

QTS Environmental Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Soil Analysis Certificate

QTS Environmental Report No: 17-63193	Date Sampled	10/08/17	10/08/17	10/08/17	10/08/17	10/08/17
Constructive Evaluation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Roselands	TP / BH No	WS1	WS1	WS1	WS1	WS2
Project / Job Ref: 17.9607	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 17.9607/RM	Depth (m)	0.20	0.70	1.60	3.50	0.80
Reporting Date: 24/08/2017	QTSE Sample No	286214	286215	286216	286217	286218

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected				Not Detected
pH	pH Units	N/a	MCERTS	9.7	8.1	8.0	8.0	8.0
Total Cyanide	mg/kg	< 2	NONE	< 2				< 2
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	44	22	51	1350	68
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.04	0.02	0.05	1.35	0.07
Organic Matter	%	< 0.1	MCERTS	3.8				3.7
Arsenic (As)	mg/kg	< 2	MCERTS	10				16
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2				0.3
Chromium (Cr)	mg/kg	< 2	MCERTS	16				17
Copper (Cu)	mg/kg	< 4	MCERTS	71				27
Lead (Pb)	mg/kg	< 3	MCERTS	143				142
Mercury (Hg)	mg/kg	< 1	NONE	< 1				< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	13				17
Selenium (Se)	mg/kg	< 3	NONE	< 3				< 3
Zinc (Zn)	mg/kg	< 3	MCERTS	97				90
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2				< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C

Analysis carried out on the dried sample is corrected for the stone content

The samples have been examined to identify the presence of asbestiform minerals by polarising light microscopy and dispersion staining technique to In-House Procedures QTSE600 Determination of Asbestos in Bulk Materials; Asbestos in Soils/Sediments (fibre screening and identification)

This report refers to samples as received, and QTS Environmental Ltd, takes no responsibility for the accuracy or competence of sampling by others.

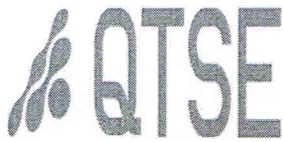
The material description shall be regarded as tentative and is not included in our scope of UKAS Accreditation.

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

RL: Reporting Limit

Pinch Test: Where pinch test is positive it is reported "Loose Fibres - PT" with type(s).

Subcontracted analysis (S)



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Soil Analysis Certificate

QTS Environmental Report No: 17-63193	Date Sampled	10/08/17				
Constructive Evaluation Ltd	Time Sampled	None Supplied				
Site Reference: Roselands	TP / BH No	WS2				
Project / Job Ref: 17.9607	Additional Refs	None Supplied				
Order No: 17.9607/RM	Depth (m)	2.00				
Reporting Date: 24/08/2017	QTSE Sample No	286219				

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025				
pH	pH Units	N/a	MCERTS	7.2			
Total Cyanide	mg/kg	< 2	NONE				
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	85			
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.08			
Organic Matter	%	< 0.1	MCERTS				
Arsenic (As)	mg/kg	< 2	MCERTS				
Cadmium (Cd)	mg/kg	< 0.2	MCERTS				
Chromium (Cr)	mg/kg	< 2	MCERTS				
Copper (Cu)	mg/kg	< 4	MCERTS				
Lead (Pb)	mg/kg	< 3	MCERTS				
Mercury (Hg)	mg/kg	< 1	NONE				
Nickel (Ni)	mg/kg	< 3	MCERTS				
Selenium (Se)	mg/kg	< 3	NONE				
Zinc (Zn)	mg/kg	< 3	MCERTS				
Total Phenols (monohydric)	mg/kg	< 2	NONE				

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Analysis carried out on the dried sample is corrected for the stone content

The samples have been examined to identify the presence of asbestiform minerals by polarising light microscopy and dispersion staining technique to In-House Procedures QTSE600 Determination of Asbestos in Bulk Materials; Asbestos in Soils/Sediments (fibre screening and identification)

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Subcontracted analysis (S)



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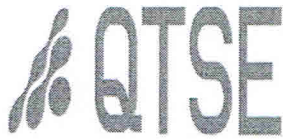


Soil Analysis Certificate - Speciated PAHs

QTS Environmental Report No: 17-63193	Date Sampled	10/08/17	10/08/17		
Constructive Evaluation Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Roselands	TP / BH No	WS1	WS2		
Project / Job Ref: 17.9607	Additional Refs	None Supplied	None Supplied		
Order No: 17.9607/RM	Depth (m)	0.20	0.80		
Reporting Date: 24/08/2017	QTSE Sample No	286214	286218		

Determinand	Unit	RL	Accreditation				
Naphthalene	mg/kg	< 0.1	MCERTS	0.30	0.12		
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1		
Phenanthrene	mg/kg	< 0.1	MCERTS	2.13	0.97		
Anthracene	mg/kg	< 0.1	MCERTS	0.38	0.13		
Fluoranthene	mg/kg	< 0.1	MCERTS	5.21	2.49		
Pyrene	mg/kg	< 0.1	MCERTS	4.45	2.15		
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	2.06	0.87		
Chrysene	mg/kg	< 0.1	MCERTS	2.49	1.21		
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	2.79	1.46		
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	1.40	0.70		
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	2.24	0.85		
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	1.17	0.51		
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	0.13	< 0.1		
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	1.08	0.50		
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	25.8	12		

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Soil Analysis Certificate - TPH CWG Banded

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Constructive Evaluation Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Roselands	TP / BH No	WS1	WS2		
Project / Job Ref: 17.9607	Additional Refs	None Supplied	None Supplied		
Order No: 17.9607/RM	Depth (m)	0.20	0.80		
Reporting Date: 24/08/2017	QTSE Sample No	286214	286218		

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2			
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2			
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3			
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3			
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	30			
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	30			
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	4	< 2			
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	23	7			
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	74	24			
Aromatic (C5 - C35)	mg/kg	< 21	NONE	102	31			
Total >C5 - C35	mg/kg	< 42	NONE	102	61			

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Soil Analysis Certificate - BTEX / MTBE						
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Constructive Evaluation Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Roselands	TP / BH No	WS1	WS2			
Project / Job Ref: 17.9607	Additional Refs	None Supplied	None Supplied			
Order No: 17.9607/RM	Depth (m)	0.20	0.80			
Reporting Date: 24/08/2017	QTSE Sample No	286214	286218			

Determinand	Unit	RL	Accreditation					
Benzene	ug/kg	< 2	MCERTS	< 2	< 2			
Toluene	ug/kg	< 5	MCERTS	< 5	< 5			
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2			
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2			
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2			
MTBE	ug/kg	< 5	MCERTS	< 5	< 5			

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Soil Analysis Certificate - Sample Descriptions

QTS Environmental Report No: 17-63193

Constructive Evaluation Ltd

Site Reference: Roselands

Project / Job Ref: 17.9607

Order No: 17.9607/RM

Reporting Date: 24/08/2017

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
286214	WS1	None Supplied	0.20	7.7	Black sandy clay with stones
286215	WS1	None Supplied	0.70	18.2	Black sandy clay with stones
286216	WS1	None Supplied	1.60	25.7	Brown clay
286217	WS1	None Supplied	3.50	42	Brown clay
286218	WS2	None Supplied	0.80	18.4	Black clay with stones and brick
286219	WS2	None Supplied	2.00	15	Brown clay with stones

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/S}

Unsuitable Sample ^{U/S}

