



ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens, Broadcut, Fareham
Hampshire. PO16 8SS

Fibre Counting Report



CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141130 FC-12

Your Ref:

SAMPLING PROTOCOL: Personal

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 23/04/18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
6	AP3	SK6	Billy Mastable - Excavator operative - Earthworks	09:48	10:48	3.0	3.0	3.0	180	200	0.5	0.001	<0.026

1. Unless otherwise stated, the detection limit is 0.01 fibres/ml.

2. Comments, observations and opinions are outside the scope of UKAS accreditation.

3. For clearance sampling, this report must be read in conjunction with the certificate of non-occupancy.

4. Samples collected by the client are evaluated using information provided by the client.

5. Fibres were counted on membrane filter(s) in accordance with the HSE Guidance Note HSG 248.

Equipment Numbers:

Microscope: Meji 12

Barometer: BTC-37

Stage Micrometer: WSM21

Thermometer: BTC-37

Tally Counter: 2/US

Flow Meter: FM50

Environment:

Temperature (°C): 15

Pressure (mb): 1013

Correction Factor (F): -

Diam. of dust deposit (D) (mm): 22.5

Test Slide (5 bands): Yes/No

W/B Grate diameter (µm): 100

Blank Filter

Head: SK6

Graticules:

Fibres:

Place of Analysis:

Lab: HY14 DFC

On Site

Mob Lab

Comments

Personal monitoring carried out during excavation of contaminated soil. Air testing to ascertain airborne fibre concentration.

SIGNATURE

(on behalf of Envirochem)

ENVIROCHEM/FORMS/WORKSHEETS/02/ISSUE07/NOV06

PRINT NAME: Stefan Kitchener



ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens
Broadcut, Fareham
Hampshire. PO16 8SS

Ref No: J141130 FC-12

Personal Monitoring Observation Form

Type & Scale of work: Shaping contaminated mound with excavator

Purpose of monitoring: (select all that apply)

Checking effectiveness of methods ☒ Providing data for personal exposure records ☒ Confirming appropriate RPE being worn ☒

General control measures in use: (select all that apply)

Enclosure (under negative pressure) ☐ Partial enclosure ☐ Injection ☐
Gel/Foam ☐ Shadow vacuum ☐ Spraying ☐

Other (Please specify): Soil is wet

Sampling Details:

Operative's Name/job title: Billy Mastable

Type of RPE worn: none

Length of time Operative is / has been exposed: 8 hours approx

Asbestos Product(s) being removed including detail of fixings, size, surface treatment and tools used during works and dust suppression methods being used by operative:

Asbestos is broken within soil, perimeter sprayers off (soil damp), windows closed

General Description of activities being undertaking during sampling:

Moving earth from mound into articulated dumpers with excavator

Is the asbestos in good or bad condition (as per the method statements description): Broken in ground

Other factors which may affect the result (eg approximate size of the enclosure, external location, etc):

Time weighted average (4 Hour TWA) =
$$\frac{(F1 \times T1) + (F2 \times T2) + \dots (Fn \times Tn)}{4}$$
 TWA = NA f/ml

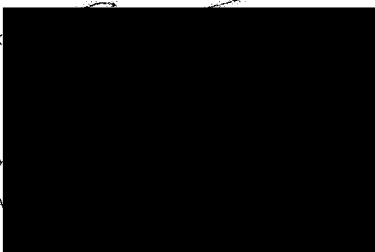
Where F = concentration f/ml

T = Time for that exposure, hours and minutes, 1 hr 30 mins = 1.5

Notes: The sampling period must be sufficient to ensure it is fully representative of the work. Sampling periods should be for 4 hours to access the control limit or for the duration of a specific task for shorter duration activities. A minimum sample time of 10 minutes is required to assess the Short Term Exposure Limit. In general, the client is to specify their requirements depending on previous personal air sampling carried out. All information was collected from the method statement or / and the site contact and this information is deemed as accurate / correct for the purpose of this report.

Analyst: Stefan Kitchener

Signature:



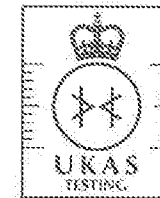


ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens, Broadcut, Fareham
Hampshire. PO16 8SS

Fibre Counting Report



1222

CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141127 FC-12

Your Ref:

SAMPLING PROTOCOL: Personal

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 23/04/18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
12	AP3	SK6	Michael Pronger - Bulldozer operative	12:01	13:03	3.0	3.0	3.0	189	200	0.5	0.001	<0.026

1. Unless otherwise stated, the detection limit is 0.01 fibres/ml.

2. Comments, observations and opinions are outside the scope of UKAS accreditation.

3. For clearance sampling, this report must be read in conjunction with the certificate of non-occupancy.

4. Samples collected by the client are evaluated using information provided by the client.

5. Fibres were counted on membrane filter(s) in accordance with the HSE Guidance Note HSG 248.

Equipment Numbers:

Microscope: Meji 12

Barometer: BTC-37

Stage Micrometer: WSM21

Thermometer: BTC-37

Tally Counter: 2/US

Flow Meter: FM50

Environment:

Temperature (°C): 15

Pressure (mb): 1013

Correction Factor (F): -

Diam. of dust deposit (D) (mm): 22.5

Test Slide (5 bands): Yes/No

W/B Grate diameter (µm): 100

Blank Filter

Head: SK7

Graticules:

Fibres:

Place of Analysis:

Lab: HY14 DFC

On Site

Mob Lab

Comments

Personal monitoring carried out during excavation of contaminated soil. Air testing to ascertain airborne fibre concentration.

