



2139

## Certificate of Analysis

Date: 27/11/2013

Certificate Number: 13-92896

Client: Stainton Quarry  
Stainton Quarry  
Stainton  
Barnard Castle  
DL12 8RB

Our Reference: 13-92896

Client Reference:

Contract Title:

Description: 1 misc sample, 1 leachate sample

Date Received: 20 November 2013

Date Started: 20 November 2013

Date Completed: 27 November 2013

Test Procedures: Identified by prefix DETSn (details on request), Asbestos Analysis (DETS 082).

Notes: Observations and interpretations are outside the scope of UKAS accreditation

Approved By:



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.

# Information in Support of the Analytical Results

## **Analysis**

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425um sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28oC +/-2oC.

### **Key**

- \* Denotes test not included in laboratory scope of accreditation
- # Denotes test that holds MCERTS 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

## **Disposal**

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month

Liquids - 2 weeks

Asbestos (test portion) - 6 months

# Summary of Chemical Analysis

## Misc Samples

Our Ref: 13-92896

Client Ref:

Contract Title:

Lab No.	579019
Sample ID	6f5
Depth	
Sample Ref	
Sample Type	
Sampling Date	/ /
Sampling Time	

Test	Units	DETSxx	LOD	
Calorific Value	MJ/kg	DETSC 5008	1	< 1.0
Total Sulphate as SO4	%	DETSC 2321#	0.01	0.16
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10	49

# Summary of Asbestos Analysis

## Soil Samples

Our Ref: 13-92896

Client Ref:

Contract Title:

<b>Lab No</b>	<b>Sample Ref</b>	<b>Material Type*</b>	<b>Result</b>	<b>Comment</b>	<b>Analyst</b>
579019	6f5	Soil	NAD	na	John Woodmansey

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'.

# Summary of Chemical Analysis

## Leachate Samples

Our Ref: 13-92896

Client Ref:

Contract Title:

				Lab No.	578692
				Sample ID	6f5
				Depth	
				Sample Ref	
				Sample Type	
				Sampling Date	/ /
				Sampling Time	
Test	Units	DETSxx	LOD		
NRA Leachate Preparation		DETS 036*			Y
Arsenic, Dissolved	ug/l	DETSC 2306	0.16		0.34
Cadmium, Dissolved	ug/l	DETSC 2306	0.03		< 0.030
Chromium, Dissolved	ug/l	DETSC 2306	0.25		0.40
Chromium III Dissolved	ug/l	DETSC 2302*	5		11
Copper, Dissolved	ug/l	DETSC 2306	0.4		0.56
Lead, Dissolved	ug/l	DETSC 2306	0.09		0.70
Mercury, Dissolved	ug/l	DETSC 2306	0.01		< 0.010
Nickel, Dissolved	ug/l	DETSC 2306	0.5		< 0.50
Selenium, Dissolved	ug/l	DETSC 2306	0.25		< 0.25
Zinc, Dissolved	ug/l	DETSC 2306	1.25		< 1.25
pH		DETSC 2008			9.1
Acenaphthene	ug/l	DETS 074*	0.01		< 0.01
Acenaphthylene	ug/l	DETS 074*	0.01		< 0.01
Anthracene	ug/l	DETS 074*	0.01		0.01
Benzo(a)anthracene	ug/l	DETS 074*	0.01		< 0.01
Benzo(a)pyrene	ug/l	DETS 074*	0.01		< 0.01
Benzo(b)fluoranthene	ug/l	DETS 074*	0.01		< 0.01
Benzo(k)fluoranthene	ug/l	DETS 074*	0.01		< 0.01
Benzo(g,h,i)perylene	ug/l	DETS 074*	0.01		< 0.01
Chrysene	ug/l	DETS 074*	0.01		0.02
Dibenzo(a,h)anthracene	ug/l	DETS 074*	0.01		< 0.01
Fluoranthene	ug/l	DETS 074*	0.01		0.02
Fluorene	ug/l	DETS 074*	0.01		< 0.01
Indeno(1,2,3-c,d)pyrene	ug/l	DETS 074*	0.01		< 0.01
Naphthalene	ug/l	DETS 074*	0.01		< 0.01
Phenanthrene	ug/l	DETS 074*	0.01		0.10
Pyrene	ug/l	DETS 074*	0.01		0.04
PAH	ug/l	DETS 074*	0.2		0.20
C10-C24 Diesel Range Organics (DRO)	ug/l	DETSC 3311	10		260
C24-C40 Lube Oil Range Organics (LORO)	ug/l	DETSC 3311	10		350
EPH (C5-C10)	ug/l	DETSC 3322	10		< 10
Phenol	ug/l	DETS 079*	0.5		< 0.50

