20**	**(13) 77**	**(13) 2**	(13) <1

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				SAL Reference	**572763 008**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	**0.84**	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13,9) <10
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(9,13) <10
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1	(13) <1	**(13) 1**	(13) <1	(9,13) <10
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1	(13) <1	**(13) 10**	(13) <1	**(13) 11**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	**(13) 10**

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				SAL Reference	**572763 015**	**572763 016**	**572763 017**	**572763 018**	**572763 019**
				Customer Sample Reference	**TP108**	**TP109**	**TP110**	**TP111**	**TP112**
				Bottom Depth	**0.1**	**0.5**	**0.4**	**0.3**	**0.1**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	**(13) 3**	**(13) 2**	(13) <1	(13) <1	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 35**	**(13) 18**	(13) <1	**(13) 3**	**(13) 3**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 340**	**(13) 73**	(13) <1	**(13) 15**	**(13) 14**
TPH (C35-C44)	T8	M105	1	mg/kg	**(13) 120**	**(13) 23**	(13) <1	(13) <1	**(13) 1**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 020**	**572763 022**	**572763 023**	**572763 025**	**572763 028**
				Customer Sample Reference	**TP112**	**TP113**	**TP113**	**WS102**	**WS104**
				Bottom Depth	**0.9**	**0.5**	**1.4**	**0.2**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 6**	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 1**	(13) <1	(13) <1	**(13) 33**	**(13) 1**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 9**	(13) <1	(13) <1	**(13) 180**	**(13) 11**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 65**	(13) <1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 029**	**572763 031**	**572763 032**	**572763 033**	**572763 035**
				Customer Sample Reference	**WS105**	**WS108**	**WS108**	**WS109**	**WS110**
				Bottom Depth	**0.1**	**0.2**	**0.5**	**0.3**	**1.2**
				Date Sampled	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 3**	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 3**	(13) <1	(13) <1	**(13) 9**	**(13) 5**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 12**	**(13) 6**	**(13) 7**	**(13) 17**	**(13) 14**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 1**	**(13) 1**

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Project Site: Scotchbarn Lane
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Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 039**
				Customer Sample Reference	**WS113**
				Bottom Depth	**0.7**
				Date Sampled	**19-MAY-2016**
				Type	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 001**	**572763 002**	**572763 003**	**572763 005**	**572763 006**
				Customer Sample Reference	**TP101**	**TP101**	**TP102**	**TP103**	**TP103**
				Bottom Depth	**1**	**2.2**	**0.4**	**0.2**	**0.7**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			-	**6.5**	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**310**	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 007**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**0.2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			-	**7.2**	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	**650**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 014**	**572763 015**	**572763 016**	**572763 017**	**572763 018**
				Customer Sample Reference	**TP107**	**TP108**	**TP109**	**TP110**	**TP111**
				Bottom Depth	**1.2**	**0.1**	**0.5**	**0.4**	**0.3**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			**6.4**	-	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	**130**	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 019**	**572763 020**	**572763 022**	**572763 023**	**572763 025**
				Customer Sample Reference	**TP112**	**TP112**	**TP113**	**TP113**	**WS102**
				Bottom Depth	**0.1**	**0.9**	**0.5**	**1.4**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 028**	**572763 029**	**572763 031**	**572763 032**	**572763 033**
				Customer Sample Reference	**WS104**	**WS105**	**WS108**	**WS108**	**WS109**
				Bottom Depth	**0.2**	**0.1**	**0.2**	**0.5**	**0.3**
				Date Sampled	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 035**	**572763 039**	**572763 040**
				Customer Sample Reference	**WS110**	**WS113**	**WS113**
				Bottom Depth	**1.2**	**0.7**	**1.4**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			-	-	**7.6**
SO4(2:1)	T6	AR	100	mg/l	**170**	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 001**	**572763 002**	**572763 003**	**572763 005**	**572763 006**
				Customer Sample Reference	**TP101**	**TP101**	**TP102**	**TP103**	**TP103**
				Bottom Depth	**1**	**2.2**	**0.4**	**0.2**	**0.7**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**310**	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 007**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**0.2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	**650**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 014**	**572763 015**	**572763 016**	**572763 017**	**572763 018**
				Customer Sample Reference	**TP107**	**TP108**	**TP109**	**TP110**	**TP111**
				Bottom Depth	**1.2**	**0.1**	**0.5**	**0.4**	**0.3**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			-	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	**130**	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 019**	**572763 020**	**572763 022**	**572763 023**	**572763 025**
				Customer Sample Reference	**TP112**	**TP112**	**TP113**	**TP113**	**WS102**
				Bottom Depth	**0.1**	**0.9**	**0.5**	**1.4**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
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Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 028**	**572763 029**	**572763 031**	**572763 032**	**572763 033**
				Customer Sample Reference	**WS104**	**WS105**	**WS108**	**WS108**	**WS109**
				Bottom Depth	**0.2**	**0.1**	**0.2**	**0.5**	**0.3**
				Date Sampled	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 035**	**572763 039**	**572763 040**
				Customer Sample Reference	**WS110**	**WS113**	**WS113**
				Bottom Depth	**1.2**	**0.7**	**1.4**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Asbestos ID	T27	AR			N.D.	N.D.	-
SO4(2:1)	T6	AR	100	mg/l	**170**	<100	<100

Index to symbols used in 572763-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
13	Results have been blank corrected.
9	LOD raised due to dilution of sample
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos was sub-contracted to REC Asbestos.
"Fill" samples are outside the scope of our MCERTS accreditation. Results are UKAS only.

Method Index

Value	Description
T7	Probe
T54	GC/MS (Headspace)
T546	Colorimetry (CF)
T162	Grav (1 Dec) (105 C)
T27	PLM
T207	GC/MS (MCERTS)
T8	GC/FID
T6	ICP/OES
T206	GC/FID (MCERTS)
T2	Grav

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos	T27	AR			SU	004
Moisture @105C	T162	AR	0.1	%	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
Retained on 10mm sieve	T2	M40	0.1	%	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Arsenic	T6	M40	2	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Cadmium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Chromium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Lead	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Mercury	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Selenium	T6	M40	3	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Copper	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Nickel	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Zinc	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
pH	T7	AR			M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
SO4(Total)	T6	M40	0.01	%	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
SO4(2:1)	T6	AR	100	mg/l	N	001-003,005-007,009,011-020,022-023,025,028-029,031-033,035,039-040
Chromium VI	T6	AR	1	mg/kg	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Barium	T6	M40	1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Beryllium	T6	M40	2	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Cyanide(Total)	T546	AR	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Phenols(Mono)	T546	AR	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Vanadium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Naphthalene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Acenaphthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Fluorene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Phenanthrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Anthracene	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Chrysene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
PAH(total)	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C10-C12)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C12-C16)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C16-C21)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C21-C35)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C35-C44)	T8	M105	1	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
pH	T7	AR			U	002,009,014,040
Asbestos ID	T27	AR			SU	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039

CONCEPT LIFE SCIENCES
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Concept Life Sciences

Certificate of Analysis

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Report Number: 640278-1

Date of Report: 22-Mar-2017

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Miss Louise Stock

Customer Job Reference: 103358
Customer Purchase Order: 002602
Customer Site Reference: Scotchbarn Lane
Date Job Received at Concept: 16-Mar-2017
Date Analysis Started: 20-Mar-2017
Date Analysis Completed: 22-Mar-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with Concept SOPs

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Aleksandra Pacula
Project Manager

Issued by :
Aleksandra Pacula
Project Manager

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**640278 002**	**640278 010**	**640278 012**	**640278 015**	**640278 018**
				Customer Sample Reference	**TP201**	**TP205**	**TP208**	**TP209**	**TP207**
				Bottom Depth	**1.3**	**0.9**	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**15**	**14**	**4.5**	**8.3**	**16**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**640278 024**
				Customer Sample Reference	**TP210**
				Bottom Depth	**0.9**
				Date Sampled	**15-MAR-2017**
				Type	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Moisture @105C	T162	AR	0.1	%	**9.3**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC 002S

				Concept Reference	**640278 012**	**640278 015**	**640278 024**
				Customer Sample Reference	**TP208**	**TP209**	**TP210**
				Bottom Depth	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Arsenic	T6	M40	2	mg/kg	**9**	**15**	**7**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**21**	**24**	**30**
Lead	T6	M40	1	mg/kg	**16**	**35**	**51**
Mercury	T6	M40	1	mg/kg	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3
Copper	T6	M40	1	mg/kg	**25**	**47**	**52**
Nickel	T6	M40	1	mg/kg	**19**	**22**	**22**
Zinc	T6	M40	1	mg/kg	**41**	**93**	**77**
pH	T7	AR			**9.1**	**9.8**	**8.2**
SO4(Total)	T6	A40	0.01	%	**0.31**	**0.69**	**0.04**
SO4(2:1)	T6	AR	0.1	g/l	**0.2**	**0.1**	<0.1
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1
Barium	T6	A40	1	mg/kg	**75**	**150**	**75**
Beryllium	T6	A40	2	mg/kg	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1
Cyanide(Total)	T921	AR	1	mg/kg	<1	<1	<1
Phenols(Mono)	T921	AR	1	mg/kg	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**24**	**33**	**32**

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 1

				Concept Reference	**640278 002**	**640278 010**	**640278 018**
				Customer Sample Reference	**TP201**	**TP205**	**TP207**
				Bottom Depth	**1.3**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			**7.8**	**6.3**	**7.9**
Electrical Conductivity	T7	A40	10	µS/cm	**1500**	**1600**	**650**
Redox Potential	T7	A40		mV	**-51**	**-38**	**-100**

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 2

				Concept Reference	**640278 013**	**640278 016**	**640278 020**
				Customer Sample Reference	**TP208**	**TP209**	**TP206**
				Bottom Depth	**0.9**	**0.9**	**0.65**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Electrical Conductivity	T7	A40	10	µS/cm	**1500**	**1400**	**1600**
pH	T7	A40			**9.9**	**10.1**	**8.3**
Redox Potential	T7	A40		mV	**-120**	**-120**	**-89**
TPH (C11-C20)	T8	AR	1	mg/kg	(13) **1**	(13) **5**	(13) **4**
TPH (C20-C40)	T8	AR	1	mg/kg	(13) **10**	(13) **63**	(13) **16**
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 3

				Concept Reference	**640278 006**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP203**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Electrical Conductivity	T7	A40	10	µS/cm	**1400**	**1800**	**1700**
pH	T7	A40			**7.3**	**8.0**	**8.1**
Redox Potential	T7	A40		mV	**-49**	**11**	**9**
TPH (C11-C20)	T8	AR	1	mg/kg	(13) <1	(13) <1	(13) <1
TPH (C20-C40)	T8	AR	1	mg/kg	(13) **5**	(13) **9**	(13) <1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Phenols (Speciated)

				Concept Reference	**640278 006**	**640278 013**	**640278 016**	**640278 020**	**640278 027**
				Customer Sample Reference	**TP203**	**TP208**	**TP209**	**TP206**	**TP211**
				Bottom Depth	**0.9**	**0.9**	**0.9**	**0.65**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Phenol	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Phenols (Speciated)

				Concept Reference	**640278 028**
				Customer Sample Reference	**TP211**
				Bottom Depth	**1.4**
				Date Sampled	**15-MAR-2017**
				Type	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Phenol	T149	AR	0.01	mg/kg	<0.01
Cresols	T16	AR	0.01	mg/kg	<0.01
Xylenols	T16	AR	0.01	mg/kg	<0.01

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Phenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Phenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chlorophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-methyl phenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
3/4-Methylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Hexachloroethane	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Nitrobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Isophorone	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitrophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Naphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Naphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Chloroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Hexachlorobutadiene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Methylnaphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	(36,62) <0.5	-	(36,62) <0.5	-	-
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	-	(62,36) <0.5	-	(36,62) <0.5	(62,36) <0.5
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chloronaphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Dimethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Acenaphthylene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Acenaphthene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
3-Nitroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Dibenzofuran	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluorene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Diethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluorene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Azobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	(62,36) <0.5	-	(62,36) <0.5	-	-
Hexachlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Pentachlorophenol	T16	M105	0.1	mg/kg	-	(36,62) <0.5	-	(36,62) <0.5	(36,62) <0.5
Carbazole	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Phenanthrene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.6**	**0.2**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Anthracene	T16	M105	0.1	mg/kg	-	<0.1	-	**0.2**	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Carbazole	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Di-n-butylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluoranthene	T16	M105	0.1	mg/kg	-	**0.4**	-	**0.7**	**0.3**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Chrysene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Pyrene	T16	M105	0.1	mg/kg	-	**0.4**	-	**0.5**	**0.3**
Butyl benzylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.3**	**0.2**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Chrysene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.2**	**0.1**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Di-n-octylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	-	**0.3**	-	**0.3**	**0.2**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.2**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
SVOC screen (extra peaks)	T16	M105	10	mg/kg	<10	<10	<10	<10	<10
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	-	**0.1**	-	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.1**	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Phenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Phenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chlorophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-methyl phenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
3/4-Methylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	-	-	-
Hexachloroethane	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Nitrobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	-	-	-
Isophorone	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitrophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Naphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Naphthalene	T16	M105	0.1	mg/kg	-	**0.1**	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Chloroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Hexachlorobutadiene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Methylnaphthalene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	(62,36) <0.5	-	-	-
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	-	(62,36) <0.5	(36,62) <0.5	(36,62) <0.5
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chloronaphthalene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Dimethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Acenaphthylene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Acenaphthene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
3-Nitroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Dibenzofuran	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluorene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	-	-
Diethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluorene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Azobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	(36,62) <0.5	-	-	-
Hexachlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Pentachlorophenol	T16	M105	0.1	mg/kg	-	(36,62) <0.5	(62,36) <0.5	(36,62) <0.5
Carbazole	T207	M105	0.1	mg/kg	<0.1	-	-	-
Phenanthrene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Anthracene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Carbazole	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Di-n-butylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluoranthene	T16	M105	0.1	mg/kg	-	**0.3**	**0.2**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Chrysene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Pyrene	T16	M105	0.1	mg/kg	-	**0.4**	**0.2**	<0.1
Butyl benzylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	-	**0.3**	**0.1**	<0.1
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Chrysene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Di-n-octylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	-	**0.6**	**0.1**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	-	-	-
SVOC screen (extra peaks)	T16	M105	10	mg/kg	<10	<10	<10	<10
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1

Concept Reference: 640278
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Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
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Soil Analysed as Soil
Miscellaneous

				Concept Reference	**640278 012**	**640278 015**	**640278 024**
				Customer Sample Reference	**TP208**	**TP209**	**TP210**
				Bottom Depth	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Asbestos ID	T27	AR			N.D.	N.D.	N.D.

Index to symbols used in 640278-1

Value	Description
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
A40	Assisted dried < 40C
N.D.	Not Detected
110	LOD raised due to low internal standard recovery.
62	LOD was raised due to the method performance of the analytical procedure used
13	Results have been blank corrected.
36	LOD Raised due to low Matrix spike recovery
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos was subcontracted to REC Asbestos.

Method Index

Value	Description
T8	GC/FID
T921	Colorimetry (CF) (MCERT)
T16	GC/MS
T27	PLM
T6	ICP/OES
T207	GC/MS (MCERTS)
T85	Calc
T149	GC/MS (SIR)
T7	Probe
T2	Grav
T54	GC/MS (Headspace)

T162	Grav (1 Dec) (105 C)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
pH	T7	AR			M	002,010,012,015,018,024
Electrical Conductivity	T7	A40	10	µS/cm	N	002,006,010,013,016,018,020,027-028
Redox Potential	T7	A40		mV	N	002,006,010,013,016,018,020,027-028
Phenol	T207	M105	0.1	mg/kg	M	002,010,018
Phenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	002,010,018
2-Chlorophenol	T207	M105	0.1	mg/kg	M	002,010,018
2-Chlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	002,010,018
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-methyl phenol	T207	M105	0.1	mg/kg	M	002,010,018
2-methyl phenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	002,010,018
3/4-Methylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachloroethane	T207	M105	0.1	mg/kg	U	002,010,018
Hexachloroethane	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Nitrobenzene	T207	M105	0.1	mg/kg	M	002,010,018
Nitrobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Isophorone	T207	M105	0.1	mg/kg	U	002,010,018
Isophorone	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Nitrophenol	T207	M105	0.1	mg/kg	U	002,010,018
2-Nitrophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	002,010,018
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Naphthalene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloroaniline	T207	M105	0.1	mg/kg	U	002,010,018
Naphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Chloroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	002,010,018
Hexachlorobutadiene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Methylnaphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	002,010,018
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	002,010,018
2-Chloronaphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Nitroaniline	T207	M105	0.1	mg/kg	M	002,010,018
2-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	002,010,018
Dimethyl phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	002,010,018
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Acenaphthylene	T207	M105	0.1	mg/kg	U	002,010,018
Acenaphthene	T207	M105	0.1	mg/kg	M	002,010,018
Acenaphthylene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3-Nitroaniline	T207	M105	0.1	mg/kg	U	002,010,018

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Acenaphthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dibenzofuran	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	002,010,018
Dibenzofuran	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Diethyl phthalate	T207	M105	0.1	mg/kg	U	002,010,018
Fluorene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	002,010,018
Diethyl phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Nitroaniline	T207	M105	0.1	mg/kg	U	002,010,018
Fluorene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Azobenzene	T207	M105	0.1	mg/kg	M	002,010,018
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	002,010,018
4-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Azobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Pentachlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Hexachlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Phenanthrene	T207	M105	0.1	mg/kg	M	002,010,018
Anthracene	T207	M105	0.1	mg/kg	U	002,010,018
Pentachlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Carbazole	T207	M105	0.1	mg/kg	U	002,010,018
Phenanthrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	002,010,018
Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Fluoranthene	T207	M105	0.1	mg/kg	M	002,010,018
Carbazole	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	002,010,018
Di-n-butylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002,010,018
Fluoranthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Chrysene	T207	M105	0.1	mg/kg	M	002,010,018
Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	002,010,018
Butyl benzylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	002,010,018
Chrysene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-octylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002,010,018
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
SVOC screen (extra peaks)	T16	M105	10	mg/kg	N	002,006,010,013,016,018,020,027-028
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	N	013,016,020
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
Phenol	T149	AR	0.01	mg/kg	U	006,013,016,020,027-028
Cresols	T16	AR	0.01	mg/kg	U	006,013,016,020,027-028
Xylenols	T16	AR	0.01	mg/kg	U	006,013,016,020,027-028
Asbestos ID	T27	AR			SU	012,015,024
Arsenic	T6	M40	2	mg/kg	M	012,015,024
Cadmium	T6	M40	1	mg/kg	M	012,015,024
Chromium	T6	M40	1	mg/kg	M	012,015,024
Lead	T6	M40	1	mg/kg	M	012,015,024

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Mercury	T6	M40	1	mg/kg	M	012,015,024
Selenium	T6	M40	3	mg/kg	M	012,015,024
Copper	T6	M40	1	mg/kg	M	012,015,024
Nickel	T6	M40	1	mg/kg	M	012,015,024
Zinc	T6	M40	1	mg/kg	M	012,015,024
SO4(Total)	T6	A40	0.01	%	N	012,015,024
SO4(2:1)	T6	AR	0.1	g/l	N	012,015,024
Chromium VI	T6	AR	1	mg/kg	N	012,015,024
Barium	T6	A40	1	mg/kg	U	012,015,024
Beryllium	T6	A40	2	mg/kg	U	012,015,024
Boron (water-soluble)	T6	AR	1	mg/kg	N	012,015,024
Cyanide(Total)	T921	AR	1	mg/kg	M	012,015,024
Phenols(Mono)	T921	AR	1	mg/kg	M	012,015,024
Vanadium	T6	M40	1	mg/kg	M	012,015,024
pH	T7	A40			U	006,013,016,020,027-028
TPH (C11-C20)	T8	AR	1	mg/kg	U	006,013,016,020,027-028
TPH (C20-C40)	T8	AR	1	mg/kg	N	006,013,016,020,027-028
Moisture @105C	T162	AR	0.1	%	N	002,010,012,015,018,024
Retained on 10mm sieve	T2	M40	0.1	%	N	002,010,012,015,018,024

CONCEPT LIFE SCIENCES
DELIVERING SCIENCE

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Concept Life Sciences

Certificate of Analysis

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Report Number: 753078-1

Date of Report: 26-Jul-2018

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Mr Phil Hill

Customer Job Reference: 103358
Customer Purchase Order: 005146
Customer Site Reference: Scotchbarn Lane
Date Job Received at Concept: 18-Jul-2018
Date Analysis Started: 19-Jul-2018
Date Analysis Completed: 26-Jul-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Chloe Kitto
Customer Service Advisor

Issued by :
Chloe Kitto
Customer Service Advisor

Concept Reference: 753078
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**753078 001**	**753078 002**	**753078 003**	**753078 004**	**753078 005**
				Customer Sample Reference	**Plot 41 TS1**	**Plot 41 TS2**	**Plot 43 TS1**	**Plot 43 TS2**	**Plot 117 TS1**
				Depth	**0.2**	**0.5**	**0.2**	**0.5**	**0.2**
				Date Sampled	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**
				Matrix Class	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1
Moisture @105C	T162	AR	0.1	%	**14**	**15**	**19**	**15**	**20**

Concept Reference: 753078
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**753078 006**
				Customer Sample Reference	**Plot 117 TS2**
				Depth	**0.5**
				Date Sampled	**18-JUL-2018**
				Matrix Class	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Retained on 10mm sieve	T2	M40	0.1	%	<0.1
Moisture @105C	T162	AR	0.1	%	**19**

Concept Reference: 753078
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC Ltd 002S

				Concept Reference	**753078 001**	**753078 002**	**753078 003**	**753078 004**	**753078 005**
				Customer Sample Reference	**Plot 41 TS1**	**Plot 41 TS2**	**Plot 43 TS1**	**Plot 43 TS2**	**Plot 117 TS1**
				Depth	**0.2**	**0.5**	**0.2**	**0.5**	**0.2**
				Date Sampled	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**
				Matrix Class	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**13**	**11**	**25**	**14**	**17**
Cadmium	T6	M40	1	mg/kg	**3**	**2**	**4**	**2**	**4**
Chromium	T6	M40	1	mg/kg	**31**	**29**	**32**	**27**	**26**
Lead	T6	M40	1	mg/kg	**110**	**85**	**150**	**95**	**150**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**140**	**110**	**180**	**110**	**170**
Nickel	T6	M40	1	mg/kg	**20**	**19**	**21**	**23**	**20**
Zinc	T6	M40	1	mg/kg	**110**	**86**	**130**	**100**	**130**
pH	T7	A40			**6.8**	**6.7**	**5.7**	**7.3**	**6.5**
SO4(Total)	T6	A40	0.01	%	**0.15**	**0.06**	**0.08**	**0.07**	**0.07**
SO4(2:1)	T6	A40	100	mg/l	<100	<100	<100	<100	<100
Chromium VI	T6	A40	1	mg/kg	<1	<1	<1	<1	<1
Barium	T6	A40	1	mg/kg	**100**	**88**	**120**	**110**	**120**
Beryllium	T6	A40	2	mg/kg	<2	<2	<2	<2	<2
Boron (water-soluble)	T6	A40	1	mg/kg	<1	<1	<1	<1	<1
Cyanide(Total)	T921	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T921	AR	1	mg/kg	<1	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**26**	**26**	**28**	**27**	**26**

Concept Reference: 753078
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC Ltd 002S

Concept Reference	**753078 006**
Customer Sample Reference	**Plot 117 TS2**
Depth	**0.5**
Date Sampled	**18-JUL-2018**
Matrix Class	**Topsoil**

Determinand	Method	Test Sample	LOD	Units	
Arsenic	T6	M40	2	mg/kg	**17**
Cadmium	T6	M40	1	mg/kg	**4**
Chromium	T6	M40	1	mg/kg	**28**
Lead	T6	M40	1	mg/kg	**130**
Mercury	T6	M40	1	mg/kg	<1
Selenium	T6	M40	3	mg/kg	<3
Copper	T6	M40	1	mg/kg	**170**
Nickel	T6	M40	1	mg/kg	**23**
Zinc	T6	M40	1	mg/kg	**130**
pH	T7	A40			**6.8**
SO4(Total)	T6	A40	0.01	%	**0.08**
SO4(2:1)	T6	A40	100	mg/l	<100
Chromium VI	T6	A40	1	mg/kg	<1
Barium	T6	A40	1	mg/kg	**120**
Beryllium	T6	A40	2	mg/kg	<2
Boron (water-soluble)	T6	A40	1	mg/kg	<1
Cyanide(Total)	T921	AR	1	mg/kg	<1
Phenols(Mono)	T921	AR	1	mg/kg	<1
Vanadium	T6	M40	1	mg/kg	**29**

Concept Reference: 753078
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
PAH US EPA 16 (B and K split) and Phenol

				Concept Reference	**753078 001**	**753078 002**	**753078 003**	**753078 004**	**753078 005**
				Customer Sample Reference	**Plot 41 TS1**	**Plot 41 TS2**	**Plot 43 TS1**	**Plot 43 TS2**	**Plot 117 TS1**
				Depth	**0.2**	**0.5**	**0.2**	**0.5**	**0.2**
				Date Sampled	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**
				Matrix Class	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.2**	**0.1**	**0.2**	**0.7**	**0.5**
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.4**	**0.3**	**0.5**	**1.4**	**0.9**
Pyrene	T207	M105	0.1	mg/kg	**0.4**	**0.3**	**0.5**	**1.2**	**0.9**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.2**	**0.2**	**0.2**	**0.6**	**0.4**
Chrysene	T207	M105	0.1	mg/kg	**0.2**	**0.2**	**0.2**	**0.5**	**0.4**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	**0.2**	**0.3**	**0.5**	**0.4**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.2**	**0.1**	**0.2**	**0.4**	**0.3**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.2**	**0.2**	**0.2**	**0.5**	**0.4**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.1**	**0.3**	**0.2**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.1**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.2**	**0.1**	**0.2**	**0.3**	**0.3**
PAH(total)	T207	M105	0.1	mg/kg	**2.4**	**1.7**	**2.6**	**6.8**	**4.7**
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1

Concept Reference: 753078
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

PAH US EPA 16 (B and K split) and Phenol

Concept Reference	**753078 006**
Customer Sample Reference	**Plot 117 TS2**
Depth	**0.5**
Date Sampled	**18-JUL-2018**
Matrix Class	**Topsoil**

Determinand	Method	Test Sample	LOD	Units	
Naphthalene	T207	M105	0.1	mg/kg	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.1**
Anthracene	T207	M105	0.1	mg/kg	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.3**
Pyrene	T207	M105	0.1	mg/kg	**0.3**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.2**
Chrysene	T207	M105	0.1	mg/kg	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.2**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.1**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**1.6**
Phenol	T207	M105	0.1	mg/kg	<0.1

Concept Reference: 753078
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

REC Banded TPH

				Concept Reference	**753078 001**	**753078 002**	**753078 003**	**753078 004**	**753078 005**
				Customer Sample Reference	**Plot 41 TS1**	**Plot 41 TS2**	**Plot 43 TS1**	**Plot 43 TS2**	**Plot 117 TS1**
				Depth	**0.2**	**0.5**	**0.2**	**0.5**	**0.2**
				Date Sampled	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**
				Matrix Class	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C35-C44)	T8	M105	1	mg/kg	(13) **8**	(13) **8**	(13) **9**	(13) **10**	(13) **27**
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) **37**
TPH (C12-C16)	T206	M105	1	mg/kg	(13) **1**	(13) <1	(13) <1	(13) <1	(13) **130**
TPH (C16-C21)	T206	M105	1	mg/kg	(13) **10**	(13) **6**	(13) **6**	(13) **8**	(13) **330**
TPH (C21-C35)	T206	M105	1	mg/kg	(13) **41**	(13) **30**	(13) **40**	(13) **46**	(13) **320**

Concept Reference: 753078
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC Banded TPH

				Concept Reference	**753078 006**
				Customer Sample Reference	**Plot 117 TS2**
				Depth	**0.5**
				Date Sampled	**18-JUL-2018**
				Matrix Class	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10
TPH (C35-C44)	T8	M105	1	mg/kg	**(13) 7**
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 8**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 34**

Concept Reference: 753078
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Asbestos

				Concept Reference	**753078 001**	**753078 002**	**753078 003**	**753078 004**	**753078 005**
				Customer Sample Reference	**Plot 41 TS1**	**Plot 41 TS2**	**Plot 43 TS1**	**Plot 43 TS2**	**Plot 117 TS1**
				Depth	**0.2**	**0.5**	**0.2**	**0.5**	**0.2**
				Date Sampled	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**	**18-JUL-2018**
				Matrix Class	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	A40			N.D.	N.D.	N.D.	N.D.	N.D.

Concept Reference: 753078
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Asbestos

				Concept Reference	**753078 006**
				Customer Sample Reference	**Plot 117 TS2**
				Depth	**0.5**
				Date Sampled	**18-JUL-2018**
				Matrix Class	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Asbestos ID	T27	A40			N.D.

Index to symbols used in 753078-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
A40	Assisted dried < 40C
N.D.	Not Detected
13	Results have been blank corrected.
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited

N	Analysis is not UKAS accredited

Notes

Asbestos testing was subcontracted to REC Asbestos.

Method Index

Value	Description
T162	Grav (1 Dec) (105 C)
T8	GC/FID
T54	GC/MS (Headspace)
T921	Colorimetry (CF) (MCERT)
T206	GC/FID (MCERTS)
T207	GC/MS (MCERTS)
T2	Grav
T7	Probe
T27	PLM
T6	ICP/OES

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Arsenic	T6	M40	2	mg/kg	M	001-006
Cadmium	T6	M40	1	mg/kg	M	001-006
Chromium	T6	M40	1	mg/kg	M	001-006
Lead	T6	M40	1	mg/kg	M	001-006
Mercury	T6	M40	1	mg/kg	M	001-006
Selenium	T6	M40	3	mg/kg	M	001-006
Copper	T6	M40	1	mg/kg	M	001-006
Nickel	T6	M40	1	mg/kg	M	001-006
Zinc	T6	M40	1	mg/kg	M	001-006
pH	T7	A40			M	001-006
SO4(Total)	T6	A40	0.01	%	N	001-006
SO4(2:1)	T6	A40	100	mg/l	N	001-006
Chromium VI	T6	A40	1	mg/kg	N	001-006
Barium	T6	A40	1	mg/kg	U	001-006
Beryllium	T6	A40	2	mg/kg	U	001-006
Boron (water-soluble)	T6	A40	1	mg/kg	N	001-006
Cyanide(Total)	T921	AR	1	mg/kg	M	001-006
Phenols(Mono)	T921	AR	1	mg/kg	M	001-006
Vanadium	T6	M40	1	mg/kg	M	001-006
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	001-006
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	001-006
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	001-006
TPH (C35-C44)	T8	M105	1	mg/kg	N	001-006
TPH (C10-C12)	T206	M105	1	mg/kg	M	001-006
TPH (C12-C16)	T206	M105	1	mg/kg	M	001-006
TPH (C16-C21)	T206	M105	1	mg/kg	M	001-006
TPH (C21-C35)	T206	M105	1	mg/kg	M	001-006
Retained on 10mm sieve	T2	M40	0.1	%	N	001-006
Moisture @105C	T162	AR	0.1	%	N	001-006
Naphthalene	T207	M105	0.1	mg/kg	M	001-006
Acenaphthylene	T207	M105	0.1	mg/kg	U	001-006
Acenaphthene	T207	M105	0.1	mg/kg	M	001-006
Fluorene	T207	M105	0.1	mg/kg	M	001-006
Phenanthrene	T207	M105	0.1	mg/kg	M	001-006
Anthracene	T207	M105	0.1	mg/kg	U	001-006
Fluoranthene	T207	M105	0.1	mg/kg	M	001-006
Pyrene	T207	M105	0.1	mg/kg	M	001-006
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001-006
Chrysene	T207	M105	0.1	mg/kg	M	001-006
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001-006
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001-006
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001-006
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001-006
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001-006
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001-006

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
PAH(total)	T207	M105	0.1	mg/kg	U	001-006
Phenol	T207	M105	0.1	mg/kg	M	001-006
Asbestos ID	T27	A40			SU	001-006

CONCEPT LIFE SCIENCES
DELIVERING SCIENCE

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Concept Life Sciences

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 755556-1

Date of Report: 02-Aug-2018

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Mr Phil Hill

Customer Job Reference: 103358
Customer Purchase Order: 005146
Customer Site Reference: Scotchbarn Lane
Date Job Received at Concept: 18-Jul-2018
Date Analysis Started: 30-Jul-2018
Date Analysis Completed: 02-Aug-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

Report checked
and authorised by :
Aneta Dybek-Echtermeyer
Customer Service Advisor

Issued by :
Aneta Dybek-Echtermeyer
Customer Service Advisor

Concept Reference:	755556
Project Site:	Scotchbarn Lane
Customer Reference:	103358

Soil Analysed as Soil

REC TOC and SOM

Concept Reference	**755556 001**
Customer Sample Reference	**Plot 117 TS1 (753078/005)**
Top Depth	**0.2**
Depth	**0.2**
Date Sampled	**18-JUL-2018**

Determinand	Method	Test Sample	LOD	Units	
Soil Organic Matter	T287	A40	0.1	%	**5.6**
Total Organic Carbon	T21	A40	0.1	%	**3.3**

Index to symbols used in 755556-1

Value	Description
A40	Assisted dried < 40C
N	Analysis is not UKAS accredited

Method Index

Value	Description
T287	Calc TOC/0.58
T21	OX/IR

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Soil Organic Matter	T287	A40	0.1	%	N	001
Total Organic Carbon	T21	A40	0.1	%	N	001

Ref: 05v103358
Date: 17th September 2018

John Fenlon
Bellway Homes Limited (North West)
2 Alderman Road
Hunts Cross
Liverpool
Merseyside
L24 9LR

BY Email john.fenlon@bellway.co.uk

Dear John,

Garden Validation – Scotchbarn Lane, Knowsley – Plots 11 and 40.