SIGNATURE:

(on behalf of Envirochem)

ENVIROCHEM/FORMS/WORKSHEETS/02/ISSUE07/NOV06

PRINT NAME: Stefan Kitchener



ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens
Broadcut, Fareham
Hampshire. PO16 8SS

Ref No: J141130 FC-12

Personal Monitoring Observation Form

Type & Scale of work:	Bulldozing contaminated mound to shape surface		
Purpose of monitoring: (select all that apply)			
Checking effectiveness of methods	☒	Providing data for personal exposure records	☒
		Confirming appropriate RPE being worn	☐
General control measures in use: (select all that apply)			
Enclosure (under negative pressure)	☐	Partial enclosure	☐
Gel/Foam	☐	Shadow vacuum	☐
Other (Please specify):	Soil is wet		
Injection ☐			
Spraying ☐			
Sampling Details:			
Operative's Name/job title: Michael Pronger - Bulldozer operative			
Type of RPE worn: none			
Length of time Operative is / has been exposed: 8 hours appox			
Asbestos Product(s) being removed including detail of fixings, size, surface treatment and tools used during works and dust suppression methods being used by operative:			
Broken asbestos within soil, Windows will be closed during works			
General Description of activities being undertaking during sampling:			
Sculpting surface of contaminated mound			
Is the asbestos in good or bad condition (as per the method statements description): Broken in ground			
Other factors which may affect the result (eg approximate size of the enclosure, external location, etc):			
$\text{Time weighted average (4 Hour TWA)} = \frac{(F1 \times T1) + (F2 \times T2) + \dots (Fn \times Tn)}{4}$			
TWA = NA f/ml			
Where F = concentration f/ml			
T = Time for that exposure, hours and minutes, 1 hr 30 mins = 1.5			
Notes: The sampling period must be sufficient to ensure it is fully representative of the work. Sampling periods should be for 4 hours to access the control limit or for the duration of a specific task for shorter duration activities. A minimum sample time of 10 minutes is required to assess the Short Term Exposure Limit. In general, the client is to specify their requirements depending on previous personal air sampling carried out. All information was collected from the method statement or / and the site contact and this information is deemed as accurate / correct for the purpose of this report.			

Analyst: Stefan Kitchener

Signature

ENVIROCHEM

ARUN DISTRICT COUNCIL

FILL Depth Bands		
Band 1	0.00 -	0.50
Band 2	0.50 -	1.00
Band 3	1.00 -	1.50
Band 4	1.50 -	2.00
Band 5	2.00 -	2.50
Band 6	2.50 -	3.00
Band 7	3.00 -	3.50
Band 8	3.50 -	4.00



J141130 FC-12 - 23:04:18 - Sample location plan

Notes

The volumes provided are an approximation only and are based on the current design levels. The volumes given below should be used with caution.

1. Cut & Fill

Total contaminated material sources

Contaminated bund = 9470m³
Phase 1.0m Strip = 4085m³
Sound Barrier Cut = 490m³ (135m²+355m²)
Front Bund = 1065m³

Total = 15110m³

KEY PLAN

Notes

1.) It is assumed that any cut material can be reused on site as an engineered fill material. It is likely that material from site will need to be conditioned in terms of their moisture content to ensure they can be adequately compacted within proposed earthworks.

2.) The volume provided are an approximation only on the current design levels. The volumes given below should be used with caution.



REVISIONS				
Rev	Date	Description	By	Chk. App.
POL: 10/11/17 First Issue				
SM D3 D6				

HYDROCK
OVERSEAS
ALMONDSBURY
BRISTOL
BS42 4DF
E: info@hydrock.co.uk
t: 01454 321111

CLIENT
CALA HOMES

PURPOSE
ANGMERING
REMEDIATION

TITLE
EARTHWORK STRATEGY -
CONTAMINATED SOURCES

HYDROCK PROJECT CODE
C-06279-C

SCALE @ A1
AS SHOWN

STATUS DESCRIPTION
CONSTRUCTION

STATUS
S2

DRAWING NO. PROJECT CODE ORIGINATOR'S DESIGN LEVEL TYPE NO. NUMBER
WEA-HYD-XX-XX-DR-C-2400

REVISION
P01



ENVIROCHEM

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Hampshire. PO16 8SS

Fibre Counting Report



CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141131 FC-12

Your Ref:

