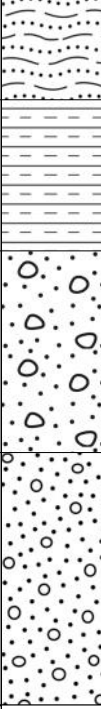


Gr Elevation: 153.4 mDatum
TOC Elevation: mDatum
Coordinates: :

Remarks: 1: Stable sides 2: No groundwater 3: No HC odours		4: Elevation from Topo 5: 6:		Key: D = Disturbed Sample U = Undisturbed Sample B = Bulk Sample W = Water Sample VOC = PID Volatiles N Value = Stan Pen Test SWL = Standing Water Level PP = Pocket Penetrometer		Driller: PESL Logged: C Dainton Drawn: C Dainton		Checked: C Dainton Approved: CF Dainton Scale: 1:15	
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 PEAK ENVIRONMENTAL SOLUTIONS info@peakenvironmentalsolutions.com www.peakenvironmentalsolutions.com					Peak Environmental Solutions Limited Beechfield Ninelands Road Hathersage Derbyshire S32 1BJ Tel: 01433 659071		Project No 41817		TP-103 Page 1 of 1		
Client: Treville Properties Project: 10-12 Bridgemont Location: Whaley Bridge					Date: 18 Oct 2016 Contractor: Client Method: Volvo EC15B Midi		Depth: 1.8 mbgl Length: 1.8 m Width: 0.6 m		Gr Elevation: 153.5 mDatum TOC Elevation: mDatum Coordinates: :		
Depth (mbgl)	Elevation (m)	Samples	Tests/VOCs	SPT N Values	Soil or Rock Field Material Description				Depth (mbgl)	Well Details & Groundwater Levels	
0.0	153.5	D1			Soft dark brown sandy gravelly clayey TOPSOIL/MADE GROUND. At southern end with some metal, brick gravel, jars/pottery.				0		
0.5	153.0	D1							0.3		
		PPkg/cm2	<0.5 - 0.5		Very soft to soft brown sandy slightly gravelly CLAY.						
1.0	152.5										
1.5	152.0	PPkg/cm2	0.5 - 1.5		Soft to firm light-brown/buff slightly mottled orange brown sandy slightly gravelly CLAY with rare cobble.				1.4		
					Base of Trial Pit.				1.8		
2.0	151.5										
2.5	151.0										
3.0	150.5										
Remarks: 1: Stable sides 2: No groundwater 3: No HC odours					Key: D = Disturbed Sample U = Undisturbed Sample B = Bulk Sample		W = Water Sample VOC = PID Volatiles N Value = Stan Pen Test SWL = Standing Water Level PP = Pocket Penetrometer		Driller: PESL Logged: C Dainton Drawn: C Dainton		
4: Elevation from Topo 5: 6:									Checked: C Dainton Approved: CF Dainton Scale: 1:15		

 PEAK ENVIRONMENTAL SOLUTIONS info@peakenvironmentalsolutions.com www.peakenvironmentalsolutions.com			Peak Environmental Solutions Limited Beechfield Ninelands Road Hathersage Derbyshire S32 1BJ Tel: 01433 659071			Project No 41817			TP-104 Page 1 of 1															
Client: Treville Properties Project: 10-12 Bridgemont Location: Whaley Bridge			Date: 18 Oct 2016 Contractor: Client Method: Volvo EC15B Midi			Depth: 0.9 mbgl Length: 1.6 m Width: 0.6 m			Gr Elevation: 149.7 mDatum TOC Elevation: mDatum Coordinates: :															
Depth (mbgl)	Elevation (m)	Samples	Tests/VOCs	SPT N Values	Soil or Rock Field Material Description			Depth (mbgl)	Well Details & Groundwater Levels															
0.0					Firm dark brown sandy slightly gravelly clayey TOPSOIL.			0																
149.5		PPkg/cm2	0.5 - 1.0		Soft brown very sandy slightly gravelly CLAY.			0.25																
0.5		D1						0.5																
149.0		PPkg/cm2	1.0 - 2.5		Soft to firm becoming stiff dark brown slightly mottled black sandy slightly gravelly CLAY with rare cobble.																			
					Base of Trial Pit.			0.9																
1.0																								
148.5																								
1.5																								
148.0																								
2.0																								
147.5																								
2.5																								
147.0																								
3.0																								
146.5																								
Remarks: 1: Stable sides 2: No groundwater 3: No HC odours					4: Elevation from Topo 5: 6:					Key: D = Disturbed Sample U = Undisturbed Sample B = Bulk Sample W = Water Sample VOC = PID Volatiles N Value = Stan Pen Test SWL = Standing Water Level PP = Pocket Penetrometer					Driller: PESL Logged: C Dainton Drawn: C Dainton					Checked: C Dainton Approved: CF Dainton Scale: 1:15				

