

OCCUPATIONAL HYGIENE AND ENVIRONMENTAL MONITORING LABORATORY  
**TEST REPORT**

**Site:**

**Client:**

**Job Number:** 11

**Report Number:** FD/ 05

**Report Date:** 25/09/2013

Method N°. FD01: The determination of Fugitive Dust Based on BS 872: 2005 (Mass of dust (mg) is the UKAS accredited test.)

Method N°. FD03: The determination of fugitive dust based on BS 2690, part 109 (1984) and BS 6068 : Section 2.35 (1989)

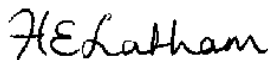
(Volume (l), pH (units) and Conductivity ( $\mu\text{S}\cdot\text{cm}^{-1}$ ) are the UKAS accredited results reported.)

Environmental Scientifics Group Limited is not UKAS accredited for environmental dust gauge sampling.

The dust samples will be retained at the laboratory for a period of 6 months in case extended analysis is required in future. Liquids associated with dust samples are not normally retained at the laboratory.

**Report Comment:**

**Authorised by:**



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Helen Latham, Senior Analyst  
Occupational Hygiene & Environmental Monitoring  
Direct Dial: 01283 554486

**Approved by:**



.....  
N J Fenwick, Technical Manager  
Occupational Hygiene & Environmental Monitoring  
Direct Dial: 01283 554487

Report Number FD/ 053 Job Number 11 ID Number 065  
 Site Description  
 Sample 1  
 Date Received 03/09/2013 Sampling Period 03/08/2013 to 31/08/2013 28 Days

**Method** FD01 **Gauge Type** Frisbee deposit gauge

Dust mass (mg) 632  
 Deposition ( $\text{mg.m}^{-2}\text{d}^{-1}$ ) 568  
 Detection Limit (mg) 0.5 Date Tested 16/09/2013

**Method** FD03

**Result** Volume **LOD** 0.1 **Date Tested** 03/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	2.4	litres	2.4	litres

**Result** pH **LOD** 0.1 **Date Tested** 06/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
pH	6.8	units	6.8	units

**Result** TDS **LOD** 0.5 **Date Tested** 06/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
DS	72	$\mu\text{S.cm}^{-1}$	116.0	mg
Conductivity	72	$\mu\text{S.cm}^{-1}$	104.0	$\text{mg.m}^{-2}\text{d}^{-1}$

Report Number FD/ 053 Job Number 11 ID Number 065  
 Site Description  
 Sample 2  
 Date Received 03/09/2013 Sampling Period 03/08/2013 to 31/08/2013 28 Days

**Method** FD01 **Gauge Type** Frisbee deposit gauge

Dust mass (mg) 76  
 Deposition ( $\text{mg}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$ ) 68  
 Detection Limit (mg) 0.5 Date Tested 16/09/2013

**Method** FD03

**Result** Volume **LOD** 0.1 **Date Tested** 03/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	2.3	litres	2.3	litres

**Result** pH **LOD** 0.1 **Date Tested** 06/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
pH	6.5	units	6.5	units

**Result** TDS **LOD** 0.5 **Date Tested** 06/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
DS	62	$\mu\text{S}\cdot\text{cm}^{-1}$	96.0	mg
Conductivity	62	$\mu\text{S}\cdot\text{cm}^{-1}$	86.0	$\text{mg}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$

Report Number FD/ 053 Job Number 11 ID Number 065  
 Site Description  
 Sample 3  
 Date Received 03/09/2013 Sampling Period 03/08/2013 to 31/08/2013 28 Days

**Method** FD01 **Gauge Type** Frisbee deposit gauge

Dust mass (mg) 95  
 Deposition ( $\text{mg.m}^{-2}\text{d}^{-1}$ ) 85  
 Detection Limit (mg) 0.5 Date Tested 16/09/2013

**Method** FD03

**Result** Volume **LOD** 0.1 **Date Tested** 03/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	2.6	litres	2.6	litres

