



2139

Certificate of Analysis

Date: 04/03/2011

Certificate Number: 11-46026-3-a

Client: Nottinghamshire Recycling LTD
Worksop Recycling Centre
Shireoaks Road
Worksop
Nottingham
S80 3HA

Our Reference: 11-46026-3-a

Client Reference:

Contract Title:

Description: 1 soil sample

Date Received: 28/01/2011

Date Started: 31/01/2011

Date Completed: 23/02/2011

Test Procedures: Identified by prefix DETSn, details available upon request.

Notes: **This report supersedes 11-46026-3, Extra testing**
Observations and interpretations are outside the scope of UKAS accreditation
* denotes test not included in laboratory scope of accreditation
denotes test that holds MCERT accreditation, however, MCERTS accreditation is only implied if the report carries the MCERTS logo
\$ denotes tests completed by an approved subcontractor
I/S denotes insufficient sample to carry out test
U/S denotes that the sample is not suitable for testing
DETSM denotes tests carried out by DETS Midlands laboratory
Solid samples will be disposed 1 month and liquids 2 weeks after the date of issue of this test certificate
Asbestos subsamples will be kept for 6 months

Approved By:



Authorised Signatories: Rob Brown
Business Manager

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Summary of Chemical Analysis

Soil Samples

Our Ref: 11-46026-3-a

Client Ref:

Contract Title:

Lab No. 307650
Sample ID Engineered Sandy Loam
Depth
Sample Ref
Sample Type

Test	Units	DETSxx	
Arsenic	mg/kg	DETS 042#	6.2
Barium	mg/kg	DETS 042	50
Beryllium	mg/kg	DETS 042#	0.6
Cadmium	mg/kg	DETS 042#	1.1
Chromium	mg/kg	DETS 042#	63
Lead	mg/kg	DETS 042#	63
Selenium	mg/kg	DETS 042#	< 0.5
Vanadium	mg/kg	DETS 042#	54
pH		DETS 008#	8.2
Acenaphthene	mg/kg	DETS 050	0.1
Acenaphthylene	mg/kg	DETS 050	< 0.1
Anthracene	mg/kg	DETS 050	1.0
Benzo(a)anthracene	mg/kg	DETS 050	1.3
Benzo(a)pyrene	mg/kg	DETS 050	0.8
Benzo(b)fluoranthene	mg/kg	DETS 050	1.2
Benzo(k)fluoranthene	mg/kg	DETS 050	0.6
Benzo(g,h,i)perylene	mg/kg	DETS 050	1.1
Chrysene	mg/kg	DETS 050	1.2
Dibenzo(a,h)anthracene	mg/kg	DETS 050	0.3
Fluoranthene	mg/kg	DETS 050	4.1
Fluorene	mg/kg	DETS 050	< 0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	DETS 050	0.9
Naphthalene	mg/kg	DETS 050	0.6
Phenanthrene	mg/kg	DETS 050	2.5
Pyrene	mg/kg	DETS 050	3.4
PAH	mg/kg	DETS 050	19
Benzene	mg/kg	DETS 062#	< 0.01
Ethylbenzene	mg/kg	DETS 062#	< 0.01
Toluene	mg/kg	DETS 062#	< 0.01
Xylene	mg/kg	DETS 062#	< 0.01
Phenol - Monohydric	mg/kg	DETS 067#	1.3
TPH (C10-C40)	mg/kg	DETS 051#	30

Summary of Asbestos Analysis Soil Samples

Our Ref: 11-46026-3-a
Client Ref:
Contract Title:
DETSxx DETS 082

Laboratory Number	Sample Ref	Depth	Other Ref	Material	Result
307650	Engineered Sandy Loam			Soil	NAD

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos
NAD = No Asbestos Detected. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos

Samples are analysed by DETS 082 using polarised light microscopy in accordance with HSG248 and documented in-house methods. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'.

BS 3882:2007 Topsoil ANALYTICAL REPORT

Job Title:
Client Reference:
Sample ID:

Engineered Sandy Loam

Job Number: 11-46026-3
Sample Number: 307650
Date Analysed: 14/02/2011

Analytical Results:

Parameter	Multipurpose range			Result	Compliant with multipurpose range? (Y/N)	Compliant with specific purpose range?		
						Low F.	Acid.	Calc
\$Texture								
Clay content %	5 - 35			5	Y	Y	Y	Y
Silt content %	0-65			13	Y	Y	Y	Y
Sand content %	30-85			81	Y	Y	Y	Y
Soil texture – (see figure 1)				Loamy sand				
Soil organic matter content % (varying with clay content)								
Clay 5-20%	3.0-20			20	Y	N	Y	Y
Clay 20-35%	5.0-20							
\$Maximum coarse fragment - Content % m/m								
>2 mm	0-30			25	Y	Y	Y	Y
>20 mm	0-10			0	Y	Y	Y	Y
>50 mm	0			0	Y	Y	Y	Y
#Soil pH value	5.5-8.5			8.2	Y	Y	N	Y
*Carbonate (Calcareous only) %	>1			5.3				Y
Available plant nutrient content								
*Nitrogen ≥ 0.15%				0.67	Y		Y	Y
*Nitrogen <0.1%				0.67		N		
*Extractable phosphorous <15mgP/l				67	Y		Y	Y
*Extractable potassium <120mgP/l				1800	N		N	N
*Extractable magnesium mg/l	51-600			410	Y		Y	Y
Carbon: Nitrogen ratio	<20:1			17	Y	Y	Y	Y
Electrical Conductivity				2900				
*Exchangeable sodium percentage % (only measure if soil electrical conductivity >2,800 µS cm ⁻¹)	<15			2.5	Y			
Phytotoxic contaminants (by soil pH) mg/kgDS)	≤6.0	6.0-7.0	>7.0					
*Zinc (Nitric acid extract)	<200	<200	<300	210	Y	Y	Y	Y
*Copper (Nitric acid extract)	<100	<135	<200	91	Y	Y	Y	Y
*Nickel (Nitric acid extract)	<60	<75	<110	19	Y	Y	Y	Y
*Visible contaminants % m/m								
>2 mm	<0.5			0	Y	Y	Y	Y
...of which plastics	<0.25			0	Y	Y	Y	Y
...man made sharps	Zero in 1kg air-dried soil			0	Y	Y	Y	Y

Additional analytical certificate(s) for contaminants are appended. N

DECLARATION: I certify that this sample of soil has been analysed in accordance with BS3882:2007