SAMPLING PROTOCOL: Reassurance

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 24/04/18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
1	ENV24	SK1	Northerly perimeter of smaller mound (approx 10m away)	09:37	10:37	8.0	8.0	8.0	480	200	1.5	0.001	<0.01
2	A4	SK2	Easterly perimeter of main mound (approx 5m away)	09:44	10:44	8.0	8.0	8.0	480	200	1.0	0.001	<0.01
3	ENV42	SK3	South-easterly perimeter of main mound (approx 40m away, Along site perimeter fence)	09:45	10:45	8.0	8.0	8.0	480	200	1.0	0.001	<0.01
4	ABC	SK4	Southerly perimeter of main mound (approx 50m away, Along site perimeter fence)	09:48	10:48	8.0	8.0	8.0	480	200	0.5	0.001	<0.01
5	PO2	SK5	Westerly perimeter of main mound (approx 20m away, on construction site)	09:51	10:51	8.0	8.0	8.0	480	200	0.5	0.001	<0.01
7	ENV24	SK1	Northerly perimeter of smaller mound (approx 10m away)	11:34	12:34	8.0	8.0	8.0	480	200	0.5	0.001	<0.01

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2. Samples collected by the client are evaluated using information provided by the client.

4. Fibres were counted on membrane filter(s) in accordance with the HSE Guidance Note HSG 248.

Equipment Numbers:

Microscope: Meji 12

Barometer: BTC-37

Stage Micrometer: WSM-21

Thermometer: BTC-37

Tally Counter: 8/US

Flow Meter: FM45

Environment:

Temperature (°C): 15

Pressure (mb): 1015

Correction Factor (F): -

Diam. of dust deposit (D) (mm): 22.5

Test Slide (5 bands): Yes/No

W/B Grate diameter (µm): 100

Blank Filter

Head: SK7

Graticules:

Fibres:

Place of Analysis:

Lab HY14 DFC

On Site

Mod Lab

Comments

For exact sample locations see plan on back page. Reassurance air testing carried out in various locations during excavation of asbestos contaminated earth. Air testing to ascertain airborne fibre concentration. Results satisfactory.

SIGNATURE
(on behalf of)

PRINT NAME: Stefan Kitchener



ENVIROCHEM

Analytical Laboratories Ltd

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Fibre Counting Report



CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141131 FC-12

Your Ref:

SAMPLING PROTOCOL: Reassurance

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 24:04:18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
8	A4	SK2	Easterly perimeter of main mound (approx 5m away)	11:40	12:40	8.0	8.0	8.0	480	200	1.5	0.001	<0.01
9	ENV42	SK3	South-easterly perimeter of main mound (approx 40m away)	11:42	12:42	8.0	8.0	8.0	480	200	2.0	0.001	<0.01
10	ABC	SK4	Southerly perimeter of main mound (approx 50m away)	11:44	12:44	8.0	8.0	8.0	480	200	2.0	0.001	<0.01
11	PO2	SK5	Westerly perimeter of main mound (approx 20m away, on construction site)	11:47	12:47	8.0	8.0	8.0	480	200	1.0	0.001	<0.01

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4. Fibres were counted on membrane filter(s) in accordance with the HSE Guidance Note HSG 248.

Equipment Numbers:

Microscope: Meji 12

Stage Micrometer: WSM-21

Tally Counter: 8/US

Barometer: BTC-37

Thermometer: BTC-37

Flow Meter: FM45

Environment:

Temperature (°C): 15

Pressure (mb): 1015

Correction Factor (F): -

Diam. of dust deposit (D) (mm): 22.5

Test Slide (5 bands): Yes/No

W/B Grate diameter (µm): 100

Blank Filter

Head: SK7

Graticules:

Fibres:

Place of Analysis:

Lab HY14 DFC

On Site

Not Lab

Comments

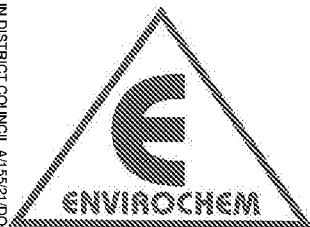
For exact sample locations see plan on back page. Reassurance air testing carried out in various locations during excavation of asbestos contaminated earth. Air testing to ascertain airborne fibre concentration. Results satisfactory.

SIGNATURE:

(on behalf of Envirochem by an authorised signatory)

ENVIROCHEM/FORMS/WORKSHEETS/02/ISSUE07/NOV06

PRINT NAME: Stefan Kitchener

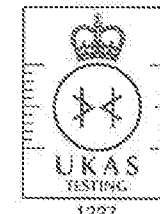


ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens, Broadcut, Fareham
Hampshire. PO16 8SS

Fibre Counting Report



CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141131 FC-12

Your Ref:

SAMPLING PROTOCOL: Personal

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 24/04/18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
6	AP3	SK6	Roman Hodoss - Excavator operative - Earthworks	09:47	10:48	3.0	3.0	3.0	183	200	3.0	0.004	<0.026