**Result** pH **LOD** 0.1 **Date Tested** 06/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
pH	6.6	units	6.6	units

**Result** TDS **LOD** 0.5 **Date Tested** 06/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
DS	67	$\mu\text{S.cm}^{-1}$	117.0	mg
Conductivity	67	$\mu\text{S.cm}^{-1}$	105.0	$\text{mg.m}^{-2}\text{d}^{-1}$

Report Number FD/ 05 Job Number 11 ID Number 065  
 Site Description  
 Sample 4  
 Date Received 03/09/2013 Sampling Period 03/08/2013 to 31/08/2013 28 Days

**Method** FD01 **Gauge Type** Frisbee deposit gauge

Dust mass (mg) 67

Deposition ( $\text{mg}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$ ) 60

Detection Limit (mg) 0.5 Date Tested 16/09/2013

**Method** FD03

**Result** Volume **LOD** 0.1 **Date Tested** 03/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	2.7	litres	2.7	litres

**Result** pH **LOD** 0.1 **Date Tested** 06/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
pH	6.6	units	6.6	units

**Result** TDS **LOD** 0.5 **Date Tested** 06/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
DS	49	$\mu\text{S}\cdot\text{cm}^{-1}$	89.0	mg
Conductivity	49	$\mu\text{S}\cdot\text{cm}^{-1}$	80.0	$\text{mg}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$

Report Number FD/ 05 Job Number 11 ID Number 065  
 Site Description  
 Sample 5  
 Date Received 03/09/2013 Sampling Period 03/08/2013 to 31/08/2013 28 Days

**Method** FD01 **Gauge Type** Frisbee deposit gauge

Dust mass (mg) 46  
 Deposition ( $\text{mg}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$ ) 41  
 Detection Limit (mg) 0.5 Date Tested 16/09/2013

**Method** FD03

**Result** Volume **LOD** 0.1 **Date Tested** 03/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
Volume	2.3	litres	2.3	litres

**Result** pH **LOD** 0.1 **Date Tested** 06/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
pH	5.8	units	5.8	units

**Result** TDS **LOD** 0.5 **Date Tested** 06/09/2013

Test / Direction	Measured Value	Units	Reported Result	Units
DS	43	$\mu\text{S}\cdot\text{cm}^{-1}$	66.0	mg
Conductivity	43	$\mu\text{S}\cdot\text{cm}^{-1}$	60.0	$\text{mg}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$

**TEST REPORT**  
**EXAMINATION BY SCANNING ELECTRON**  
**MICROSCOPY-ENERGY DISPERSIVE X-RAY**  
**ANALYSIS (SEM-EDS)**

**Client:**

Mr  
H  
Ltd  
Plant  
W  
G  
E  
D

**Job Number: OHEM 1**

**Report Number: OHEM/1/SEM/0001 (Revision 0)**

**Date Received: 03 September 2013**

**Analysis Completed By: 25 September 2013**

**Date Reported: 25 September 2013**

**Identification of Dust Gauge / Environmental Deposits by SEM-EDS Method Number SEMDG7**

The examination procedure is based on an assessment of fifty individual particles selected at random. The estimated percentage is based on a comparison of the relative number of particles counted in each category.

Environmental Scientifics Group Limited is not UKAS accredited for environmental dust gauge sampling. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.

**Analysed by: D A Cowper  
Senior SEM Analyst**

  
**Authorised By: N J Fenwick, Technical Manager  
Occupational Hygiene & Environmental Monitoring  
Direct Dial: 01 283 554487**

