Our Ref: EFS/197260 (Ver. 1) Your Ref:

April 2, 2019



Environmental Chemistry SOCOTEC UK Limited Bretby Business Park Ashby Road Burton-on-Trent Staffordshire DE15 0YZ

Telephone: 01283 554400 Facsimile: 01283 554422

Mark Evason H Evason & Co Lower Wayford Dorrington Shrewsbury SY5 7EE

For the attention of Mark Evason

Dear Mark Evason

Sample Analysis - H.Evason

Samples from the above site have been analysed in accordance with the schedule supplied. The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Where appropriate the samples will be kept until 06/05/19 when they will be discarded. Please call 01283 554463 for an extension of this date.

Please be aware that our policy for the retention of paper based laboratory records and analysis reports is 6 years.

The work was carried out in accordance with SOCOTEC UK Limited (Multi-Sector Services) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for SOCOTEC UK Limited

deeples

C Lamb <u>Project Co-ordinator</u> 01283 554463

TEST REPORT



Report No. EFS/197260 (Ver. 1)

H Evason & Co Lower Wayford Dorrington Shrewsbury SY5 7EE

Site: H.Evason

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 25-Mar-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 02-Apr-2019

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 4) Table of WAC Analysis Results (Page 5) Analytical and Deviating Sample Overview (Page 6) Table of Method Descriptions (Page 7) Table of Report Notes (Page 8) Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of SOCOTEC UK Lim Becky Batham Oper

Operations Manager Energy & Waste Services Date of Issue: 02-Apr-2019

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected. SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.

	Mada	Units :	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Method Reportin	od Codes : ng Limits :	BTEXHSA 10	BTEXHSA 10	BTEXHSA 20	BTEXHSA 20	BTEXHSA 10	BTEXHSA 10	BTEXHSA 30	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08
	UKAS A	ccredited :	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAB ID Number CL/	Client Sample Description	Sample Date	Benzene	Ethyl Benzene	m/p Xylenes	MTBE	o Xylene	Toluene	Xylenes	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Chrysene
1952586	DSG200319 WAC	20-Mar-19	< 10.0	< 10.0	< 20.0	< 20.0	< 10.0	< 10.0	<30	< 0.08	< 0.08	< 0.08	0.08	0.09	0.11	< 0.08	< 0.08	0.10
			Client Na Contact		H Evas		I	1	1	1	1		Sam	ple Ana	lysis	1		1
1	Bretby Business Park, Ashby Road Burton-on-Trent, Staffordshire, DE15 0YZ Tel +44 (0) 1283 554400 Fax +44 (0) 1283 554422						Evaso	on				Date Prin Report N Table Nu	lumber			-Mar-2019 FS/197260 1		

		Units :	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Metho Method Reporti	od Codes :	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 0.08	PAHMSUS 1.28	PCBECD 5	PCBECD 5	PCBECD 5	PCBECD 5	PCBECD 5	PCBECD 5	PCBECD 5
	UKAS A	ccredited :	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAB ID Number CL/	Client Sample Description	Sample Date	Coronene	Dibenzo(ah)anthracene	Fluoranthene	Fluorene	Indeno(123-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH (Sum of USEPA 16)	PCB 101	PCB 118	PCB 138	PCB 153	PCB 180	PCB 28	PCB 52
1952586	DSG200319 WAC	20-Mar-19	< 0.08	< 0.08	0.12	< 0.08	< 0.08	< 0.08	< 0.08	0.12	< 1.43	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
			Client N		H Evas Mark Evas		·		·	·	·		Sam	ple Ana	lysis			·
E	Bretby Business Park, Ashby Road Burton-on-Trent, Staffordshire, DE15 0YZ Tel +44 (0) 1283 554400 Fax +44 (0) 1283 554422						Evaso	on				Date Prin Report N Table Nu	lumber			-Mar-2019 FS/197260 1		