1. Unless otherwise stated, the detection limit is 0.01 fibres/ml.

3. Comments, observations and opinions are outside the scope of UKAS accreditation.

5. For clearance sampling, this report must be read in conjunction with the certificate of reoccupation.

2. Samples collected by the client are evaluated using information provided by the client.

4. Fibres were counted on membrane filter(s) in accordance with the HSE Guidance Note HSG 248.

Equipment Numbers:

Microscope: Meji 12

Stage Micrometer: WSM21

Tally Counter: 8/US

Barometer: BTC-37

Thermometer: BTC-37

Flow Meter: FM50

Environment:

Temperature (°C): 15

Pressure (mb): 1015

Correction Factor (F): -

Diam. of dust deposit (D) (mm): 22.5

Test Slide (5 bands): Yes/No

W/B Grat diameter (µm): 100

Blank Filter

Head: SK6

Graticules:

Fibres:

Place of Analysis:

Lab HY14 DFC

On Site

Mob Lab

Comments

Personal monitoring carried out during excavation of contaminated soil. Air testing to ascertain airborne fibre concentration.

SIGNATURE
(on behalf of Envirochem)
ENVIROCHEM

PRINT NAME: Stefan Kitchener

ISSUE07/NOV06



ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens
Broadcut, Fareham
Hampshire. PO16 8SS

Ref No: J141131 FC-12

Personal Monitoring Observation Form

Type & Scale of work: Loading moxy with potentially contaminated earth (SE side of mound)

Purpose of monitoring: (select all that apply)

Checking effectiveness of methods ☒ Providing data for personal exposure records ☒ Confirming appropriate RPE being worn ☒

General control measures in use: (select all that apply)

Enclosure (under negative pressure) ☐ Partial enclosure ☐ Injection ☐
Gel/Foam ☐ Shadow vacuum ☐ Spraying ☐

Other (Please specify): Soil is wet

Sampling Details:

Operative's Name/job title: Roman Hodoss - Excavator operative - Earthworks

Type of RPE worn: none

Length of time Operative is / has been exposed: 8 hours appox

Asbestos Product(s) being removed including detail of fixings, size, surface treatment and tools used during works and dust suppression methods being used by operative:

Asbestos is broken within soil, perimeter sprayers off (soil damp), windows closed

General Description of activities being undertaking during sampling:

Moving earth from surface of remedated area to south east of mound onto moxy

Is the asbestos in good or bad condition (as per the method statements description): Broken in ground

Other factors which may affect the result (eg approximate size of the enclosure, external location, etc):

Time weighted average (4 Hour TWA) =
$$\frac{(F1 \times T1) + (F2 \times T2) + \dots (Fn \times Tn)}{4}$$
 TWA = NA f/ml

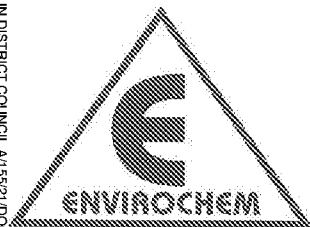
Where F = concentration f/ml

T = Time for that exposure, hours and minutes, 1 hr 30 mins = 1.5

Notes: The sampling period must be sufficient to ensure it is fully representative of the work. Sampling periods should be for 4 hours to access the control limit or for the duration of a specific task for shorter duration activities. A minimum sample time of 10 minutes is required to assess the Short Term Exposure Limit. In general, the client is to specify their requirements depending on previous personal air sampling carried out. All information was collected from the method statement or / and the site contact and this information is deemed as accurate / correct for the purpose of this report.

Analyst: Stefan Kitchener

Signature



ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens, Broadcut, Fareham
Hampshire. PO16 8SS

Fibre Counting Report



CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141131 FC-12

Your Ref:

SAMPLING PROTOCOL: Personal

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 24/04/18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
12	AP3	SK6	Adreas Dunaikis - Earthworks - Moxy operative	11:42	13:00	3.0	3.0	3.0	234	200	3.5	0.004	<0.021

1. Unless otherwise stated, the detection limit is 0.01 fibres/ml.

3. Comments, observations and opinions are outside the scope of UKAS accreditation.

5. For clearance sampling, this report must be read in conjunction with the certificate of reoccupation.

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Equipment Numbers:

Microscope: Meji 12

Stage Micrometer: WSM21

Tally Counter: 2/US

Barometer: BTC-37

Thermometer: BTC-37

Flow Meter: FM50

Environment:

Temperature (°C): 15

Pressure (mb): 1015

Correction Factor (F): -

Diam. of dust deposit (D) (mm): 22.5

Test Slide (5 bands): Yes/No

W/B Grate diameter (µm): 100

Blank Filter

Head: SK7

Graticules:

Fibres:

Place of Analysis:

Lab HY14 DFC

On Site

Mob Lab

Comments

Personal monitoring carried out during excavation of contaminated soil. Air testing to ascertain airborne fibre concentration.