 PEAK ENVIRONMENTAL SOLUTIONS info@peakenvironmentalsolutions.com www.peakenvironmentalsolutions.com					Peak Environmental Solutions Limited Beechfield Ninelands Road Hathersage Derbyshire S32 1BJ Tel: 01433 659071		Project No 41817		TP-105 Page 1 of 1	
Client: Treville Properties Project: 10-12 Bridgemont Location: Whaley Bridge					Date: 18 Oct 2016 Contractor: Client Method: Volvo EC15B Midi		Depth: 1.4 mbgl Length: 1.8 m Width: 0.9 m		Gr Elevation: 149.5 mDatum TOC Elevation: mDatum Coordinates: :	
Depth (mbgl)	Elevation (m)	Samples	Tests/VOCs	SPT N Values	Soil or Rock Field Material Description			Depth (mbgl)	Well Details & Groundwater Levels	
0.0	149.5	D1			Firm dark brown sandy slightly gravelly clayey TOPSOIL.		0			
					Soft to firm brown very sandy gravelly CLAY.	0.2				
0.5	149.0				Loose to medium dense very sandy cobbley GRAVEL. Gravel is rounded to sub-rounded with much tabular shale. Cobbles up to 30cm, sub rounded flat/elongate.	0.5				
1.0	148.5				Loose to medium dense very gravelly slightly cobbly medium to coarse SAND. Cobbles up to 25cm.	0.9				
1.5	148.0				Base of Trial Pit.		1.4			
2.0	147.5									
2.5	147.0									
3.0	146.5									
Remarks: 1: Unstable sides 2: No groundwater 3: No HC odours					4: Elevation from Topo 5: 6:		Key: D = Disturbed Sample U = Undisturbed Sample B = Bulk Sample W = Water Sample VOC = PID Volatiles N Value = Stan Pen Test SWL = Standing Water Level PP = Pocket Penetrometer		Driller: PESL Logged: C Dainton Drawn: C Dainton	
									Checked: C Dainton Approved: CF Dainton Scale: 1:15	

 PEAK ENVIRONMENTAL SOLUTIONS info@peakenvironmentalsolutions.com www.peakenvironmentalsolutions.com					Peak Environmental Solutions Limited Beechfield Ninelands Road Hathersage Derbyshire S32 1BJ Tel: 01433 659071		Project No 41817		TP-106 Page 1 of 1	
Client: Treville Properties Project: 10-12 Bridgemont Location: Whaley Bridge					Date: 18 Oct 2016 Contractor: Client Method: Volvo EC15B Midi		Depth: 1.8 mbgl Length: 2 m Width: 0.6 m		Gr Elevation: 153.6 mDatum TOC Elevation: mDatum Coordinates: :	
Depth (mbgl)	Elevation (m)	Samples	Tests/VOCs	SPT N Values	Soil or Rock Field Material Description			Depth (mbgl)	Well Details & Groundwater Levels	
0.0	153.5	D1			Firm dark brown sandy slightly gravelly clayey TOPSOIL.			0		
0.5	153.0				Possible MADE GROUND (reworked natural). Medium dense brown very clayey gravelly fine to medium SAND. With some pockets of very sandy gravelly clay.			0.2		
1.0	152.5				Soft to firm dark grey-brown becoming brown slightly mottled dark brown very sandy slightly silty CLAY.			1.4		
1.5	152.0				Base of Trial Pit.			1.8		
2.0	151.5									
2.5	151.0									
3.0	150.5									
Remarks: 1: Stable sides 2: No groundwater 3: No HC odours					Key: D = Disturbed Sample U = Undisturbed Sample B = Bulk Sample		W = Water Sample VOC = PID Volatiles N Value = Stan Pen Test SWL = Standing Water Level PP = Pocket Penetrometer		Driller: PESL Logged: C Dainton Drawn: C Dainton	
4: Elevation from Topo 5: 6:									Checked: C Dainton Approved: CF Dainton Scale: 1:15	