Background and Objectives

In accordance with the Remediation Strategy ref 103358p2r2, dated November 2017, the following is required across the whole site:

Depth Requirement for Gardens

- A total clean cover system comprising a minimum thickness of 600 mm;
- A minimum topsoil thickness of 150 mm; and,
- The remainder of the clean cover system shall be comprised of subsoil.

Validation Requirement

- Independent validation of works by Geo-Environmental Consultant;
- Visual inspection and chemical laboratory validation sampling; and
- Production of validation letter reports for the clean cover system.

Table 1: Chemical Validation Testing Requirement

Source	Source of Material			
	Greenfield	Remediated	Brownfield	Unknown
Gardens	1 per 250m^3	1 per 100 m^3	1 per 50 m^3	1 per 50 m^3
Soft Landscaping	1 per 250m^3	1 per 150 m^3	1 per 150 m^3	1 per 150 m^3
Other Fill Materials	1 per 250m^3	1 per 250m^3	1 per 250m^3	1 per 250m^3

VALIDATION WORKS COMPLETED TO DATE

Table 2 shows a summary of validated plots to date.

Table 2: Summary of Validated Plots

Validated Plots [w/ 600mm Cover System]	Letter Reference
7-10	01v103358
1-2, 5	02v103358
6, 34-39, 118-119	03v103358
41-43 & 117	04v103358
11 & 40	05v103358
Total = 22	

Table 3: Approximate total soil volumes of rear gardens

Material	Volume (m^3)
Topsoil	2,300
Subsoil	6,900

VALIDATION WORKS COMPLETED DURING SITE VISIT OF 14th September 2018

An engineer from REC attended site on 14th September 2018 to confirm the thickness of the topsoil and subsoil placed in the rear gardens of Plots 11 and 40. For the avoidance of doubt, REC can confirm that this report refers to 2 No. detached residential properties.

Depth Validation

In total, two excavations (one in each rear garden as illustrated in Figure 1. below) were advanced by hand with the resulting strata encountered listed in individual certificates presented below. The excavations were completed to confirm that the required amount of cover system has been installed in the rear of the properties.

REC can confirm that our independent inspection provides sufficient visual evidence that the required 600mm clean cover system depth has been put in place within the **rear** residential garden areas of Plots 11 and 40.

Physical Validation

Upon inspection of the topsoil and subsoil material of the plots that have been successfully validated, the REC Engineer did not encounter any potentially deleterious or unsuitable materials discernible by the naked eye; for example ceramic materials, metal objects, plastics, treated wood or textiles, etc.

It should be noted that the visual inspection undertaken was of stockpile surfaces and of the arisings brought to the surface as part of the sampling exercise at each plot; and not of all the material used across the entirety of the site and therefore there may be deleterious materials present which were not encountered during this validation visit.

TOPSOIL

Source Chemical Testing Certificates

An engineer from site visited site on two separate occasions on the 17th- 19th May 2016 and 15th March 2017 to undertake phase II ground investigations. These investigations found that the topsoil situated on site to be suitable for reuse in the garden areas. The certificates from the laboratory analysis are attached to this letter report.

Yours Sincerely,

For and on behalf of REC Ltd

Calum Dowd
Consultant

Approved and Authorised

Ged Sojka
Operations Director

Enclosed:
Sketch Location Plan of Validation Pits
Plot Inspection Records (including photographs and description)
Table 3: Screening Values for Materials within Residential Soft Landscaping Areas
Chemical Analysis Certificates

Figure 1: Sketch Plot Validation Pit Location

- Validated Plots during Site Visit on 18th July 2018
- Previously Validated Plots

PLOT INSPECTION RECORD

PLOT NUMBER: 11

Developer: Bellway Homes **Date: 14/09/2018**
Pit Location: Rear Garden **Consultant: C. Dowd**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	0 mm bgl
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

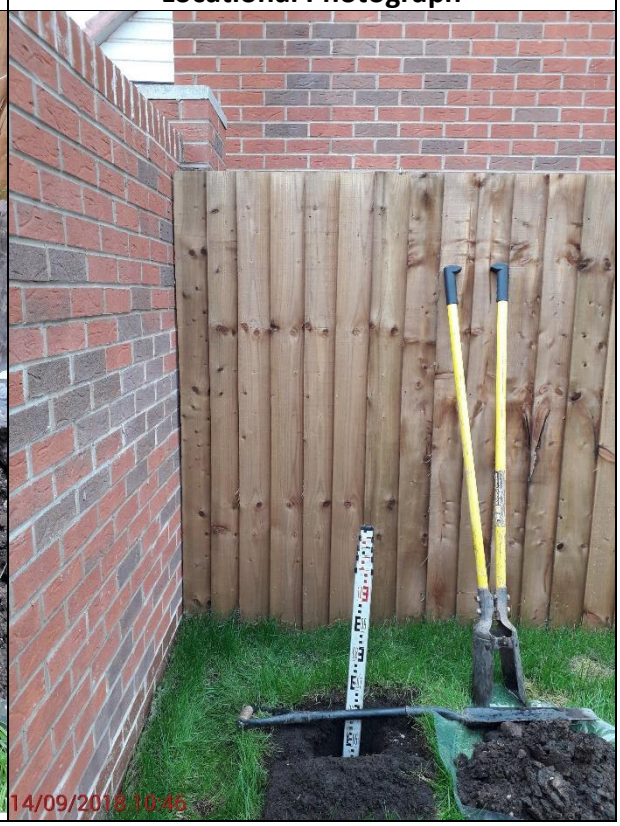
Additional Comments:

GARDEN VALIDATION: PASS

PLOT NUMBER: 40

Developer: Bellway Homes **Date: 14/09/2018**
Pit Location: Rear Garden **Consultant: C. Dowd**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	0 mm bgl
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph
	

Additional Comments:

GARDEN VALIDATION: PASS

SOIL CHEMICAL ANALYSIS

File,,,source1.pdf,,,all
File,,,source2.pdf,,,all

Ref: 06v103358
Date: 2nd November 2018

John Fenlon
Bellway Homes Limited (North West)
2 Alderman Road
Hunts Cross
Liverpool
Merseyside
L24 9LR

BY Email john.fenlon@bellway.co.uk

Dear John,

Garden Validation – Scotchbarn Lane, Knowsley – Plots 12-13

Background and Objectives

In accordance with the Remediation Strategy ref 103358p2r2, dated November 2017, the following is required across the whole site:

Depth Requirement for Gardens

- A total clean cover system comprising a minimum thickness of 600 mm;
- A minimum topsoil thickness of 150 mm; and,
- The remainder of the clean cover system shall be comprised of subsoil.

Validation Requirement

- Independent validation of works by Geo-Environmental Consultant;
- Visual inspection and chemical laboratory validation sampling; and
- Production of validation letter reports for the clean cover system.

Table 1: Chemical Validation Testing Requirement

Source	Source of Material			
	Greenfield	Remediated	Brownfield	Unknown
Gardens	1 per 250m^3	1 per 100 m^3	1 per 50 m^3	1 per 50 m^3
Soft Landscaping	1 per 250m^3	1 per 150 m^3	1 per 150 m^3	1 per 150 m^3
Other Fill Materials	1 per 250m^3	1 per 250m^3	1 per 250m^3	1 per 250m^3

VALIDATION WORKS COMPLETED TO DATE

Table 2 shows a summary of validated plots to date.

Table 2: Summary of Validated Plots

Validated Plots [w/ 600mm Cover System]	Letter Reference
7-10	01v103358
1-2, 5	02v103358
6, 34-39, 118-119	03v103358
41-43 & 117	04v103358
11 & 40	05v103358
12-13	06v103358
Total = 24	

Table 3: Approximate total soil volumes of rear gardens

Material	Volume (m^3)
Topsoil	2,300
Subsoil	6,900

VALIDATION WORKS COMPLETED DURING SITE VISIT OF 1st October 2018

An engineer from REC attended site on 1st October 2018 to confirm the thickness of the topsoil and subsoil placed in the front and rear gardens of Plots 12-13 and collect soil samples for chemical analysis, further details as below. For the avoidance of doubt, REC can confirm that this report refers to 2 No. detached residential properties.

Depth Validation

In total 2 excavations (one in each rear gardens as illustrated in Figure 1. below) were advanced by hand with the resulting strata encountered listed in individual certificates presented below. The excavations were completed to confirm that the required amount of cover system has been installed in the front and rear of the properties.

REC can confirm that our independent inspection provides sufficient visual evidence that the required 600mm clean cover system depth has been put in place within the **rear** residential garden areas of Plots 12-13.

Physical Validation

Upon inspection of the topsoil and subsoil material of the plots that have been successfully validated, the REC Engineer did not encounter any potentially deleterious or unsuitable materials discernible by the naked eye; for example ceramic materials, metal objects, plastics, treated wood or textiles, etc.

It should be noted that the visual inspection undertaken was of stockpile surfaces and of the arisings brought to the surface as part of the sampling exercise at each plot; and not of all the material used

across the entirety of the site and therefore there may be deleterious materials present which were not encountered during this validation visit.

Chemical Validation

All site won sub soil topsoil samples have been analysed for the constituents of concern noted in Table 3 (as enclosed to this letter) to the correct frequency as specified in Table 1 above and have been subsequently assessed against their suitability for a residential end use development.

TOPSOIL

Source Chemical Testing Certificates

An engineer from site visited site on two separate occasions on the 17th- 19th May 2016 and 15th March 2017 to undertake phase II ground investigations. These investigations found that the topsoil situated on site to be suitable for reuse in the garden areas. The certificates from the laboratory analysis are attached to this letter report.

Volume Chemical Testing Certificates

In total 2 No. samples of the topsoil were tested at a frequency of 1 per 50m^3.

After completion of the laboratory analysis, REC can confirm that the topsoil and subsoil installed in the rear gardens of Plots 12 and 13 meet the specified requirements as a suitable growing medium and is fit for its intended use.

Yours Sincerely,

For and on behalf of REC Ltd

Calum Dowd
Consultant

Approved and Authorised

Phil Hill
Senior Consultant

Enclosed:
Sketch Location Plan of Validation Pits
Plot Inspection Records (including photographs and description)
Table 3: Screening Values for Materials within Residential Soft Landscaping Areas
Chemical Analysis Certificates

Figure 1: Sketch Plot Validation Pit Location

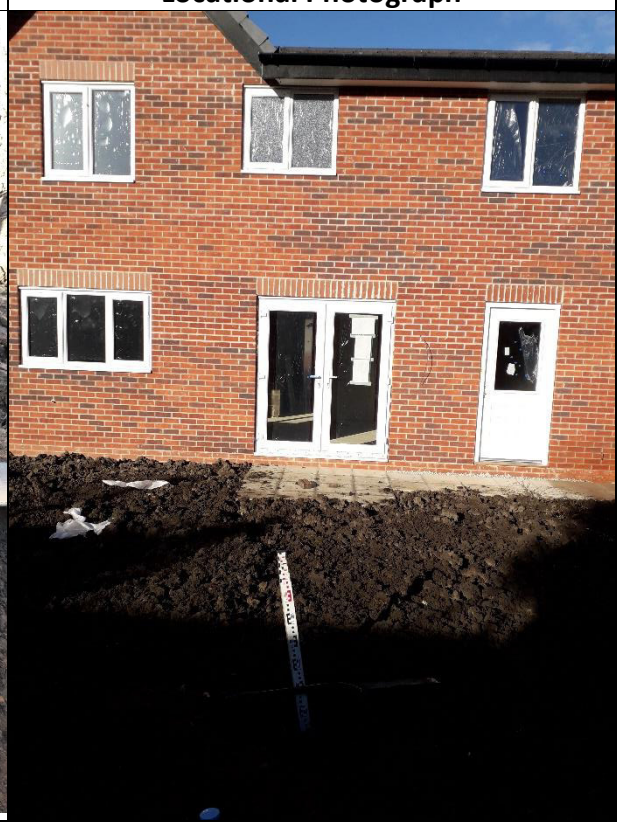
- Validated Plots during Site Visit on 1st October 2018
- Previously Validated Plots

PLOT INSPECTION RECORD

PLOT NUMBER: 12

Developer: Bellway Homes **Date: 1/10/2018**
Pit Location: Rear Garden **Consultant: C. Dowd**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	300 mm bgl
Subsoil	> 450mm bgl	Subsoil	300 mm bgl
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph
	

Additional Comments:
Topsoil samples taken at 0.15 and 0.55m bgl respectively.

GARDEN VALIDATION: PASS

PLOT NUMBER: 13

Developer: Bellway Homes **Date: 01/10/2018**
Pit Location: Rear Garden **Consultant: C. Dowd**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	500 mm bgl
Subsoil	> 450mm bgl	Subsoil	100 mm bgl
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
N/A

GARDEN VALIDATION: PASS

SUITABILITY CRITERIA

Table 3.2: Validation Testing Summary

Determinand	Units	Screening Value for Use within Private Gardens	Maximum Concentration within Upper Topsoil	Maximum Concentration within Lower Topsoil	Screening Value Source
Inorganic Metals and Asbestos					
Arsenic	mg/kg	37	13	5	(i)
Cadmium	mg/kg	11	3	<1	(i)
Chromium (VI)	mg/kg	6	<1	<1	(i)
Lead	mg/kg	200	100	11	(iv)
Inorganic Mercury	mg/kg	40	<1	<1	(i)
Nickel	mg/kg	130	22	30	(i)
Selenium	mg/kg	250	<3	<3	(i)
Copper	mg/kg	2,400	140	18	(i)
Zinc	mg/kg	3,700	110	37	(i)
Cyanide	mg/kg	791	<1	<1	(v)
Asbestos	%	None Detected	N.D	N.D	N/A
Phenol	mg/kg	200	<0.1	<0.1	(ii)
Naphthalene	mg/kg	5.6	<0.1	<0.1	(ii)
Acenaphthylene	mg/kg	420	<0.1	<0.1	(ii)
Acenaphthene	mg/kg	510	<0.1	<0.1	(ii)
Fluorene	mg/kg	400	<0.1	<0.1	(ii)
Phenanthrene	mg/kg	220	0.3	<0.1	(ii)
Anthracene	mg/kg	2,400	<0.1	<0.1	(ii)
Fluoranthene	mg/kg	280	0.8	<0.1	(ii)
Pyrene	mg/kg	1200	0.7	<0.1	(ii)
Benzo(a)Anthracene	mg/kg	2.7	0.3	<0.1	(ii)
Chrysene	mg/kg	22	0.3	<0.1	(ii)
Benzo(b)Fluoranthene	mg/kg	3.3	0.3	<0.1	(ii)
Benzo(k)Fluoranthene	mg/kg	93	0.2	<0.1	(ii)
Benzo(a)Pyrene	mg/kg	2.7	0.3	<0.1	(ii)
Indeno(123-cd)Pyrene	mg/kg	36	0.1	<0.1	(ii)
Dibenzo(a,h)Anthracene	mg/kg	0.28	<0.1	<0.1	(ii)
Benzo(ghi)Perylene	mg/kg	340	0.2	<0.1	(ii)
TPH C_5-C_6	mg/kg	78	<0.10	<0.10	(iii)
TPH C_6-C_8	mg/kg	230	<0.10	<0.10	(iii)
TPH C_8-C_{10}	mg/kg	65	<0.10	<0.10	(iii)
TPH C_{10}-C_{12}	mg/kg	180	(13)<1	(13)<1	(iii)
TPH C_{12}-C_{16}	mg/kg	330	(13)<1	(13)<1	(iii)
TPH C_{16}-C_{21}	mg/kg	540	(13)7	(13)2	(iii)
TPH C_{21}-C_{35}	mg/kg	1,500	(13)36	(13)3	(iii)
TPH C_{35}-C_{44}	mg/kg	1,500	(13) 15	(13))<1	(iii)

Screening Value Source

(i) LQM/CIEH Suitable For Use Level (S4UL) (2015);
(ii) S4UL –Assessment Approach of 3% SOM;
(iii) S4UL –3% SOM and assumed worst case aliphatic / aromatic compound;
(iv) Defra Category 4 Screening Level (2014);
(v) CLEA v1.06 Derived Value.

(13) Results have been blank corrected.

SOIL CHEMICAL ANALYSIS

a CONCEPT LIFE SCIENCES company

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 572763-1

Date of Report: 01-Jun-2016

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Miss Sabine Sargeant

Customer Job Reference: 101754
Customer Purchase Order: 001151
Customer Site Reference: Scotchbarn Lane
Date Job Received at SAL: 18-May-2016
Date Analysis Started: 26-May-2016
Date Analysis Completed: 01-Jun-2016

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with Section 25 of the SAL Quality Manual

UKAS TESTING 1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Emma Spear
Project Manager

Issued by :
Emma Spear
Project Manager

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Bulk Product Analysed as Bulk Product
Asbestos ID

SAL Reference	**572763 004**
Customer Sample Reference	**TP102**
Bottom Depth	**0.4**
Date Sampled	**17-MAY-2016**
Type	**Fill**

Determinand	Method	Test Sample	LOD	Units	
Asbestos	T27	AR			Chrysotile Fibres Detected

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
Customer Sample Reference					**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
Bottom Depth					**1**	**0.4**	**0.2**	**0.7**	**0.2**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**11**	**7.2**	**7.4**	**7.4**	**18**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 008**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
Customer Sample Reference					**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
Bottom Depth					**2**	**2**	**0.5**	**2.1**	**0.5**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**7.3**	**11**	**18**	**18**	**9.7**
Retained on 10mm sieve	T2	M40	0.1	%	-	-	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 015**	**572763 016**	**572763 017**	**572763 018**	**572763 019**
Customer Sample Reference					**TP108**	**TP109**	**TP110**	**TP111**	**TP112**
Bottom Depth					**0.1**	**0.5**	**0.4**	**0.3**	**0.1**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**8.2**	**14**	**18**	**18**	**35**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 020**	**572763 022**	**572763 023**	**572763 025**	**572763 028**
				Customer Sample Reference	**TP112**	**TP113**	**TP113**	**WS102**	**WS104**
				Bottom Depth	**0.9**	**0.5**	**1.4**	**0.2**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**18**	**17**	**12**	**5.8**	**19**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 029**	**572763 031**	**572763 032**	**572763 033**	**572763 035**
				Customer Sample Reference	**WS105**	**WS108**	**WS108**	**WS109**	**WS110**
				Bottom Depth	**0.1**	**0.2**	**0.5**	**0.3**	**1.2**
				Date Sampled	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**25**	**23**	**16**	**15**	**26**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 039**
				Customer Sample Reference	**WS113**
				Bottom Depth	**0.7**
				Date Sampled	**19-MAY-2016**
				Type	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Moisture @105C	T162	AR	0.1	%	**5.2**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**8**	**25**	**17**	**5**	**18**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	**2**
Chromium	T6	M40	1	mg/kg	**30**	**18**	**26**	**20**	**20**
Lead	T6	M40	1	mg/kg	**11**	**110**	**32**	**5**	**66**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**17**	**70**	**69**	**7**	**81**
Nickel	T6	M40	1	mg/kg	**26**	**28**	**34**	**17**	**19**
Zinc	T6	M40	1	mg/kg	**48**	**190**	**120**	**23**	**98**
pH	T7	AR			**5.8**	**7.1**	**8.2**	**7.5**	**5.9**
SO4(Total)	T6	M40	0.01	%	**0.02**	**0.30**	**0.07**	**0.01**	**0.07**
SO4(2:1)	T6	AR	100	mg/l	<100	**310**	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**3**	**2**	**2**	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**36**	**37**	**41**	**24**	**32**
Barium	T6	M40	1	mg/kg	**100**	**150**	**160**	**26**	**98**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	**1**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 011**	**572763 012**	**572763 013**	**572763 015**	**572763 016**
				Customer Sample Reference	**TP106**	**TP106**	**TP107**	**TP108**	**TP109**
				Bottom Depth	**0.5**	**2.1**	**0.5**	**0.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**18**	**4**	**16**	**13**	**13**
Cadmium	T6	M40	1	mg/kg	**3**	<1	**2**	<1	**2**
Chromium	T6	M40	1	mg/kg	**23**	**17**	**23**	**28**	**22**
Lead	T6	M40	1	mg/kg	**120**	**7**	**190**	**150**	**100**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**130**	**12**	**48**	**61**	**84**
Nickel	T6	M40	1	mg/kg	**20**	**16**	**18**	**21**	**18**
Zinc	T6	M40	1	mg/kg	**140**	**24**	**270**	**170**	**130**
pH	T7	AR			**6.9**	**6.7**	**6.9**	**7.4**	**7.4**
SO4(Total)	T6	M40	0.01	%	**0.07**	<0.01	**0.88**	**0.08**	**0.15**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**650**	**130**	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**2**	<2	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**36**	**20**	**36**	**30**	**31**
Barium	T6	M40	1	mg/kg	**97**	**35**	**280**	**150**	**150**
Cyanide(Total)	T546	AR	1	mg/kg	**1**	<1	**1**	**1**	<1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 017**	**572763 018**	**572763 019**	**572763 020**	**572763 022**
				Customer Sample Reference	**TP110**	**TP111**	**TP112**	**TP112**	**TP113**
				Bottom Depth	**0.4**	**0.3**	**0.1**	**0.9**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**10**	**18**	**12**	**21**	**10**
Cadmium	T6	M40	1	mg/kg	<1	**3**	**4**	**4**	<1
Chromium	T6	M40	1	mg/kg	**14**	**35**	**19**	**21**	**52**
Lead	T6	M40	1	mg/kg	**92**	**140**	**100**	**110**	**12**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**42**	**150**	**170**	**130**	**17**
Nickel	T6	M40	1	mg/kg	**16**	**28**	**16**	**15**	**29**
Zinc	T6	M40	1	mg/kg	**170**	**160**	**120**	**110**	**47**
pH	T7	AR			**7.7**	**7.0**	**5.3**	**4.6**	**5.8**
SO4(Total)	T6	M40	0.01	%	**0.04**	**0.07**	**0.11**	**0.09**	**0.02**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	<2	**2**	<2	<2	**3**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	**3**	<1	<1
Vanadium	T6	M40	1	mg/kg	**25**	**39**	**27**	**28**	**55**
Barium	T6	M40	1	mg/kg	**100**	**160**	**93**	**98**	**78**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 023**	**572763 025**	**572763 028**	**572763 029**	**572763 031**
				Customer Sample Reference	**TP113**	**WS102**	**WS104**	**WS105**	**WS108**
				Bottom Depth	**1.4**	**0.2**	**0.2**	**0.1**	**0.2**
				Date Sampled	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**10**	**18**	**19**	**18**	**15**
Cadmium	T6	M40	1	mg/kg	<1	<1	**3**	**4**	**4**
Chromium	T6	M40	1	mg/kg	**33**	**16**	**20**	**25**	**23**
Lead	T6	M40	1	mg/kg	**16**	**65**	**130**	**120**	**110**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**15**	**21**	**160**	**180**	**180**
Nickel	T6	M40	1	mg/kg	**37**	**16**	**20**	**21**	**20**
Zinc	T6	M40	1	mg/kg	**38**	**86**	**140**	**150**	**130**
pH	T7	AR			**6.6**	**10.7**	**6.5**	**6.4**	**6.3**
SO4(Total)	T6	M40	0.01	%	**0.01**	**0.61**	**0.09**	**0.09**	**0.09**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**2**	<2	**2**	**2**	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	**1**	**2**	**1**
Vanadium	T6	M40	1	mg/kg	**41**	**25**	**30**	**34**	**32**
Barium	T6	M40	1	mg/kg	**100**	**110**	**110**	**110**	**100**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 032**	**572763 033**	**572763 035**	**572763 039**
				Customer Sample Reference	**WS108**	**WS109**	**WS110**	**WS113**
				Bottom Depth	**0.5**	**0.3**	**1.2**	**0.7**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Arsenic	T6	M40	2	mg/kg	**15**	**21**	**21**	**5**
Cadmium	T6	M40	1	mg/kg	**2**	**2**	**3**	<1
Chromium	T6	M40	1	mg/kg	**21**	**27**	**19**	**33**
Lead	T6	M40	1	mg/kg	**110**	**170**	**190**	**33**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**93**	**120**	**250**	**44**
Nickel	T6	M40	1	mg/kg	**19**	**42**	**23**	**24**
Zinc	T6	M40	1	mg/kg	**110**	**170**	**450**	**120**
pH	T7	AR			**6.4**	**6.4**	**6.7**	**7.8**
SO4(Total)	T6	M40	0.01	%	**0.06**	**0.11**	**0.18**	**0.03**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**170**	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	<2	**3**	**2**	**2**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**34**	**52**	**32**	**46**
Barium	T6	M40	1	mg/kg	**87**	**210**	**170**	**86**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
PAH US EPA 16 (B and K split)

				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.2**	<0.1	**0.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.4**	**0.6**	<0.1	**0.4**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.3**	**0.9**	<0.1	**0.4**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.3**	<0.1	**0.2**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.5**	<0.1	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.6**	<0.1	**0.3**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.4**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.7**	**0.4**	<0.1	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.4**	<0.1	**0.1**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**8.3**	**3.9**	<0.1	**2.0**

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				SAL Reference	**572763 011**	**572763 012**	**572763 013**	**572763 015**	**572763 016**
				Customer Sample Reference	**TP106**	**TP106**	**TP107**	**TP108**	**TP109**
				Bottom Depth	**0.5**	**2.1**	**0.5**	**0.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**0.1**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**0.1**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.0**	**1.7**	**1.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	**0.5**	**0.3**
Fluoranthene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**2.2**	**3.3**	**2.0**
Pyrene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**2.0**	**3.3**	**2.0**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.0**	**2.3**	**1.1**
Chrysene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.2**	**2.6**	**1.3**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.4**	**3.3**	**1.4**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.4**	**0.5**	**0.3**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.0**	**2.2**	**1.0**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.6**	**1.2**	**0.5**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.3**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.8**	**1.5**	**0.6**
PAH(total)	T207	M105	0.1	mg/kg	**2.6**	<0.1	**12**	**23**	**12**

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 017**	**572763 018**	**572763 019**	**572763 020**	**572763 022**
				Customer Sample Reference	**TP110**	**TP111**	**TP112**	**TP112**	**TP113**
				Bottom Depth	**0.4**	**0.3**	**0.1**	**0.9**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.6**	**0.2**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**1.7**	**0.5**	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**1.7**	**0.5**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.9**	**0.2**	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**1.0**	**0.3**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**1.2**	**0.3**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.2**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.8**	**0.2**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.5**	**0.1**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.3**	**0.6**	**0.1**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**5.1**	**9.4**	**2.5**	<0.1

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				SAL Reference	**572763 023**	**572763 025**	**572763 028**	**572763 029**	**572763 031**
				Customer Sample Reference	**TP113**	**WS102**	**WS104**	**WS105**	**WS108**
				Bottom Depth	**1.4**	**0.2**	**0.2**	**0.1**	**0.2**
				Date Sampled	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.7**	**0.2**	**0.3**	**0.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.7**	**0.6**	**0.6**	**0.5**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.6**	**0.6**	**0.6**	**0.5**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**1.0**	**0.3**	**0.3**	**0.2**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.3**	**0.3**	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.2**	**0.5**	**0.5**	**0.3**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.3**	**0.3**	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.2**	**0.2**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.2**	**0.2**	**0.2**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**9.5**	**3.3**	**3.4**	**2.3**

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				SAL Reference	**572763 032**	**572763 033**	**572763 035**	**572763 039**
				Customer Sample Reference	**WS108**	**WS109**	**WS110**	**WS113**
				Bottom Depth	**0.5**	**0.3**	**1.2**	**0.7**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.4**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.3**	**1.0**	**0.8**	<0.1
Pyrene	T207	M105	0.1	mg/kg	**0.3**	**0.9**	**0.7**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.1**	**0.6**	**0.4**	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.1**	**0.6**	**0.4**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.1**	**0.7**	**0.4**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.3**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.3**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**0.9**	**6.5**	**3.9**	<0.1

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				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	**(13) 2**	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	**(13) 6**	**(13) 2**	(13) <1	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1	**(13) 10**	**(13) 13**	(13) <1	**(13) 2**
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1	**(13) 36**	**(13) 150**	(13) <1	**(13) 7**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	**(13) 20**	**(13) 77**	**(13) 2**	(13) <1

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				SAL Reference	**572763 008**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	**0.84**	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13,9) <10
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(9,13) <10
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1	(13) <1	**(13) 1**	(13) <1	(9,13) <10
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1	(13) <1	**(13) 10**	(13) <1	**(13) 11**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	**(13) 10**

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				SAL Reference	**572763 015**	**572763 016**	**572763 017**	**572763 018**	**572763 019**
				Customer Sample Reference	**TP108**	**TP109**	**TP110**	**TP111**	**TP112**
				Bottom Depth	**0.1**	**0.5**	**0.4**	**0.3**	**0.1**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	**(13) 3**	**(13) 2**	(13) <1	(13) <1	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 35**	**(13) 18**	(13) <1	**(13) 3**	**(13) 3**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 340**	**(13) 73**	(13) <1	**(13) 15**	**(13) 14**
TPH (C35-C44)	T8	M105	1	mg/kg	**(13) 120**	**(13) 23**	(13) <1	(13) <1	**(13) 1**

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				SAL Reference	**572763 020**	**572763 022**	**572763 023**	**572763 025**	**572763 028**
				Customer Sample Reference	**TP112**	**TP113**	**TP113**	**WS102**	**WS104**
				Bottom Depth	**0.9**	**0.5**	**1.4**	**0.2**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 6**	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 1**	(13) <1	(13) <1	**(13) 33**	**(13) 1**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 9**	(13) <1	(13) <1	**(13) 180**	**(13) 11**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 65**	(13) <1

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				SAL Reference	**572763 029**	**572763 031**	**572763 032**	**572763 033**	**572763 035**
				Customer Sample Reference	**WS105**	**WS108**	**WS108**	**WS109**	**WS110**
				Bottom Depth	**0.1**	**0.2**	**0.5**	**0.3**	**1.2**
				Date Sampled	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 3**	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 3**	(13) <1	(13) <1	**(13) 9**	**(13) 5**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 12**	**(13) 6**	**(13) 7**	**(13) 17**	**(13) 14**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 1**	**(13) 1**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 039**
				Customer Sample Reference	**WS113**
				Bottom Depth	**0.7**
				Date Sampled	**19-MAY-2016**
				Type	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 001**	**572763 002**	**572763 003**	**572763 005**	**572763 006**
				Customer Sample Reference	**TP101**	**TP101**	**TP102**	**TP103**	**TP103**
				Bottom Depth	**1**	**2.2**	**0.4**	**0.2**	**0.7**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			-	**6.5**	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**310**	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 007**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**0.2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			-	**7.2**	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	**650**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 014**	**572763 015**	**572763 016**	**572763 017**	**572763 018**
				Customer Sample Reference	**TP107**	**TP108**	**TP109**	**TP110**	**TP111**
				Bottom Depth	**1.2**	**0.1**	**0.5**	**0.4**	**0.3**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			**6.4**	-	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	**130**	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 019**	**572763 020**	**572763 022**	**572763 023**	**572763 025**
				Customer Sample Reference	**TP112**	**TP112**	**TP113**	**TP113**	**WS102**
				Bottom Depth	**0.1**	**0.9**	**0.5**	**1.4**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 028**	**572763 029**	**572763 031**	**572763 032**	**572763 033**
				Customer Sample Reference	**WS104**	**WS105**	**WS108**	**WS108**	**WS109**
				Bottom Depth	**0.2**	**0.1**	**0.2**	**0.5**	**0.3**
				Date Sampled	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 035**	**572763 039**	**572763 040**
				Customer Sample Reference	**WS110**	**WS113**	**WS113**
				Bottom Depth	**1.2**	**0.7**	**1.4**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			-	-	**7.6**
SO4(2:1)	T6	AR	100	mg/l	**170**	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 001**	**572763 002**	**572763 003**	**572763 005**	**572763 006**
				Customer Sample Reference	**TP101**	**TP101**	**TP102**	**TP103**	**TP103**
				Bottom Depth	**1**	**2.2**	**0.4**	**0.2**	**0.7**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**310**	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 007**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**0.2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	**650**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 014**	**572763 015**	**572763 016**	**572763 017**	**572763 018**
				Customer Sample Reference	**TP107**	**TP108**	**TP109**	**TP110**	**TP111**
				Bottom Depth	**1.2**	**0.1**	**0.5**	**0.4**	**0.3**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			-	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	**130**	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 019**	**572763 020**	**572763 022**	**572763 023**	**572763 025**
				Customer Sample Reference	**TP112**	**TP112**	**TP113**	**TP113**	**WS102**
				Bottom Depth	**0.1**	**0.9**	**0.5**	**1.4**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 028**	**572763 029**	**572763 031**	**572763 032**	**572763 033**
				Customer Sample Reference	**WS104**	**WS105**	**WS108**	**WS108**	**WS109**
				Bottom Depth	**0.2**	**0.1**	**0.2**	**0.5**	**0.3**
				Date Sampled	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 035**	**572763 039**	**572763 040**
				Customer Sample Reference	**WS110**	**WS113**	**WS113**
				Bottom Depth	**1.2**	**0.7**	**1.4**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Asbestos ID	T27	AR			N.D.	N.D.	-
SO4(2:1)	T6	AR	100	mg/l	**170**	<100	<100

Index to symbols used in 572763-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
13	Results have been blank corrected.
9	LOD raised due to dilution of sample
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos was sub-contracted to REC Asbestos.
"Fill" samples are outside the scope of our MCERTS accreditation. Results are UKAS only.