		Units :	%	mg/kg	mg/kg TPHFIDUS	% M/M									
	Method Benertii	od Codes :	TMSS 0.1	TPHFIDUS 10	TPHFIDUS 10	WSLM59 0.02									
	Method Reportin UKAS A	ccredited :	Yes	Yes	Yes	Yes									
LAB ID Number CL/	Client Sample Description	Sample Date	Tot.Moisture @ 105C	TPH Band (>C10-C40)	TPH by GCFID (AR)	Total Organic Carbon									
1952586	DSG200319 WAC	20-Mar-19	5.2	193	193	1.04									
			Client N Contact		H Evas Mark Eva	on & Co			1	1		Sam	ple Ana	Ilysis	
	Bretby Business Park, Ashby Road				-						Date Prin	ted		28-Mar-2019	
	Burton-on-Trent, Staffordshire, DE15 0YZ										Report N			EFS/197260	
	Tel +44 (0) 1283 554400					н.	Evason				Table Nu			1	
	Fax +44 (0) 1283 554422														

WASTE ACCEPTANCE CRITERIA TESTING BSEN 12457/3

Client	H Evason & Co				Leaching Data				
Client	H EVASOIT & CO				Weight of sample (kg) 0.				
Contact	Mark Evason				Moisture content @ 105°C (% of Wet Weight)	5.2			
Wark Evasori					Equivalent Weight based on drying at 105°C (kg)	0.225			
Site	H.Evason				Volume of water required to carry out 2:1 stage (litres)	0.443			
Sile	H.EVASUI				Fraction of sample above 4 mm %	45.200			
Sa	mple Description	Report No	Sample No	Issue Date	Fraction of non-crushable material %	0.000			
	SG200319 WAC	s19 7260	CL/1952586	02-Apr-19	Volume to undertake analysis (2:1 Stage) (litres)	0.300			
D	30200319 WAC	519_7260	CL/1952560	02-Apr-19	Weight of Deionised water to carry out 8:1 stage (kg)	1.650			
Note: The >4mm fr	action is crushed using a disc	mill							

c	()			Landfill Wa	ste Acceptance C	riteria Limit Values
Accreditation	Method Code	Solid Waste Analysis (Dry Basis)	Concentration in Solid (Dry Weight Basis)	Inert Waste Landfill	Stable Non- reactive Hazardous Waste in Non- Hazardous Landfill	Hazardous Waste Landfill
U	WSLM59	Total Organic Carbon (% M/M)	0.98	3	5	6
	LOI450	Loss on Ignition (%)				10
U	BTEXHSA	Sum of BTEX (mg/kg)	<0.0631	6		
U	PCBUSECD	Sum of 7 Congener PCB's (mg/kg)	<0.035	1		
U	TPHFIDUS	Mineral Oil (mg/kg)	204	500		
Ν	PAHMSUS	PAH Sum of 17 (mg/kg)	<1.59	100		
	PHSOIL	pH (pH units)			>6	
	ANC	Acid Neutralisation Capacity (mol/kg) @pH 7			To be evaluated	To be evaluated

Accreditation	od Code	ອ ວິວ ອິດ E Leachate Analysis		nalysis		Calculated cumulative amount leached @ 10:1		cceptance Criteria 12457/3 @ L/S 10 I	a Limit Values for BSEN itre kg-1		
Accre	Method		mg/l e	kcept ⁰⁰	mg/kg (d	ry weight)	mg/kg (dry weight)				
U	WSLM3	pH (pH units) ⁰⁰	7.7	8	8 Calculated data not UKAS Accredited						
U	WSLM2	Conductivity (µs/cm) 00	475	118	Calculated data ne	N ONAO Acciedited					
U	ICPMSW	Arsenic	0.003	0.004	0.006	0.04	0.5	2	25		
U	ICPWATVAR	Barium	0.02	<0.01	0.04	<0.1	20	100	300		
U	ICPMSW	Cadmium	<0.0001	<0.0001	< 0.0002	<0.001	0.04	1	5		
U	ICPMSW	Chromium	0.001	<0.001	0.002	<0.01	0.5	10	70		
U	ICPMSW	Copper	0.009	0.004	0.018	0.05	2	50	100		
U	ICPMSW	Mercury	<0.0001	<0.0001	<0.0002	<0.001	0.01	0.2	2		
U	ICPMSW	Molybdenum	0.019	0.003	0.038	0.05	0.5	10	30		
U	ICPMSW	Nickel	<0.001	<0.001	<0.002	<0.01	0.4	10	40		
U	ICPMSW	Lead	<0.001	<0.001	<0.002	<0.01	0.5	10	50		
U	ICPMSW	Antimony	0.003	0.002	0.006	0.02	0.06	0.7	5		
U	ICPMSW	Selenium	0.001	<0.001	0.002	<0.01	0.1	0.5	7		
U	ICPMSW	Zinc	< 0.002	<0.002	<0.004	<0.02	4	50	200		
U	KONENS	Chloride	26	<1	52	<43	800	15000	25000		
U	ISEF	Fluoride	0.5	0.4	1	4	10	150	500		
U	ICPWATVAR	Sulphate as SO4	117	14	234	277	1000	20000	50000		
Ν	WSLM27	Total Dissolved Solids	371	92.1	742	1293	4000	60000	100000		
U	SFAPI	Phenol Index	<0.05	<0.05	<0.1	<0.5	1				
Ν	WSLM13	Dissolved Organic Carbon	22	3.9	44	63	500	800	1000		
Templa	ate Ver. 1					Landfill	Waste Acceptance (Criteria limit values co	prrect as of 11th March 2009.		