SIGNATURE

(on behalf of Envirochem Ltd by authorised signatory)

ENVIROCHEM/FORMS/WORKSHEETS/02/ISSUE07/NOV06

PRINT NAME: Stefan Kitchener



ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens
Broadcut, Fareham
Hampshire. PO16 8SS

Ref No: J141131 FC-12

Personal Monitoring Observation Form

Type & Scale of work: Moving contaminated earth from clearing to main mound

Purpose of monitoring: (select all that apply)

Checking effectiveness of methods ☒ Providing data for personal exposure records ☒ Confirming appropriate RPE being worn ☐

General control measures in use: (select all that apply)

Enclosure (under negative pressure) ☐ Partial enclosure ☐ Injection ☐
Gel/Foam ☐ Shadow vacuum ☐ Spraying ☐
Other (Please specify): Soil is wet

Sampling Details:

Operative's Name/job title: Andreas Dunaikis - Earthworks - Moxy operative
Type of RPE worn: none
Length of time Operative is / has been exposed: 8 hours approx

Asbestos Product(s) being removed including detail of fixings, size, surface treatment and tools used during works and dust suppression methods being used by operative:
Broken asbestos within soil, Windows will be closed during works

General Description of activities being undertaking during sampling:
Moving earth from clearing next to mound to top of mound

Is the asbestos in good or bad condition (as per the method statements description): Broken in ground

Other factors which may affect the result (eg approximate size of the enclosure, external location, etc):

Time weighted average (4 Hour TWA) =
$$\frac{(F_1 \times T_1) + (F_2 \times T_2) + \dots (F_n \times T_n)}{4}$$
 TWA = NA f/ml

Where F = concentration f/ml
T = Time for that exposure, hours and minutes, 1 hr 30 mins = 1.5

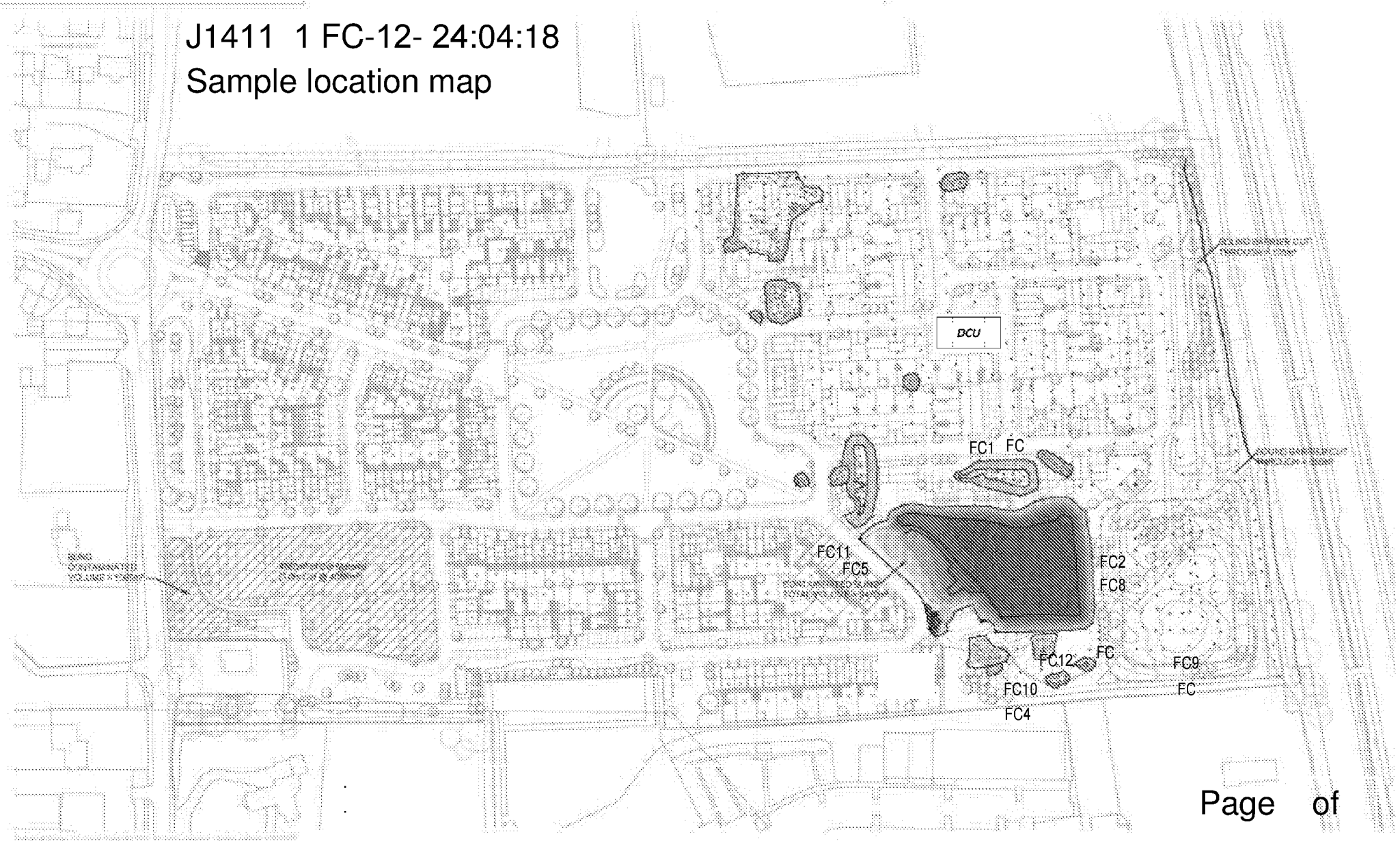
Notes: The sampling period must be sufficient to ensure it is fully representative of the work. Sampling periods should be for 4 hours to access the control limit or for the duration of a specific task for shorter duration activities. A minimum sample time of 10 minutes is required to assess the Short Term Exposure Limit. In general, the client is to specify their requirements depending on previous personal air sampling carried out. All information was collected from the method statement or / and the site contact and this information is deemed as accurate / correct for the purpose of this report.