Method Index

Value	Description
T7	Probe
T54	GC/MS (Headspace)
T546	Colorimetry (CF)
T162	Grav (1 Dec) (105 C)
T27	PLM
T207	GC/MS (MCERTS)
T8	GC/FID
T6	ICP/OES
T206	GC/FID (MCERTS)
T2	Grav

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos	T27	AR			SU	004
Moisture @105C	T162	AR	0.1	%	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
Retained on 10mm sieve	T2	M40	0.1	%	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Arsenic	T6	M40	2	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Cadmium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Chromium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Lead	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Mercury	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Selenium	T6	M40	3	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Copper	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Nickel	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Zinc	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
pH	T7	AR			M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
SO4(Total)	T6	M40	0.01	%	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
SO4(2:1)	T6	AR	100	mg/l	N	001-003,005-007,009,011-020,022-023,025,028-029,031-033,035,039-040
Chromium VI	T6	AR	1	mg/kg	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Barium	T6	M40	1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Beryllium	T6	M40	2	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Cyanide(Total)	T546	AR	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Phenols(Mono)	T546	AR	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Vanadium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Naphthalene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Acenaphthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Fluorene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Phenanthrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Anthracene	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Chrysene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
PAH(total)	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C10-C12)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C12-C16)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C16-C21)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C21-C35)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C35-C44)	T8	M105	1	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
pH	T7	AR			U	002,009,014,040
Asbestos ID	T27	AR			SU	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039

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Certificate of Analysis

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Report Number: 640278-1

Date of Report: 22-Mar-2017

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Miss Louise Stock

Customer Job Reference: 103358
Customer Purchase Order: 002602
Customer Site Reference: Scotchbarn Lane
Date Job Received at Concept: 16-Mar-2017
Date Analysis Started: 20-Mar-2017
Date Analysis Completed: 22-Mar-2017

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Tests covered by this certificate were conducted in accordance with Concept SOPs

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mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

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Aleksandra Pacula
Project Manager

Issued by :
Aleksandra Pacula
Project Manager

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**640278 002**	**640278 010**	**640278 012**	**640278 015**	**640278 018**
				Customer Sample Reference	**TP201**	**TP205**	**TP208**	**TP209**	**TP207**
				Bottom Depth	**1.3**	**0.9**	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**15**	**14**	**4.5**	**8.3**	**16**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**640278 024**
				Customer Sample Reference	**TP210**
				Bottom Depth	**0.9**
				Date Sampled	**15-MAR-2017**
				Type	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Moisture @105C	T162	AR	0.1	%	**9.3**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC 002S

				Concept Reference	**640278 012**	**640278 015**	**640278 024**
				Customer Sample Reference	**TP208**	**TP209**	**TP210**
				Bottom Depth	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Arsenic	T6	M40	2	mg/kg	**9**	**15**	**7**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**21**	**24**	**30**
Lead	T6	M40	1	mg/kg	**16**	**35**	**51**
Mercury	T6	M40	1	mg/kg	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3
Copper	T6	M40	1	mg/kg	**25**	**47**	**52**
Nickel	T6	M40	1	mg/kg	**19**	**22**	**22**
Zinc	T6	M40	1	mg/kg	**41**	**93**	**77**
pH	T7	AR			**9.1**	**9.8**	**8.2**
SO4(Total)	T6	A40	0.01	%	**0.31**	**0.69**	**0.04**
SO4(2:1)	T6	AR	0.1	g/l	**0.2**	**0.1**	<0.1
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1
Barium	T6	A40	1	mg/kg	**75**	**150**	**75**
Beryllium	T6	A40	2	mg/kg	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1
Cyanide(Total)	T921	AR	1	mg/kg	<1	<1	<1
Phenols(Mono)	T921	AR	1	mg/kg	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**24**	**33**	**32**

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Soil Analysed as Soil
Partial UKWIR suite 1

				Concept Reference	**640278 002**	**640278 010**	**640278 018**
				Customer Sample Reference	**TP201**	**TP205**	**TP207**
				Bottom Depth	**1.3**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			**7.8**	**6.3**	**7.9**
Electrical Conductivity	T7	A40	10	µS/cm	**1500**	**1600**	**650**
Redox Potential	T7	A40		mV	**-51**	**-38**	**-100**

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 2

				Concept Reference	**640278 013**	**640278 016**	**640278 020**
				Customer Sample Reference	**TP208**	**TP209**	**TP206**
				Bottom Depth	**0.9**	**0.9**	**0.65**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Electrical Conductivity	T7	A40	10	µS/cm	**1500**	**1400**	**1600**
pH	T7	A40			**9.9**	**10.1**	**8.3**
Redox Potential	T7	A40		mV	**-120**	**-120**	**-89**
TPH (C11-C20)	T8	AR	1	mg/kg	(13) **1**	(13) **5**	(13) **4**
TPH (C20-C40)	T8	AR	1	mg/kg	(13) **10**	(13) **63**	(13) **16**
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 3

				Concept Reference	**640278 006**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP203**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Electrical Conductivity	T7	A40	10	µS/cm	**1400**	**1800**	**1700**
pH	T7	A40			**7.3**	**8.0**	**8.1**
Redox Potential	T7	A40		mV	**-49**	**11**	**9**
TPH (C11-C20)	T8	AR	1	mg/kg	(13) <1	(13) <1	(13) <1
TPH (C20-C40)	T8	AR	1	mg/kg	(13) **5**	(13) **9**	(13) <1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Phenols (Speciated)

				Concept Reference	**640278 006**	**640278 013**	**640278 016**	**640278 020**	**640278 027**
				Customer Sample Reference	**TP203**	**TP208**	**TP209**	**TP206**	**TP211**
				Bottom Depth	**0.9**	**0.9**	**0.9**	**0.65**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Phenol	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Phenols (Speciated)

				Concept Reference	**640278 028**
				Customer Sample Reference	**TP211**
				Bottom Depth	**1.4**
				Date Sampled	**15-MAR-2017**
				Type	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Phenol	T149	AR	0.01	mg/kg	<0.01
Cresols	T16	AR	0.01	mg/kg	<0.01
Xylenols	T16	AR	0.01	mg/kg	<0.01

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Phenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Phenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chlorophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-methyl phenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
3/4-Methylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Hexachloroethane	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Nitrobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Isophorone	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitrophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Naphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Naphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Chloroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Hexachlorobutadiene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Methylnaphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	(36,62) <0.5	-	(36,62) <0.5	-	-
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	-	(62,36) <0.5	-	(36,62) <0.5	(62,36) <0.5
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chloronaphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Dimethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1

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Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Acenaphthylene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Acenaphthene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
3-Nitroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Dibenzofuran	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluorene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Diethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluorene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Azobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	(62,36) <0.5	-	(62,36) <0.5	-	-
Hexachlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Pentachlorophenol	T16	M105	0.1	mg/kg	-	(36,62) <0.5	-	(36,62) <0.5	(36,62) <0.5
Carbazole	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Phenanthrene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.6**	**0.2**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Anthracene	T16	M105	0.1	mg/kg	-	<0.1	-	**0.2**	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Carbazole	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Di-n-butylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluoranthene	T16	M105	0.1	mg/kg	-	**0.4**	-	**0.7**	**0.3**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Chrysene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Pyrene	T16	M105	0.1	mg/kg	-	**0.4**	-	**0.5**	**0.3**
Butyl benzylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.3**	**0.2**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Chrysene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.2**	**0.1**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Di-n-octylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	-	**0.3**	-	**0.3**	**0.2**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.2**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
SVOC screen (extra peaks)	T16	M105	10	mg/kg	<10	<10	<10	<10	<10
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	-	**0.1**	-	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.1**	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Phenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Phenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chlorophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-methyl phenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
3/4-Methylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	-	-	-
Hexachloroethane	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Nitrobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	-	-	-
Isophorone	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitrophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Naphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Naphthalene	T16	M105	0.1	mg/kg	-	**0.1**	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Chloroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Hexachlorobutadiene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Methylnaphthalene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	(62,36) <0.5	-	-	-
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	-	(62,36) <0.5	(36,62) <0.5	(36,62) <0.5
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chloronaphthalene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Dimethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Acenaphthylene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Acenaphthene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
3-Nitroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Dibenzofuran	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluorene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	-	-
Diethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluorene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Azobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	(36,62) <0.5	-	-	-
Hexachlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Pentachlorophenol	T16	M105	0.1	mg/kg	-	(36,62) <0.5	(62,36) <0.5	(36,62) <0.5
Carbazole	T207	M105	0.1	mg/kg	<0.1	-	-	-
Phenanthrene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Anthracene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Carbazole	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Di-n-butylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluoranthene	T16	M105	0.1	mg/kg	-	**0.3**	**0.2**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Chrysene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Pyrene	T16	M105	0.1	mg/kg	-	**0.4**	**0.2**	<0.1
Butyl benzylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	-	**0.3**	**0.1**	<0.1
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Chrysene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Di-n-octylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	-	**0.6**	**0.1**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	-	-	-
SVOC screen (extra peaks)	T16	M105	10	mg/kg	<10	<10	<10	<10
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
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Soil Analysed as Soil
Miscellaneous

				Concept Reference	**640278 012**	**640278 015**	**640278 024**
				Customer Sample Reference	**TP208**	**TP209**	**TP210**
				Bottom Depth	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Asbestos ID	T27	AR			N.D.	N.D.	N.D.

Index to symbols used in 640278-1

Value	Description
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
A40	Assisted dried < 40C
N.D.	Not Detected
110	LOD raised due to low internal standard recovery.
62	LOD was raised due to the method performance of the analytical procedure used
13	Results have been blank corrected.
36	LOD Raised due to low Matrix spike recovery
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos was subcontracted to REC Asbestos.

Method Index

Value	Description
T8	GC/FID
T921	Colorimetry (CF) (MCERT)
T16	GC/MS
T27	PLM
T6	ICP/OES
T207	GC/MS (MCERTS)
T85	Calc
T149	GC/MS (SIR)
T7	Probe
T2	Grav
T54	GC/MS (Headspace)

T162	Grav (1 Dec) (105 C)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
pH	T7	AR			M	002,010,012,015,018,024
Electrical Conductivity	T7	A40	10	µS/cm	N	002,006,010,013,016,018,020,027-028
Redox Potential	T7	A40		mV	N	002,006,010,013,016,018,020,027-028
Phenol	T207	M105	0.1	mg/kg	M	002,010,018
Phenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	002,010,018
2-Chlorophenol	T207	M105	0.1	mg/kg	M	002,010,018
2-Chlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	002,010,018
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-methyl phenol	T207	M105	0.1	mg/kg	M	002,010,018
2-methyl phenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	002,010,018
3/4-Methylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachloroethane	T207	M105	0.1	mg/kg	U	002,010,018
Hexachloroethane	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Nitrobenzene	T207	M105	0.1	mg/kg	M	002,010,018
Nitrobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Isophorone	T207	M105	0.1	mg/kg	U	002,010,018
Isophorone	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Nitrophenol	T207	M105	0.1	mg/kg	U	002,010,018
2-Nitrophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	002,010,018
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Naphthalene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloroaniline	T207	M105	0.1	mg/kg	U	002,010,018
Naphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Chloroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	002,010,018
Hexachlorobutadiene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Methylnaphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	002,010,018
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	002,010,018
2-Chloronaphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Nitroaniline	T207	M105	0.1	mg/kg	M	002,010,018
2-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	002,010,018
Dimethyl phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	002,010,018
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Acenaphthylene	T207	M105	0.1	mg/kg	U	002,010,018
Acenaphthene	T207	M105	0.1	mg/kg	M	002,010,018
Acenaphthylene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3-Nitroaniline	T207	M105	0.1	mg/kg	U	002,010,018

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Acenaphthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dibenzofuran	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	002,010,018
Dibenzofuran	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Diethyl phthalate	T207	M105	0.1	mg/kg	U	002,010,018
Fluorene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	002,010,018
Diethyl phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Nitroaniline	T207	M105	0.1	mg/kg	U	002,010,018
Fluorene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Azobenzene	T207	M105	0.1	mg/kg	M	002,010,018
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	002,010,018
4-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Azobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Pentachlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Hexachlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Phenanthrene	T207	M105	0.1	mg/kg	M	002,010,018
Anthracene	T207	M105	0.1	mg/kg	U	002,010,018
Pentachlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Carbazole	T207	M105	0.1	mg/kg	U	002,010,018
Phenanthrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	002,010,018
Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Fluoranthene	T207	M105	0.1	mg/kg	M	002,010,018
Carbazole	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	002,010,018
Di-n-butylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002,010,018
Fluoranthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Chrysene	T207	M105	0.1	mg/kg	M	002,010,018
Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	002,010,018
Butyl benzylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	002,010,018
Chrysene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-octylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002,010,018
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
SVOC screen (extra peaks)	T16	M105	10	mg/kg	N	002,006,010,013,016,018,020,027-028
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	N	013,016,020
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
Phenol	T149	AR	0.01	mg/kg	U	006,013,016,020,027-028
Cresols	T16	AR	0.01	mg/kg	U	006,013,016,020,027-028
Xylenols	T16	AR	0.01	mg/kg	U	006,013,016,020,027-028
Asbestos ID	T27	AR			SU	012,015,024
Arsenic	T6	M40	2	mg/kg	M	012,015,024
Cadmium	T6	M40	1	mg/kg	M	012,015,024
Chromium	T6	M40	1	mg/kg	M	012,015,024
Lead	T6	M40	1	mg/kg	M	012,015,024

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Mercury	T6	M40	1	mg/kg	M	012,015,024
Selenium	T6	M40	3	mg/kg	M	012,015,024
Copper	T6	M40	1	mg/kg	M	012,015,024
Nickel	T6	M40	1	mg/kg	M	012,015,024
Zinc	T6	M40	1	mg/kg	M	012,015,024
SO4(Total)	T6	A40	0.01	%	N	012,015,024
SO4(2:1)	T6	AR	0.1	g/l	N	012,015,024
Chromium VI	T6	AR	1	mg/kg	N	012,015,024
Barium	T6	A40	1	mg/kg	U	012,015,024
Beryllium	T6	A40	2	mg/kg	U	012,015,024
Boron (water-soluble)	T6	AR	1	mg/kg	N	012,015,024
Cyanide(Total)	T921	AR	1	mg/kg	M	012,015,024
Phenols(Mono)	T921	AR	1	mg/kg	M	012,015,024
Vanadium	T6	M40	1	mg/kg	M	012,015,024
pH	T7	A40			U	006,013,016,020,027-028
TPH (C11-C20)	T8	AR	1	mg/kg	U	006,013,016,020,027-028
TPH (C20-C40)	T8	AR	1	mg/kg	N	006,013,016,020,027-028
Moisture @105C	T162	AR	0.1	%	N	002,010,012,015,018,024
Retained on 10mm sieve	T2	M40	0.1	%	N	002,010,012,015,018,024

CONCEPT LIFE SCIENCES
DELIVERING SCIENCE

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Concept Life Sciences

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 770952-1

Date of Report: 05-Oct-2018

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Mr Martin Lucass

Customer Job Reference: 103358
Customer Purchase Order: 005555
Customer Site Reference: Scotchborn Lane
Date Job Received at Concept: 01-Oct-2018
Date Analysis Started: 01-Oct-2018
Date Analysis Completed: 05-Oct-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Chloe Kitto
Customer Service Advisor

Issued by :
Chloe Kitto
Customer Service Advisor

Concept Reference: 770952
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**770952 001**	**770952 002**
				Customer Sample Reference	**Plot 12**	**Plot 12**
				Depth	**0.15**	**0.55**
				Date Sampled	**01-OCT-2018**	**01-OCT-2018**
				Matrix Class	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1
Moisture @105C	T162	AR	0.1	%	**22**	**8.7**

Concept Reference: 770952
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC Ltd 002S

				Concept Reference	**770952 001**	**770952 002**
				Customer Sample Reference	**Plot 12**	**Plot 12**
				Depth	**0.15**	**0.55**
				Date Sampled	**01-OCT-2018**	**01-OCT-2018**
				Matrix Class	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Arsenic	T6	M40	2	mg/kg	**13**	**5**
Cadmium	T6	M40	1	mg/kg	**3**	<1
Chromium	T6	M40	1	mg/kg	**28**	**33**
Lead	T6	M40	1	mg/kg	**100**	**11**
Mercury	T6	M40	1	mg/kg	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3
Copper	T6	M40	1	mg/kg	**140**	**18**
Nickel	T6	M40	1	mg/kg	**22**	**30**
Zinc	T6	M40	1	mg/kg	**110**	**37**
pH	T7	A40			**8.4**	**6.8**
SO4(Total)	T6	A40	0.01	%	**0.08**	<0.01
SO4(2:1)	T6	AR	100	mg/l	<100	<100
Chromium VI	T6	A40	1	mg/kg	<1	<1
Barium	T6	A40	1	mg/kg	**100**	**34**
Beryllium	T6	A40	2	mg/kg	<2	<2
Boron (water-soluble)	T6	A40	1	mg/kg	<1	<1
Cyanide(Total)	T921	M105	1	mg/kg	<1	<1
Phenols(Mono)	T921	M105	1	mg/kg	<1	<1
Vanadium	T6	M40	1	mg/kg	**29**	**30**

Concept Reference: 770952
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil

PAH US EPA 16 (B and K split) and Phenol

				Concept Reference	**770952 001**	**770952 002**
				Customer Sample Reference	**Plot 12**	**Plot 12**
				Depth	**0.15**	**0.55**
				Date Sampled	**01-OCT-2018**	**01-OCT-2018**
				Matrix Class	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.3**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.8**	<0.1
Pyrene	T207	M105	0.1	mg/kg	**0.7**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.3**	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.3**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.2**	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.3**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.1**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.2**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**3.5**	<0.1
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1

Concept Reference: 770952
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil

REC Banded TPH

				Concept Reference	**770952 001**	**770952 002**
				Customer Sample Reference	**Plot 12**	**Plot 12**
				Depth	**0.15**	**0.55**
				Date Sampled	**01-OCT-2018**	**01-OCT-2018**
				Matrix Class	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10
TPH (C35-C44)	T8	M105	1	mg/kg	(13) **15**	(13) <1
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	(13) **7**	(13) **2**
TPH (C21-C35)	T206	M105	1	mg/kg	(13) **36**	(13) **3**

Concept Reference: 770952
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC TOC and SOM

				Concept Reference	**770952 001**	**770952 002**
				Customer Sample Reference	**Plot 12**	**Plot 12**
				Depth	**0.15**	**0.55**
				Date Sampled	**01-OCT-2018**	**01-OCT-2018**
				Matrix Class	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Soil Organic Matter	T287	A40	0.1	%	**6.1**	**0.2**
Total Organic Carbon	T21	A40	0.1	%	**3.6**	**0.1**

Concept Reference: 770952
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil
Misc

				Concept Reference	**770952 001**	**770952 002**
				Customer Sample Reference	**Plot 12**	**Plot 12**
				Depth	**0.15**	**0.55**
				Date Sampled	**01-OCT-2018**	**01-OCT-2018**
				Matrix Class	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Asbestos ID	T27	A40			N.D.	N.D.

Index to symbols used in 770952-1

Value	Description
A40	Assisted dried < 40C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
N.D.	Not Detected
13	Results have been blank corrected.
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos testing was subcontracted to REC Asbestos.

Method Index

Value	Description
T921	Colorimetry (CF) (MCERT)
T8	GC/FID
T21	OX/IR
T206	GC/FID (MCERTS)
T162	Grav (1 Dec) (105 C)
T54	GC/MS (Headspace)
T27	PLM
T207	GC/MS (MCERTS)
T287	Calc TOC/0.58
T2	Grav
T6	ICP/OES

T7	Probe

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	001-002
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	001-002
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	001-002
TPH (C35-C44)	T8	M105	1	mg/kg	N	001-002
TPH (C10-C12)	T206	M105	1	mg/kg	M	001-002
TPH (C12-C16)	T206	M105	1	mg/kg	M	001-002
TPH (C16-C21)	T206	M105	1	mg/kg	M	001-002
TPH (C21-C35)	T206	M105	1	mg/kg	M	001-002
Retained on 10mm sieve	T2	M40	0.1	%	N	001-002
Moisture @105C	T162	AR	0.1	%	N	001-002
Soil Organic Matter	T287	A40	0.1	%	N	001-002
Total Organic Carbon	T21	A40	0.1	%	N	001-002
Naphthalene	T207	M105	0.1	mg/kg	M	001-002
Acenaphthylene	T207	M105	0.1	mg/kg	U	001-002
Acenaphthene	T207	M105	0.1	mg/kg	M	001-002
Fluorene	T207	M105	0.1	mg/kg	M	001-002
Phenanthrene	T207	M105	0.1	mg/kg	M	001-002
Anthracene	T207	M105	0.1	mg/kg	U	001-002
Fluoranthene	T207	M105	0.1	mg/kg	M	001-002
Pyrene	T207	M105	0.1	mg/kg	M	001-002
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001-002
Chrysene	T207	M105	0.1	mg/kg	M	001-002
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001-002
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001-002
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001-002
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001-002
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001-002
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001-002
PAH(total)	T207	M105	0.1	mg/kg	U	001-002
Phenol	T207	M105	0.1	mg/kg	M	001-002
Asbestos ID	T27	A40			SU	001-002
Arsenic	T6	M40	2	mg/kg	M	001-002
Cadmium	T6	M40	1	mg/kg	M	001-002
Chromium	T6	M40	1	mg/kg	M	001-002
Lead	T6	M40	1	mg/kg	M	001-002
Mercury	T6	M40	1	mg/kg	M	001-002
Selenium	T6	M40	3	mg/kg	M	001-002
Copper	T6	M40	1	mg/kg	M	001-002
Nickel	T6	M40	1	mg/kg	M	001-002
Zinc	T6	M40	1	mg/kg	M	001-002
pH	T7	A40			M	001-002
SO4(Total)	T6	A40	0.01	%	N	001-002
SO4(2:1)	T6	AR	100	mg/l	N	001-002
Chromium VI	T6	A40	1	mg/kg	N	001-002
Barium	T6	A40	1	mg/kg	U	001-002
Beryllium	T6	A40	2	mg/kg	U	001-002
Boron (water-soluble)	T6	A40	1	mg/kg	N	001-002
Cyanide(Total)	T921	M105	1	mg/kg	M	001-002
Phenols(Mono)	T921	M105	1	mg/kg	M	001-002
Vanadium	T6	M40	1	mg/kg	M	001-002

Ref: 07v103358
Date: 22nd November 2018

John Fenlon
Bellway Homes Limited (North West)
2 Alderman Road
Hunts Cross
Liverpool
Merseyside
L24 9LR

BY Email john.fenlon@bellway.co.uk

Dear John,

Garden Validation – Scotchbarn Lane, Knowsley – Plots 14-16

Background and Objectives

In accordance with the Remediation Strategy ref 103358p2r2, dated November 2017, the following is required across the whole site:

Depth Requirement for Gardens

- A total clean cover system comprising a minimum thickness of 600 mm;
- A minimum topsoil thickness of 150 mm; and,
- The remainder of the clean cover system shall be comprised of subsoil.

Validation Requirement

- Independent validation of works by Geo-Environmental Consultant;
- Visual inspection and chemical laboratory validation sampling; and
- Production of validation letter reports for the clean cover system.

Table 1: Chemical Validation Testing Requirement

Source	Source of Material			
	Greenfield	Remediated	Brownfield	Unknown
Gardens	1 per 250m^3	1 per 100 m^3	1 per 50 m^3	1 per 50 m^3
Soft Landscaping	1 per 250m^3	1 per 150 m^3	1 per 150 m^3	1 per 150 m^3
Other Fill Materials	1 per 250m^3	1 per 250m^3	1 per 250m^3	1 per 250m^3

VALIDATION WORKS COMPLETED TO DATE

Table 2 shows a summary of validated plots to date.

Table 2: Summary of Validated Plots

Validated Plots [w/ 600mm Cover System]	Letter Reference
7-10	01v103358
1-2, 5	02v103358
6, 34-39, 118-119	03v103358
41-43 & 117	04v103358
11 & 40	05v103358
12-13	06v103358
14-16	07v103358
Total = 27	

Table 3: Approximate total soil volumes of rear gardens

Material	Volume (m^3)
Topsoil	2,300
Subsoil	6,900

VALIDATION WORKS COMPLETED DURING SITE VISIT OF 7th November 2018

An engineer from REC attended site on 7th November 2018 to confirm the thickness of the topsoil and subsoil placed in the rear gardens of Plots 14-16 and collect soil samples for chemical analysis, further details as below. For the avoidance of doubt, REC can confirm that this report refers to 3 No. detached residential properties.

Depth Validation

In total 3 excavations (one in each rear gardens as illustrated in Figure 1. below were advanced by hand with the resulting strata encountered listed in individual certificates presented below. The excavations were completed to confirm that the required amount of cover system has been installed in the rear of the properties.

REC can confirm that our independent inspection provides sufficient visual evidence that the required 600mm clean cover system depth has been put in place within the **rear** residential garden areas of Plots 14-16.

Physical Validation

Upon inspection of the topsoil and subsoil material of the plots that have been successfully validated, the REC Engineer did not encounter any potentially deleterious or unsuitable materials discernible by the naked eye; for example ceramic materials, metal objects, plastics, treated wood or textiles, etc.

It should be noted that the visual inspection undertaken was of stockpile surfaces and of the arisings brought to the surface as part of the sampling exercise at each plot; and not of all the material used across the entirety of the site and therefore there may be deleterious materials present which were not encountered during this validation visit.

Chemical Validation

All site won sub soil topsoil samples have been analysed for the constituents of concern noted in Table 3 (as enclosed to this letter) to the correct frequency as specified in Table 1 above and have been subsequently assessed against their suitability for a residential end use development.

TOPSOIL

Source Chemical Testing Certificates

An engineer from site visited site on two separate occasions on the 17th- 19th May 2016 and 15th March 2017 to undertake phase II ground investigations. These investigations found that the topsoil situated on site to be suitable for reuse in the garden areas. The certificates from the laboratory analysis are attached to this letter report.

Volume Chemical Testing Certificates

In total 2 No. samples of the topsoil (0.2mbgl and 0.5mbgl) were tested at a frequency of 1 per 50m^3.

After completion of the laboratory analysis, REC can confirm that the topsoil and subsoil installed in the rear gardens of Plots 14, 15 and 16 meet the specified requirements as a suitable growing medium and is fit for its intended use.

Yours Sincerely,

For and on behalf of REC Ltd

Alex Reavley
Consultant

Approved and Authorised

Phil Hill
Senior Consultant

Enclosed:
Sketch Location Plan of Validation Pits
Plot Inspection Records (including photographs and description)
Table 3: Screening Values for Materials within Residential Soft Landscaping Areas
Chemical Analysis Certificates

Figure 1: Sketch Plot Validation Pit Location

- Validated Plots during Site Visit on 7th November 2018
- Previously Validated Plots

PLOT INSPECTION RECORD

PLOT NUMBER: 14

Developer: Bellway Homes **Date: 07/11/2018**
Pit Location: Rear Garden **Consultant: A.Reavley**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
N/A

GARDEN VALIDATION: PASS

PLOT NUMBER: 15

Developer: Bellway Homes **Date: 07/11/2018**
Pit Location: Rear Garden **Consultant: A.Reavley**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
Topsoil samples taken at 0.20 and 0.50m bgl respectively.

GARDEN VALIDATION: PASS

PLOT NUMBER: 16

Developer: Bellway Homes **Date: 07/11/2018**
Pit Location: Rear Garden **Consultant: A.Reavley**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
N/A

GARDEN VALIDATION: PASS

SUITABILITY CRITERIA

Table 3.2: Validation Testing Summary

Determinand	Units	Screening Value for Use within Private Gardens	Maximum Concentration within Upper Topsoil	Maximum Concentration within Lower Topsoil	Screening Value Source
Inorganics – Metals and Asbestos					
Arsenic	mg/kg	37	13	14	(i)
Cadmium	mg/kg	11	3	3	(i)
Chromium (VI)	mg/kg	6	<1	<1	(i)
Lead	mg/kg	200	110	110	(iv)
Inorganic Mercury	mg/kg	40	<1	<1	(i)
Nickel	mg/kg	130	20	20	(i)
Selenium	mg/kg	250	<3	<3	(i)
Copper	mg/kg	2,400	120	140	(i)
Zinc	mg/kg	3,700	100	110	(i)
Cyanide	mg/kg	791	<1	<1	(v)
Asbestos	%	None Detected	N.D	N.D	N/A
Organics - PAHs					
Phenol	mg/kg	200	<0.1	<0.1	(ii)
Naphthalene	mg/kg	5.6	<0.1	<0.1	(ii)
Acenaphthylene	mg/kg	420	<0.1	<0.1	(ii)
Acenaphthene	mg/kg	510	<0.1	<0.1	(ii)
Fluorene	mg/kg	400	<0.1	<0.1	(ii)
Phenanthrene	mg/kg	220	0.2	0.1	(ii)
Anthracene	mg/kg	2,400	<0.1	<0.1	(ii)
Fluoranthene	mg/kg	280	0.4	0.4	(ii)
Pyrene	mg/kg	1200	0.4	0.4	(ii)
Benzo(a)Anthracene	mg/kg	2.7	0.2	0.2	(ii)
Chrysene	mg/kg	22	0.2	0.2	(ii)
Benzo(b)Fluoranthene	mg/kg	3.3	<0.1	0.2	(ii)
Benzo(k)Fluoranthene	mg/kg	93	<0.1	0.2	(ii)
Benzo(a)Pyrene	mg/kg	2.7	0.1	0.2	(ii)
Indeno(123-cd)Pyrene	mg/kg	36	<0.1	0.1	(ii)
Dibenzo(a,h)Anthracene	mg/kg	0.28	<0.1	<0.1	(ii)
Benzo(ghi)Perylene	mg/kg	340	<0.1	0.2	(ii)
Organics – TPHs					
TPH C_5-C_6	mg/kg	78	<0.10	<0.10	(iii)
TPH C_6-C_8	mg/kg	230	<0.10	0.31	(iii)
TPH C_8-C_{10}	mg/kg	65	<0.10	<0.10	(iii)
TPH C_{10}-C_{12}	mg/kg	180	[13]<1	[13]<1	(iii)
TPH C_{12}-C_{16}	mg/kg	330	[13]2	[13]1	(iii)
TPH C_{16}-C_{21}	mg/kg	540	[13]7	[13]5	(iii)
TPH C_{21}-C_{35}	mg/kg	1,500	[13]39	[13]25	(iii)
TPH C_{35}-C_{44}	mg/kg	1,500	[13] 12	[13])7	(iii)

Screening Value Source

(i) LQM/CIEH Suitable For Use Level (S4UL) (2015);
(ii) S4UL –Assessment Approach of 3% SOM;
(iii) S4UL –3% SOM and assumed worst case aliphatic / aromatic compound;
(iv) Defra Category 4 Screening Level (2014);
(v) CLEA v1.06 Derived Value.

[13] Results have been blank corrected.