Tests where the accreditation is set to U are UKAS accredited, those where the accreditation is set to N are not UKAS accredited

Sample Analysis

SOCOTEC UK Ltd Environmental Chemistry Analytical and Deviating Sample Overview

Customer H Evason & Co Consignment No S83766 Site H.Evason Date Logged 25-Mar-2019 Report No S197260 In-House Report Due 01-Apr-2019 Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days MethodID MethodID Provide PREPORT No PREPORT No PREPORT No Total Organic C arbon ID Number Description Sampled NTBE analysis (ug/kg) V <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>·~· ,</th><th></th><th></th><th></th><th></th><th></th><th>5 00</th><th></th><th></th></td<>							·~· ,						5 00		
Report No S197260 In-House Report Due 01-Apr-2019 Please note the results for any subcontracted analysis (identified with a '^) is likely to take up to an additional five working days In-House Report Due 01-Apr-2019 MethodID Image: Comparison of the results for any subcontracted analysis (identified with a '^) is likely to take up to an additional five working days MethodID Image: Comparison of the results for any subcontracted analysis (identified with a '^) is likely to take up to an additional five working days ID Number Description Sampled Image: Comparison of the results of the results of the results days ID Number Description Sampled Image: Comparison of the results days Image: Comparison of the results days ID Number Description Sampled Image: Comparison of the results days Image: Comparison of the results days ID Number Description Sampled Image: Comparison of the results days Image: Comparison of the results days ID Number Description Sampled Image: Comparison of the results days Image: Comparison of the results days Image: Comparison of the results days ID Number Description Sampled Image: Comparison of the results days Image: Comparison of the results days Image: Comparison of the results days I	Customer	H Evason & Co						Cons	signm	ent N	io S83	3766			
Please note the results for any subcontracted analysis (identified with a '*') is likely to take up to an additional five working days MethodID Image: Total organic Carbon Total Organic Carbon Total Organic Carbon ID Number Description Sampled MTBE analysis CEN Leac(P)2 PCB-7 Congeners Analysis PCB-7 Congeners Analysis Visual Part (P) Sampled MTBE analysis CEN Leac(P)2 PCB-7 Congeners Analysis PCB-7 Congener	Site	H.Evason						Date	Logo	ged 25	5-Mar	-2019)		
WSLMS9 Total Organic Carbon TPHFIDUS TPH by GCFID (AR) TMSS TOT.Moisture @ 105C PCBECD PCB-7 Congeners Analysis PAMMSUS PAH (17) by GCRID (AR) PCBECD PCB-7 Congeners Analysis PAH (17) by GCRIS PAH (17) by GCMS PCENCUSSA BTEX-HSA + MTBE analysis BTEX-HSA + MTBE analysis PAH (17) by GCMS ID Number Sampled	Report No	S197260						In-H	ouse	Repo	rt Due	∋ 01-A	\pr-20)19	
Total Organic Carbon TPH by GCFID (AR) TPH Band (>C10-C40) > PCB-7 Congeners Analysis > PAH (17) by GCMS > REPORT A CEN Leac(P)1 > BTEX-HSA + MTBE analysis > Description > Description >	Please note the re	esults for any subcontracted anal	ysis (identified	d with	n a '^') is lik	ely to	take	up to	an a	dditio	inal fi	ve wo	rking	days.
ID Number Description Sampled Image: Figure (Lig/kg) V Leac(P)1 V Leac(P)1 V Leac(P)1 V V Leac(P)1 V V Leac(P)1 V Image: Figure (Lig/kg) V V V V Leac(P)1 V Leac(P)1 V Image: Figure (Lig/kg) V V Image: Figure (Lig/kg) V Image: Figu			MethodID	BTEXHSA		CEN Leachate		CustServ	PAHMSUS	PCBECD	TMSS	TPHFIDUS		WSLM59	
	ID Number	Description	Sampled	+ MTBE analysi					PAH (17) by GCMS	Congeners	8	Band	TPH by GCFID (AR)	Organic	
CL/1952586 DSG200319 WAC 20/03/19				✓	✓				✓	✓	✓	✓	✓	✓	
	CL/1952586	DSG200319 WAC	20/03/19												