Analyst: Stefan Kitchener

Signature:

J1411 1 FC-12- 24:04:18

Sample location map





ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens, Broadcut, Fareham
Hampshire. PO16 8SS

Fibre Counting Report



CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141132 FC-11

Your Ref:

SAMPLING PROTOCOL: Reassurance

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 25.04.18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
1	ENV24	SK1	Northerly perimeter of smaller mound (approx 10m away)	09:19	10:19	8.0	8.0	8.0	480	200	3.0	0.002	<0.01
2	A4	SK2	Easterly perimeter of main mound (approx 5m away)	09:24	10:24	8.0	8.0	8.0	480	200	1.0	0.001	<0.01
3	ENV42	SK3	South-easterly perimeter of main mound (approx 40m away, Along site perimeter fence)	09:25	10:25	8.0	8.0	8.0	480	200	3.5	0.002	<0.01
4	ABC	SK4	Southerly perimeter of main mound (approx 50m away, Along site perimeter fence)	09:26	10:26	8.0	8.0	8.0	480	200	2.0	0.001	<0.01
5	PO2	SK5	Westerly perimeter of main mound (approx 20m away, on construction site)	09:29	10:29	8.0	8.0	8.0	480	200	2.0	0.001	<0.01

1. Unless otherwise stated, the detection limit is 0.01 fibres/ml.

3. Comments, observations and opinions are outside the scope of UKAS accreditation.

5. For clearance sampling, this report must be read in conjunction with the certificate of reoccupation.

2. Samples collected by the client are evaluated using information provided by the client.

4. Fibres were counted on membrane filter(s) in accordance with the HSE Guidance Note HSG 248.

Equipment Numbers:

Microscope: Meji 12

Stage Micrometer: WSM-21

Tally Counter: 8/US

Barometer: BTC-37

Thermometer: BTC-37

Flow Meter: FM45

Environment:

Temperature (°C): 15

Pressure (mb): 1013

Correction Factor (F): -

Diam. of dust deposit (D) (mm): 22.5

Test Slide (5 bands): Yes/No

W/B Grat diameter (µm): 100

Blank Filter

Head: SK7

Graticules:

Fibres:

Place of Analysis:

Lab HY14 DFC

On Site

Not Lab

Comments

For exact sample locations see plan on back page. Reassurance air testing carried out in various locations during excavation of asbestos contaminated earth. Air testing to ascertain airborne fibre concentration. Results satisfactory.

SIGNATURE

(on behalf of)

ENVIROCHEM

PRINT NAME: Stefan Kitchener

07/NOV06

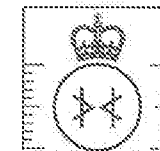


ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens, Broadcut, Fareham
Hampshire. PO16 8SS

Fibre Counting Report



CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141132 FC-11

Your Ref:

SAMPLING PROTOCOL: Reassurance

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 25:04:18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
7	ENV24	SK1	Project building, Shower room	12:02	12:32	16.0	16.0	16.0	480	200	3.5	0.002	<0.01
8	A4	SK2	Project building, Main corridor	12:02	12:32	16.0	16.0	16.0	480	200	3.0	0.002	<0.01
9	ENV42	SK3	Project building, 2x Office	12:03	12:33	16.0	16.0	16.0	480	200	1.5	0.001	<0.01
10	ABC	SK4	Project building, Meeting room	12:03	12:33	16.0	16.0	16.0	480	200	1.5	0.001	<0.01
11	PO5	SK5	Project building, Induction room	12:04	12:34	16.0	16.0	16.0	480	200	5.0	0.003	<0.01

1. Unless otherwise stated, the detection limit is 0.01 fibres/ml.

3. Comments, observations and opinions are outside the scope of UKAS accreditation.

5. For clearance sampling, this report must be read in conjunction with the certificate of re-occupation.

2. Samples collected by the client are evaluated using information provided by the client.

4. Fibres were counted on membrane filter(s) in accordance with the HSE Guidance Note HSG 248.

Equipment Numbers:

Microscope: Meji 12

Stage Micrometer: WSM-21

Tally Counter: 8/US

Barometer: BTC-37

Thermometer: BTC-37

Flow Meter: FM45

Environment:

Temperature (°C): 15

Pressure (mb): 1013

Correction Factor (F): -

Diam. of dust deposit (D) (mm): 22.5

Test Slide (5 bands): Yes/No

W/B Grate diameter (µm): 100

Blank Filter

Head: SK7

Graticules:

Fibres:

Place of Analysis:

Lab HY14 DFC

On Site

Mod Lab

Comments

Reassurance air testing carried out following intrusive asbestos survey. Air testing to ascertain airborne fibre concentration. Results satisfactory.