SOIL CHEMICAL ANALYSIS

a CONCEPT LIFE SCIENCES company

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 572763-1

Date of Report: 01-Jun-2016

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Miss Sabine Sargeant

Customer Job Reference: 101754
Customer Purchase Order: 001151
Customer Site Reference: Scotchbarn Lane
Date Job Received at SAL: 18-May-2016
Date Analysis Started: 26-May-2016
Date Analysis Completed: 01-Jun-2016

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with Section 25 of the SAL Quality Manual

UKAS TESTING 1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Emma Spear
Project Manager

Issued by :
Emma Spear
Project Manager

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Bulk Product Analysed as Bulk Product
Asbestos ID

SAL Reference	**572763 004**
Customer Sample Reference	**TP102**
Bottom Depth	**0.4**
Date Sampled	**17-MAY-2016**
Type	**Fill**

Determinand	Method	Test Sample	LOD	Units	
Asbestos	T27	AR			Chrysotile Fibres Detected

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
Customer Sample Reference					**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
Bottom Depth					**1**	**0.4**	**0.2**	**0.7**	**0.2**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**11**	**7.2**	**7.4**	**7.4**	**18**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 008**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
Customer Sample Reference					**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
Bottom Depth					**2**	**2**	**0.5**	**2.1**	**0.5**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**7.3**	**11**	**18**	**18**	**9.7**
Retained on 10mm sieve	T2	M40	0.1	%	-	-	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 015**	**572763 016**	**572763 017**	**572763 018**	**572763 019**
Customer Sample Reference					**TP108**	**TP109**	**TP110**	**TP111**	**TP112**
Bottom Depth					**0.1**	**0.5**	**0.4**	**0.3**	**0.1**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**8.2**	**14**	**18**	**18**	**35**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 020**	**572763 022**	**572763 023**	**572763 025**	**572763 028**
				Customer Sample Reference	**TP112**	**TP113**	**TP113**	**WS102**	**WS104**
				Bottom Depth	**0.9**	**0.5**	**1.4**	**0.2**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**18**	**17**	**12**	**5.8**	**19**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 029**	**572763 031**	**572763 032**	**572763 033**	**572763 035**
				Customer Sample Reference	**WS105**	**WS108**	**WS108**	**WS109**	**WS110**
				Bottom Depth	**0.1**	**0.2**	**0.5**	**0.3**	**1.2**
				Date Sampled	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**25**	**23**	**16**	**15**	**26**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 039**
				Customer Sample Reference	**WS113**
				Bottom Depth	**0.7**
				Date Sampled	**19-MAY-2016**
				Type	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Moisture @105C	T162	AR	0.1	%	**5.2**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**8**	**25**	**17**	**5**	**18**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	**2**
Chromium	T6	M40	1	mg/kg	**30**	**18**	**26**	**20**	**20**
Lead	T6	M40	1	mg/kg	**11**	**110**	**32**	**5**	**66**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**17**	**70**	**69**	**7**	**81**
Nickel	T6	M40	1	mg/kg	**26**	**28**	**34**	**17**	**19**
Zinc	T6	M40	1	mg/kg	**48**	**190**	**120**	**23**	**98**
pH	T7	AR			**5.8**	**7.1**	**8.2**	**7.5**	**5.9**
SO4(Total)	T6	M40	0.01	%	**0.02**	**0.30**	**0.07**	**0.01**	**0.07**
SO4(2:1)	T6	AR	100	mg/l	<100	**310**	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**3**	**2**	**2**	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**36**	**37**	**41**	**24**	**32**
Barium	T6	M40	1	mg/kg	**100**	**150**	**160**	**26**	**98**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	**1**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 011**	**572763 012**	**572763 013**	**572763 015**	**572763 016**
				Customer Sample Reference	**TP106**	**TP106**	**TP107**	**TP108**	**TP109**
				Bottom Depth	**0.5**	**2.1**	**0.5**	**0.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**18**	**4**	**16**	**13**	**13**
Cadmium	T6	M40	1	mg/kg	**3**	<1	**2**	<1	**2**
Chromium	T6	M40	1	mg/kg	**23**	**17**	**23**	**28**	**22**
Lead	T6	M40	1	mg/kg	**120**	**7**	**190**	**150**	**100**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**130**	**12**	**48**	**61**	**84**
Nickel	T6	M40	1	mg/kg	**20**	**16**	**18**	**21**	**18**
Zinc	T6	M40	1	mg/kg	**140**	**24**	**270**	**170**	**130**
pH	T7	AR			**6.9**	**6.7**	**6.9**	**7.4**	**7.4**
SO4(Total)	T6	M40	0.01	%	**0.07**	<0.01	**0.88**	**0.08**	**0.15**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**650**	**130**	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**2**	<2	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**36**	**20**	**36**	**30**	**31**
Barium	T6	M40	1	mg/kg	**97**	**35**	**280**	**150**	**150**
Cyanide(Total)	T546	AR	1	mg/kg	**1**	<1	**1**	**1**	<1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 017**	**572763 018**	**572763 019**	**572763 020**	**572763 022**
				Customer Sample Reference	**TP110**	**TP111**	**TP112**	**TP112**	**TP113**
				Bottom Depth	**0.4**	**0.3**	**0.1**	**0.9**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**10**	**18**	**12**	**21**	**10**
Cadmium	T6	M40	1	mg/kg	<1	**3**	**4**	**4**	<1
Chromium	T6	M40	1	mg/kg	**14**	**35**	**19**	**21**	**52**
Lead	T6	M40	1	mg/kg	**92**	**140**	**100**	**110**	**12**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**42**	**150**	**170**	**130**	**17**
Nickel	T6	M40	1	mg/kg	**16**	**28**	**16**	**15**	**29**
Zinc	T6	M40	1	mg/kg	**170**	**160**	**120**	**110**	**47**
pH	T7	AR			**7.7**	**7.0**	**5.3**	**4.6**	**5.8**
SO4(Total)	T6	M40	0.01	%	**0.04**	**0.07**	**0.11**	**0.09**	**0.02**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	<2	**2**	<2	<2	**3**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	**3**	<1	<1
Vanadium	T6	M40	1	mg/kg	**25**	**39**	**27**	**28**	**55**
Barium	T6	M40	1	mg/kg	**100**	**160**	**93**	**98**	**78**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1

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				SAL Reference	**572763 023**	**572763 025**	**572763 028**	**572763 029**	**572763 031**
				Customer Sample Reference	**TP113**	**WS102**	**WS104**	**WS105**	**WS108**
				Bottom Depth	**1.4**	**0.2**	**0.2**	**0.1**	**0.2**
				Date Sampled	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**10**	**18**	**19**	**18**	**15**
Cadmium	T6	M40	1	mg/kg	<1	<1	**3**	**4**	**4**
Chromium	T6	M40	1	mg/kg	**33**	**16**	**20**	**25**	**23**
Lead	T6	M40	1	mg/kg	**16**	**65**	**130**	**120**	**110**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**15**	**21**	**160**	**180**	**180**
Nickel	T6	M40	1	mg/kg	**37**	**16**	**20**	**21**	**20**
Zinc	T6	M40	1	mg/kg	**38**	**86**	**140**	**150**	**130**
pH	T7	AR			**6.6**	**10.7**	**6.5**	**6.4**	**6.3**
SO4(Total)	T6	M40	0.01	%	**0.01**	**0.61**	**0.09**	**0.09**	**0.09**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**2**	<2	**2**	**2**	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	**1**	**2**	**1**
Vanadium	T6	M40	1	mg/kg	**41**	**25**	**30**	**34**	**32**
Barium	T6	M40	1	mg/kg	**100**	**110**	**110**	**110**	**100**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1

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				SAL Reference	**572763 032**	**572763 033**	**572763 035**	**572763 039**
				Customer Sample Reference	**WS108**	**WS109**	**WS110**	**WS113**
				Bottom Depth	**0.5**	**0.3**	**1.2**	**0.7**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Arsenic	T6	M40	2	mg/kg	**15**	**21**	**21**	**5**
Cadmium	T6	M40	1	mg/kg	**2**	**2**	**3**	<1
Chromium	T6	M40	1	mg/kg	**21**	**27**	**19**	**33**
Lead	T6	M40	1	mg/kg	**110**	**170**	**190**	**33**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**93**	**120**	**250**	**44**
Nickel	T6	M40	1	mg/kg	**19**	**42**	**23**	**24**
Zinc	T6	M40	1	mg/kg	**110**	**170**	**450**	**120**
pH	T7	AR			**6.4**	**6.4**	**6.7**	**7.8**
SO4(Total)	T6	M40	0.01	%	**0.06**	**0.11**	**0.18**	**0.03**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**170**	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	<2	**3**	**2**	**2**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**34**	**52**	**32**	**46**
Barium	T6	M40	1	mg/kg	**87**	**210**	**170**	**86**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1

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				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.2**	<0.1	**0.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.4**	**0.6**	<0.1	**0.4**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.3**	**0.9**	<0.1	**0.4**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.3**	<0.1	**0.2**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.5**	<0.1	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.6**	<0.1	**0.3**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.4**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.7**	**0.4**	<0.1	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.4**	<0.1	**0.1**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**8.3**	**3.9**	<0.1	**2.0**

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 011**	**572763 012**	**572763 013**	**572763 015**	**572763 016**
				Customer Sample Reference	**TP106**	**TP106**	**TP107**	**TP108**	**TP109**
				Bottom Depth	**0.5**	**2.1**	**0.5**	**0.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**0.1**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**0.1**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.0**	**1.7**	**1.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	**0.5**	**0.3**
Fluoranthene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**2.2**	**3.3**	**2.0**
Pyrene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**2.0**	**3.3**	**2.0**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.0**	**2.3**	**1.1**
Chrysene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.2**	**2.6**	**1.3**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.4**	**3.3**	**1.4**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.4**	**0.5**	**0.3**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.0**	**2.2**	**1.0**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.6**	**1.2**	**0.5**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.3**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.8**	**1.5**	**0.6**
PAH(total)	T207	M105	0.1	mg/kg	**2.6**	<0.1	**12**	**23**	**12**

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 017**	**572763 018**	**572763 019**	**572763 020**	**572763 022**
				Customer Sample Reference	**TP110**	**TP111**	**TP112**	**TP112**	**TP113**
				Bottom Depth	**0.4**	**0.3**	**0.1**	**0.9**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.6**	**0.2**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**1.7**	**0.5**	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**1.7**	**0.5**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.9**	**0.2**	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**1.0**	**0.3**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**1.2**	**0.3**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.2**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.8**	**0.2**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.5**	**0.1**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.3**	**0.6**	**0.1**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**5.1**	**9.4**	**2.5**	<0.1

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 023**	**572763 025**	**572763 028**	**572763 029**	**572763 031**
				Customer Sample Reference	**TP113**	**WS102**	**WS104**	**WS105**	**WS108**
				Bottom Depth	**1.4**	**0.2**	**0.2**	**0.1**	**0.2**
				Date Sampled	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.7**	**0.2**	**0.3**	**0.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.7**	**0.6**	**0.6**	**0.5**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.6**	**0.6**	**0.6**	**0.5**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**1.0**	**0.3**	**0.3**	**0.2**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.3**	**0.3**	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.2**	**0.5**	**0.5**	**0.3**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.3**	**0.3**	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.2**	**0.2**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.2**	**0.2**	**0.2**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**9.5**	**3.3**	**3.4**	**2.3**

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 032**	**572763 033**	**572763 035**	**572763 039**
				Customer Sample Reference	**WS108**	**WS109**	**WS110**	**WS113**
				Bottom Depth	**0.5**	**0.3**	**1.2**	**0.7**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.4**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.3**	**1.0**	**0.8**	<0.1
Pyrene	T207	M105	0.1	mg/kg	**0.3**	**0.9**	**0.7**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.1**	**0.6**	**0.4**	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.1**	**0.6**	**0.4**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.1**	**0.7**	**0.4**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.3**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.3**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**0.9**	**6.5**	**3.9**	<0.1

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				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	**(13) 2**	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	**(13) 6**	**(13) 2**	(13) <1	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1	**(13) 10**	**(13) 13**	(13) <1	**(13) 2**
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1	**(13) 36**	**(13) 150**	(13) <1	**(13) 7**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	**(13) 20**	**(13) 77**	**(13) 2**	(13) <1

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				SAL Reference	**572763 008**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	**0.84**	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13,9) <10
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(9,13) <10
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1	(13) <1	**(13) 1**	(13) <1	(9,13) <10
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1	(13) <1	**(13) 10**	(13) <1	**(13) 11**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	**(13) 10**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 015**	**572763 016**	**572763 017**	**572763 018**	**572763 019**
				Customer Sample Reference	**TP108**	**TP109**	**TP110**	**TP111**	**TP112**
				Bottom Depth	**0.1**	**0.5**	**0.4**	**0.3**	**0.1**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	**(13) 3**	**(13) 2**	(13) <1	(13) <1	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 35**	**(13) 18**	(13) <1	**(13) 3**	**(13) 3**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 340**	**(13) 73**	(13) <1	**(13) 15**	**(13) 14**
TPH (C35-C44)	T8	M105	1	mg/kg	**(13) 120**	**(13) 23**	(13) <1	(13) <1	**(13) 1**

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Project Site: Scotchbarn Lane
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Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 020**	**572763 022**	**572763 023**	**572763 025**	**572763 028**
				Customer Sample Reference	**TP112**	**TP113**	**TP113**	**WS102**	**WS104**
				Bottom Depth	**0.9**	**0.5**	**1.4**	**0.2**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 6**	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 1**	(13) <1	(13) <1	**(13) 33**	**(13) 1**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 9**	(13) <1	(13) <1	**(13) 180**	**(13) 11**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 65**	(13) <1

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Project Site: Scotchbarn Lane
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Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 029**	**572763 031**	**572763 032**	**572763 033**	**572763 035**
				Customer Sample Reference	**WS105**	**WS108**	**WS108**	**WS109**	**WS110**
				Bottom Depth	**0.1**	**0.2**	**0.5**	**0.3**	**1.2**
				Date Sampled	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 3**	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 3**	(13) <1	(13) <1	**(13) 9**	**(13) 5**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 12**	**(13) 6**	**(13) 7**	**(13) 17**	**(13) 14**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 1**	**(13) 1**

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Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 039**
				Customer Sample Reference	**WS113**
				Bottom Depth	**0.7**
				Date Sampled	**19-MAY-2016**
				Type	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1

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Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 001**	**572763 002**	**572763 003**	**572763 005**	**572763 006**
				Customer Sample Reference	**TP101**	**TP101**	**TP102**	**TP103**	**TP103**
				Bottom Depth	**1**	**2.2**	**0.4**	**0.2**	**0.7**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			-	**6.5**	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**310**	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 007**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**0.2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			-	**7.2**	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	**650**

SAL Reference: 572763
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Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 014**	**572763 015**	**572763 016**	**572763 017**	**572763 018**
				Customer Sample Reference	**TP107**	**TP108**	**TP109**	**TP110**	**TP111**
				Bottom Depth	**1.2**	**0.1**	**0.5**	**0.4**	**0.3**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			**6.4**	-	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	**130**	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 019**	**572763 020**	**572763 022**	**572763 023**	**572763 025**
				Customer Sample Reference	**TP112**	**TP112**	**TP113**	**TP113**	**WS102**
				Bottom Depth	**0.1**	**0.9**	**0.5**	**1.4**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

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Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 028**	**572763 029**	**572763 031**	**572763 032**	**572763 033**
				Customer Sample Reference	**WS104**	**WS105**	**WS108**	**WS108**	**WS109**
				Bottom Depth	**0.2**	**0.1**	**0.2**	**0.5**	**0.3**
				Date Sampled	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

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Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 035**	**572763 039**	**572763 040**
				Customer Sample Reference	**WS110**	**WS113**	**WS113**
				Bottom Depth	**1.2**	**0.7**	**1.4**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			-	-	**7.6**
SO4(2:1)	T6	AR	100	mg/l	**170**	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 001**	**572763 002**	**572763 003**	**572763 005**	**572763 006**
				Customer Sample Reference	**TP101**	**TP101**	**TP102**	**TP103**	**TP103**
				Bottom Depth	**1**	**2.2**	**0.4**	**0.2**	**0.7**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**310**	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 007**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**0.2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	**650**

SAL Reference: 572763
Project Site: Scotchbarn Lane
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Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 014**	**572763 015**	**572763 016**	**572763 017**	**572763 018**
				Customer Sample Reference	**TP107**	**TP108**	**TP109**	**TP110**	**TP111**
				Bottom Depth	**1.2**	**0.1**	**0.5**	**0.4**	**0.3**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			-	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	**130**	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
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Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 019**	**572763 020**	**572763 022**	**572763 023**	**572763 025**
				Customer Sample Reference	**TP112**	**TP112**	**TP113**	**TP113**	**WS102**
				Bottom Depth	**0.1**	**0.9**	**0.5**	**1.4**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
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Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 028**	**572763 029**	**572763 031**	**572763 032**	**572763 033**
				Customer Sample Reference	**WS104**	**WS105**	**WS108**	**WS108**	**WS109**
				Bottom Depth	**0.2**	**0.1**	**0.2**	**0.5**	**0.3**
				Date Sampled	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 035**	**572763 039**	**572763 040**
				Customer Sample Reference	**WS110**	**WS113**	**WS113**
				Bottom Depth	**1.2**	**0.7**	**1.4**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Asbestos ID	T27	AR			N.D.	N.D.	-
SO4(2:1)	T6	AR	100	mg/l	**170**	<100	<100

Index to symbols used in 572763-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
13	Results have been blank corrected.
9	LOD raised due to dilution of sample
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos was sub-contracted to REC Asbestos.
"Fill" samples are outside the scope of our MCERTS accreditation. Results are UKAS only.

Method Index

Value	Description
T7	Probe
T54	GC/MS (Headspace)
T546	Colorimetry (CF)
T162	Grav (1 Dec) (105 C)
T27	PLM
T207	GC/MS (MCERTS)
T8	GC/FID
T6	ICP/OES
T206	GC/FID (MCERTS)
T2	Grav

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos	T27	AR			SU	004
Moisture @105C	T162	AR	0.1	%	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
Retained on 10mm sieve	T2	M40	0.1	%	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Arsenic	T6	M40	2	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Cadmium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Chromium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Lead	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Mercury	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Selenium	T6	M40	3	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Copper	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Nickel	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Zinc	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
pH	T7	AR			M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
SO4(Total)	T6	M40	0.01	%	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
SO4(2:1)	T6	AR	100	mg/l	N	001-003,005-007,009,011-020,022-023,025,028-029,031-033,035,039-040
Chromium VI	T6	AR	1	mg/kg	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Barium	T6	M40	1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Beryllium	T6	M40	2	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Cyanide(Total)	T546	AR	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Phenols(Mono)	T546	AR	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Vanadium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Naphthalene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Acenaphthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Fluorene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Phenanthrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Anthracene	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Chrysene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
PAH(total)	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C10-C12)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C12-C16)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C16-C21)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C21-C35)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C35-C44)	T8	M105	1	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
pH	T7	AR			U	002,009,014,040
Asbestos ID	T27	AR			SU	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039

CONCEPT LIFE SCIENCES
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Concept Life Sciences

Certificate of Analysis

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Report Number: 640278-1

Date of Report: 22-Mar-2017

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Miss Louise Stock

Customer Job Reference: 103358
Customer Purchase Order: 002602
Customer Site Reference: Scotchbarn Lane
Date Job Received at Concept: 16-Mar-2017
Date Analysis Started: 20-Mar-2017
Date Analysis Completed: 22-Mar-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with Concept SOPs

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Aleksandra Pacula
Project Manager

Issued by :
Aleksandra Pacula
Project Manager

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**640278 002**	**640278 010**	**640278 012**	**640278 015**	**640278 018**
				Customer Sample Reference	**TP201**	**TP205**	**TP208**	**TP209**	**TP207**
				Bottom Depth	**1.3**	**0.9**	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**15**	**14**	**4.5**	**8.3**	**16**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**640278 024**
				Customer Sample Reference	**TP210**
				Bottom Depth	**0.9**
				Date Sampled	**15-MAR-2017**
				Type	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Moisture @105C	T162	AR	0.1	%	**9.3**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC 002S

				Concept Reference	**640278 012**	**640278 015**	**640278 024**
				Customer Sample Reference	**TP208**	**TP209**	**TP210**
				Bottom Depth	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Arsenic	T6	M40	2	mg/kg	**9**	**15**	**7**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**21**	**24**	**30**
Lead	T6	M40	1	mg/kg	**16**	**35**	**51**
Mercury	T6	M40	1	mg/kg	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3
Copper	T6	M40	1	mg/kg	**25**	**47**	**52**
Nickel	T6	M40	1	mg/kg	**19**	**22**	**22**
Zinc	T6	M40	1	mg/kg	**41**	**93**	**77**
pH	T7	AR			**9.1**	**9.8**	**8.2**
SO4(Total)	T6	A40	0.01	%	**0.31**	**0.69**	**0.04**
SO4(2:1)	T6	AR	0.1	g/l	**0.2**	**0.1**	<0.1
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1
Barium	T6	A40	1	mg/kg	**75**	**150**	**75**
Beryllium	T6	A40	2	mg/kg	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1
Cyanide(Total)	T921	AR	1	mg/kg	<1	<1	<1
Phenols(Mono)	T921	AR	1	mg/kg	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**24**	**33**	**32**

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 1

				Concept Reference	**640278 002**	**640278 010**	**640278 018**
				Customer Sample Reference	**TP201**	**TP205**	**TP207**
				Bottom Depth	**1.3**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			**7.8**	**6.3**	**7.9**
Electrical Conductivity	T7	A40	10	µS/cm	**1500**	**1600**	**650**
Redox Potential	T7	A40		mV	**-51**	**-38**	**-100**

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 2

				Concept Reference	**640278 013**	**640278 016**	**640278 020**
				Customer Sample Reference	**TP208**	**TP209**	**TP206**
				Bottom Depth	**0.9**	**0.9**	**0.65**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Electrical Conductivity	T7	A40	10	µS/cm	**1500**	**1400**	**1600**
pH	T7	A40			**9.9**	**10.1**	**8.3**
Redox Potential	T7	A40		mV	**-120**	**-120**	**-89**
TPH (C11-C20)	T8	AR	1	mg/kg	(13) **1**	(13) **5**	(13) **4**
TPH (C20-C40)	T8	AR	1	mg/kg	(13) **10**	(13) **63**	(13) **16**
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 3

				Concept Reference	**640278 006**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP203**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Electrical Conductivity	T7	A40	10	µS/cm	**1400**	**1800**	**1700**
pH	T7	A40			**7.3**	**8.0**	**8.1**
Redox Potential	T7	A40		mV	**-49**	**11**	**9**
TPH (C11-C20)	T8	AR	1	mg/kg	(13) <1	(13) <1	(13) <1
TPH (C20-C40)	T8	AR	1	mg/kg	(13) **5**	(13) **9**	(13) <1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Phenols (Speciated)

				Concept Reference	**640278 006**	**640278 013**	**640278 016**	**640278 020**	**640278 027**
				Customer Sample Reference	**TP203**	**TP208**	**TP209**	**TP206**	**TP211**
				Bottom Depth	**0.9**	**0.9**	**0.9**	**0.65**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Phenol	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Phenols (Speciated)

				Concept Reference	**640278 028**
				Customer Sample Reference	**TP211**
				Bottom Depth	**1.4**
				Date Sampled	**15-MAR-2017**
				Type	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Phenol	T149	AR	0.01	mg/kg	<0.01
Cresols	T16	AR	0.01	mg/kg	<0.01
Xylenols	T16	AR	0.01	mg/kg	<0.01

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Phenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Phenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chlorophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-methyl phenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
3/4-Methylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Hexachloroethane	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Nitrobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Isophorone	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitrophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Naphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Naphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Chloroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Hexachlorobutadiene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Methylnaphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	(36,62) <0.5	-	(36,62) <0.5	-	-
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	-	(62,36) <0.5	-	(36,62) <0.5	(62,36) <0.5
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chloronaphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Dimethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Acenaphthylene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Acenaphthene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
3-Nitroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Dibenzofuran	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluorene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Diethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluorene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Azobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	(62,36) <0.5	-	(62,36) <0.5	-	-
Hexachlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Pentachlorophenol	T16	M105	0.1	mg/kg	-	(36,62) <0.5	-	(36,62) <0.5	(36,62) <0.5
Carbazole	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Phenanthrene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.6**	**0.2**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Anthracene	T16	M105	0.1	mg/kg	-	<0.1	-	**0.2**	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Carbazole	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Di-n-butylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluoranthene	T16	M105	0.1	mg/kg	-	**0.4**	-	**0.7**	**0.3**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Chrysene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Pyrene	T16	M105	0.1	mg/kg	-	**0.4**	-	**0.5**	**0.3**
Butyl benzylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.3**	**0.2**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Chrysene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.2**	**0.1**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Di-n-octylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	-	**0.3**	-	**0.3**	**0.2**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.2**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
SVOC screen (extra peaks)	T16	M105	10	mg/kg	<10	<10	<10	<10	<10
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	-	**0.1**	-	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.1**	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Phenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Phenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chlorophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-methyl phenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
3/4-Methylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	-	-	-
Hexachloroethane	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Nitrobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	-	-	-
Isophorone	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitrophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Naphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Naphthalene	T16	M105	0.1	mg/kg	-	**0.1**	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Chloroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Hexachlorobutadiene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Methylnaphthalene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	(62,36) <0.5	-	-	-
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	-	(62,36) <0.5	(36,62) <0.5	(36,62) <0.5
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chloronaphthalene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Dimethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Acenaphthylene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Acenaphthene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
3-Nitroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Dibenzofuran	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluorene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	-	-
Diethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluorene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Azobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	(36,62) <0.5	-	-	-
Hexachlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Pentachlorophenol	T16	M105	0.1	mg/kg	-	(36,62) <0.5	(62,36) <0.5	(36,62) <0.5
Carbazole	T207	M105	0.1	mg/kg	<0.1	-	-	-
Phenanthrene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Anthracene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Carbazole	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Di-n-butylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluoranthene	T16	M105	0.1	mg/kg	-	**0.3**	**0.2**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Chrysene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Pyrene	T16	M105	0.1	mg/kg	-	**0.4**	**0.2**	<0.1
Butyl benzylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	-	**0.3**	**0.1**	<0.1
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Chrysene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Di-n-octylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	-	**0.6**	**0.1**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	-	-	-
SVOC screen (extra peaks)	T16	M105	10	mg/kg	<10	<10	<10	<10
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1

Concept Reference: 640278
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Soil Analysed as Soil
Miscellaneous

				Concept Reference	**640278 012**	**640278 015**	**640278 024**
				Customer Sample Reference	**TP208**	**TP209**	**TP210**
				Bottom Depth	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Asbestos ID	T27	AR			N.D.	N.D.	N.D.

Index to symbols used in 640278-1

Value	Description
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
A40	Assisted dried < 40C
N.D.	Not Detected
110	LOD raised due to low internal standard recovery.
62	LOD was raised due to the method performance of the analytical procedure used
13	Results have been blank corrected.
36	LOD Raised due to low Matrix spike recovery
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos was subcontracted to REC Asbestos.

Method Index

Value	Description
T8	GC/FID
T921	Colorimetry (CF) (MCERT)
T16	GC/MS
T27	PLM
T6	ICP/OES
T207	GC/MS (MCERTS)
T85	Calc
T149	GC/MS (SIR)
T7	Probe
T2	Grav
T54	GC/MS (Headspace)

T162	Grav (1 Dec) (105 C)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
pH	T7	AR			M	002,010,012,015,018,024
Electrical Conductivity	T7	A40	10	µS/cm	N	002,006,010,013,016,018,020,027-028
Redox Potential	T7	A40		mV	N	002,006,010,013,016,018,020,027-028
Phenol	T207	M105	0.1	mg/kg	M	002,010,018
Phenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	002,010,018
2-Chlorophenol	T207	M105	0.1	mg/kg	M	002,010,018
2-Chlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	002,010,018
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-methyl phenol	T207	M105	0.1	mg/kg	M	002,010,018
2-methyl phenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	002,010,018
3/4-Methylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachloroethane	T207	M105	0.1	mg/kg	U	002,010,018
Hexachloroethane	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Nitrobenzene	T207	M105	0.1	mg/kg	M	002,010,018
Nitrobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Isophorone	T207	M105	0.1	mg/kg	U	002,010,018
Isophorone	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Nitrophenol	T207	M105	0.1	mg/kg	U	002,010,018
2-Nitrophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	002,010,018
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Naphthalene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloroaniline	T207	M105	0.1	mg/kg	U	002,010,018
Naphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Chloroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	002,010,018
Hexachlorobutadiene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Methylnaphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	002,010,018
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	002,010,018
2-Chloronaphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Nitroaniline	T207	M105	0.1	mg/kg	M	002,010,018
2-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	002,010,018
Dimethyl phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	002,010,018
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Acenaphthylene	T207	M105	0.1	mg/kg	U	002,010,018
Acenaphthene	T207	M105	0.1	mg/kg	M	002,010,018
Acenaphthylene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3-Nitroaniline	T207	M105	0.1	mg/kg	U	002,010,018

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Acenaphthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dibenzofuran	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	002,010,018
Dibenzofuran	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Diethyl phthalate	T207	M105	0.1	mg/kg	U	002,010,018
Fluorene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	002,010,018
Diethyl phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Nitroaniline	T207	M105	0.1	mg/kg	U	002,010,018
Fluorene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Azobenzene	T207	M105	0.1	mg/kg	M	002,010,018
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	002,010,018
4-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Azobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Pentachlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Hexachlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Phenanthrene	T207	M105	0.1	mg/kg	M	002,010,018
Anthracene	T207	M105	0.1	mg/kg	U	002,010,018
Pentachlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Carbazole	T207	M105	0.1	mg/kg	U	002,010,018
Phenanthrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	002,010,018
Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Fluoranthene	T207	M105	0.1	mg/kg	M	002,010,018
Carbazole	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	002,010,018
Di-n-butylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002,010,018
Fluoranthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Chrysene	T207	M105	0.1	mg/kg	M	002,010,018
Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	002,010,018
Butyl benzylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	002,010,018
Chrysene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-octylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002,010,018
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
SVOC screen (extra peaks)	T16	M105	10	mg/kg	N	002,006,010,013,016,018,020,027-028
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	N	013,016,020
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
Phenol	T149	AR	0.01	mg/kg	U	006,013,016,020,027-028
Cresols	T16	AR	0.01	mg/kg	U	006,013,016,020,027-028
Xylenols	T16	AR	0.01	mg/kg	U	006,013,016,020,027-028
Asbestos ID	T27	AR			SU	012,015,024
Arsenic	T6	M40	2	mg/kg	M	012,015,024
Cadmium	T6	M40	1	mg/kg	M	012,015,024
Chromium	T6	M40	1	mg/kg	M	012,015,024
Lead	T6	M40	1	mg/kg	M	012,015,024

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Mercury	T6	M40	1	mg/kg	M	012,015,024
Selenium	T6	M40	3	mg/kg	M	012,015,024
Copper	T6	M40	1	mg/kg	M	012,015,024
Nickel	T6	M40	1	mg/kg	M	012,015,024
Zinc	T6	M40	1	mg/kg	M	012,015,024
SO4(Total)	T6	A40	0.01	%	N	012,015,024
SO4(2:1)	T6	AR	0.1	g/l	N	012,015,024
Chromium VI	T6	AR	1	mg/kg	N	012,015,024
Barium	T6	A40	1	mg/kg	U	012,015,024
Beryllium	T6	A40	2	mg/kg	U	012,015,024
Boron (water-soluble)	T6	AR	1	mg/kg	N	012,015,024
Cyanide(Total)	T921	AR	1	mg/kg	M	012,015,024
Phenols(Mono)	T921	AR	1	mg/kg	M	012,015,024
Vanadium	T6	M40	1	mg/kg	M	012,015,024
pH	T7	A40			U	006,013,016,020,027-028
TPH (C11-C20)	T8	AR	1	mg/kg	U	006,013,016,020,027-028
TPH (C20-C40)	T8	AR	1	mg/kg	N	006,013,016,020,027-028
Moisture @105C	T162	AR	0.1	%	N	002,010,012,015,018,024
Retained on 10mm sieve	T2	M40	0.1	%	N	002,010,012,015,018,024

CONCEPT LIFE SCIENCES
DELIVERING SCIENCE

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Concept Life Sciences

Certificate of Analysis

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Report Number: 780722-2

Date of Report: 14-Nov-2018

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Mr Phil Hill

Customer Job Reference: 103358
Customer Purchase Order: 005823
Customer Site Reference: Scotchbarn Lane
Date Job Received at Concept: 07-Nov-2018
Date Analysis Started: 08-Nov-2018
Date Analysis Completed: 14-Nov-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Aleksandra Pacula
Senior Customer Service Advisor

Issued by :
Aleksandra Pacula
Senior Customer Service Advisor

Concept Reference: 780722
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**780722 001**	**780722 002**
				Customer Sample Reference	**TS1**	**TS2**
				Hole ID	**Plot 15**	**Plot 15**
				Top Depth	**0.2**	**0.5**
				Date Sampled	**07-NOV-2018**	**07-NOV-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Moisture @105C	T162	AR	0.1	%	**23**	**21**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1

Concept Reference: 780722
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC Ltd 002S

				Concept Reference	**780722 001**	**780722 002**
				Customer Sample Reference	**TS1**	**TS2**
				Hole ID	**Plot 15**	**Plot 15**
				Top Depth	**0.2**	**0.5**
				Date Sampled	**07-NOV-2018**	**07-NOV-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Arsenic	T6	M40	2	mg/kg	**13**	**14**
Cadmium	T6	M40	1	mg/kg	**3**	**3**
Chromium	T6	M40	1	mg/kg	**22**	**23**
Lead	T6	M40	1	mg/kg	**110**	**110**
Mercury	T6	M40	1	mg/kg	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3
Copper	T6	M40	1	mg/kg	**120**	**140**
Nickel	T6	M40	1	mg/kg	**20**	**20**
Zinc	T6	M40	1	mg/kg	**100**	**110**
pH	T7	A40			**7.6**	**7.3**
SO4(Total)	T6	A40	0.01	%	**0.07**	**0.07**
SO4(2:1)	T6	AR	0.1	g/l	<0.1	<0.1
Chromium VI	T6	A40	1	mg/kg	<1	<1
Barium	T6	A40	1	mg/kg	**110**	**120**
Beryllium	T6	A40	2	mg/kg	<2	<2
Boron (water-soluble)	T6	A40	1	mg/kg	<1	<1
Cyanide(Total)	T921	M105	1	mg/kg	<1	<1
Phenols(Mono)	T921	M105	1	mg/kg	<1	<1
Vanadium	T6	M40	1	mg/kg	**24**	**25**

Concept Reference: 780722
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

PAH US EPA 16 (B and K split) and Phenol

				Concept Reference	**780722 001**	**780722 002**
				Customer Sample Reference	**TS1**	**TS2**
				Hole ID	**Plot 15**	**Plot 15**
				Top Depth	**0.2**	**0.5**
				Date Sampled	**07-NOV-2018**	**07-NOV-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1
Acenaphthylene	T207	AR	0.1	mg/kg	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.2**	**0.1**
Anthracene	T207	AR	0.1	mg/kg	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.4**	**0.4**
Pyrene	T207	M105	0.1	mg/kg	**0.4**	**0.4**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.2**	**0.2**
Chrysene	T207	M105	0.1	mg/kg	**0.2**	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.1**	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.1**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.2**
PAH(total)	T207	AR	0.1	mg/kg	**1.4**	**2.2**
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1

Concept Reference: 780722
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

REC Banded TPH

				Concept Reference	**780722 001**	**780722 002**
				Customer Sample Reference	**TS1**	**TS2**
				Hole ID	**Plot 15**	**Plot 15**
				Top Depth	**0.2**	**0.5**
				Date Sampled	**07-NOV-2018**	**07-NOV-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	**0.31**
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10
TPH (C35-C44)	T8	AR	1	mg/kg	**12**(13)	**7**(13)
TPH (C10-C12)	T206	M105	1	mg/kg	<1(13)	<1(13)
TPH (C12-C16)	T206	M105	1	mg/kg	**2**(13)	**1**(13)
TPH (C16-C21)	T206	M105	1	mg/kg	**7**(13)	**5**(13)
TPH (C21-C35)	T206	M105	1	mg/kg	**39**(13)	**25**(13)

Concept Reference: 780722
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC TOC and SOM

				Concept Reference	**780722 001**	**780722 002**
				Customer Sample Reference	**TS1**	**TS2**
				Hole ID	**Plot 15**	**Plot 15**
				Top Depth	**0.2**	**0.5**
				Date Sampled	**07-NOV-2018**	**07-NOV-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Soil Organic Matter	T287	A40	0.1	%	**4.6**	**5.5**
Total Organic Carbon	T21	A40	0.1	%	**2.7**	**3.2**

Concept Reference: 780722
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Misc

				Concept Reference	**780722 001**	**780722 002**
				Customer Sample Reference	**TS1**	**TS2**
				Hole ID	**Plot 15**	**Plot 15**
				Top Depth	**0.2**	**0.5**
				Date Sampled	**07-NOV-2018**	**07-NOV-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Asbestos ID	T27	A40			N.D.	N.D.