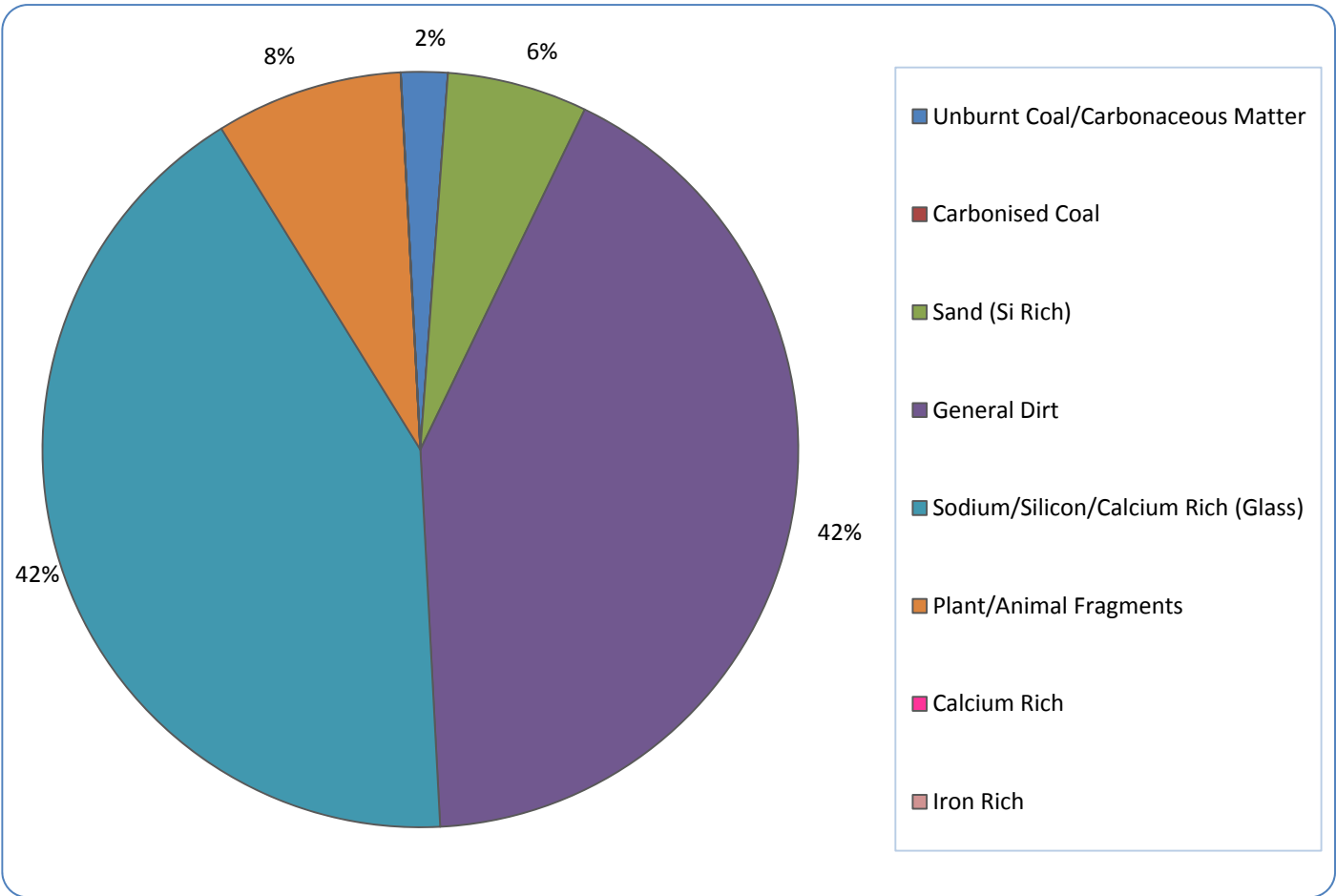
# TEST REPORT

**OCCUPATIONAL HYGIENE & ENVIRONMENTAL MONITORING LABORATORY**

**RESULTS OF SEM-EDS EXAMINATION**

Report Number: OHEM/1/SEM/0001

<b>Location</b>	
<b>Sampling Period</b>	03/08/2013 – 31/08/2013
<b>ESG OHEM LIMS Sample ID Number</b>	06
<b>Date Analysed</b>	25 September 2013





Environmental Dust Monitoring  
Frisbee Deposit Gauge Results Comparison