SIGNATURE
(on behalf of Envirochem by an authorised signatory)

PRINT NAME: Stefan Kitchener

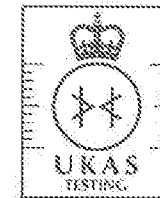


ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens, Broadcut, Fareham
Hampshire. PO16 8SS

Fibre Counting Report



CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141132 FC-11

Your Ref:

SAMPLING PROTOCOL: Personal

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 25/04/18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
6	AP3	SK6	Michael Pronger - Bulldozer operative - Earthworks	09:26	10:28	3.0	3.0	3.0	186	200	0.5	0.001	<0.026

1. Unless otherwise stated, the detection limit is 0.01 fibres/ml.

2. Comments, observations and opinions are outside the scope of UKAS accreditation.

3. For clearance sampling, this report must be read in conjunction with the certificate of non-occupancy.

4. Samples collected by the client are evaluated using information provided by the client.

5. Fibres were counted on membrane filter(s) in accordance with the HSE Guidance Note HSG 248.

Equipment Numbers:

Microscope: Meji 12

Barometer: BTC-37

Stage Micrometer: WSM21

Thermometer: BTC-37

Tally Counter: 2/US

Flow Meter: FM50

Environment:

Temperature (°C): 15

Pressure (mb): 1013

Correction Factor (F): -

Diam. of dust deposit (D) (mm): 22.5

Test Slide (5 bands): Yes/No

W/B Grate diameter (µm): 100

Blank Filter

Head: SK7

Graticules:

Fibres:

Place of Analysis:

Lab: HY14 DFC

On Site

Mob Lab

Comments

Personal monitoring carried out during excavation of contaminated soil. Air testing to ascertain airborne fibre concentration.

SIGNATURE

(on behalf of)

ENVIROCHEM/FORMS/WORKSHEETS/02/ISSUE07/NOV06

PRINT NAME: Stefan Kitchener



ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens
Broadcut, Fareham
Hampshire. PO16 8SS

Ref No: J141132 FC-11

Personal Monitoring Observation Form

Type & Scale of work: Scraping surface of clearing next to contaminated mound onto mound

Purpose of monitoring: (select all that apply)

Checking effectiveness of methods ☒ Providing data for personal exposure records ☒ Confirming appropriate RPE being worn ☒

General control measures in use: (select all that apply)

Enclosure (under negative pressure) ☐ Partial enclosure ☐ Injection ☐
Gel/Foam ☐ Shadow vacuum ☐ Spraying ☐

Other (Please specify): Soil is wet

Sampling Details:

Operative's Name/job title: Michael Pronger - Bulldozer operative - Earthworks

Type of RPE worn: none

Length of time Operative is / has been exposed: 8 hours appox

Asbestos Product(s) being removed including detail of fixings, size, surface treatment and tools used during works and dust suppression methods being used by operative:

Asbestos is broken within soil, perimeter sprayers off (soil damp), windows closed

General Description of activities being undertaking during sampling:

Moving earth from surface of remedated area to contaminated mound

Is the asbestos in good or bad condition (as per the method statements description): Broken in ground

Other factors which may affect the result (eg approximate size of the enclosure, external location, etc):

Time weighted average (4 Hour TWA) =
$$\frac{(F1 \times T1) + (F2 \times T2) + \dots (Fn \times Tn)}{4}$$
 TWA = NA f/ml

Where F = concentration f/ml
T = Time for that exposure, hours and minutes, 1 hr 30 mins = 1.5

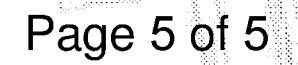
Notes: The sampling period must be sufficient to ensure it is fully representative of the work. Sampling periods should be for 4 hours to access the control limit or for the duration of a specific task for shorter duration activities. A minimum sample time of 10 minutes is required to assess the Short Term Exposure Limit. In general, the client is to specify their requirements depending on previous personal air sampling carried out. All information was collected from the method statement or / and the site contact and this information is deemed as accurate / correct for the purpose of this report.