Index to symbols used in 780722-2

Value	Description
A40	Assisted dried < 40C
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
AR	As Received
N.D.	Not Detected
13	Results have been blank corrected.
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos testing was subcontracted to REC Asbestos.

Method Index

Value	Description
T2	Grav
T27	PLM
T162	Grav (1 Dec) (105 C)
T206	GC/FID (MCERTS)
T21	OX/IR
T7	Probe
T207	GC/MS (MCERTS)
T287	Calc TOC/0.58
T6	ICP/OES

T921	Colorimetry (CF) (MCERT)
T8	GC/FID
T54	GC/MS (Headspace)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Moisture @105C	T162	AR	0.1	%	N	001-002
Retained on 10mm sieve	T2	M40	0.1	%	N	001-002
Arsenic	T6	M40	2	mg/kg	M	001-002
Cadmium	T6	M40	1	mg/kg	M	001-002
Chromium	T6	M40	1	mg/kg	M	001-002
Lead	T6	M40	1	mg/kg	M	001-002
Mercury	T6	M40	1	mg/kg	M	001-002
Selenium	T6	M40	3	mg/kg	M	001-002
Copper	T6	M40	1	mg/kg	M	001-002
Nickel	T6	M40	1	mg/kg	M	001-002
Zinc	T6	M40	1	mg/kg	M	001-002
pH	T7	A40			M	001-002
SO4(Total)	T6	A40	0.01	%	N	001-002
SO4(2:1)	T6	AR	0.1	g/l	N	001-002
Chromium VI	T6	A40	1	mg/kg	N	001-002
Barium	T6	A40	1	mg/kg	U	001-002
Beryllium	T6	A40	2	mg/kg	U	001-002
Boron (water-soluble)	T6	A40	1	mg/kg	N	001-002
Cyanide(Total)	T921	M105	1	mg/kg	M	001-002
Phenols(Mono)	T921	M105	1	mg/kg	M	001-002
Vanadium	T6	M40	1	mg/kg	M	001-002
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	001-002
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	001-002
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	001-002
TPH (C35-C44)	T8	AR	1	mg/kg	N	001-002
TPH (C10-C12)	T206	M105	1	mg/kg	M	001-002
TPH (C12-C16)	T206	M105	1	mg/kg	M	001-002
TPH (C16-C21)	T206	M105	1	mg/kg	M	001-002
TPH (C21-C35)	T206	M105	1	mg/kg	M	001-002
Asbestos ID	T27	A40			SU	001-002
Naphthalene	T207	M105	0.1	mg/kg	M	001-002
Acenaphthylene	T207	AR	0.1	mg/kg	U	001-002
Acenaphthene	T207	M105	0.1	mg/kg	M	001-002
Fluorene	T207	M105	0.1	mg/kg	M	001-002
Phenanthrene	T207	M105	0.1	mg/kg	M	001-002
Anthracene	T207	AR	0.1	mg/kg	U	001-002
Fluoranthene	T207	M105	0.1	mg/kg	M	001-002
Pyrene	T207	M105	0.1	mg/kg	M	001-002
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001-002
Chrysene	T207	M105	0.1	mg/kg	M	001-002
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001-002
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001-002
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001-002
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001-002
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001-002
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001-002
PAH(total)	T207	AR	0.1	mg/kg	U	001-002
Phenol	T207	M105	0.1	mg/kg	M	001-002
Soil Organic Matter	T287	A40	0.1	%	N	001-002
Total Organic Carbon	T21	A40	0.1	%	N	001-002

Ref: 08v103358
Date: 28th February 2019

John Fenlon
Bellway Homes Limited (North West)
2 Alderman Road
Hunts Cross
Liverpool
Merseyside
L24 9LR

BY Email john.fenlon@bellway.co.uk

Dear John,

Garden Validation – Scotchbarn Lane, Knowsley – Plots 17-19

Background and Objectives
In accordance with the Remediation Strategy ref 103358p2r2, dated November 2017, the following remedial measures are required in all areas of the site:

Depth Requirement for Gardens

- A total clean cover system comprising a minimum thickness of 600 mm;
- A minimum topsoil thickness of 150 mm; and,
- The remainder of the clean cover system shall be comprised of subsoil.

Validation Requirement

- Independent validation of works by Geo-Environmental Consultant;
- Visual inspection and chemical laboratory validation sampling; and
- Production of validation letter reports for the clean cover system.

Required sample numbers for chemical validation are summarised in Table 1.

Table 1: Chemical Validation Testing Requirement

Source	Source of Material			
	Greenfield	Remediated	Brownfield	Unknown
Gardens	1 per 250m^3	1 per 100 m^3	1 per 50 m^3	1 per 50 m^3
Soft Landscaping	1 per 250m^3	1 per 150 m^3	1 per 150 m^3	1 per 150 m^3
Other Fill Materials	1 per 250m^3	1 per 250m^3	1 per 250m^3	1 per 250m^3

Validation Works Completed
Table 2 shows a summary of validated plots to date.

Table 2: Summary of Validated Plots

Validated Plots [w/ 600mm Cover System]	Letter Reference
7-10	01v103358
1-2, 5	02v103358
6, 34-39, 118-119	03v103358
41-43 & 117	04v103358
11 & 40	05v103358
12-13	06v103358
14-16	07v103358
17-19	08v103358

Table 3 summarises approximate volumes of soil validated to date within the rear gardens.

Table 3: Approximate total soil volumes of rear gardens

Material	Volume (m^3)
Topsoil	2,300
Subsoil	6,900

Validation Visit - 5th December 2019
REC attended site on 5th December 2018 to confirm the correct thickness of topsoil and subsoil has been used in the rear gardens of 3 properties in Plots 17-19 and to collect samples for laboratory analysis.

One excavation in each rear garden was advanced by hand as shown on Figure 1 below. The depths and descriptions of each strata encountered were recorded.

REC's independent inspection shows that the required 600mm of clean cover is present within the rear gardens of Plots 17-19.

A visual inspection of the topsoil and subsoil at each of the four excavations confirmed it to be free of potentially deleterious or unsuitable materials discernible by the naked eye such as ceramic materials, metal objects, plastics, treated wood or textiles.

Topsoil and subsoil samples were collected and analysed for the constituents of concern noted in Table 4 (enclosed to this letter) to the correct frequency as specified in Table 1 above and have been subsequently assessed against their suitability for a residential with gardens and plant uptake end use development.

Laboratory Testing of Site Won Topsoil
REC visited site on the 17th- 19th May 2016 and 15th March 2017 to undertake intrusive ground investigations. Sampling and testing of site won topsoil as part of this work determined it suitable for use within gardens. Laboratory test certificates are attached to this report.

Laboratory Testing of Placed Topsoil
Two samples of topsoil were tested at a frequency of 1 per $50m^3$ within Plot 18. A minor exceedance for lead of 230mg/kg compared with a screening value of 200mg/kg was encountered in the sample from Plot 18 at 0.3m bgl. Given the marginal nature of the result, that the screening values derived

are conservative, the other sample was below the limit and from the same source, and additional testing during previous visits has demonstrated lead concentrations below the screening value it is considered that the topsoil is suitable for use and no further work is required. Laboratory test certificates are attached to this report.

Yours Sincerely,

For and on behalf of REC Ltd

Phil Hill

Approved and Authorised

Martin Lucass

Enclosed:
Sketch Location Plan of Validation Pits
Plot Inspection Records (including photographs and description)
Table 4: Screening Values for Materials within Residential Soft Landscaping Areas
Chemical Analysis Certificates

Figure 1: Sketch Plot Validation Pit Location

- Validated Plots during Site Visit on 5th December 2018
- Previously Validated Plots

PLOT INSPECTION RECORDS

PLOT NUMBER: 17

Developer: Bellway Homes **Date: 05/12/2018**
Pit Location: Rear Garden **Consultant: C. Dowd**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
N/A

GARDEN VALIDATION: PASS

PLOT NUMBER: 18

Developer: Bellway Homes **Date: 05/12/2018**
Pit Location: Rear Garden **Consultant: C. Dowd**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
Elevated Lead encountered in Topsoil sample at 0.2 – Not considered significant – See Report

GARDEN VALIDATION: PASS

PLOT NUMBER: 19

Developer: Bellway Homes **Date: 05/12/2018**
Pit Location: Rear Garden **Consultant: C. Dowd**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
N/A

GARDEN VALIDATION: PASS

SUITABILITY CRITERIA

Table 4: Validation Testing Summary

Determinand	Units	Screening Value for Use within Private Gardens	Maximum Concentration within Upper Topsoil	Maximum Concentration within Lower Topsoil	Screening Value Source
Inorganics – Metals and Asbestos					
Arsenic	mg/kg	37	13	16	(i)
Cadmium	mg/kg	11	3	3	(i)
Chromium (VI)	mg/kg	6	<1	<1	(i)
Lead	mg/kg	200	230	160	(iv)
Inorganic Mercury	mg/kg	40	<1	<1	(i)
Nickel	mg/kg	130	24	24	(i)
Selenium	mg/kg	250	<3	<3	(i)
Copper	mg/kg	2,400	140	120	(i)
Zinc	mg/kg	3,700	120	120	(i)
Cyanide	mg/kg	791	<1	<1	(v)
Asbestos	%	None Detected	N.D	N.D	N/A
Organics - PAHs					
Phenol	mg/kg	200	<0.1	<0.1	(ii)
Naphthalene	mg/kg	5.6	<0.1	<0.1	(ii)
Acenaphthylene	mg/kg	420	<0.1	<0.1	(ii)
Acenaphthene	mg/kg	510	<0.1	<0.1	(ii)
Fluorene	mg/kg	400	<0.1	<0.1	(ii)
Phenanthrene	mg/kg	220	0.6	0.4	(ii)
Anthracene	mg/kg	2,400	0.2	<0.1	(ii)
Fluoranthene	mg/kg	280	1.4	0.7	(ii)
Pyrene	mg/kg	1200	1.4	0.7	(ii)
Benzo(a)Anthracene	mg/kg	2.7	0.8	0.3	(ii)
Chrysene	mg/kg	22	0.7	0.3	(ii)
Benzo(b)Fluoranthene	mg/kg	3.3	0.5	0.2	(ii)
Benzo(k)Fluoranthene	mg/kg	93	0.4	0.2	(ii)
Benzo(a)Pyrene	mg/kg	2.7	0.5	0.2	(ii)
Indeno(123-cd)Pyrene	mg/kg	36	0.3	0.1	(ii)
Dibenzo(a,h)Anthracene	mg/kg	0.28	<0.1	<0.1	(ii)
Benzo(ghi)Perylene	mg/kg	340	0.3	0.2	(ii)
Organics – TPHs					
TPH C_5-C_6	mg/kg	78	<0.10	<0.10	(iii)
TPH C_6-C_8	mg/kg	230	<0.10	<0.10	(iii)
TPH C_8-C_{10}	mg/kg	65	<0.10	<0.10	(iii)
TPH C_{10}-C_{12}	mg/kg	180	(13)<1	(13)<1	(iii)
TPH C_{12}-C_{16}	mg/kg	330	(13)<1	(13)<1	(iii)
TPH C_{16}-C_{21}	mg/kg	540	(13)1	(13)6	(iii)
TPH C_{21}-C_{35}	mg/kg	1,500	(13)1	(13)32	(iii)
TPH C_{35}-C_{44}	mg/kg	1,500	(13) 1	(13))6	(iii)

Screening Value Source

(i) LQM/CIEH Suitable For Use Level (S4UL) (2015);
(ii) S4UL –Assessment Approach of 3% SOM;
(iii) S4UL –3% SOM and assumed worst case aliphatic / aromatic compound;
(iv) Defra Category 4 Screening Level (2014);
(v) CLEA v1.06 Derived Value.

(13) Results have been blank corrected.

SOIL CHEMICAL ANALYSIS

a CONCEPT LIFE SCIENCES company

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
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M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 572763-1

Date of Report: 01-Jun-2016

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Miss Sabine Sargeant

Customer Job Reference: 101754
Customer Purchase Order: 001151
Customer Site Reference: Scotchbarn Lane
Date Job Received at SAL: 18-May-2016
Date Analysis Started: 26-May-2016
Date Analysis Completed: 01-Jun-2016

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with Section 25 of the SAL Quality Manual

UKAS TESTING 1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Emma Spear
Project Manager

Issued by :
Emma Spear
Project Manager

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Bulk Product Analysed as Bulk Product
Asbestos ID

SAL Reference	**572763 004**
Customer Sample Reference	**TP102**
Bottom Depth	**0.4**
Date Sampled	**17-MAY-2016**
Type	**Fill**

Determinand	Method	Test Sample	LOD	Units	
Asbestos	T27	AR			Chrysotile Fibres Detected

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
Customer Sample Reference					**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
Bottom Depth					**1**	**0.4**	**0.2**	**0.7**	**0.2**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**11**	**7.2**	**7.4**	**7.4**	**18**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 008**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
Customer Sample Reference					**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
Bottom Depth					**2**	**2**	**0.5**	**2.1**	**0.5**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**7.3**	**11**	**18**	**18**	**9.7**
Retained on 10mm sieve	T2	M40	0.1	%	-	-	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 015**	**572763 016**	**572763 017**	**572763 018**	**572763 019**
Customer Sample Reference					**TP108**	**TP109**	**TP110**	**TP111**	**TP112**
Bottom Depth					**0.1**	**0.5**	**0.4**	**0.3**	**0.1**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**8.2**	**14**	**18**	**18**	**35**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 020**	**572763 022**	**572763 023**	**572763 025**	**572763 028**
				Customer Sample Reference	**TP112**	**TP113**	**TP113**	**WS102**	**WS104**
				Bottom Depth	**0.9**	**0.5**	**1.4**	**0.2**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**18**	**17**	**12**	**5.8**	**19**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 029**	**572763 031**	**572763 032**	**572763 033**	**572763 035**
				Customer Sample Reference	**WS105**	**WS108**	**WS108**	**WS109**	**WS110**
				Bottom Depth	**0.1**	**0.2**	**0.5**	**0.3**	**1.2**
				Date Sampled	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**25**	**23**	**16**	**15**	**26**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 039**
				Customer Sample Reference	**WS113**
				Bottom Depth	**0.7**
				Date Sampled	**19-MAY-2016**
				Type	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Moisture @105C	T162	AR	0.1	%	**5.2**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
REC Ltd 002S

				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**8**	**25**	**17**	**5**	**18**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	**2**
Chromium	T6	M40	1	mg/kg	**30**	**18**	**26**	**20**	**20**
Lead	T6	M40	1	mg/kg	**11**	**110**	**32**	**5**	**66**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**17**	**70**	**69**	**7**	**81**
Nickel	T6	M40	1	mg/kg	**26**	**28**	**34**	**17**	**19**
Zinc	T6	M40	1	mg/kg	**48**	**190**	**120**	**23**	**98**
pH	T7	AR			**5.8**	**7.1**	**8.2**	**7.5**	**5.9**
SO4(Total)	T6	M40	0.01	%	**0.02**	**0.30**	**0.07**	**0.01**	**0.07**
SO4(2:1)	T6	AR	100	mg/l	<100	**310**	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**3**	**2**	**2**	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**36**	**37**	**41**	**24**	**32**
Barium	T6	M40	1	mg/kg	**100**	**150**	**160**	**26**	**98**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	**1**

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				SAL Reference	**572763 011**	**572763 012**	**572763 013**	**572763 015**	**572763 016**
				Customer Sample Reference	**TP106**	**TP106**	**TP107**	**TP108**	**TP109**
				Bottom Depth	**0.5**	**2.1**	**0.5**	**0.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**18**	**4**	**16**	**13**	**13**
Cadmium	T6	M40	1	mg/kg	**3**	<1	**2**	<1	**2**
Chromium	T6	M40	1	mg/kg	**23**	**17**	**23**	**28**	**22**
Lead	T6	M40	1	mg/kg	**120**	**7**	**190**	**150**	**100**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**130**	**12**	**48**	**61**	**84**
Nickel	T6	M40	1	mg/kg	**20**	**16**	**18**	**21**	**18**
Zinc	T6	M40	1	mg/kg	**140**	**24**	**270**	**170**	**130**
pH	T7	AR			**6.9**	**6.7**	**6.9**	**7.4**	**7.4**
SO4(Total)	T6	M40	0.01	%	**0.07**	<0.01	**0.88**	**0.08**	**0.15**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**650**	**130**	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**2**	<2	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**36**	**20**	**36**	**30**	**31**
Barium	T6	M40	1	mg/kg	**97**	**35**	**280**	**150**	**150**
Cyanide(Total)	T546	AR	1	mg/kg	**1**	<1	**1**	**1**	<1

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				SAL Reference	**572763 017**	**572763 018**	**572763 019**	**572763 020**	**572763 022**
				Customer Sample Reference	**TP110**	**TP111**	**TP112**	**TP112**	**TP113**
				Bottom Depth	**0.4**	**0.3**	**0.1**	**0.9**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**10**	**18**	**12**	**21**	**10**
Cadmium	T6	M40	1	mg/kg	<1	**3**	**4**	**4**	<1
Chromium	T6	M40	1	mg/kg	**14**	**35**	**19**	**21**	**52**
Lead	T6	M40	1	mg/kg	**92**	**140**	**100**	**110**	**12**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**42**	**150**	**170**	**130**	**17**
Nickel	T6	M40	1	mg/kg	**16**	**28**	**16**	**15**	**29**
Zinc	T6	M40	1	mg/kg	**170**	**160**	**120**	**110**	**47**
pH	T7	AR			**7.7**	**7.0**	**5.3**	**4.6**	**5.8**
SO4(Total)	T6	M40	0.01	%	**0.04**	**0.07**	**0.11**	**0.09**	**0.02**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	<2	**2**	<2	<2	**3**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	**3**	<1	<1
Vanadium	T6	M40	1	mg/kg	**25**	**39**	**27**	**28**	**55**
Barium	T6	M40	1	mg/kg	**100**	**160**	**93**	**98**	**78**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1

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				SAL Reference	**572763 023**	**572763 025**	**572763 028**	**572763 029**	**572763 031**
				Customer Sample Reference	**TP113**	**WS102**	**WS104**	**WS105**	**WS108**
				Bottom Depth	**1.4**	**0.2**	**0.2**	**0.1**	**0.2**
				Date Sampled	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**10**	**18**	**19**	**18**	**15**
Cadmium	T6	M40	1	mg/kg	<1	<1	**3**	**4**	**4**
Chromium	T6	M40	1	mg/kg	**33**	**16**	**20**	**25**	**23**
Lead	T6	M40	1	mg/kg	**16**	**65**	**130**	**120**	**110**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**15**	**21**	**160**	**180**	**180**
Nickel	T6	M40	1	mg/kg	**37**	**16**	**20**	**21**	**20**
Zinc	T6	M40	1	mg/kg	**38**	**86**	**140**	**150**	**130**
pH	T7	AR			**6.6**	**10.7**	**6.5**	**6.4**	**6.3**
SO4(Total)	T6	M40	0.01	%	**0.01**	**0.61**	**0.09**	**0.09**	**0.09**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**2**	<2	**2**	**2**	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	**1**	**2**	**1**
Vanadium	T6	M40	1	mg/kg	**41**	**25**	**30**	**34**	**32**
Barium	T6	M40	1	mg/kg	**100**	**110**	**110**	**110**	**100**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1

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				SAL Reference	**572763 032**	**572763 033**	**572763 035**	**572763 039**
				Customer Sample Reference	**WS108**	**WS109**	**WS110**	**WS113**
				Bottom Depth	**0.5**	**0.3**	**1.2**	**0.7**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Arsenic	T6	M40	2	mg/kg	**15**	**21**	**21**	**5**
Cadmium	T6	M40	1	mg/kg	**2**	**2**	**3**	<1
Chromium	T6	M40	1	mg/kg	**21**	**27**	**19**	**33**
Lead	T6	M40	1	mg/kg	**110**	**170**	**190**	**33**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**93**	**120**	**250**	**44**
Nickel	T6	M40	1	mg/kg	**19**	**42**	**23**	**24**
Zinc	T6	M40	1	mg/kg	**110**	**170**	**450**	**120**
pH	T7	AR			**6.4**	**6.4**	**6.7**	**7.8**
SO4(Total)	T6	M40	0.01	%	**0.06**	**0.11**	**0.18**	**0.03**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**170**	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	<2	**3**	**2**	**2**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**34**	**52**	**32**	**46**
Barium	T6	M40	1	mg/kg	**87**	**210**	**170**	**86**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.2**	<0.1	**0.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.4**	**0.6**	<0.1	**0.4**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.3**	**0.9**	<0.1	**0.4**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.3**	<0.1	**0.2**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.5**	<0.1	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.6**	<0.1	**0.3**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.4**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.7**	**0.4**	<0.1	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.4**	<0.1	**0.1**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**8.3**	**3.9**	<0.1	**2.0**

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 011**	**572763 012**	**572763 013**	**572763 015**	**572763 016**
				Customer Sample Reference	**TP106**	**TP106**	**TP107**	**TP108**	**TP109**
				Bottom Depth	**0.5**	**2.1**	**0.5**	**0.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**0.1**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**0.1**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.0**	**1.7**	**1.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	**0.5**	**0.3**
Fluoranthene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**2.2**	**3.3**	**2.0**
Pyrene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**2.0**	**3.3**	**2.0**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.0**	**2.3**	**1.1**
Chrysene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.2**	**2.6**	**1.3**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.4**	**3.3**	**1.4**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.4**	**0.5**	**0.3**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.0**	**2.2**	**1.0**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.6**	**1.2**	**0.5**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.3**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.8**	**1.5**	**0.6**
PAH(total)	T207	M105	0.1	mg/kg	**2.6**	<0.1	**12**	**23**	**12**

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 017**	**572763 018**	**572763 019**	**572763 020**	**572763 022**
				Customer Sample Reference	**TP110**	**TP111**	**TP112**	**TP112**	**TP113**
				Bottom Depth	**0.4**	**0.3**	**0.1**	**0.9**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.6**	**0.2**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**1.7**	**0.5**	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**1.7**	**0.5**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.9**	**0.2**	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**1.0**	**0.3**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**1.2**	**0.3**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.2**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.8**	**0.2**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.5**	**0.1**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.3**	**0.6**	**0.1**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**5.1**	**9.4**	**2.5**	<0.1

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 023**	**572763 025**	**572763 028**	**572763 029**	**572763 031**
				Customer Sample Reference	**TP113**	**WS102**	**WS104**	**WS105**	**WS108**
				Bottom Depth	**1.4**	**0.2**	**0.2**	**0.1**	**0.2**
				Date Sampled	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.7**	**0.2**	**0.3**	**0.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.7**	**0.6**	**0.6**	**0.5**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.6**	**0.6**	**0.6**	**0.5**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**1.0**	**0.3**	**0.3**	**0.2**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.3**	**0.3**	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.2**	**0.5**	**0.5**	**0.3**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.3**	**0.3**	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.2**	**0.2**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.2**	**0.2**	**0.2**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**9.5**	**3.3**	**3.4**	**2.3**

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Soil Analysed as Soil
PAH US EPA 16 (B and K split)

				SAL Reference	**572763 032**	**572763 033**	**572763 035**	**572763 039**
				Customer Sample Reference	**WS108**	**WS109**	**WS110**	**WS113**
				Bottom Depth	**0.5**	**0.3**	**1.2**	**0.7**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.4**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.3**	**1.0**	**0.8**	<0.1
Pyrene	T207	M105	0.1	mg/kg	**0.3**	**0.9**	**0.7**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.1**	**0.6**	**0.4**	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.1**	**0.6**	**0.4**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.1**	**0.7**	**0.4**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.3**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.3**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**0.9**	**6.5**	**3.9**	<0.1

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Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	**(13) 2**	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	**(13) 6**	**(13) 2**	(13) <1	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1	**(13) 10**	**(13) 13**	(13) <1	**(13) 2**
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1	**(13) 36**	**(13) 150**	(13) <1	**(13) 7**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	**(13) 20**	**(13) 77**	**(13) 2**	(13) <1

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Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 008**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	**0.84**	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13,9) <10
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(9,13) <10
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1	(13) <1	**(13) 1**	(13) <1	(9,13) <10
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1	(13) <1	**(13) 10**	(13) <1	**(13) 11**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	**(13) 10**

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Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 015**	**572763 016**	**572763 017**	**572763 018**	**572763 019**
				Customer Sample Reference	**TP108**	**TP109**	**TP110**	**TP111**	**TP112**
				Bottom Depth	**0.1**	**0.5**	**0.4**	**0.3**	**0.1**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	**(13) 3**	**(13) 2**	(13) <1	(13) <1	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 35**	**(13) 18**	(13) <1	**(13) 3**	**(13) 3**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 340**	**(13) 73**	(13) <1	**(13) 15**	**(13) 14**
TPH (C35-C44)	T8	M105	1	mg/kg	**(13) 120**	**(13) 23**	(13) <1	(13) <1	**(13) 1**

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Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 020**	**572763 022**	**572763 023**	**572763 025**	**572763 028**
				Customer Sample Reference	**TP112**	**TP113**	**TP113**	**WS102**	**WS104**
				Bottom Depth	**0.9**	**0.5**	**1.4**	**0.2**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 6**	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 1**	(13) <1	(13) <1	**(13) 33**	**(13) 1**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 9**	(13) <1	(13) <1	**(13) 180**	**(13) 11**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 65**	(13) <1

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Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 029**	**572763 031**	**572763 032**	**572763 033**	**572763 035**
				Customer Sample Reference	**WS105**	**WS108**	**WS108**	**WS109**	**WS110**
				Bottom Depth	**0.1**	**0.2**	**0.5**	**0.3**	**1.2**
				Date Sampled	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 3**	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 3**	(13) <1	(13) <1	**(13) 9**	**(13) 5**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 12**	**(13) 6**	**(13) 7**	**(13) 17**	**(13) 14**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 1**	**(13) 1**

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Soil Analysed as Soil
REC Banded TPH

				SAL Reference	**572763 039**
				Customer Sample Reference	**WS113**
				Bottom Depth	**0.7**
				Date Sampled	**19-MAY-2016**
				Type	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1

SAL Reference: 572763
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Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 001**	**572763 002**	**572763 003**	**572763 005**	**572763 006**
				Customer Sample Reference	**TP101**	**TP101**	**TP102**	**TP103**	**TP103**
				Bottom Depth	**1**	**2.2**	**0.4**	**0.2**	**0.7**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			-	**6.5**	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**310**	<100	<100

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Project Site: Scotchbarn Lane
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Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 007**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**0.2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			-	**7.2**	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	**650**

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Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 014**	**572763 015**	**572763 016**	**572763 017**	**572763 018**
				Customer Sample Reference	**TP107**	**TP108**	**TP109**	**TP110**	**TP111**
				Bottom Depth	**1.2**	**0.1**	**0.5**	**0.4**	**0.3**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			**6.4**	-	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	**130**	<100	<100	<100

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Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 019**	**572763 020**	**572763 022**	**572763 023**	**572763 025**
				Customer Sample Reference	**TP112**	**TP112**	**TP113**	**TP113**	**WS102**
				Bottom Depth	**0.1**	**0.9**	**0.5**	**1.4**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

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Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 028**	**572763 029**	**572763 031**	**572763 032**	**572763 033**
				Customer Sample Reference	**WS104**	**WS105**	**WS108**	**WS108**	**WS109**
				Bottom Depth	**0.2**	**0.1**	**0.2**	**0.5**	**0.3**
				Date Sampled	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

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Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 035**	**572763 039**	**572763 040**
				Customer Sample Reference	**WS110**	**WS113**	**WS113**
				Bottom Depth	**1.2**	**0.7**	**1.4**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			-	-	**7.6**
SO4(2:1)	T6	AR	100	mg/l	**170**	<100	<100

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Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 001**	**572763 002**	**572763 003**	**572763 005**	**572763 006**
				Customer Sample Reference	**TP101**	**TP101**	**TP102**	**TP103**	**TP103**
				Bottom Depth	**1**	**2.2**	**0.4**	**0.2**	**0.7**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**310**	<100	<100

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Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 007**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**0.2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	**650**

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Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 014**	**572763 015**	**572763 016**	**572763 017**	**572763 018**
				Customer Sample Reference	**TP107**	**TP108**	**TP109**	**TP110**	**TP111**
				Bottom Depth	**1.2**	**0.1**	**0.5**	**0.4**	**0.3**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			-	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	**130**	<100	<100	<100

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Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 019**	**572763 020**	**572763 022**	**572763 023**	**572763 025**
				Customer Sample Reference	**TP112**	**TP112**	**TP113**	**TP113**	**WS102**
				Bottom Depth	**0.1**	**0.9**	**0.5**	**1.4**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 028**	**572763 029**	**572763 031**	**572763 032**	**572763 033**
				Customer Sample Reference	**WS104**	**WS105**	**WS108**	**WS108**	**WS109**
				Bottom Depth	**0.2**	**0.1**	**0.2**	**0.5**	**0.3**
				Date Sampled	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 035**	**572763 039**	**572763 040**
				Customer Sample Reference	**WS110**	**WS113**	**WS113**
				Bottom Depth	**1.2**	**0.7**	**1.4**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Asbestos ID	T27	AR			N.D.	N.D.	-
SO4(2:1)	T6	AR	100	mg/l	**170**	<100	<100

Index to symbols used in 572763-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
13	Results have been blank corrected.
9	LOD raised due to dilution of sample
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos was sub-contracted to REC Asbestos.
"Fill" samples are outside the scope of our MCERTS accreditation. Results are UKAS only.