# Summary of Chemical Analysis

## Leachate Samples

Our Ref: 13-92896

Client Ref:

Contract Title:

				Lab No.	578692
				Sample ID	6f5
				Depth	
				Sample Ref	
				Sample Type	
				Sampling Date	/ /
				Sampling Time	
Test	Units	DETSxx	LOD		
alpha-BHC	ug/l	DETSC 3442*	1		< 1.0
gamma-BHC (Lindane)	ug/l	DETSC 3442*	1		< 1.0
beta-BHC	ug/l	DETSC 3442*	1		< 1.0
delta-BHC	ug/l	DETSC 3442*	1		< 1.0
Heptachlor	ug/l	DETSC 3442*	1		< 1.0
Aldrin	ug/l	DETSC 3442*	1		< 1.0
Heptachlor epoxide	ug/l	DETSC 3442*	1		< 1.0
gamma-Chlordane	ug/l	DETSC 3442*	1		< 1.0
Endosulphan I	ug/l	DETSC 3442*	1		< 1.0
4,4-DDE	ug/l	DETSC 3442*	1		< 1.0
Dieldrin	ug/l	DETSC 3442*	1		< 1.0
Endrin	ug/l	DETSC 3442*	1		< 1.0
Endosulphan II	ug/l	DETSC 3442*	1		< 1.0
Endrin aldehyde	ug/l	DETSC 3442*	1		< 1.0
4,4-DDT	ug/l	DETSC 3442*	1		< 1.0
Endosulphan sulphate	ug/l	DETSC 3442*	1		< 1.0
Methoxychlor	ug/l	DETSC 3442*	1		< 1.0
Endrin ketone	ug/l	DETSC 3442*	1		< 1.0
Dichlorvos	ug/l	DETSC 3444*	1		< 1.0
Mevinphos	ug/l	DETSC 3444*	1		< 1.0
Demeton-O	ug/l	DETSC 3444*	1		< 1.0
Ethoprop	ug/l	DETSC 3444*	1		< 1.0
Naled	ug/l	DETSC 3444*	1		< 1.0
Phorate	ug/l	DETSC 3444*	1		< 1.0
Demeton-S	ug/l	DETSC 3444*	1		< 1.0
Diazinon	ug/l	DETSC 3444*	1		< 1.0
Disulfoton	ug/l	DETSC 3444*	1		< 1.0
Methylparathion	ug/l	DETSC 3444*	1		< 1.0
Ronnel	ug/l	DETSC 3444*	1		< 1.0
Fenthion	ug/l	DETSC 3444*	1		< 1.0
Chlopyrifos	ug/l	DETSC 3444*	1		< 1.0
Trichlorinate	ug/l	DETSC 3444*	1		< 1.0
Merphos	ug/l	DETSC 3444*	1		< 1.0
Stirofos	ug/l	DETSC 3444*	1		< 1.0
Tokuthion	ug/l	DETSC 3444*	1		< 1.0
Fensulfothion	ug/l	DETSC 3444*	1		< 1.0
Bolstar	ug/l	DETSC 3444*	1		< 1.0
Azinphos methyl	ug/l	DETSC 3444*	1		< 1.0
Coumaphos	ug/l	DETSC 3444*	1		< 1.0

## Sample Comments

DETS cannot be held responsible for the integrity of sample(s) received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating.

Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note "Guidance on Deviating Samples".

All samples received are listed below. However, those samples that have additional comments in relation to hold time and/or inappropriate containers are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations.

If no sampled date (soils) or date/time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters), this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Lab No.	Sample ID	Date Sampled	Containers Received	Deviating due to holding time being exceeded for test(s)	Deviating due to inappropriate container for test(s)	Deviating due to headspace presence in container for test(s)
578692	6f5 LEACHATE		Glass Jar 1 litre (1 litre), Plastic Bag	Sample is deviating (no sampled date supplied)		
579019	6f5 MISC		Glass Jar 1 litre (1 litre), Plastic Bag	Sample is deviating (no sampled date supplied)		