 PEAK ENVIRONMENTAL SOLUTIONS info@peakenvironmentalsolutions.com www.peakenvironmentalsolutions.com			Peak Environmental Solutions Limited Beechfield Ninelands Road Hathersage Derbyshire S32 1BJ Tel: 01433 659071			Project No 41817			TP-107 Page 1 of 1					
Client: Treville Properties Project: 10-12 Bridgemont Location: Whaley Bridge			Date: 18 Oct 2016 Contractor: Client Method: Volvo EC15B Midi			Depth: 0.6 mbgl Length: 1.6 m Width: 0.6 m			Gr Elevation: 150.1 mDatum TOC Elevation: mDatum Coordinates: :					
Depth (mbgl)	Elevation (m)	Samples	Tests/VOCs	SPT N Values	Soil or Rock Field Material Description			Depth (mbgl)	Well Details & Groundwater Levels					
0.0	150.0	D2			Soft black rooty very sandy gravelly slightly clayey TOPSOIL.			0						
					Very dense brown very gravelly slightly cobbly very clayey SAND. Excavator unable to dig beyond 0.6m			0.2						
0.5	149.5				Base of Trial Pit.			0.6						
1.0	149.0													
1.5	148.5													
2.0	148.0													
2.5	147.5													
3.0	147.0													
Remarks: 1: Stable sides 2: No groundwater 3: No HC odours			4: Elevation from Topo 5: 6:			Key: D = Disturbed Sample U = Undisturbed Sample B = Bulk Sample W = Water Sample VOC = PID Volatiles N Value = Stan Pen Test SWL = Standing Water Level PP = Pocket Penetrometer			Driller: PESL Logged: C Dainton Drawn: C Dainton			Checked: C Dainton Approved: CF Dainton Scale: 1:15		



APPENDIX C: ANALYTICAL CERTIFICATE

**Chris Dainton**

Peak Environmental Solutions
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e: cdainton@peakenvironmentalsolutions.com

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Croxley Green
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e: reception@i2analytical.com

Analytical Report Number : 16-30567

Replaces Analytical Report Number : 16-30567, issue no. 1

Project / Site name:	10-12 Bridgemont, Whaley Bridge	Samples received on:	20/10/2016
Your job number:	41817	Samples instructed on:	20/10/2016
Your order number:	41817-1	Analysis completed by:	07/11/2016
Report Issue Number:	2	Report issued on:	07/11/2016
Samples Analysed:	9 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Analytical Report Number: 16-30567

Project / Site name: 10-12 Bridgemont, Whaley Bridge

Your Order No: 41817-1

Lab Sample Number				646162	646163	646164	646165	646166
Sample Reference				TP-101 D1	TP-101 D2	TP-102 D1	TP-103 D1	TP-103 D2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.05	0.30	0.20	0.20	0.50
Date Sampled				18/10/2016	18/10/2016	18/10/2016	18/10/2016	18/10/2016
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	18	23	13	25	25
Total mass of sample received	kg	0.001	NONE	0.54	0.54	0.56	0.51	0.55

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	Chrysotile	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	< 0.001	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	< 0.001	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.5	6.1	6.8	7.0	6.9
Total Cyanide	mg/kg	1	MCERTS	< 1	-	< 1	< 1	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	300	420	130	630	490
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.011	0.010	0.0029	0.013	0.015
Total Chloride	mg/kg	5	NONE	71	35	110	140	35
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.7	-	0.2	2.6	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	< 0.10	-
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	< 0.10	-
Fluorene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	< 0.10	-
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	0.98	-
Anthracene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	< 0.10	-
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	2.5	-
Pyrene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	2.1	-
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	1.1	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	1.5	-
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	0.88	-
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	0.67	-
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	0.93	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	0.29	-
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	-	< 0.10	< 0.10	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.34	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	-	< 1.60	11.3	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	1.3	-	9.4	16	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	0.5	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16	-	11	26	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	28	-	19	97	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	42	-	14	230	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	1.7	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	-	18	28	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	1.3	1.9	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	20	-	17	31	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	69	-	50	260	-