Method Index

Value	Description
T7	Probe
T54	GC/MS (Headspace)
T546	Colorimetry (CF)
T162	Grav (1 Dec) (105 C)
T27	PLM
T207	GC/MS (MCERTS)
T8	GC/FID
T6	ICP/OES
T206	GC/FID (MCERTS)
T2	Grav

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos	T27	AR			SU	004
Moisture @105C	T162	AR	0.1	%	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
Retained on 10mm sieve	T2	M40	0.1	%	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Arsenic	T6	M40	2	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Cadmium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Chromium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Lead	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Mercury	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Selenium	T6	M40	3	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Copper	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Nickel	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Zinc	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
pH	T7	AR			M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
SO4(Total)	T6	M40	0.01	%	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
SO4(2:1)	T6	AR	100	mg/l	N	001-003,005-007,009,011-020,022-023,025,028-029,031-033,035,039-040
Chromium VI	T6	AR	1	mg/kg	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Barium	T6	M40	1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Beryllium	T6	M40	2	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Cyanide(Total)	T546	AR	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Phenols(Mono)	T546	AR	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Vanadium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Naphthalene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Acenaphthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Fluorene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Phenanthrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Anthracene	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Chrysene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
PAH(total)	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C10-C12)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C12-C16)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C16-C21)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C21-C35)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C35-C44)	T8	M105	1	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
pH	T7	AR			U	002,009,014,040
Asbestos ID	T27	AR			SU	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039

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Concept Life Sciences

Certificate of Analysis

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Report Number: 640278-1

Date of Report: 22-Mar-2017

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Miss Louise Stock

Customer Job Reference: 103358
Customer Purchase Order: 002602
Customer Site Reference: Scotchbarn Lane
Date Job Received at Concept: 16-Mar-2017
Date Analysis Started: 20-Mar-2017
Date Analysis Completed: 22-Mar-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with Concept SOPs

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Aleksandra Pacula
Project Manager

Issued by :
Aleksandra Pacula
Project Manager

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**640278 002**	**640278 010**	**640278 012**	**640278 015**	**640278 018**
				Customer Sample Reference	**TP201**	**TP205**	**TP208**	**TP209**	**TP207**
				Bottom Depth	**1.3**	**0.9**	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**15**	**14**	**4.5**	**8.3**	**16**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**640278 024**
				Customer Sample Reference	**TP210**
				Bottom Depth	**0.9**
				Date Sampled	**15-MAR-2017**
				Type	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Moisture @105C	T162	AR	0.1	%	**9.3**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC 002S

				Concept Reference	**640278 012**	**640278 015**	**640278 024**
				Customer Sample Reference	**TP208**	**TP209**	**TP210**
				Bottom Depth	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Arsenic	T6	M40	2	mg/kg	**9**	**15**	**7**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**21**	**24**	**30**
Lead	T6	M40	1	mg/kg	**16**	**35**	**51**
Mercury	T6	M40	1	mg/kg	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3
Copper	T6	M40	1	mg/kg	**25**	**47**	**52**
Nickel	T6	M40	1	mg/kg	**19**	**22**	**22**
Zinc	T6	M40	1	mg/kg	**41**	**93**	**77**
pH	T7	AR			**9.1**	**9.8**	**8.2**
SO4(Total)	T6	A40	0.01	%	**0.31**	**0.69**	**0.04**
SO4(2:1)	T6	AR	0.1	g/l	**0.2**	**0.1**	<0.1
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1
Barium	T6	A40	1	mg/kg	**75**	**150**	**75**
Beryllium	T6	A40	2	mg/kg	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1
Cyanide(Total)	T921	AR	1	mg/kg	<1	<1	<1
Phenols(Mono)	T921	AR	1	mg/kg	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**24**	**33**	**32**

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 1

				Concept Reference	**640278 002**	**640278 010**	**640278 018**
				Customer Sample Reference	**TP201**	**TP205**	**TP207**
				Bottom Depth	**1.3**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			**7.8**	**6.3**	**7.9**
Electrical Conductivity	T7	A40	10	µS/cm	**1500**	**1600**	**650**
Redox Potential	T7	A40		mV	**-51**	**-38**	**-100**

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 2

				Concept Reference	**640278 013**	**640278 016**	**640278 020**
				Customer Sample Reference	**TP208**	**TP209**	**TP206**
				Bottom Depth	**0.9**	**0.9**	**0.65**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Electrical Conductivity	T7	A40	10	µS/cm	**1500**	**1400**	**1600**
pH	T7	A40			**9.9**	**10.1**	**8.3**
Redox Potential	T7	A40		mV	**-120**	**-120**	**-89**
TPH (C11-C20)	T8	AR	1	mg/kg	(13) **1**	(13) **5**	(13) **4**
TPH (C20-C40)	T8	AR	1	mg/kg	(13) **10**	(13) **63**	(13) **16**
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 3

				Concept Reference	**640278 006**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP203**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Electrical Conductivity	T7	A40	10	µS/cm	**1400**	**1800**	**1700**
pH	T7	A40			**7.3**	**8.0**	**8.1**
Redox Potential	T7	A40		mV	**-49**	**11**	**9**
TPH (C11-C20)	T8	AR	1	mg/kg	(13) <1	(13) <1	(13) <1
TPH (C20-C40)	T8	AR	1	mg/kg	(13) **5**	(13) **9**	(13) <1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Phenols (Speciated)

				Concept Reference	**640278 006**	**640278 013**	**640278 016**	**640278 020**	**640278 027**
				Customer Sample Reference	**TP203**	**TP208**	**TP209**	**TP206**	**TP211**
				Bottom Depth	**0.9**	**0.9**	**0.9**	**0.65**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Phenol	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Phenols (Speciated)

				Concept Reference	**640278 028**
				Customer Sample Reference	**TP211**
				Bottom Depth	**1.4**
				Date Sampled	**15-MAR-2017**
				Type	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Phenol	T149	AR	0.01	mg/kg	<0.01
Cresols	T16	AR	0.01	mg/kg	<0.01
Xylenols	T16	AR	0.01	mg/kg	<0.01

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Phenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Phenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chlorophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-methyl phenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
3/4-Methylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Hexachloroethane	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Nitrobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Isophorone	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitrophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Naphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Naphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Chloroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Hexachlorobutadiene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Methylnaphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	(36,62) <0.5	-	(36,62) <0.5	-	-
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	-	(62,36) <0.5	-	(36,62) <0.5	(62,36) <0.5
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chloronaphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Dimethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Acenaphthylene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Acenaphthene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
3-Nitroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Dibenzofuran	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluorene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Diethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluorene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Azobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	(62,36) <0.5	-	(62,36) <0.5	-	-
Hexachlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Pentachlorophenol	T16	M105	0.1	mg/kg	-	(36,62) <0.5	-	(36,62) <0.5	(36,62) <0.5
Carbazole	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Phenanthrene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.6**	**0.2**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Anthracene	T16	M105	0.1	mg/kg	-	<0.1	-	**0.2**	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Carbazole	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Di-n-butylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluoranthene	T16	M105	0.1	mg/kg	-	**0.4**	-	**0.7**	**0.3**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Chrysene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Pyrene	T16	M105	0.1	mg/kg	-	**0.4**	-	**0.5**	**0.3**
Butyl benzylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.3**	**0.2**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Chrysene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.2**	**0.1**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Di-n-octylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	-	**0.3**	-	**0.3**	**0.2**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.2**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
SVOC screen (extra peaks)	T16	M105	10	mg/kg	<10	<10	<10	<10	<10
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	-	**0.1**	-	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.1**	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Phenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Phenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chlorophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-methyl phenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
3/4-Methylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	-	-	-
Hexachloroethane	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Nitrobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	-	-	-
Isophorone	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitrophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Naphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Naphthalene	T16	M105	0.1	mg/kg	-	**0.1**	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Chloroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Hexachlorobutadiene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Methylnaphthalene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	(62,36) <0.5	-	-	-
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	-	(62,36) <0.5	(36,62) <0.5	(36,62) <0.5
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chloronaphthalene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Dimethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Acenaphthylene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Acenaphthene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
3-Nitroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Dibenzofuran	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluorene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	-	-
Diethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluorene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Azobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	(36,62) <0.5	-	-	-
Hexachlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Pentachlorophenol	T16	M105	0.1	mg/kg	-	(36,62) <0.5	(62,36) <0.5	(36,62) <0.5
Carbazole	T207	M105	0.1	mg/kg	<0.1	-	-	-
Phenanthrene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Anthracene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Carbazole	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Di-n-butylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluoranthene	T16	M105	0.1	mg/kg	-	**0.3**	**0.2**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Chrysene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Pyrene	T16	M105	0.1	mg/kg	-	**0.4**	**0.2**	<0.1
Butyl benzylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	-	**0.3**	**0.1**	<0.1
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Chrysene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Di-n-octylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	-	**0.6**	**0.1**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	-	-	-
SVOC screen (extra peaks)	T16	M105	10	mg/kg	<10	<10	<10	<10
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Miscellaneous

				Concept Reference	**640278 012**	**640278 015**	**640278 024**
				Customer Sample Reference	**TP208**	**TP209**	**TP210**
				Bottom Depth	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Asbestos ID	T27	AR			N.D.	N.D.	N.D.

Index to symbols used in 640278-1

Value	Description
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
A40	Assisted dried < 40C
N.D.	Not Detected
110	LOD raised due to low internal standard recovery.
62	LOD was raised due to the method performance of the analytical procedure used
13	Results have been blank corrected.
36	LOD Raised due to low Matrix spike recovery
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos was subcontracted to REC Asbestos.

Method Index

Value	Description
T8	GC/FID
T921	Colorimetry (CF) (MCERT)
T16	GC/MS
T27	PLM
T6	ICP/OES
T207	GC/MS (MCERTS)
T85	Calc
T149	GC/MS (SIR)
T7	Probe
T2	Grav
T54	GC/MS (Headspace)

T162	Grav (1 Dec) (105 C)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
pH	T7	AR			M	002,010,012,015,018,024
Electrical Conductivity	T7	A40	10	µS/cm	N	002,006,010,013,016,018,020,027-028
Redox Potential	T7	A40		mV	N	002,006,010,013,016,018,020,027-028
Phenol	T207	M105	0.1	mg/kg	M	002,010,018
Phenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	002,010,018
2-Chlorophenol	T207	M105	0.1	mg/kg	M	002,010,018
2-Chlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	002,010,018
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-methyl phenol	T207	M105	0.1	mg/kg	M	002,010,018
2-methyl phenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	002,010,018
3/4-Methylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachloroethane	T207	M105	0.1	mg/kg	U	002,010,018
Hexachloroethane	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Nitrobenzene	T207	M105	0.1	mg/kg	M	002,010,018
Nitrobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Isophorone	T207	M105	0.1	mg/kg	U	002,010,018
Isophorone	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Nitrophenol	T207	M105	0.1	mg/kg	U	002,010,018
2-Nitrophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	002,010,018
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Naphthalene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloroaniline	T207	M105	0.1	mg/kg	U	002,010,018
Naphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Chloroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	002,010,018
Hexachlorobutadiene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Methylnaphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	002,010,018
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	002,010,018
2-Chloronaphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Nitroaniline	T207	M105	0.1	mg/kg	M	002,010,018
2-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	002,010,018
Dimethyl phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	002,010,018
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Acenaphthylene	T207	M105	0.1	mg/kg	U	002,010,018
Acenaphthene	T207	M105	0.1	mg/kg	M	002,010,018
Acenaphthylene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3-Nitroaniline	T207	M105	0.1	mg/kg	U	002,010,018

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Acenaphthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dibenzofuran	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	002,010,018
Dibenzofuran	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Diethyl phthalate	T207	M105	0.1	mg/kg	U	002,010,018
Fluorene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	002,010,018
Diethyl phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Nitroaniline	T207	M105	0.1	mg/kg	U	002,010,018
Fluorene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Azobenzene	T207	M105	0.1	mg/kg	M	002,010,018
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	002,010,018
4-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Azobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Pentachlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Hexachlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Phenanthrene	T207	M105	0.1	mg/kg	M	002,010,018
Anthracene	T207	M105	0.1	mg/kg	U	002,010,018
Pentachlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Carbazole	T207	M105	0.1	mg/kg	U	002,010,018
Phenanthrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	002,010,018
Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Fluoranthene	T207	M105	0.1	mg/kg	M	002,010,018
Carbazole	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	002,010,018
Di-n-butylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002,010,018
Fluoranthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Chrysene	T207	M105	0.1	mg/kg	M	002,010,018
Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	002,010,018
Butyl benzylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	002,010,018
Chrysene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-octylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002,010,018
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
SVOC screen (extra peaks)	T16	M105	10	mg/kg	N	002,006,010,013,016,018,020,027-028
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	N	013,016,020
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
Phenol	T149	AR	0.01	mg/kg	U	006,013,016,020,027-028
Cresols	T16	AR	0.01	mg/kg	U	006,013,016,020,027-028
Xylenols	T16	AR	0.01	mg/kg	U	006,013,016,020,027-028
Asbestos ID	T27	AR			SU	012,015,024
Arsenic	T6	M40	2	mg/kg	M	012,015,024
Cadmium	T6	M40	1	mg/kg	M	012,015,024
Chromium	T6	M40	1	mg/kg	M	012,015,024
Lead	T6	M40	1	mg/kg	M	012,015,024

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Mercury	T6	M40	1	mg/kg	M	012,015,024
Selenium	T6	M40	3	mg/kg	M	012,015,024
Copper	T6	M40	1	mg/kg	M	012,015,024
Nickel	T6	M40	1	mg/kg	M	012,015,024
Zinc	T6	M40	1	mg/kg	M	012,015,024
SO4(Total)	T6	A40	0.01	%	N	012,015,024
SO4(2:1)	T6	AR	0.1	g/l	N	012,015,024
Chromium VI	T6	AR	1	mg/kg	N	012,015,024
Barium	T6	A40	1	mg/kg	U	012,015,024
Beryllium	T6	A40	2	mg/kg	U	012,015,024
Boron (water-soluble)	T6	AR	1	mg/kg	N	012,015,024
Cyanide(Total)	T921	AR	1	mg/kg	M	012,015,024
Phenols(Mono)	T921	AR	1	mg/kg	M	012,015,024
Vanadium	T6	M40	1	mg/kg	M	012,015,024
pH	T7	A40			U	006,013,016,020,027-028
TPH (C11-C20)	T8	AR	1	mg/kg	U	006,013,016,020,027-028
TPH (C20-C40)	T8	AR	1	mg/kg	N	006,013,016,020,027-028
Moisture @105C	T162	AR	0.1	%	N	002,010,012,015,018,024
Retained on 10mm sieve	T2	M40	0.1	%	N	002,010,012,015,018,024

CONCEPT LIFE SCIENCES
DELIVERING SCIENCE

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Concept Life Sciences

Certificate of Analysis

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Report Number: 787603-1

Date of Report: 13-Dec-2018

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Mr Phil Hill

Customer Job Reference: 103358
Customer Purchase Order: 006004
Customer Site Reference: Scotchborn Lane
Date Job Received at Concept: 05-Dec-2018
Date Analysis Started: 05-Dec-2018
Date Analysis Completed: 12-Dec-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

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 Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Aleksandra Pacula
Senior Customer Service Advisor

Issued by :
Aleksandra Pacula
Senior Customer Service Advisor

Concept Reference: 787603
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**787603 001**	**787603 002**
				Customer Sample Reference	**TS1**	**SS1**
				Hole ID	**Plot18**	**Plot18**
				Bottom Depth	**0.20**	**0.50**
				Top Depth	**0.00**	**0.00**
				Date Sampled	**05-DEC-2018**	**05-DEC-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Moisture @105C	T162	AR	0.1	%	**25**	**25**
Retained on 10mm sieve	T2	M40	0.1	%	**78.6**	**66.0**

Concept Reference: 787603
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC Ltd 002S

				Concept Reference	**787603 001**	**787603 002**
				Customer Sample Reference	**TS1**	**SS1**
				Hole ID	**Plot18**	**Plot18**
				Bottom Depth	**0.20**	**0.50**
				Top Depth	**0.00**	**0.00**
				Date Sampled	**05-DEC-2018**	**05-DEC-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Arsenic	T6	M40	2	mg/kg	**14**	**16**
Cadmium	T6	M40	1	mg/kg	**3**	**2**
Chromium	T6	M40	1	mg/kg	**27**	**27**
Lead	T6	M40	1	mg/kg	**230**	**160**
Mercury	T6	M40	1	mg/kg	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3
Copper	T6	M40	1	mg/kg	**140**	**120**
Nickel	T6	M40	1	mg/kg	**24**	**24**
Zinc	T6	M40	1	mg/kg	**120**	**120**
pH	T7	A40			**7.7**	**7.7**
SO4(Total)	T6	A40	0.01	%	**0.05**	**0.07**
SO4(2:1)	T6	AR	0.1	g/l	<0.1	<0.1
Chromium VI	T6	A40	1	mg/kg	<1	<1
Barium	T6	A40	1	mg/kg	**110**	**140**
Beryllium	T6	A40	2	mg/kg	<2	<2
Boron (water-soluble)	T6	A40	1	mg/kg	<1	<1
Cyanide(Total)	T921	M105	1	mg/kg	<1	<1
Phenols(Mono)	T921	M105	1	mg/kg	<1	<1
Vanadium	T6	M40	1	mg/kg	**27**	**26**

Concept Reference: 787603
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil

PAH US EPA 16 (B and K split) and Phenol

				Concept Reference	**787603 001**	**787603 002**
				Customer Sample Reference	**TS1**	**SS1**
				Hole ID	**Plot18**	**Plot18**
				Bottom Depth	**0.20**	**0.50**
				Top Depth	**0.00**	**0.00**
				Date Sampled	**05-DEC-2018**	**05-DEC-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.6**	**0.4**
Anthracene	T207	M105	0.1	mg/kg	**0.2**	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**1.4**	**0.7**
Pyrene	T207	M105	0.1	mg/kg	**1.4**	**0.6**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.8**	**0.3**
Chrysene	T207	M105	0.1	mg/kg	**0.7**	**0.3**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.5**	**0.2**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.4**	**0.2**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.5**	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.3**	**0.1**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.3**	**0.2**
PAH(total)	T207	M105	0.1	mg/kg	**7.0**	**3.1**
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1

Concept Reference: 787603
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil

REC Banded TPH

				Concept Reference	**787603 001**	**787603 002**
				Customer Sample Reference	**TS1**	**SS1**
				Hole ID	**Plot18**	**Plot18**
				Bottom Depth	**0.20**	**0.50**
				Top Depth	**0.00**	**0.00**
				Date Sampled	**05-DEC-2018**	**05-DEC-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10
TPH (C35-C44)	T8	M105	1	mg/kg	<1(13)	**6(13)**
TPH (C10-C12)	T206	M105	1	mg/kg	<1(13)	<1(13)
TPH (C12-C16)	T206	M105	1	mg/kg	<1(13)	<1(13)
TPH (C16-C21)	T206	M105	1	mg/kg	**1(13)**	**6(13)**
TPH (C21-C35)	T206	M105	1	mg/kg	**1(13)**	**32(13)**

Concept Reference: 787603
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC TOC and SOM

				Concept Reference	**787603 001**	**787603 002**
				Customer Sample Reference	**TS1**	**SS1**
				Hole ID	**Plot18**	**Plot18**
				Bottom Depth	**0.20**	**0.50**
				Top Depth	**0.00**	**0.00**
				Date Sampled	**05-DEC-2018**	**05-DEC-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Soil Organic Matter	T287	A40	0.1	%	**5.5**	**4.6**
Total Organic Carbon	T21	A40	0.1	%	**3.2**	**2.6**

Concept Reference: 787603
Project Site: Scotchborn Lane
Customer Reference: 103358

Soil Analysed as Soil
Misc

				Concept Reference	**787603 001**	**787603 002**
				Customer Sample Reference	**TS1**	**SS1**
				Hole ID	**Plot18**	**Plot18**
				Bottom Depth	**0.20**	**0.50**
				Top Depth	**0.00**	**0.00**
				Date Sampled	**05-DEC-2018**	**05-DEC-2018**
				Matrix Class	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Asbestos ID	T27	A40			N.D.	N.D.

Index to symbols used in 787603-1

Value	Description
A40	Assisted dried < 40C
AR	As Received
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
13	Results have been blank corrected.
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos was subcontracted to REC Asbestos.

Method Index

Value	Description
T162	Grav (1 Dec) (105 C)
T921	Colorimetry (CF) (MCERT)
T2	Grav
T6	ICP/OES
T206	GC/FID (MCERTS)
T8	GC/FID
T7	Probe

T207	GC/MS (MCERTS)
T54	GC/MS (Headspace)
T287	Calc TOC/0.58
T27	PLM
T21	OX/IR

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Asbestos ID	T27	A40			SU	001-002
Soil Organic Matter	T287	A40	0.1	%	N	001-002
Total Organic Carbon	T21	A40	0.1	%	N	001-002
Moisture @105C	T162	AR	0.1	%	N	001-002
Retained on 10mm sieve	T2	M40	0.1	%	N	001-002
Arsenic	T6	M40	2	mg/kg	M	001-002
Cadmium	T6	M40	1	mg/kg	M	001-002
Chromium	T6	M40	1	mg/kg	M	001-002
Lead	T6	M40	1	mg/kg	M	001-002
Mercury	T6	M40	1	mg/kg	M	001-002
Selenium	T6	M40	3	mg/kg	M	001-002
Copper	T6	M40	1	mg/kg	M	001-002
Nickel	T6	M40	1	mg/kg	M	001-002
Zinc	T6	M40	1	mg/kg	M	001-002
pH	T7	A40			M	001-002
SO4(Total)	T6	A40	0.01	%	N	001-002
SO4(2:1)	T6	AR	0.1	g/l	N	001-002
Chromium VI	T6	A40	1	mg/kg	N	001-002
Barium	T6	A40	1	mg/kg	U	001-002
Beryllium	T6	A40	2	mg/kg	U	001-002
Boron (water-soluble)	T6	A40	1	mg/kg	N	001-002
Cyanide(Total)	T921	M105	1	mg/kg	M	001-002
Phenols(Mono)	T921	M105	1	mg/kg	M	001-002
Vanadium	T6	M40	1	mg/kg	M	001-002
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	001-002
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	001-002
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	001-002
TPH (C35-C44)	T8	M105	1	mg/kg	N	001-002
TPH (C10-C12)	T206	M105	1	mg/kg	M	001-002
TPH (C12-C16)	T206	M105	1	mg/kg	M	001-002
TPH (C16-C21)	T206	M105	1	mg/kg	M	001-002
TPH (C21-C35)	T206	M105	1	mg/kg	M	001-002
Naphthalene	T207	M105	0.1	mg/kg	M	001-002
Acenaphthylene	T207	M105	0.1	mg/kg	U	001-002
Acenaphthene	T207	M105	0.1	mg/kg	M	001-002
Fluorene	T207	M105	0.1	mg/kg	M	001-002
Phenanthrene	T207	M105	0.1	mg/kg	M	001-002
Anthracene	T207	M105	0.1	mg/kg	U	001-002
Fluoranthene	T207	M105	0.1	mg/kg	M	001-002
Pyrene	T207	M105	0.1	mg/kg	M	001-002
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001-002
Chrysene	T207	M105	0.1	mg/kg	M	001-002
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001-002
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001-002
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001-002
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001-002
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001-002
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001-002
PAH(total)	T207	M105	0.1	mg/kg	U	001-002
Phenol	T207	M105	0.1	mg/kg	M	001-002

Ref: 09v103358
Date: 28th February 2019

John Fenlon
Bellway Homes Limited (North West)
2 Alderman Road
Hunts Cross
Liverpool
Merseyside
L24 9LR

By email only: john.fenlon@bellway.co.uk

Dear John,

Garden Validation – Scotchbarn Lane, Knowsley – Plots 120 - 123

Background and Objectives
In accordance with the Remediation Strategy ref 103358p2r2, dated November 2017, the following remedial measures are required in all areas of the site:

Depth Requirement for Gardens

- A total clean cover system comprising a minimum thickness of 600 mm;
- A minimum topsoil thickness of 150 mm; and,
- The remainder of the clean cover system shall be comprised of subsoil.

Validation Requirement

- Independent validation of works by Geo-Environmental Consultant;
- Visual inspection and chemical laboratory validation sampling; and
- Production of validation letter reports for the clean cover system.

Required sample numbers for chemical validation are summarised in Table 1.

Table 1: Chemical Validation Testing Requirement

Source	Source of Material			
	Greenfield	Remediated	Brownfield	Unknown
Gardens	1 per 250m^3	1 per 100 m^3	1 per 50 m^3	1 per 50 m^3
Soft Landscaping	1 per 250m^3	1 per 150 m^3	1 per 150 m^3	1 per 150 m^3
Other Fill Materials	1 per 250m^3	1 per 250m^3	1 per 250m^3	1 per 250m^3

Validation Works Completed
Table 2 shows a summary of validated plots to date.

Table 2: Summary of Validated Plots

Validated Plots [w/ 600mm Cover System]	Letter Reference
7-10	01v103358
1-2, 5	02v103358
6, 34-39, 118-119	03v103358
41-43 & 117	04v103358
11 & 40	05v103358
12-13	06v103358
14-16	07v103358
17-19	08v103358
120-123	09v103358

Table 3 summarises approximate volumes of soil validated to date within the rear gardens.

Table 3: Approximate total soil volumes of rear gardens

Material	Volume (m^3)
Topsoil	2,300
Subsoil	6,900

Validation Visit - 5th February 2019
REC attended site on 5th February 2019 to confirm the correct thickness of topsoil and subsoil has been used in the rear gardens of 4 properties in Plots 120 - 123 and to collect samples for laboratory analysis.

One excavation in each rear garden was advanced by hand as shown on Figure 1 below. The depths and descriptions of each strata encountered were recorded.

REC's independent inspection shows that the required 600mm of clean cover is present within the rear gardens of Plots 120 - 123.

A visual inspection of the topsoil and subsoil at each of the four excavations confirmed it to be free of potentially deleterious or unsuitable materials discernible by the naked eye such as ceramic materials, metal objects, plastics, treated wood or textiles.

Topsoil and subsoil samples were collected and analysed for the constituents of concern noted in Table 4 (enclosed to this letter) to the correct frequency as specified in Table 1 above and have been subsequently assessed against their suitability for a residential with gardens and plant uptake end use development.

Laboratory Testing of Site Won Topsoil
REC visited site on the 17th- 19th May 2016 and 15th March 2017 to undertake intrusive ground investigations. Sampling and testing of site won topsoil as part of this work determined it suitable for use within gardens. Laboratory test certificates are attached to this report.

Laboratory Testing of Placed Topsoil
Four samples of topsoil were tested at a frequency of 1 per 50m^3 within Plots 120 and 122. Laboratory analysis confirms its suitability for use within the gardens. Laboratory test certificates are attached to this report.

Summary
REC can confirm that the topsoil and subsoil installed in the rear gardens of Plots 120 - 123 meet the specified requirements as a suitable growing medium and is suitable for its intended use.

Yours Sincerely,

For and on behalf of REC Ltd	**Approved and Authorised**
Phil Hill	**Martin Lucass**
Senior Consultant	**Associate Director**

Enclosed:
Sketch Location Plan of Validation Pits
Plot Inspection Records (including photographs and description)
Table 4: Screening Values for Materials within Residential Soft Landscaping Areas
Chemical Analysis Certificates

Figure 1: Sketch Plot Validation Pit Location

- Validated Plots during Site Visit on 5th February 2019
- Previously Validated Plots

PLOT INSPECTION RECORDS

PLOT NUMBER: 120

Developer: Bellway Homes **Date: 05/02/2019**
Pit Location: Rear Garden **Consultant: P.Hill**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
Samples taken at 0.1m and 0.4m bgl

GARDEN VALIDATION: PASS

PLOT NUMBER: 121

Developer: Bellway Homes **Date: 05/02/2019**
Pit Location: Rear Garden **Consultant: P.Hill**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
N/A

GARDEN VALIDATION: PASS

PLOT NUMBER: 122

Developer: Bellway Homes **Date: 05/02/2019**
Pit Location: Rear Garden **Consultant: P.Hill**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
Samples taken at 0.1m and 0.4m bgl

GARDEN VALIDATION: PASS

PLOT NUMBER: 123

Developer: Bellway Homes **Date: 05/02/2019**
Pit Location: Rear Garden **Consultant: P.Hill**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
N/A

GARDEN VALIDATION: PASS

SUITABILITY CRITERIA

Table 4: Validation Testing Summary

Determinand	Units	Screening Value for Use within Private Gardens	Maximum Concentration within Upper Topsoil	Maximum Concentration within Lower Topsoil	Screening Value Source
Inorganics – Metals and Asbestos					
Arsenic	mg/kg	37	14	14	(i)
Cadmium	mg/kg	11	3	3	(i)
Chromium (VI)	mg/kg	6	<1	<1	(i)
Lead	mg/kg	200	120	120	(iv)
Inorganic Mercury	mg/kg	40	<1	<1	(i)
Nickel	mg/kg	130	22	22	(i)
Selenium	mg/kg	250	<3	<3	(i)
Copper	mg/kg	2,400	130	140	(i)
Zinc	mg/kg	3,700	120	120	(i)
Cyanide	mg/kg	791	<1	<1	(v)
Asbestos	%	None Detected	N.D	N.D	N/A
Organics - PAHs					
Phenol	mg/kg	200	<0.1	<0.1	(ii)
Naphthalene	mg/kg	5.6	<0.1	<0.1	(ii)
Acenaphthylene	mg/kg	420	<0.1	<0.1	(ii)
Acenaphthene	mg/kg	510	<0.1	<0.1	(ii)
Fluorene	mg/kg	400	<0.1	<0.4	(ii)
Phenanthrene	mg/kg	220	0.3	3.7	(ii)
Anthracene	mg/kg	2,400	<0.1	<0.1	(ii)
Fluoranthene	mg/kg	280	0.6	3.8	(ii)
Pyrene	mg/kg	1200	0.6	3.2	(ii)
Benzo(a)Anthracene	mg/kg	2.7	0.2	1.4	(ii)
Chrysene	mg/kg	22	0.3	1.5	(ii)
Benzo(b)Fluoranthene	mg/kg	3.3	0.2	0.9	(ii)
Benzo(k)Fluoranthene	mg/kg	93	0.2	1.1	(ii)
Benzo(a)Pyrene	mg/kg	2.7	0.2	1.1	(ii)
Indeno(123-cd)Pyrene	mg/kg	36	<0.1	0.6	(ii)
Dibenzo(a,h)Anthracene	mg/kg	0.28	<0.1	0.2	(ii)
Benzo(ghi)Perylene	mg/kg	340	<0.1	0.6	(ii)
Organics – TPHs					
TPH C_5-C_6	mg/kg	78	<0.10	<0.10	(iii)
TPH C_6-C_8	mg/kg	230	<0.10	0.31	(iii)
TPH C_8-C_{10}	mg/kg	65	<0.10	<0.10	(iii)
TPH C_{10}-C_{12}	mg/kg	180	(13)3	(13)<1	(iii)
TPH C_{12}-C_{16}	mg/kg	330	(13)1	(13)3	(iii)
TPH C_{16}-C_{21}	mg/kg	540	(13)6	(13)4	(iii)
TPH C_{21}-C_{35}	mg/kg	1,500	(13)28	(13)17	(iii)
TPH C_{35}-C_{44}	mg/kg	1,500	(13) 8	(13))7	(iii)

Screening Value Source

(i) LQM/CIEH Suitable For Use Level (S4UL) (2015);
(ii) S4UL –Assessment Approach of 3% SOM;
(iii) S4UL –3% SOM and assumed worst case aliphatic / aromatic compound;
(iv) Defra Category 4 Screening Level (2014);
(v) CLEA v1.06 Derived Value.

(13) Results have been blank corrected.

