



**Jade Allen**  
BWB Consulting Limited  
Livery Place  
35 Livery Street Birmingham  
B3 2PB

i2 Analytical Ltd.  
7 Woodshots Meadow,  
Croxley Green  
Business Park,  
Watford,  
Herts,  
WD18 8YS

**t:** 01217962087

**e:** jade.allen@bwiconsulting.com

**t:** 01923 225404

**f:** 01923 237404

**e:** reception@i2analytical.com

## **Analytical Report Number : 19-27699**

<b>Project / Site name:</b>	Trowbridge	<b>Samples received on:</b>	04/02/2019
<b>Your job number:</b>	LDQ2048	<b>Samples instructed on:</b>	06/02/2019
<b>Your order number:</b>	POR023737	<b>Analysis completed by:</b>	13/02/2019
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	13/02/2019
<b>Samples Analysed:</b>	3 leachate samples - 9 soil samples		

**Signed:** 

Dr Claire Stone  
Quality 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

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Analytical Report Number: 19-27699

Project / Site name: Trowbridge

Your Order No: POR023737

Lab Sample Number				1148679	1148680	1148681	1148682	1148683
Sample Reference				DS01	DS02	DS02	DS03	DS04
Sample Number				1	1	3	1	1
Depth (m)				0.20-0.30	0.03-0.12	1.00-1.10	0.20-0.30	0.40-0.50
Date Sampled				31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
Time Taken				1214	1246	1248	1337	1429
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	53	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	12	16	8.9	19	11
Total mass of sample received	kg	0.001	NONE	0.96	0.97	1.0	0.84	0.93

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	Not-detected
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#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	7.9	8.2	7.9	7.7
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Complex Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.023	0.066	0.070	0.041	0.27
Total Sulphur	mg/kg	50	MCERTS	530	790	420	730	490
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.020	0.043	< 0.0010	0.034	0.0088

#### Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 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	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.28	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.22	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	24	11	25	19
Barium (aqua regia extractable)	mg/kg	1	MCERTS	64	370	19	120	36
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.73	2.4	0.51	1.0	0.55
Boron (water soluble)	mg/kg	0.2	MCERTS	1.5	1.5	0.7	2.7	1.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.6	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21	18	11	31	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	77	6.3	28	11
Lead (aqua regia extractable)	mg/kg	1	MCERTS	16	20	4.3	32	10
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16	46	10	24	16
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	53	65	34	74	58
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	100	1100	25	130	48



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Project / Site name: Trowbridge

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Lab Sample Number				1148679	1148680	1148681	1148682	1148683
Sample Reference				DS01	DS02	DS02	DS03	DS04
Sample Number				1	1	3	1	1
Depth (m)				0.20-0.30	0.03-0.12	1.00-1.10	0.20-0.30	0.40-0.50
Date Sampled				31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
Time Taken				1214	1246	1248	1337	1429
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

#### Petroleum Hydrocarbons

TPH C10 - C40	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH2 (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

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Your Order No: POR023737

Lab Sample Number				1148684	1148685	1148686	1148687	
Sample Reference				DS04	DS05	DS05	DS06	
Sample Number				5	1	3	1	
Depth (m)				2.90-3.00	0.20-0.30	1.10-1.20	0.50-0.60	
Date Sampled				31/01/2019	31/01/2019	31/01/2019	31/01/2019	
Time Taken				1432	1503	1505	1548	
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	18	15	8.4	14	
Total mass of sample received	kg	0.001	NONE	1.0	0.98	0.94	1.1	

Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	-	Not-detected	
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#### General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.4	8.1	8.4	8.1	
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	
Complex Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	1.6	0.011	0.010	0.012	
Total Sulphur	mg/kg	50	MCERTS	13000	400	320	370	
Fraction Organic Carbon (FOC)	N/A	0.001	NONE	0.0037	0.015	< 0.0010	0.015	

#### 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	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	

#### Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	
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#### Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.4	28	4.4	22	
Barium (aqua regia extractable)	mg/kg	1	MCERTS	20	110	12	73	
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.80	1.2	0.43	0.96	
Boron (water soluble)	mg/kg	0.2	MCERTS	7.8	1.7	0.5	1.7	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.5	< 0.2	< 0.2	
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17	37	8.8	32	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	12	22	6.3	20	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	8.8	20	3.7	14	
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	30	8.1	24	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	19	90	23	70	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	35	120	16	97	