Note: We will endeavour to prioritise samples to complete analysis within	De	viating Sample Key
holding time; however any delay could result in samples becoming	A	The sample was received in an inappropriate container for this analysis
deviant whilst being processed in the laboratory.	в	The sample was received without the correct preservation for this analysis
	С	Headspace present in the sample container
If sampling dates are missing or matrices unclassified then results will not	D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
be ISO 17025 accredited. Please contact us as soon as possible to provide	E	Sample processing did not commence within the appropriate holding time
missing information in order to reinstate accreditation.	F	Sample processing did not commence within the appropriate handling time
	Re	quested Analysis Key
		Analysis Required
		Analysis dependant upon trigger result - Note: due date may be affected if triggered
		No analysis scheduled
	^	Analysis Subcontracted - Note: due date may vary

Method Descriptions

Matrix	MethodID	Analysis	Method Description
		Basis	
Soil	BTEXHSA	As Received	Determination of Benzene, Toluene, Ethyl benzene and Xylenes
			(BTEX) by Headspace GCFID
Soil	PAHMSUS	As Received	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by
			hexane/acetone extraction followed by GCMS detection
Soil	PCBECD	As Received	Determination of Polychlorinated Biphenyl (PCB)
			congeners/aroclors by hexane/acetone extraction followed by
			GCECD detection
Soil	TMSS	As Received	Determination of the Total Moisture content at 105°C by loss on
			oven drying gravimetric analysis (% based upon wet weight)
Soil	TPHFIDUS	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil
			with GCFID detection.
Soil	WSLM59	Oven Dried	Determination of Organic Carbon in soil using sulphurous Acid
		@ < 35°C	digestion followed by high temperature combustion and IR
			detection
Water	ICPMSW	As Received	Direct quantitative determination of Metals in water samples using
			ICPMS
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using
			ICPOES
Water	ISEF	As Received	Determination of Fluoride in water samples by Ion Selective
			Electrode (ISE)
Water	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	SFAPI	As Received	Segmented flow analysis with colorimetric detection
Water	WSLM13	As Received	Instrumental analysis using acid/persulphate digestion and non-
			dispersive IR detection
Water	WSLM2	As Received	Determination of the Electrical Conductivity (µS/cm) by electrical
			conductivity probe.
Water	WSLM27	As Received	Gravimetric Determination
Water	WSLM3	As Received	Determination of the pH of water samples by pH probe

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.
- All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity. Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l Nil: Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/I

Asbestos Analysis

CH Denotes ChrysotileTR Denotes TremoliteCR Denotes CrocidoliteAC Denotes ActinoliteAM Denotes AmositeAN Denotes AnthophyliteNAIIS No Asbestos Identified in SampleNADIS No Asbestos Detected In Sample

Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols. This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined N.Det Not detected

N.F No Flow

NS Information Not Supplied

 $\ensuremath{\text{Req}}$ Analysis requested, see attached sheets for results

P Raised detection limit due to nature of the sample

* All accreditation has been removed by the laboratory for this result

MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

Sample Descriptions

Client :	H Evason & Co
Site :	H.Evason
Report Number :	S19_7260

Note: major constituent in upper case

		Note: major constituent in upper case
Lab ID Number	Client ID	Description
CL/1952586	DSG200319 WAC	Brown Gravel SILT Brick
01,1001000	2002000101010	