SOIL CHEMICAL ANALYSIS

a CONCEPT LIFE SCIENCES company

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
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M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 572763-1

Date of Report: 01-Jun-2016

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Miss Sabine Sargeant

Customer Job Reference: 101754
Customer Purchase Order: 001151
Customer Site Reference: Scotchbarn Lane
Date Job Received at SAL: 18-May-2016
Date Analysis Started: 26-May-2016
Date Analysis Completed: 01-Jun-2016

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with Section 25 of the SAL Quality Manual

UKAS TESTING 1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Emma Spear
Project Manager

Issued by :
Emma Spear
Project Manager

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Bulk Product Analysed as Bulk Product
Asbestos ID

SAL Reference	**572763 004**
Customer Sample Reference	**TP102**
Bottom Depth	**0.4**
Date Sampled	**17-MAY-2016**
Type	**Fill**

Determinand	Method	Test Sample	LOD	Units	
Asbestos	T27	AR			Chrysotile Fibres Detected

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
Customer Sample Reference					**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
Bottom Depth					**1**	**0.4**	**0.2**	**0.7**	**0.2**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**11**	**7.2**	**7.4**	**7.4**	**18**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 008**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
Customer Sample Reference					**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
Bottom Depth					**2**	**2**	**0.5**	**2.1**	**0.5**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**7.3**	**11**	**18**	**18**	**9.7**
Retained on 10mm sieve	T2	M40	0.1	%	-	-	<0.1	<0.1	<0.1

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Soil Analysed as Soil
MCERTS Preparation

SAL Reference					**572763 015**	**572763 016**	**572763 017**	**572763 018**	**572763 019**
Customer Sample Reference					**TP108**	**TP109**	**TP110**	**TP111**	**TP112**
Bottom Depth					**0.1**	**0.5**	**0.4**	**0.3**	**0.1**
Date Sampled					**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
Type					**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**8.2**	**14**	**18**	**18**	**35**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

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Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 020**	**572763 022**	**572763 023**	**572763 025**	**572763 028**
				Customer Sample Reference	**TP112**	**TP113**	**TP113**	**WS102**	**WS104**
				Bottom Depth	**0.9**	**0.5**	**1.4**	**0.2**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**18**	**17**	**12**	**5.8**	**19**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

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Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 029**	**572763 031**	**572763 032**	**572763 033**	**572763 035**
				Customer Sample Reference	**WS105**	**WS108**	**WS108**	**WS109**	**WS110**
				Bottom Depth	**0.1**	**0.2**	**0.5**	**0.3**	**1.2**
				Date Sampled	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**25**	**23**	**16**	**15**	**26**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

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Project Site: Scotchbarn Lane
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Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**572763 039**
				Customer Sample Reference	**WS113**
				Bottom Depth	**0.7**
				Date Sampled	**19-MAY-2016**
				Type	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Moisture @105C	T162	AR	0.1	%	**5.2**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1

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				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**8**	**25**	**17**	**5**	**18**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	**2**
Chromium	T6	M40	1	mg/kg	**30**	**18**	**26**	**20**	**20**
Lead	T6	M40	1	mg/kg	**11**	**110**	**32**	**5**	**66**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**17**	**70**	**69**	**7**	**81**
Nickel	T6	M40	1	mg/kg	**26**	**28**	**34**	**17**	**19**
Zinc	T6	M40	1	mg/kg	**48**	**190**	**120**	**23**	**98**
pH	T7	AR			**5.8**	**7.1**	**8.2**	**7.5**	**5.9**
SO4(Total)	T6	M40	0.01	%	**0.02**	**0.30**	**0.07**	**0.01**	**0.07**
SO4(2:1)	T6	AR	100	mg/l	<100	**310**	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**3**	**2**	**2**	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**36**	**37**	**41**	**24**	**32**
Barium	T6	M40	1	mg/kg	**100**	**150**	**160**	**26**	**98**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	**1**

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				SAL Reference	**572763 011**	**572763 012**	**572763 013**	**572763 015**	**572763 016**
				Customer Sample Reference	**TP106**	**TP106**	**TP107**	**TP108**	**TP109**
				Bottom Depth	**0.5**	**2.1**	**0.5**	**0.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**18**	**4**	**16**	**13**	**13**
Cadmium	T6	M40	1	mg/kg	**3**	<1	**2**	<1	**2**
Chromium	T6	M40	1	mg/kg	**23**	**17**	**23**	**28**	**22**
Lead	T6	M40	1	mg/kg	**120**	**7**	**190**	**150**	**100**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**130**	**12**	**48**	**61**	**84**
Nickel	T6	M40	1	mg/kg	**20**	**16**	**18**	**21**	**18**
Zinc	T6	M40	1	mg/kg	**140**	**24**	**270**	**170**	**130**
pH	T7	AR			**6.9**	**6.7**	**6.9**	**7.4**	**7.4**
SO4(Total)	T6	M40	0.01	%	**0.07**	<0.01	**0.88**	**0.08**	**0.15**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**650**	**130**	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**2**	<2	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**36**	**20**	**36**	**30**	**31**
Barium	T6	M40	1	mg/kg	**97**	**35**	**280**	**150**	**150**
Cyanide(Total)	T546	AR	1	mg/kg	**1**	<1	**1**	**1**	<1

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				SAL Reference	**572763 017**	**572763 018**	**572763 019**	**572763 020**	**572763 022**
				Customer Sample Reference	**TP110**	**TP111**	**TP112**	**TP112**	**TP113**
				Bottom Depth	**0.4**	**0.3**	**0.1**	**0.9**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**10**	**18**	**12**	**21**	**10**
Cadmium	T6	M40	1	mg/kg	<1	**3**	**4**	**4**	<1
Chromium	T6	M40	1	mg/kg	**14**	**35**	**19**	**21**	**52**
Lead	T6	M40	1	mg/kg	**92**	**140**	**100**	**110**	**12**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**42**	**150**	**170**	**130**	**17**
Nickel	T6	M40	1	mg/kg	**16**	**28**	**16**	**15**	**29**
Zinc	T6	M40	1	mg/kg	**170**	**160**	**120**	**110**	**47**
pH	T7	AR			**7.7**	**7.0**	**5.3**	**4.6**	**5.8**
SO4(Total)	T6	M40	0.01	%	**0.04**	**0.07**	**0.11**	**0.09**	**0.02**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	<2	**2**	<2	<2	**3**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	**3**	<1	<1
Vanadium	T6	M40	1	mg/kg	**25**	**39**	**27**	**28**	**55**
Barium	T6	M40	1	mg/kg	**100**	**160**	**93**	**98**	**78**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1

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				SAL Reference	**572763 023**	**572763 025**	**572763 028**	**572763 029**	**572763 031**
				Customer Sample Reference	**TP113**	**WS102**	**WS104**	**WS105**	**WS108**
				Bottom Depth	**1.4**	**0.2**	**0.2**	**0.1**	**0.2**
				Date Sampled	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T6	M40	2	mg/kg	**10**	**18**	**19**	**18**	**15**
Cadmium	T6	M40	1	mg/kg	<1	<1	**3**	**4**	**4**
Chromium	T6	M40	1	mg/kg	**33**	**16**	**20**	**25**	**23**
Lead	T6	M40	1	mg/kg	**16**	**65**	**130**	**120**	**110**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**15**	**21**	**160**	**180**	**180**
Nickel	T6	M40	1	mg/kg	**37**	**16**	**20**	**21**	**20**
Zinc	T6	M40	1	mg/kg	**38**	**86**	**140**	**150**	**130**
pH	T7	AR			**6.6**	**10.7**	**6.5**	**6.4**	**6.3**
SO4(Total)	T6	M40	0.01	%	**0.01**	**0.61**	**0.09**	**0.09**	**0.09**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	**2**	<2	**2**	**2**	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	**1**	**2**	**1**
Vanadium	T6	M40	1	mg/kg	**41**	**25**	**30**	**34**	**32**
Barium	T6	M40	1	mg/kg	**100**	**110**	**110**	**110**	**100**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1

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				SAL Reference	**572763 032**	**572763 033**	**572763 035**	**572763 039**
				Customer Sample Reference	**WS108**	**WS109**	**WS110**	**WS113**
				Bottom Depth	**0.5**	**0.3**	**1.2**	**0.7**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Arsenic	T6	M40	2	mg/kg	**15**	**21**	**21**	**5**
Cadmium	T6	M40	1	mg/kg	**2**	**2**	**3**	<1
Chromium	T6	M40	1	mg/kg	**21**	**27**	**19**	**33**
Lead	T6	M40	1	mg/kg	**110**	**170**	**190**	**33**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**93**	**120**	**250**	**44**
Nickel	T6	M40	1	mg/kg	**19**	**42**	**23**	**24**
Zinc	T6	M40	1	mg/kg	**110**	**170**	**450**	**120**
pH	T7	AR			**6.4**	**6.4**	**6.7**	**7.8**
SO4(Total)	T6	M40	0.01	%	**0.06**	**0.11**	**0.18**	**0.03**
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**170**	<100
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1
Beryllium	T6	M40	2	mg/kg	<2	**3**	**2**	**2**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**34**	**52**	**32**	**46**
Barium	T6	M40	1	mg/kg	**87**	**210**	**170**	**86**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1

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Soil Analysed as Soil
PAH US EPA 16 (B and K split)

				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.2**	<0.1	**0.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.4**	**0.6**	<0.1	**0.4**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.3**	**0.9**	<0.1	**0.4**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.3**	<0.1	**0.2**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.5**	<0.1	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.6**	<0.1	**0.3**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.4**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.7**	**0.4**	<0.1	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.4**	<0.1	**0.1**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**8.3**	**3.9**	<0.1	**2.0**

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Soil Analysed as Soil
PAH US EPA 16 (B and K split)

				SAL Reference	**572763 011**	**572763 012**	**572763 013**	**572763 015**	**572763 016**
				Customer Sample Reference	**TP106**	**TP106**	**TP107**	**TP108**	**TP109**
				Bottom Depth	**0.5**	**2.1**	**0.5**	**0.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**0.1**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**0.1**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.0**	**1.7**	**1.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	**0.5**	**0.3**
Fluoranthene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**2.2**	**3.3**	**2.0**
Pyrene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**2.0**	**3.3**	**2.0**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.0**	**2.3**	**1.1**
Chrysene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.2**	**2.6**	**1.3**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.4**	**3.3**	**1.4**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.4**	**0.5**	**0.3**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.0**	**2.2**	**1.0**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.6**	**1.2**	**0.5**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.3**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.8**	**1.5**	**0.6**
PAH(total)	T207	M105	0.1	mg/kg	**2.6**	<0.1	**12**	**23**	**12**

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Soil Analysed as Soil
PAH US EPA 16 (B and K split)

				SAL Reference	**572763 017**	**572763 018**	**572763 019**	**572763 020**	**572763 022**
				Customer Sample Reference	**TP110**	**TP111**	**TP112**	**TP112**	**TP113**
				Bottom Depth	**0.4**	**0.3**	**0.1**	**0.9**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.6**	**0.2**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**1.7**	**0.5**	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**1.7**	**0.5**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.9**	**0.2**	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**1.0**	**0.3**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**1.2**	**0.3**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.2**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.8**	**0.2**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.5**	**0.1**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.3**	**0.6**	**0.1**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**5.1**	**9.4**	**2.5**	<0.1

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 023**	**572763 025**	**572763 028**	**572763 029**	**572763 031**
				Customer Sample Reference	**TP113**	**WS102**	**WS104**	**WS105**	**WS108**
				Bottom Depth	**1.4**	**0.2**	**0.2**	**0.1**	**0.2**
				Date Sampled	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**
				Type	**Clay**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.7**	**0.2**	**0.3**	**0.2**
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.7**	**0.6**	**0.6**	**0.5**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.6**	**0.6**	**0.6**	**0.5**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**1.0**	**0.3**	**0.3**	**0.2**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.9**	**0.3**	**0.3**	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.2**	**0.5**	**0.5**	**0.3**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.8**	**0.3**	**0.3**	**0.2**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.2**	**0.2**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.2**	**0.2**	**0.2**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**9.5**	**3.3**	**3.4**	**2.3**

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PAH US EPA 16 (B and K split)

				SAL Reference	**572763 032**	**572763 033**	**572763 035**	**572763 039**
				Customer Sample Reference	**WS108**	**WS109**	**WS110**	**WS113**
				Bottom Depth	**0.5**	**0.3**	**1.2**	**0.7**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.4**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.3**	**1.0**	**0.8**	<0.1
Pyrene	T207	M105	0.1	mg/kg	**0.3**	**0.9**	**0.7**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.1**	**0.6**	**0.4**	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.1**	**0.6**	**0.4**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.1**	**0.7**	**0.4**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.3**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.3**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.2**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**0.9**	**6.5**	**3.9**	<0.1

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				SAL Reference	**572763 001**	**572763 003**	**572763 005**	**572763 006**	**572763 007**
				Customer Sample Reference	**TP101**	**TP102**	**TP103**	**TP103**	**TP104**
				Bottom Depth	**1**	**0.4**	**0.2**	**0.7**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	**(13) 2**	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	**(13) 6**	**(13) 2**	(13) <1	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1	**(13) 10**	**(13) 13**	(13) <1	**(13) 2**
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1	**(13) 36**	**(13) 150**	(13) <1	**(13) 7**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	**(13) 20**	**(13) 77**	**(13) 2**	(13) <1

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				SAL Reference	**572763 008**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	**0.84**	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13,9) <10
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(9,13) <10
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1	(13) <1	**(13) 1**	(13) <1	(9,13) <10
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1	(13) <1	**(13) 10**	(13) <1	**(13) 11**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	**(13) 10**

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				SAL Reference	**572763 015**	**572763 016**	**572763 017**	**572763 018**	**572763 019**
				Customer Sample Reference	**TP108**	**TP109**	**TP110**	**TP111**	**TP112**
				Bottom Depth	**0.1**	**0.5**	**0.4**	**0.3**	**0.1**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	**(13) 3**	**(13) 2**	(13) <1	(13) <1	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 35**	**(13) 18**	(13) <1	**(13) 3**	**(13) 3**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 340**	**(13) 73**	(13) <1	**(13) 15**	**(13) 14**
TPH (C35-C44)	T8	M105	1	mg/kg	**(13) 120**	**(13) 23**	(13) <1	(13) <1	**(13) 1**

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				SAL Reference	**572763 020**	**572763 022**	**572763 023**	**572763 025**	**572763 028**
				Customer Sample Reference	**TP112**	**TP113**	**TP113**	**WS102**	**WS104**
				Bottom Depth	**0.9**	**0.5**	**1.4**	**0.2**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**	**18-MAY-2016**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 6**	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 1**	(13) <1	(13) <1	**(13) 33**	**(13) 1**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 9**	(13) <1	(13) <1	**(13) 180**	**(13) 11**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 65**	(13) <1

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				SAL Reference	**572763 029**	**572763 031**	**572763 032**	**572763 033**	**572763 035**
				Customer Sample Reference	**WS105**	**WS108**	**WS108**	**WS109**	**WS110**
				Bottom Depth	**0.1**	**0.2**	**0.5**	**0.3**	**1.2**
				Date Sampled	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 3**	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	**(13) 3**	(13) <1	(13) <1	**(13) 9**	**(13) 5**
TPH (C21-C35)	T206	M105	1	mg/kg	**(13) 12**	**(13) 6**	**(13) 7**	**(13) 17**	**(13) 14**
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1	(13) <1	(13) <1	**(13) 1**	**(13) 1**

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REC Banded TPH

				SAL Reference	**572763 039**
				Customer Sample Reference	**WS113**
				Bottom Depth	**0.7**
				Date Sampled	**19-MAY-2016**
				Type	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	(13) <1
TPH (C12-C16)	T206	M105	1	mg/kg	(13) <1
TPH (C16-C21)	T206	M105	1	mg/kg	(13) <1
TPH (C21-C35)	T206	M105	1	mg/kg	(13) <1
TPH (C35-C44)	T8	M105	1	mg/kg	(13) <1

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Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 001**	**572763 002**	**572763 003**	**572763 005**	**572763 006**
				Customer Sample Reference	**TP101**	**TP101**	**TP102**	**TP103**	**TP103**
				Bottom Depth	**1**	**2.2**	**0.4**	**0.2**	**0.7**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			-	**6.5**	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**310**	<100	<100

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Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 007**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**0.2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			-	**7.2**	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	**650**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 014**	**572763 015**	**572763 016**	**572763 017**	**572763 018**
				Customer Sample Reference	**TP107**	**TP108**	**TP109**	**TP110**	**TP111**
				Bottom Depth	**1.2**	**0.1**	**0.5**	**0.4**	**0.3**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
pH	T7	AR			**6.4**	-	-	-	-
SO4(2:1)	T6	AR	100	mg/l	<100	**130**	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 019**	**572763 020**	**572763 022**	**572763 023**	**572763 025**
				Customer Sample Reference	**TP112**	**TP112**	**TP113**	**TP113**	**WS102**
				Bottom Depth	**0.1**	**0.9**	**0.5**	**1.4**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 028**	**572763 029**	**572763 031**	**572763 032**	**572763 033**
				Customer Sample Reference	**WS104**	**WS105**	**WS108**	**WS108**	**WS109**
				Bottom Depth	**0.2**	**0.1**	**0.2**	**0.5**	**0.3**
				Date Sampled	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
pH and Sulphate

				SAL Reference	**572763 035**	**572763 039**	**572763 040**
				Customer Sample Reference	**WS110**	**WS113**	**WS113**
				Bottom Depth	**1.2**	**0.7**	**1.4**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			-	-	**7.6**
SO4(2:1)	T6	AR	100	mg/l	**170**	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 001**	**572763 002**	**572763 003**	**572763 005**	**572763 006**
				Customer Sample Reference	**TP101**	**TP101**	**TP102**	**TP103**	**TP103**
				Bottom Depth	**1**	**2.2**	**0.4**	**0.2**	**0.7**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	**310**	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 007**	**572763 009**	**572763 011**	**572763 012**	**572763 013**
				Customer Sample Reference	**TP104**	**TP105**	**TP106**	**TP106**	**TP107**
				Bottom Depth	**0.2**	**2**	**0.5**	**2.1**	**0.5**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	**650**

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 014**	**572763 015**	**572763 016**	**572763 017**	**572763 018**
				Customer Sample Reference	**TP107**	**TP108**	**TP109**	**TP110**	**TP111**
				Bottom Depth	**1.2**	**0.1**	**0.5**	**0.4**	**0.3**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Sandy Soil**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			-	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	**130**	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 019**	**572763 020**	**572763 022**	**572763 023**	**572763 025**
				Customer Sample Reference	**TP112**	**TP112**	**TP113**	**TP113**	**WS102**
				Bottom Depth	**0.1**	**0.9**	**0.5**	**1.4**	**0.2**
				Date Sampled	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**17-MAY-2016**	**18-MAY-2016**
				Type	**Topsoil**	**Sandy Soil**	**Clay**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 028**	**572763 029**	**572763 031**	**572763 032**	**572763 033**
				Customer Sample Reference	**WS104**	**WS105**	**WS108**	**WS108**	**WS109**
				Bottom Depth	**0.2**	**0.1**	**0.2**	**0.5**	**0.3**
				Date Sampled	**18-MAY-2016**	**18-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.
SO4(2:1)	T6	AR	100	mg/l	<100	<100	<100	<100	<100

SAL Reference: 572763
Project Site: Scotchbarn Lane
Customer Reference: 101754

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**572763 035**	**572763 039**	**572763 040**
				Customer Sample Reference	**WS110**	**WS113**	**WS113**
				Bottom Depth	**1.2**	**0.7**	**1.4**
				Date Sampled	**19-MAY-2016**	**19-MAY-2016**	**19-MAY-2016**
				Type	**Topsoil**	**Topsoil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Asbestos ID	T27	AR			N.D.	N.D.	-
SO4(2:1)	T6	AR	100	mg/l	**170**	<100	<100

Index to symbols used in 572763-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
13	Results have been blank corrected.
9	LOD raised due to dilution of sample
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos was sub-contracted to REC Asbestos.
"Fill" samples are outside the scope of our MCERTS accreditation. Results are UKAS only.

Method Index

Value	Description
T7	Probe
T54	GC/MS (Headspace)
T546	Colorimetry (CF)
T162	Grav (1 Dec) (105 C)
T27	PLM
T207	GC/MS (MCERTS)
T8	GC/FID
T6	ICP/OES
T206	GC/FID (MCERTS)
T2	Grav

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos	T27	AR			SU	004
Moisture @105C	T162	AR	0.1	%	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
Retained on 10mm sieve	T2	M40	0.1	%	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Arsenic	T6	M40	2	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Cadmium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Chromium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Lead	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Mercury	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Selenium	T6	M40	3	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Copper	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Nickel	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Zinc	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
pH	T7	AR			M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
SO4(Total)	T6	M40	0.01	%	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
SO4(2:1)	T6	AR	100	mg/l	N	001-003,005-007,009,011-020,022-023,025,028-029,031-033,035,039-040
Chromium VI	T6	AR	1	mg/kg	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Barium	T6	M40	1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Beryllium	T6	M40	2	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Cyanide(Total)	T546	AR	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Phenols(Mono)	T546	AR	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Vanadium	T6	M40	1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Naphthalene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Acenaphthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Fluorene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Phenanthrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Anthracene	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Chrysene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
PAH(total)	T207	M105	0.1	mg/kg	U	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C10-C12)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C12-C16)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C16-C21)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C21-C35)	T206	M105	1	mg/kg	M	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
TPH (C35-C44)	T8	M105	1	mg/kg	N	001,003,005-009,011-013,015-020,022-023,025,028-029,031-033,035,039
pH	T7	AR			U	002,009,014,040
Asbestos ID	T27	AR			SU	001,003,005-007,011-013,015-020,022-023,025,028-029,031-033,035,039

CONCEPT LIFE SCIENCES
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Certificate of Analysis

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Report Number: 640278-1

Date of Report: 22-Mar-2017

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Miss Louise Stock

Customer Job Reference: 103358
Customer Purchase Order: 002602
Customer Site Reference: Scotchbarn Lane
Date Job Received at Concept: 16-Mar-2017
Date Analysis Started: 20-Mar-2017
Date Analysis Completed: 22-Mar-2017

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.
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 Concept SOPs

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Aleksandra Pacula
Project Manager

Issued by :
Aleksandra Pacula
Project Manager

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**640278 002**	**640278 010**	**640278 012**	**640278 015**	**640278 018**
				Customer Sample Reference	**TP201**	**TP205**	**TP208**	**TP209**	**TP207**
				Bottom Depth	**1.3**	**0.9**	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @105C	T162	AR	0.1	%	**15**	**14**	**4.5**	**8.3**	**16**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**640278 024**
				Customer Sample Reference	**TP210**
				Bottom Depth	**0.9**
				Date Sampled	**15-MAR-2017**
				Type	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Moisture @105C	T162	AR	0.1	%	**9.3**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
REC 002S

				Concept Reference	**640278 012**	**640278 015**	**640278 024**
				Customer Sample Reference	**TP208**	**TP209**	**TP210**
				Bottom Depth	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Arsenic	T6	M40	2	mg/kg	**9**	**15**	**7**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**21**	**24**	**30**
Lead	T6	M40	1	mg/kg	**16**	**35**	**51**
Mercury	T6	M40	1	mg/kg	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3
Copper	T6	M40	1	mg/kg	**25**	**47**	**52**
Nickel	T6	M40	1	mg/kg	**19**	**22**	**22**
Zinc	T6	M40	1	mg/kg	**41**	**93**	**77**
pH	T7	AR			**9.1**	**9.8**	**8.2**
SO4(Total)	T6	A40	0.01	%	**0.31**	**0.69**	**0.04**
SO4(2:1)	T6	AR	0.1	g/l	**0.2**	**0.1**	<0.1
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1
Barium	T6	A40	1	mg/kg	**75**	**150**	**75**
Beryllium	T6	A40	2	mg/kg	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1
Cyanide(Total)	T921	AR	1	mg/kg	<1	<1	<1
Phenols(Mono)	T921	AR	1	mg/kg	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**24**	**33**	**32**

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 1

				Concept Reference	**640278 002**	**640278 010**	**640278 018**
				Customer Sample Reference	**TP201**	**TP205**	**TP207**
				Bottom Depth	**1.3**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			**7.8**	**6.3**	**7.9**
Electrical Conductivity	T7	A40	10	µS/cm	**1500**	**1600**	**650**
Redox Potential	T7	A40		mV	**-51**	**-38**	**-100**

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 2

				Concept Reference	**640278 013**	**640278 016**	**640278 020**
				Customer Sample Reference	**TP208**	**TP209**	**TP206**
				Bottom Depth	**0.9**	**0.9**	**0.65**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Electrical Conductivity	T7	A40	10	µS/cm	**1500**	**1400**	**1600**
pH	T7	A40			**9.9**	**10.1**	**8.3**
Redox Potential	T7	A40		mV	**-120**	**-120**	**-89**
TPH (C11-C20)	T8	AR	1	mg/kg	(13) **1**	(13) **5**	(13) **4**
TPH (C20-C40)	T8	AR	1	mg/kg	(13) **10**	(13) **63**	(13) **16**
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	<0.010	<0.010	(110) <0.020

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Partial UKWIR suite 3

				Concept Reference	**640278 006**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP203**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Electrical Conductivity	T7	A40	10	µS/cm	**1400**	**1800**	**1700**
pH	T7	A40			**7.3**	**8.0**	**8.1**
Redox Potential	T7	A40		mV	**-49**	**11**	**9**
TPH (C11-C20)	T8	AR	1	mg/kg	(13) <1	(13) <1	(13) <1
TPH (C20-C40)	T8	AR	1	mg/kg	(13) **5**	(13) **9**	(13) <1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Phenols (Speciated)

				Concept Reference	**640278 006**	**640278 013**	**640278 016**	**640278 020**	**640278 027**
				Customer Sample Reference	**TP203**	**TP208**	**TP209**	**TP206**	**TP211**
				Bottom Depth	**0.9**	**0.9**	**0.9**	**0.65**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Phenol	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Cresols	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Xylenols	T16	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Phenols (Speciated)

				Concept Reference	**640278 028**
				Customer Sample Reference	**TP211**
				Bottom Depth	**1.4**
				Date Sampled	**15-MAR-2017**
				Type	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**	
Phenol	T149	AR	0.01	mg/kg	<0.01
Cresols	T16	AR	0.01	mg/kg	<0.01
Xylenols	T16	AR	0.01	mg/kg	<0.01

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Phenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Phenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chlorophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-methyl phenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
3/4-Methylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Hexachloroethane	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Nitrobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Isophorone	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitrophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Naphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Naphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Chloroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Hexachlorobutadiene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Methylnaphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	(36,62) <0.5	-	(36,62) <0.5	-	-
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	-	(62,36) <0.5	-	(36,62) <0.5	(62,36) <0.5
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Chloronaphthalene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Dimethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Acenaphthylene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Acenaphthene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	(36) <0.5	-	-
3-Nitroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	-	(36) <0.5	(36) <0.5
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Dibenzofuran	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluorene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Diethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluorene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
4-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Azobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	(62,36) <0.5	-	(62,36) <0.5	-	-
Hexachlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Pentachlorophenol	T16	M105	0.1	mg/kg	-	(36,62) <0.5	-	(36,62) <0.5	(36,62) <0.5
Carbazole	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Phenanthrene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.6**	**0.2**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Anthracene	T16	M105	0.1	mg/kg	-	<0.1	-	**0.2**	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Carbazole	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Di-n-butylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Fluoranthene	T16	M105	0.1	mg/kg	-	**0.4**	-	**0.7**	**0.3**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Chrysene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Pyrene	T16	M105	0.1	mg/kg	-	**0.4**	-	**0.5**	**0.3**
Butyl benzylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.3**	**0.2**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Chrysene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.2**	**0.1**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Di-n-octylphthalate	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	-	**0.3**	-	**0.3**	**0.2**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.2**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	-	<0.1	-	-
SVOC screen (extra peaks)	T16	M105	10	mg/kg	<10	<10	<10	<10	<10
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	-	**0.1**	-	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	-	<0.1	-	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
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Soil Analysed as Soil

SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 002**	**640278 006**	**640278 010**	**640278 013**	**640278 016**
				Customer Sample Reference	**TP201**	**TP203**	**TP205**	**TP208**	**TP209**
				Bottom Depth	**1.3**	**0.9**	**0.9**	**0.9**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	-	**0.2**	-	**0.1**	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Phenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Phenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chlorophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-methyl phenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
3/4-Methylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	-	-	-
Hexachloroethane	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Nitrobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	-	-	-
Isophorone	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitrophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Naphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Naphthalene	T16	M105	0.1	mg/kg	-	**0.1**	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Chloroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	-	-	-
Hexachlorobutadiene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Methylnaphthalene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	(62,36) <0.5	-	-	-
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	-	(62,36) <0.5	(36,62) <0.5	(36,62) <0.5
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Chloronaphthalene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
2-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Dimethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Acenaphthylene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Acenaphthene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	(36) <0.5	-	-	-
3-Nitroaniline	T16	M105	0.1	mg/kg	-	(36) <0.5	(36) <0.5	(36) <0.5
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	-	-	-
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Dibenzofuran	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluorene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	-	-
Diethyl phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluorene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	-	-	-
4-Nitroaniline	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Azobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	(36,62) <0.5	-	-	-
Hexachlorobenzene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Pentachlorophenol	T16	M105	0.1	mg/kg	-	(36,62) <0.5	(62,36) <0.5	(36,62) <0.5
Carbazole	T207	M105	0.1	mg/kg	<0.1	-	-	-
Phenanthrene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Anthracene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Carbazole	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Di-n-butylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Fluoranthene	T16	M105	0.1	mg/kg	-	**0.3**	**0.2**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Chrysene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Pyrene	T16	M105	0.1	mg/kg	-	**0.4**	**0.2**	<0.1
Butyl benzylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	-	**0.3**	**0.1**	<0.1
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Chrysene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Di-n-octylphthalate	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	-	**0.6**	**0.1**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	-	-	-
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	-	-	-
SVOC screen (extra peaks)	T16	M105	10	mg/kg	<10	<10	<10	<10
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	-	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	-	<0.1	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
SVOC 625 + Tentatively Identified Compounds

				Concept Reference	**640278 018**	**640278 020**	**640278 027**	**640278 028**
				Customer Sample Reference	**TP207**	**TP206**	**TP211**	**TP211**
				Bottom Depth	**0.9**	**0.65**	**0.9**	**1.4**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	-	**0.3**	<0.1	<0.1

Concept Reference: 640278
Project Site: Scotchbarn Lane
Customer Reference: 103358

Soil Analysed as Soil
Miscellaneous

				Concept Reference	**640278 012**	**640278 015**	**640278 024**
				Customer Sample Reference	**TP208**	**TP209**	**TP210**
				Bottom Depth	**0.3**	**0.3**	**0.9**
				Date Sampled	**15-MAR-2017**	**15-MAR-2017**	**15-MAR-2017**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Asbestos ID	T27	AR			N.D.	N.D.	N.D.

Index to symbols used in 640278-1

Value	Description
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
A40	Assisted dried < 40C
N.D.	Not Detected
110	LOD raised due to low internal standard recovery.
62	LOD was raised due to the method performance of the analytical procedure used
13	Results have been blank corrected.
36	LOD Raised due to low Matrix spike recovery
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos was subcontracted to REC Asbestos.

Method Index

Value	Description
T8	GC/FID
T921	Colorimetry (CF) (MCERT)
T16	GC/MS
T27	PLM
T6	ICP/OES
T207	GC/MS (MCERTS)
T85	Calc
T149	GC/MS (SIR)
T7	Probe
T2	Grav
T54	GC/MS (Headspace)

T162	Grav (1 Dec) (105 C)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
pH	T7	AR			M	002,010,012,015,018,024
Electrical Conductivity	T7	A40	10	µS/cm	N	002,006,010,013,016,018,020,027-028
Redox Potential	T7	A40		mV	N	002,006,010,013,016,018,020,027-028
Phenol	T207	M105	0.1	mg/kg	M	002,010,018
Phenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethyl) ether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	002,010,018
2-Chlorophenol	T207	M105	0.1	mg/kg	M	002,010,018
2-Chlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,3-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,4-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
1,2-Dichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	002,010,018
Bis (2-chloroisopropyl) ether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-methyl phenol	T207	M105	0.1	mg/kg	M	002,010,018
2-methyl phenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	002,010,018
3/4-Methylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachloroethane	T207	M105	0.1	mg/kg	U	002,010,018
Hexachloroethane	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Nitrobenzene	T207	M105	0.1	mg/kg	M	002,010,018
Nitrobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Isophorone	T207	M105	0.1	mg/kg	U	002,010,018
Isophorone	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Nitrophenol	T207	M105	0.1	mg/kg	U	002,010,018
2-Nitrophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	002,010,018
2,4-Dimethylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Bis (2-chloroethoxy) methane	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
1,2,4-Trichlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Naphthalene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloroaniline	T207	M105	0.1	mg/kg	U	002,010,018
Naphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Chloroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	002,010,018
Hexachlorobutadiene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chloro-3-methylphenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Methylnaphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	002,010,018
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Hexachlorocyclopentadiene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
2,4,6-Trichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4,5-Trichlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	002,010,018
2-Chloronaphthalene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2-Nitroaniline	T207	M105	0.1	mg/kg	M	002,010,018
2-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	002,010,018
Dimethyl phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	002,010,018
2,6-Dinitrotoluene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Acenaphthylene	T207	M105	0.1	mg/kg	U	002,010,018
Acenaphthene	T207	M105	0.1	mg/kg	M	002,010,018
Acenaphthylene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3-Nitroaniline	T207	M105	0.1	mg/kg	U	002,010,018

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Acenaphthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
3-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dibenzofuran	T207	M105	0.1	mg/kg	M	002,010,018
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	002,010,018
Dibenzofuran	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
2,4-Dinitrotoluene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Diethyl phthalate	T207	M105	0.1	mg/kg	U	002,010,018
Fluorene	T207	M105	0.1	mg/kg	M	002,010,018
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	002,010,018
Diethyl phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Nitroaniline	T207	M105	0.1	mg/kg	U	002,010,018
Fluorene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
4-Chlorophenyl phenylether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Azobenzene	T207	M105	0.1	mg/kg	M	002,010,018
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	002,010,018
4-Nitroaniline	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Azobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	002,010,018
4-Bromophenyl phenylether	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Pentachlorophenol	T207	M105	0.1	mg/kg	U	002,010,018
Hexachlorobenzene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Phenanthrene	T207	M105	0.1	mg/kg	M	002,010,018
Anthracene	T207	M105	0.1	mg/kg	U	002,010,018
Pentachlorophenol	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Carbazole	T207	M105	0.1	mg/kg	U	002,010,018
Phenanthrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	002,010,018
Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Fluoranthene	T207	M105	0.1	mg/kg	M	002,010,018
Carbazole	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	002,010,018
Di-n-butylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002,010,018
Fluoranthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Chrysene	T207	M105	0.1	mg/kg	M	002,010,018
Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	002,010,018
Butyl benzylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	002,010,018
Chrysene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Bis (2-ethylhexyl)phthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Di-n-octylphthalate	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(b/k)Fluoranthene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002,010,018
Benzo(a)Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002,010,018
Indeno(123-cd)Pyrene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
SVOC screen (extra peaks)	T16	M105	10	mg/kg	N	002,006,010,013,016,018,020,027-028
Dibenzo(ah)Anthracene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Benzo(ghi)Perylene	T16	M105	0.1	mg/kg	U	006,013,016,020,027-028
Total Petroleum Hydrocarbons (C5 - C10 aliphatic/aromatic)	T85	AR	0.010	mg/kg	N	013,016,020
TPH (C5-C6 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C6-C7 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C6-C8 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C7-C8 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C8-C10 aliphatic)	T54	AR	0.010	mg/kg	N	013,016,020
TPH (C8-C10 aromatic)	T54	AR	0.010	mg/kg	N	013,016,020
Phenol	T149	AR	0.01	mg/kg	U	006,013,016,020,027-028
Cresols	T16	AR	0.01	mg/kg	U	006,013,016,020,027-028
Xylenols	T16	AR	0.01	mg/kg	U	006,013,016,020,027-028
Asbestos ID	T27	AR			SU	012,015,024
Arsenic	T6	M40	2	mg/kg	M	012,015,024
Cadmium	T6	M40	1	mg/kg	M	012,015,024
Chromium	T6	M40	1	mg/kg	M	012,015,024
Lead	T6	M40	1	mg/kg	M	012,015,024

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Mercury	T6	M40	1	mg/kg	M	012,015,024
Selenium	T6	M40	3	mg/kg	M	012,015,024
Copper	T6	M40	1	mg/kg	M	012,015,024
Nickel	T6	M40	1	mg/kg	M	012,015,024
Zinc	T6	M40	1	mg/kg	M	012,015,024
SO4(Total)	T6	A40	0.01	%	N	012,015,024
SO4(2:1)	T6	AR	0.1	g/l	N	012,015,024
Chromium VI	T6	AR	1	mg/kg	N	012,015,024
Barium	T6	A40	1	mg/kg	U	012,015,024
Beryllium	T6	A40	2	mg/kg	U	012,015,024
Boron (water-soluble)	T6	AR	1	mg/kg	N	012,015,024
Cyanide(Total)	T921	AR	1	mg/kg	M	012,015,024
Phenols(Mono)	T921	AR	1	mg/kg	M	012,015,024
Vanadium	T6	M40	1	mg/kg	M	012,015,024
pH	T7	A40			U	006,013,016,020,027-028
TPH (C11-C20)	T8	AR	1	mg/kg	U	006,013,016,020,027-028
TPH (C20-C40)	T8	AR	1	mg/kg	N	006,013,016,020,027-028
Moisture @105C	T162	AR	0.1	%	N	002,010,012,015,018,024
Retained on 10mm sieve	T2	M40	0.1	%	N	002,010,012,015,018,024

CONCEPT LIFE SCIENCES
DELIVERING SCIENCE

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Concept Life Sciences

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 800288-3

Date of Report: 15-Feb-2019

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Mr Phil Hill

Customer Job Reference: 103358
Customer Purchase Order: 006350
Date Job Received at Concept: 05-Feb-2019
Date Analysis Started: 06-Feb-2019
Date Analysis Completed: 11-Feb-2019