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Lab Sample Number				1148684	1148685	1148686	1148687	
Sample Reference				DS04	DS05	DS05	DS06	
Sample Number				5	1	3	1	
Depth (m)				2.90-3.00	0.20-0.30	1.10-1.20	0.50-0.60	
Date Sampled				31/01/2019	31/01/2019	31/01/2019	31/01/2019	
Time Taken				1432	1503	1505	1548	
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
<b>Petroleum Hydrocarbons</b>								
TPH C10 - C40				mg/kg	10	MCERTS	< 10	< 10
							< 10	< 10
TPH2 (C6 - C10)				mg/kg	0.1	MCERTS	< 0.1	< 0.1
							< 0.1	< 0.1



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Your Order No: POR023737

Lab Sample Number				1148688	1148689	1148690		
Sample Reference				DS01	DS02	DS04		
Sample Number				1	1	1		
Depth (m)				0.20-0.30	0.03-0.12	0.40-0.50		
Date Sampled				31/01/2019	31/01/2019	31/01/2019		
Time Taken				1214	1246	1429		
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		

#### General Inorganics

pH	pH Units	N/A	ISO 17025	8.1	8.0	7.9		
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10		
Sulphate as SO <sub>4</sub>	mg/l	0.1	ISO 17025	3.3	3.2	1.1		

#### Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	8.3	9.4	7.4		
Barium (dissolved)	µg/l	0.05	ISO 17025	6.3	40	3.4		
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2		
Boron (dissolved)	µg/l	10	ISO 17025	14	27	20		
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08		
Chromium (dissolved)	µg/l	0.4	ISO 17025	0.9	0.5	0.5		
Copper (dissolved)	µg/l	0.7	ISO 17025	4.1	4.7	3.8		
Lead (dissolved)	µg/l	1	ISO 17025	3.8	3.6	2.6		
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5		
Nickel (dissolved)	µg/l	0.3	ISO 17025	< 0.3	0.4	< 0.3		
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0		
Vanadium (dissolved)	µg/l	1.7	ISO 17025	1.7	3.2	< 1.7		
Zinc (dissolved)	µg/l	0.4	ISO 17025	3.8	15	3.3		



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\* 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 *
1148679	DS01	1	0.20-0.30	Light brown loam and clay with stones and vegetation.
1148680	DS02	1	0.03-0.12	Black sandy loam with vegetation and clinker
1148681	DS02	3	1.00-1.10	Light brown clay and sand with gravel.
1148682	DS03	1	0.20-0.30	Brown loam and clay with gravel and vegetation.
1148683	DS04	1	0.40-0.50	Brown loam and clay with gravel and vegetation.
1148684	DS04	5	2.90-3.00	Grey clay.
1148685	DS05	1	0.20-0.30	Brown loam and clay with gravel and vegetation.
1148686	DS05	3	1.10-1.20	Light brown sandy clay with gravel.
1148687	DS06	1	0.50-0.60	Brown loam and clay with gravel and vegetation.

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

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
Boron in leachate	Determination of boron in leachate. Sample acidified and followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
Complex Cyanide in soil	Determination of complex cyanide by calculation.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon 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	L009-PL	D	NONE
Free cyanide in soil	Determination of free 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
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
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 2, 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 at 20oC in leachate	Determination of pH in leachate by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
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 in leachates	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025

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The results included within the report are representative of the samples submitted for analysis.

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**Project / Site name: Trowbridge**

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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 leachate	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	ISO 17025
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, and MEWAM 2006 Methods for the Determination of Metals in Soil	L038-PL	D	MCERTS
TPH Banding in Soil by FID	Determination of hexane extractable hydrocarbons in soil by GC-FID.	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	W	MCERTS
TPH2 (Soil)	Determination of hydrocarbons C6-C10 by headspace GC-MS.	In-house method based on USEPA8260	L088-PL	W	MCERTS

**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.**