Petroleum Hydrocarbons

TPH (C6 - C8)	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	-
TPH (C8 - C10)	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	-
TPH (C10 - C12)	mg/kg	2	ISO 17025	< 2.0	-	< 2.0	< 2.0	-
TPH (C12 - C16)	mg/kg	4	ISO 17025	< 4.0	-	< 4.0	6.8	-
TPH (C16 - C21)	mg/kg	1	ISO 17025	2.9	-	< 1.0	21	-
TPH (C21 - C35)	mg/kg	1	ISO 17025	9.9	-	< 1.0	38	-
TPH Total C6 - C35	mg/kg	10	NONE	13	-	< 10	65	-

Analytical Report Number: 16-30567

Project / Site name: 10-12 Bridgemont, Whaley Bridge

Your Order No: 41817-1

Lab Sample Number				646167	646168	646169	646170	
Sample Reference				TP-104 D1	TP-105 D1	TP-106 D1	TP-107 D1	
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	
Depth (m)				0.40	0.10	0.40	0.10	
Date Sampled				18/10/2016	18/10/2016	18/10/2016	18/10/2016	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	21	17	18	15	
Total mass of sample received	kg	0.001	NONE	0.50	0.56	0.51	0.43	

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.1	8.0	6.5	7.5	
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	
Total Sulphate as SO ₄	mg/kg	50	MCERTS	330	400	390	650	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	0.013	-	
Total Chloride	mg/kg	5	NONE	-	-	140	-	
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.8	1.4	1.1	3.8	

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	0.29	< 0.10	0.26	
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.73	< 0.10	0.88	
Pyrene	mg/kg	0.1	MCERTS	< 0.10	0.68	< 0.10	0.74	
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	0.55	< 0.10	0.68	
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.47	< 0.05	0.65	
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.27	< 0.10	0.48	
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	0.29	< 0.10	0.37	
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.44	< 0.10	0.54	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.20	
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.21	

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	3.72	< 1.60	5.01	
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	32	18	20	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.3	0.3	0.5	
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	18	16	24	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	24	39	18	51	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	19	93	28	97	
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	1.9	1.1	3.0	
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	23	15	23	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	30	25	20	27	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	43	95	57	140	

Petroleum Hydrocarbons

TPH (C6 - C8)	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
TPH (C8 - C10)	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
TPH (C10 - C12)	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0	
TPH (C12 - C16)	mg/kg	4	ISO 17025	< 4.0	< 4.0	< 4.0	8.5	
TPH (C16 - C21)	mg/kg	1	ISO 17025	< 1.0	6.4	< 1.0	7.5	
TPH (C21 - C35)	mg/kg	1	ISO 17025	< 1.0	21	3.5	45	
TPH Total C6 - C35	mg/kg	10	NONE	< 10	27	< 10	61	



Analytical Report Number **16-30567**

Project / Site name: **10-12 Bridgemont, Whaley Bridge**

Your Order No: **41817-1**

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

"The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
646165	TP-103 D1	0.20	106	Loose Fibres	Chrysotile	< 0.001	< 0.001

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



Analytical Report Number : 16-30567

Project / Site name: 10-12 Bridgemont, Whaley Bridge

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
646162	TP-101 D1	None Supplied	0.05	Brown loam and clay with vegetation.
646163	TP-101 D2	None Supplied	0.30	Brown clay and sand with gravel.
646164	TP-102 D1	None Supplied	0.20	Brown clay and sand with vegetation.
646165	TP-103 D1	None Supplied	0.20	Brown clay and sand with gravel and vegetation.
646166	TP-103 D2	None Supplied	0.50	Brown clay and sand.
646167	TP-104 D1	None Supplied	0.40	Brown clay and sand with vegetation.
646168	TP-105 D1	None Supplied	0.10	Brown clay and sand with gravel and vegetation.
646169	TP-106 D1	None Supplied	0.40	Brown clay and sand.
646170	TP-107 D1	None Supplied	0.10	Brown loam and sand with gravel and vegetation.

Analytical Report Number : 16-30567

Project / Site name: 10-12 Bridgemont, Whaley Bridge

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in ouse method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
Chloride in soil	Determination of acid soluble chloride in soil by extraction with nitric acid, addition of silver nitrate followed by titration against thiocyanate.	In-house method	L075-PL	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.