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Aleksandra Pacula
Senior Customer Service Advisor

Issued by :
Toni Morris
Customer Service Advisor

Concept Reference: 800288
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**800288 001**	**800288 002**	**800288 003**	**800288 004**
				Customer Sample Reference	**120**	**120**	**122**	**122**
				Depth	**0.10**	**0.40**	**0.10**	**0.40**
				Date Sampled	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**
				Matrix Class	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Retained on 10mm sieve	T2	M40	0.1	%	**35.9**	**46.2**	**44.8**	**60.0**
Moisture @105C	T162	AR	0.1	%	**23**	**17**	**23**	**24**

Concept Reference: 800288
Customer Reference: 103358

Soil Analysed as Soil
REC Ltd 002S

				Concept Reference	**800288 001**	**800288 002**	**800288 003**	**800288 004**
				Customer Sample Reference	**120**	**120**	**122**	**122**
				Depth	**0.10**	**0.40**	**0.10**	**0.40**
				Date Sampled	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**
				Matrix Class	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Arsenic	T6	M40	2	mg/kg	**14**	**14**	**13**	**14**
Cadmium	T6	M40	1	mg/kg	**3**	**3**	**3**	**3**
Chromium	T6	M40	1	mg/kg	**25**	**25**	**27**	**26**
Lead	T6	M40	1	mg/kg	**110**	**110**	**120**	**120**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3
Copper	T6	M40	1	mg/kg	**120**	**130**	**130**	**140**
Nickel	T6	M40	1	mg/kg	**22**	**22**	**22**	**22**
Zinc	T6	M40	1	mg/kg	**110**	**120**	**120**	**120**
pH	T7	A40			**7.8**	**7.7**	**7.8**	**7.7**
SO4(Total)	T6	A40	0.01	%	**0.07**	**0.08**	**0.07**	**0.07**
SO4(2:1)	T6	AR	0.1	g/l	<0.1	<0.1	<0.1	<0.1
Chromium VI	T6	A40	1	mg/kg	<1	<1	<1	<1
Barium	T6	A40	1	mg/kg	**110**	**110**	**110**	**120**
Beryllium	T6	A40	2	mg/kg	<2	<2	<2	<2
Boron (water-soluble)	T6	A40	1	mg/kg	<1	<1	<1	<1
Cyanide(Total)	T921	M105	1	mg/kg	<1	<1	<1	<1
Phenols(Mono)	T921	M105	1	mg/kg	<1	<1	<1	<1
Vanadium	T6	M40	1	mg/kg	**26**	**27**	**26**	**27**

Concept Reference: 800288
Customer Reference: 103358

Soil Analysed as Soil
PAH US EPA 16 (B and K split) and Phenol

				Concept Reference	**800288 001**	**800288 002**	**800288 003**	**800288 004**
				Customer Sample Reference	**120**	**120**	**122**	**122**
				Depth	**0.10**	**0.40**	**0.10**	**0.40**
				Date Sampled	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**
				Matrix Class	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	AR	0.1	mg/kg	<0.1	<0.1	<0.1	-
Acenaphthylene	T207	M105	0.1	mg/kg	-	-	-	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.5**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.4**
Phenanthrene	T207	M105	0.1	mg/kg	**0.3**	**0.1**	**0.2**	**3.7**
Anthracene	T207	AR	0.1	mg/kg	<0.1	<0.1	<0.1	-
Anthracene	T207	M105	0.1	mg/kg	-	-	-	**0.8**
Fluoranthene	T207	M105	0.1	mg/kg	**0.6**	**0.3**	**0.3**	**3.8**
Pyrene	T207	M105	0.1	mg/kg	**0.6**	**0.3**	**0.3**	**3.2**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.2**	**0.2**	**0.2**	**1.4**
Chrysene	T207	M105	0.1	mg/kg	**0.3**	**0.2**	**0.2**	**1.5**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.2**	**0.1**	<0.1	**0.9**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**0.1**	**1.1**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.2**	**0.1**	**0.1**	**1.1**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.6**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.1**	<0.1	<0.1	**0.6**
PAH(total)	T207	AR	0.1	mg/kg	**2.6**	**1.3**	**1.4**	-
PAH(total)	T207	M105	0.1	mg/kg	-	-	-	**20**
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1

Concept Reference: 800288
Customer Reference: 103358

Soil Analysed as Soil
REC Banded TPH

				Concept Reference	**800288 001**	**800288 002**	**800288 003**	**800288 004**
				Customer Sample Reference	**120**	**120**	**122**	**122**
				Depth	**0.10**	**0.40**	**0.10**	**0.40**
				Date Sampled	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**
				Matrix Class	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10
TPH (C35-C44)	T8	AR	1	mg/kg	<1(13)	**2(13)**	**8(13)**	**7(13)**
TPH (C10-C12)	T206	M105	1	mg/kg	<1(13)	**3(13)**	<1(13)	<1(13)
TPH (C12-C16)	T206	M105	1	mg/kg	**1(13)**	**3(13)**	**1(13)**	<1(13)
TPH (C16-C21)	T206	M105	1	mg/kg	**3(13)**	**4(13)**	**6(13)**	**4(13)**
TPH (C21-C35)	T206	M105	1	mg/kg	**9(13)**	**17(13)**	**28(13)**	**17(13)**

Concept Reference: 800288
Customer Reference: 103358

Soil Analysed as Soil
Misc

				Concept Reference	**800288 001**	**800288 002**	**800288 003**	**800288 004**
				Customer Sample Reference	**120**	**120**	**122**	**122**
				Depth	**0.10**	**0.40**	**0.10**	**0.40**
				Date Sampled	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**	**05-FEB-2019**
				Matrix Class	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Asbestos ID	T27	A40			N.D.	N.D.	N.D.	N.D.

Index to symbols used in 800288-3

Value	Description
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
A40	Assisted dried < 40C
AR	As Received
N.D.	Not Detected
13	Results have been blank corrected.
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos testing was subcontracted to REC Asbestos.

Method Index

Value	Description
T6	ICP/OES
T921	Colorimetry (CF) (MCERT)
T162	Grav (1 Dec) (105 C)
T8	GC/FID
T54	GC/MS (Headspace)
T7	Probe
T206	GC/FID (MCERTS)
T2	Grav
T27	PLM
T207	GC/MS (MCERTS)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Asbestos ID	T27	A40			SU	001-004
Naphthalene	T207	M105	0.1	mg/kg	M	001-004
Acenaphthylene	T207	AR	0.1	mg/kg	U	001-003
Acenaphthylene	T207	M105	0.1	mg/kg	U	004
Acenaphthene	T207	M105	0.1	mg/kg	M	001-004
Fluorene	T207	M105	0.1	mg/kg	M	001-004
Phenanthrene	T207	M105	0.1	mg/kg	M	001-004
Anthracene	T207	AR	0.1	mg/kg	U	001-003
Anthracene	T207	M105	0.1	mg/kg	U	004
Fluoranthene	T207	M105	0.1	mg/kg	M	001-004
Pyrene	T207	M105	0.1	mg/kg	M	001-004
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001-004
Chrysene	T207	M105	0.1	mg/kg	M	001-004
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001-004
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001-004
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001-004
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001-004
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001-004
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001-004
PAH(total)	T207	AR	0.1	mg/kg	U	001-003
PAH(total)	T207	M105	0.1	mg/kg	U	004
Phenol	T207	M105	0.1	mg/kg	M	001-004
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	001-004
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	001-004
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	001-004
TPH (C35-C44)	T8	AR	1	mg/kg	N	001-004
TPH (C10-C12)	T206	M105	1	mg/kg	M	001-004
TPH (C12-C16)	T206	M105	1	mg/kg	M	001-004
TPH (C16-C21)	T206	M105	1	mg/kg	M	001-004

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
TPH (C21-C35)	T206	M105	1	mg/kg	M	001-004
Retained on 10mm sieve	T2	M40	0.1	%	N	001-004
Moisture @105C	T162	AR	0.1	%	N	001-004
Arsenic	T6	M40	2	mg/kg	M	001-004
Cadmium	T6	M40	1	mg/kg	M	001-004
Chromium	T6	M40	1	mg/kg	M	001-004
Lead	T6	M40	1	mg/kg	M	001-004
Mercury	T6	M40	1	mg/kg	M	001-004
Selenium	T6	M40	3	mg/kg	M	001-004
Copper	T6	M40	1	mg/kg	M	001-004
Nickel	T6	M40	1	mg/kg	M	001-004
Zinc	T6	M40	1	mg/kg	M	001-004
pH	T7	A40			M	001-004
SO4(Total)	T6	A40	0.01	%	N	001-004
SO4(2:1)	T6	AR	0.1	g/l	N	001-004
Chromium VI	T6	A40	1	mg/kg	N	001-004
Barium	T6	A40	1	mg/kg	U	001-004
Beryllium	T6	A40	2	mg/kg	U	001-004
Boron (water-soluble)	T6	A40	1	mg/kg	N	001-004
Cyanide(Total)	T921	M105	1	mg/kg	M	001-004
Phenols(Mono)	T921	M105	1	mg/kg	M	001-004
Vanadium	T6	M40	1	mg/kg	M	001-004

Ref: 10v103358
Date: 29th April 2019

John Fenlon
Bellway Homes Limited (North West)
2 Alderman Road
Hunts Cross
Liverpool
Merseyside
L24 9LR

By email only: john.fenlon@bellway.co.uk

Dear John,

Garden Validation – Scotchbarn Lane, Knowsley – Plots 124 - 128

Background and Objectives
In accordance with the Remediation Strategy ref 103358p2r2, dated November 2017, the following remedial measures are required in all areas of the site:

Depth Requirement for Gardens

- A total clean cover system comprising a minimum thickness of 600 mm;
- A minimum topsoil thickness of 150 mm; and
- The remainder of the clean cover system shall be comprised of subsoil.

Validation Requirement

- Independent validation of works by Geo-Environmental Consultant;
- Visual inspection and chemical laboratory validation sampling; and
- Production of validation letter reports for the clean cover system.

Required sample numbers for chemical validation are summarised in Table 1.

Table 1: Chemical Validation Testing Requirement

Source	Source of Material			
	Greenfield	Remediated	Brownfield	Unknown
Gardens	1 per 250m^3	1 per 100 m^3	1 per 50 m^3	1 per 50 m^3
Soft Landscaping	1 per 250m^3	1 per 150 m^3	1 per 150 m^3	1 per 150 m^3
Other Fill Materials	1 per 250m^3	1 per 250m^3	1 per 250m^3	1 per 250m^3

Validation Works Completed
Table 2 shows a summary of validated plots to date.

Table 2: Summary of Validated Plots

Validated Plots [w/ 600mm Cover System]	Letter Reference
7-10	01v103358
1-2, 5	02v103358
6, 34-39, 118-119	03v103358
41-43 & 117	04v103358
11 & 40	05v103358
12-13	06v103358
14-16	07v103358
17-19	08v103358
120-123	09v103358
124-128	10v103358

Table 3 summarises approximate volumes of soil validated to date within the rear gardens.

Table 3: Approximate total soil volumes of rear gardens

Material	Volume (m^3)
Topsoil	2,300
Subsoil	6,900

Validation Visit - 4th April 2019
REC attended site on 4th April 2019 to confirm the correct thickness of topsoil and subsoil has been used in the rear gardens of properties in Plots 124 - 128 and to collect samples for laboratory analysis.

One excavation in each rear garden was advanced by hand as shown on Figure 1 below. The depths and descriptions of each strata encountered were recorded.

REC's independent inspection shows that the required 600mm of clean cover is present within the rear gardens of Plots 124 - 128.

A visual inspection of the topsoil and subsoil at each of the four excavations confirmed it to be free of potentially deleterious or unsuitable materials discernible by the naked eye such as ceramic materials, metal objects, plastics, treated wood or textiles.

Topsoil and subsoil samples were collected and analysed for the constituents of concern noted in Table 4 (enclosed to this letter) to the correct frequency as specified in Table 1 above and have been subsequently assessed against their suitability for a residential with gardens and plant uptake end use development.

Laboratory Testing of Site Won Topsoil
REC visited site on the 17th- 19th May 2016 and 15th March 2017 to undertake intrusive ground investigations. Sampling and testing of site won topsoil as part of this work determined it suitable for use within gardens.

Laboratory Testing of Placed Topsoil
Two samples of topsoil and two samples of subsoil were tested at a frequency of 1 per 50m^3 within Plots 124 - 128. Laboratory analysis confirms its suitability for use within the gardens. Laboratory test certificates are attached to this report.

Summary
REC can confirm that the topsoil and subsoil installed in the rear gardens of Plots 124 - 128 meet the specified requirements as a suitable growing medium and is suitable for its intended use.

Yours Sincerely,

For and on behalf of REC Ltd	**Approved and Authorised**
Matthew Dee	**Martin Lucass**
Consultant	**Associate Director**

Enclosed:
Sketch Location Plan of Validation Pits
Plot Inspection Records (including photographs and description)
Table 4: Screening Values for Materials within Residential Soft Landscaping Areas
Chemical Analysis Certificates

Figure 1: Sketch Plot Validation Pit Location

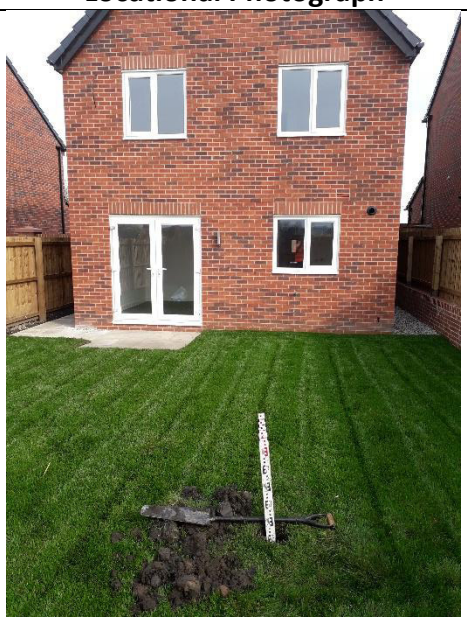
- Validated Plots during Site Visit on 4th April 2019
- Previously Validated Plots

PLOT INSPECTION RECORDS

PLOT NUMBER: 124

Developer: Bellway Homes **Date: 04/04/2019**
Pit Location: Rear Garden **Consultant: M. Dee**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph
	

Additional Comments:
N/A

GARDEN VALIDATION: PASS

PLOT NUMBER: 125

Developer: Bellway Homes **Date: 04/04/2019**
Pit Location: Rear Garden **Consultant: M. Dee**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
Samples taken at 0.2m and 0.45m bgl

GARDEN VALIDATION: PASS

PLOT NUMBER: 126

Developer: Bellway Homes **Date: 04/04/2019**
Pit Location: Rear Garden **Consultant: M. Dee**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
N/A

GARDEN VALIDATION: PASS

PLOT NUMBER: 127

Developer: Bellway Homes **Date: 04/04/2019**
Pit Location: Rear Garden **Consultant: M. Dee**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
N/A

GARDEN VALIDATION: PASS

PLOT NUMBER: 128

Developer: Bellway Homes **Date: 04/04/2019**
Pit Location: Rear Garden **Consultant: M. Dee**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
Samples taken 0.2m and 0.4m bgl

GARDEN VALIDATION: PASS

SUITABILITY CRITERIA

Table 4: Validation Testing Summary

Determinand	Units	Screening Value for Use within Private Gardens	Maximum Concentration within Upper Topsoil	Maximum Concentration within Lower Topsoil	Screening Value Source
Inorganics – Metals and Asbestos					
Arsenic	mg/kg	37	17	15	(i)
Cadmium	mg/kg	11	3	2	(i)
Chromium (VI)	mg/kg	6	<1	<1	(i)
Lead	mg/kg	200	160	120	(iv)
Inorganic Mercury	mg/kg	40	<1	<1	(i)
Nickel	mg/kg	130	26	28	(i)
Selenium	mg/kg	250	<3	<3	(i)
Copper	mg/kg	2,400	130	120	(i)
Zinc	mg/kg	3,700	140	140	(i)
Cyanide	mg/kg	791	<1	<1	(v)
Asbestos	%	None Detected	N.D	N.D	N/A
Organics - PAHs					
Phenol	mg/kg	200	<1	<1	(ii)
Naphthalene	mg/kg	5.6	0.1	<0.1	(ii)
Acenaphthylene	mg/kg	420	<0.1	<0.1	(ii)
Acenaphthene	mg/kg	510	0.3	<0.1	(ii)
Fluorene	mg/kg	400	0.2	<0.1	(ii)
Phenanthrene	mg/kg	220	1.2	<0.1	(ii)
Anthracene	mg/kg	2,400	0.3	<0.1	(ii)
Fluoranthene	mg/kg	280	1.6	0.2	(ii)
Pyrene	mg/kg	1200	1.4	0.2	(ii)
Benzo(a)Anthracene	mg/kg	2.7	0.7	<0.1	(ii)
Chrysene	mg/kg	22	0.7	<0.1	(ii)
Benzo(b)Fluoranthene	mg/kg	3.3	0.6	<0.1	(ii)
Benzo(k)Fluoranthene	mg/kg	93	0.5	<0.1	(ii)
Benzo(a)Pyrene	mg/kg	2.7	0.6	0.1	(ii)
Indeno(123-cd)Pyrene	mg/kg	36	0.3	<0.1	(ii)
Dibenzo(a,h)Anthracene	mg/kg	0.28	<0.1	<0.1	(ii)
Benzo(ghi)Perylene	mg/kg	340	0.4	<0.1	(ii)
Organics – TPHs					
TPH C_5-C_6	mg/kg	78	<0.1	<0.1	(iii)
TPH C_6-C_8	mg/kg	230	<0.1	<0.1	(iii)
TPH C_8-C_{10}	mg/kg	65	<0.1	<0.1	(iii)
TPH C_{10}-C_{12}	mg/kg	180	(13)<1	(13)<1	(iii)
TPH C_{12}-C_{16}	mg/kg	330	(13)3	(13)1	(iii)
TPH C_{16}-C_{21}	mg/kg	540	(13)13	(13)4	(iii)
TPH C_{21}-C_{35}	mg/kg	1,500	(13)40	(13)24	(iii)
TPH C_{35}-C_{44}	mg/kg	1,500	(13) 10	(13))6	(iii)

Screening Value Source

(i) LQM/CIEH Suitable For Use Level (S4UL) (2015);
(ii) S4UL –Assessment Approach of 3% SOM;
(iii) S4UL –3% SOM and assumed worst case aliphatic / aromatic compound;
(iv) Defra Category 4 Screening Level (2014);
(v) CLEA v1.06 Derived Value.

(13) Results have been blank corrected.

SOIL CHEMICAL ANALYSIS

CONCEPT LIFE SCIENCES
DELIVERING SCIENCE

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Concept Life Sciences

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 814067-2

Date of Report: 12-Apr-2019

Customer: Resource Environmental Consultants Ltd
Osprey House
Pacific Quay
Broadway
Salford
M50 2UE

Customer Contact: Mr Martin Lucass

Customer Job Reference: 103358
Customer Purchase Order: PO006614
Customer Site Reference: SCOTCHBARN LANE
Date Job Received at Concept: 04-Apr-2019
Date Analysis Started: 05-Apr-2019
Date Analysis Completed: 12-Apr-2019

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

Customers are responsible for information provided where, if incorrect, it could affect the validity of the results.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with QMSection 15 of the Concept Life Sciences, Analytical Services Quality Manual

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Toni Morris
Customer Service Advisor

Issued by :
Toni Morris
Customer Service Advisor

Concept Reference: 814067
Project Site: SCOTCHBARN LANE
Customer Reference: 103358

Soil Analysed as Soil
MCERTS Preparation

				Concept Reference	**814067 001**	**814067 002**	**814067 003**	**814067 004**
				Customer Sample Reference	**TS101**	**TS102**	**SS101**	**SS102**
				Depth	**0.2**	**0.2**	**0.45**	**0.4**
				Sample Type	**ES**	**ES**	**ES**	**ES**
				Date Sampled	**04-APR-2019**	**04-APR-2019**	**04-APR-2019**	**04-APR-2019**
				Matrix Class	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Moisture @105C	T162	AR	0.1	%	**23**	**21**	**19**	**19**
Retained on 10mm sieve	T2	M40	0.1	%	<0.1	<0.1	<0.1	<0.1

Concept Reference: 814067
Project Site: SCOTCHBARN LANE
Customer Reference: 103358

Soil Analysed as Soil
REC South Soil Suite

				Concept Reference	**814067 001**	**814067 002**	**814067 003**	**814067 004**
				Customer Sample Reference	**TS101**	**TS102**	**SS101**	**SS102**
				Depth	**0.2**	**0.2**	**0.45**	**0.4**
				Sample Type	**ES**	**ES**	**ES**	**ES**
				Date Sampled	**04-APR-2019**	**04-APR-2019**	**04-APR-2019**	**04-APR-2019**
				Matrix Class	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Antimony	T6	A40	1	mg/kg	**3**	**3**	**3**	**2**
Arsenic	T6	M40	2	mg/kg	**15**	**17**	**15**	**10**
Barium	T6	A40	1	mg/kg	**130**	**150**	**160**	**110**
Beryllium	T6	A40	2	mg/kg	<2	<2	<2	<2
Boron (water-soluble)	T6	A40	1	mg/kg	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	**3**	**3**	**2**	<1
Chromium	T6	M40	1	mg/kg	**31**	**28**	**31**	**30**
Copper	T6	M40	1	mg/kg	**130**	**130**	**120**	**43**
Lead	T6	M40	1	mg/kg	**130**	**160**	**120**	**36**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**24**	**26**	**27**	**28**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3
Vanadium	T6	M40	1	mg/kg	**29**	**32**	**33**	**31**
Zinc	T6	M40	1	mg/kg	**140**	**140**	**140**	**63**
Asbestos ID	T27	A40			N.D.	N.D.	N.D.	N.D.
Chromium VI	T6	A40	1	mg/kg	<1	<1	<1	<1
pH	T7	A40			**7.8**	**7.8**	**7.7**	**8.0**
Soil Organic Matter	T287	A40	0.1	%	**5.0**	**5.9**	**4.7**	**1.9**
(Water Soluble) SO4 expressed as SO4	T242	A40	0.05	g/l	**0.06**	**0.13**	**0.37**	**0.13**
SO4(Total)	T102	A40	0.01	%	**0.08**	**0.10**	**0.14**	**0.06**
Cyanide(Total)	T921	M105	1	mg/kg	<1	<1	<1	<1
Phenols(Mono)	T921	M105	1	mg/kg	<1	<1	<1	<1
Moisture @40C	T277	AR	0.1	%	**21**	**19**	**13**	**18**

Concept Reference: 814067
Project Site: SCOTCHBARN LANE
Customer Reference: 103358

Soil Analysed as Soil
TPH C5-C40 Banded

				Concept Reference	**814067 001**	**814067 002**	**814067 003**	**814067 004**
				Customer Sample Reference	**TS101**	**TS102**	**SS101**	**SS102**
				Depth	**0.2**	**0.2**	**0.45**	**0.4**
				Sample Type	**ES**	**ES**	**ES**	**ES**
				Date Sampled	**04-APR-2019**	**04-APR-2019**	**04-APR-2019**	**04-APR-2019**
				Matrix Class	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12)	T206	M105	1	mg/kg	<1(13)	<1(13)	<1(13)	<1(13)
TPH (C12-C16)	T206	M105	1	mg/kg	**3(13)**	**1(13)**	**1(13)**	**1(13)**
TPH (C16-C21)	T206	M105	1	mg/kg	**13(13)**	**5(13)**	**4(13)**	**2(13)**
TPH (C21-C35)	T206	M105	1	mg/kg	**40(13)**	**26(13)**	**24(13)**	**15(13)**
TPH (C35-C40)	T8	M105	1	mg/kg	**10(13)**	**4(13)**	**6(13)**	**6(13)**
TPH C5-C40 (sum)	T85	M105	10	mg/kg	**66(13)**	**36(13)**	**35(13)**	**24(13)**

Concept Reference: 814067
Project Site: SCOTCHBARN LANE
Customer Reference: 103358

Soil Analysed as Soil
Total and Speciated USEPA16 PAH

				Concept Reference	**814067 001**	**814067 002**	**814067 003**	**814067 004**
				Customer Sample Reference	**TS101**	**TS102**	**SS101**	**SS102**
				Depth	**0.2**	**0.2**	**0.45**	**0.4**
				Sample Type	**ES**	**ES**	**ES**	**ES**
				Date Sampled	**04-APR-2019**	**04-APR-2019**	**04-APR-2019**	**04-APR-2019**
				Matrix Class	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Naphthalene	T207	M105	0.1	mg/kg	**0.1**	<1.0(9)	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<1.0(9)	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	**0.3**	<1.0(9)	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	**0.2**	<1.0(9)	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**1.2**	<1.0(9)	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**0.3**	<1.0(9)	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**1.6**	<1.0(9)	**0.2**	<0.1
Pyrene	T207	M105	0.1	mg/kg	**1.4**	<1.0(9)	**0.2**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.7**	<1.0(9)	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.7**	<1.0(9)	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.6**	<1.0(9)	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.5**	<1.0(9)	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.6**	<1.0(9)	**0.1**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.3**	<1.0(9)	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<1.0(9)	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.4**	<1.0(9)	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**9.0**	<1.0(9)	**0.6**	<0.1

Index to symbols used in 814067-2

Value	Description
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
A40	Assisted dried < 40C
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
N.D.	Not Detected

13	Results have been blank corrected.
9	LOD raised due to dilution of sample
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos testing was subcontracted to REC Asbestos.

Method Index

Value	Description
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T85	Calc
T206	GC/FID (MCERTS)
T277	Grav (1 Dec) (40 C)
T102	ICP/OES (HCl extract)
T27	PLM
T162	Grav (1 Dec) (105 C)
T207	GC/MS (MCERTS)
T6	ICP/OES
T287	Calc TOC/0.58
T7	Probe
T54	GC/MS (Headspace)
T8	GC/FID
T2	Grav
T921	Colorimetry (CF) (MCERT)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Moisture @105C	T162	AR	0.1	%	N	001-004
Retained on 10mm sieve	T2	M40	0.1	%	N	001-004
Antimony	T6	A40	1	mg/kg	U	001-004
Arsenic	T6	M40	2	mg/kg	M	001-004
Barium	T6	A40	1	mg/kg	U	001-004
Beryllium	T6	A40	2	mg/kg	U	001-004
Boron (water-soluble)	T6	A40	1	mg/kg	N	001-004
Cadmium	T6	M40	1	mg/kg	M	001-004
Chromium	T6	M40	1	mg/kg	M	001-004
Copper	T6	M40	1	mg/kg	M	001-004
Lead	T6	M40	1	mg/kg	M	001-004
Mercury	T6	M40	1	mg/kg	M	001-004
Nickel	T6	M40	1	mg/kg	M	001-004
Selenium	T6	M40	3	mg/kg	M	001-004
Vanadium	T6	M40	1	mg/kg	M	001-004
Zinc	T6	M40	1	mg/kg	M	001-004
Asbestos ID	T27	A40			SU	001-004
Chromium VI	T6	A40	1	mg/kg	N	001-004
pH	T7	A40			M	001-004
Soil Organic Matter	T287	A40	0.1	%	N	001-004
(Water Soluble) SO4 expressed as SO4	T242	A40	0.05	g/l	M	001-004
SO4(Total)	T102	A40	0.01	%	M	001-004
Cyanide(Total)	T921	M105	1	mg/kg	M	001-004
Phenols(Mono)	T921	M105	1	mg/kg	M	001-004
Moisture @40C	T277	AR	0.1	%	N	001-004
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	001-004
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	001-004
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	001-004
TPH (C10-C12)	T206	M105	1	mg/kg	M	001-004
TPH (C12-C16)	T206	M105	1	mg/kg	M	001-004
TPH (C16-C21)	T206	M105	1	mg/kg	M	001-004
TPH (C21-C35)	T206	M105	1	mg/kg	M	001-004
TPH (C35-C40)	T8	M105	1	mg/kg	N	001-004
TPH C5-C40 (sum)	T85	M105	10	mg/kg	N	001-004
Naphthalene	T207	M105	0.1	mg/kg	M	001-004

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Acenaphthylene	T207	M105	0.1	mg/kg	U	001-004
Acenaphthene	T207	M105	0.1	mg/kg	M	001-004
Fluorene	T207	M105	0.1	mg/kg	M	001-004
Phenanthrene	T207	M105	0.1	mg/kg	M	001-004
Anthracene	T207	M105	0.1	mg/kg	U	001-004
Fluoranthene	T207	M105	0.1	mg/kg	M	001-004
Pyrene	T207	M105	0.1	mg/kg	M	001-004
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001-004
Chrysene	T207	M105	0.1	mg/kg	M	001-004
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001-004
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001-004
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001-004
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001-004
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001-004
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001-004
PAH(total)	T207	M105	0.1	mg/kg	U	001-004

Ref: 12v103358
Date: 24th June 2019

John Fenlon
Bellway Homes Limited (North West)
2 Alderman Road
Hunts Cross
Liverpool
Merseyside
L24 9LR

By email only: john.fenlon@bellway.co.uk

Dear John,

Garden Validation – Scotchbarn Lane, Knowsley – Plots 27, 31-33

Background and Objectives
In accordance with the Remediation Strategy ref 103358p2r2, dated November 2017, the following remedial measures are required in all areas of the site:

Depth Requirement for Gardens

- A total clean cover system comprising a minimum thickness of 600 mm;
- A minimum topsoil thickness of 150 mm; and,
- The remainder of the clean cover system shall be comprised of subsoil.

Validation Requirement

- Independent validation of works by Geo-Environmental Consultant;
- Visual inspection and chemical laboratory validation sampling; and
- Production of validation letter reports for the clean cover system.

Required sample numbers for chemical validation are summarised in Table 1.

Table 1: Chemical Validation Testing Requirement

Source	Source of Material			
	Greenfield	Remediated	Brownfield	Unknown
Gardens	1 per 250m^3	1 per 100 m^3	1 per 50 m^3	1 per 50 m^3
Soft Landscaping	1 per 250m^3	1 per 150 m^3	1 per 150 m^3	1 per 150 m^3
Other Fill Materials	1 per 250m^3	1 per 250m^3	1 per 250m^3	1 per 250m^3

Validation Works Completed
Table 2 shows a summary of validated plots to date.

Table 2: Summary of Validated Plots

Validated Plots [w/ 600mm Cover System]	Letter Reference
7-10	01v103358
1-2, 5	02v103358
6, 34-39, 118-119	03v103358
41-43 & 117	04v103358
11 & 40	05v103358
12-13	06v103358
14-16	07v103358
17-19	08v103358
120-123	09v103358
124-128	10v103358
20 – 26	11V103358
27, 31-33	12V103358

Table 3 summarises approximate volumes of soil validated to date within the rear gardens.

Table 3: Approximate total soil volumes of rear gardens

Material	Volume (m^3)
Topsoil	2,300
Subsoil	6,900

Validation Visit - 10th June 2019
REC attended site on 10th June 2019 to confirm the correct thickness of topsoil and subsoil has been used in the rear gardens of properties in Plots 27, 31-33 and to collect samples for laboratory analysis.

One excavation in each rear garden was advanced by hand as shown on Figure 1 below. The depths and descriptions of each strata encountered were recorded.

REC's independent inspection shows that the required 600mm of clean cover is present within the rear gardens of Plots 27, 31 - 33.

A visual inspection of the topsoil and subsoil at each of the four excavations confirmed it to be free of potentially deleterious or unsuitable materials discernible by the naked eye such as ceramic materials, metal objects, plastics, treated wood or textiles.

Topsoil and subsoil samples were collected and analysed for the constituents of concern noted in Table 4 (enclosed to this letter) to the correct frequency as specified in Table 1 above and have been subsequently assessed against their suitability for a residential with gardens and plant uptake end use development.

Laboratory Testing of Site Won Topsoil
REC visited site on the 17th- 19th May 2016 and 15th March 2017 to undertake intrusive ground investigations. Sampling and testing of site won topsoil as part of this work determined it suitable for use within gardens. Laboratory test certificates are attached to this report.

Laboratory Testing of Placed Topsoil
Three samples of topsoil and three samples of subsoil were tested at a frequency of 1 per 50m^3 within Plots 27, 31 - 33. Laboratory analysis confirms its suitability for use within the gardens. Laboratory test certificates are attached to this report.

Summary
REC can confirm that the topsoil and subsoil installed in the rear gardens of Plots 27, 31 - 33 meet the specified requirements as a suitable growing medium and is suitable for its intended use.

Yours Sincerely,

For and on behalf of REC Ltd	**Approved and Authorised**
Matthew Dee	**Martin Lucass**
Consultant	**Associate Director**

Enclosed:
Sketch Location Plan of Validation Pits
Plot Inspection Records (including photographs and description)
Table 4: Screening Values for Materials within Residential Soft Landscaping Areas
Chemical Analysis Certificates

Figure 1: Sketch Plot Validation Pit Location

- Validated Plots during Site Visit on 10th June 2019
- Previously Validated Plots

PLOT INSPECTION RECORDS

PLOT NUMBER: 27

Developer: Bellway Homes **Date: 10/06/2019**
Pit Location: Rear Garden **Consultant: M. Dee**

Capping Requirements	Total Depth	Capping Observed	Total Depth
Topsoil	> 150 mm bgl	Topsoil	600 mm bgl
Subsoil	> 450mm bgl	Subsoil	N/A
Break Layer	N/A	Break Layer	N /A
TOTAL DEPTH	> 600mm bgl	TOTAL DEPTH	600 mm bgl

Validation Photograph	Locational Photograph

Additional Comments:
N/A

GARDEN VALIDATION: PASS