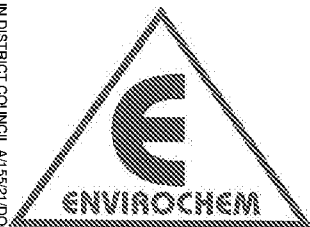
Analyst: Stefan Kitchener

Signature

ENVIROCHEM

ARUN DISTRICT COUNCIL



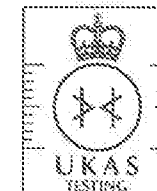


ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens, Broadcut, Fareham
Hampshire. PO16 8SS

Fibre Counting Report



CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141133 FC-12

Your Ref:

SAMPLING PROTOCOL: Reassurance

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 26.04.18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
1	ENV24	SK1	Northerly perimeter of smaller mound (approx 10m away)	09:36	10:36	8.0	8.0	8.0	480	200	1.5	0.001	<0.01
2	A4	SK2	Easterly perimeter of main mound (approx 5m away)	09:39	10:39	8.0	8.0	8.0	480	200	1.5	0.001	<0.01
3	ENV42	SK3	South-easterly perimeter of main mound (approx 40m away, Along site perimeter fence)	09:41	10:41	8.0	8.0	8.0	480	200	1.0	0.001	<0.01
4	ABC	SK4	Southerly perimeter of main mound (approx 50m away, Along site perimeter fence)	09:42	10:42	8.0	8.0	8.0	480	200	1.5	0.001	<0.01
5	PO2	SK5	Westerly perimeter of main mound (approx 20m away, on construction site)	09:32	10:32	8.0	8.0	8.0	480	200	2.0	0.001	<0.01
6	ENV24	SK1	Northerly perimeter of smaller mound (approx 10m away)	11:20	12:20	8.0	8.0	8.0	480	200	1.0	0.001	<0.01

1. Unless otherwise stated, the detection limit is 0.01 fibres/ml.

3. Comments, observations and opinions are outside the scope of UKAS accreditation.

5. For clearance sampling, this report must be read in conjunction with the certificate of reoccupation.

2. Samples collected by the client are evaluated using information provided by the client.

4. Fibres were counted on membrane filter(s) in accordance with the HSE Guidance Note HSG 248.

Equipment Numbers:

Microscope: Meji 12

Stage Micrometer: WSM-21

Tally Counter: 8/US

Barometer: BTC-37

Thermometer: BTC-37

Flow Meter: FM45

Environment:

Temperature (°C): 16

Pressure (mb): 1017

Correction Factor (F): -

Diam. of dust deposit (D) (mm): 22.5

Test Slide (5 bands): Yes/No

W/B Grate diameter (µm): 100

Blank Filter

Head: SK7

Graticules:

Fibres:

Place of Analysis:

Lab HY14 DFC

On Site

Mod Lab

Comments

For exact sample locations see plan on back page. Reassurance air testing carried out in various locations around asbestos contaminated earth. Air testing to ascertain airborne fibre concentration. Results satisfactory.

SIGNATURE:

(on behalf of Envirochem by an authorised signatory)

ENVIROCHEM/FORMS/WORKSHEETS/02/ISSUE07/NOV06

PRINT NAME: Stefan Kitchener



ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens, Broadcut, Fareham
Hampshire. PO16 8SS

Fibre Counting Report



CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141133 FC-12

Your Ref:

SAMPLING PROTOCOL: Reassurance

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 26:04:18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
7	A4	SK2	Easterly perimeter of main mound (approx 5m away)	11:23	12:23	8.0	8.0	8.0	480	200	2.5	0.001	<0.01
8	ENV42	SK3	South-easterly perimeter of main mound (approx 40m away, Along site perimeter fence)	11:24	12:24	8.0	8.0	8.0	480	200	2.0	0.001	<0.01
9	ABC	SK4	Southerly perimeter of main mound (approx 50m away, Along site perimeter fence)	11:25	12:25	8.0	8.0	8.0	480	200	1.0	0.001	<0.01
10	PO2	SK5	Westerly perimeter of main mound (approx 20m away, on construction site)	11:26	12:26	8.0	8.0	8.0	480	200	2.0	0.001	<0.01
11	A4	SK1	Southerly perimeter of main mound (approx 50m away, adjacent footpath)	13:07	14:07	8.0	8.0	8.0	480	200	0.5	0.001	<0.01
12	ENV42	SK2	South-westerly perimeter of main mound (approx 60m away, adjacent footpath and fence)	13:08	14:08	8.0	8.0	8.0	480	200	0.5	0.001	<0.01

1. Unless otherwise stated, the detection limit is 0.01 fibres/ml.

3. Comments, observations and opinions are outside the scope of UKAS accreditation.

5. For clearance sampling, this report must be read in conjunction with the certificate of reoccupation.

2. Samples collected by the client are evaluated using information provided by the client.

4. Fibres were counted on membrane filter(s) in accordance with the HSE Guidance Note HSG 248.

Equipment Numbers:

Microscope: Meji 12

Stage Micrometer: WSM-21

Tally Counter: 8/US

Barometer: BTC-37

Thermometer: BTC-37

Flow Meter: FM45

Environment:

Temperature (°C): 16

Pressure (mb): 1017

Correction Factor (F): -

Diam. of dust deposit (D) (mm): 22.5

Test Slide (5 bands): Yes/No

W/B Grate diameter (µm): 100

Blank Filter

Head: SK7

Graticules:

Fibres:

Place of Analysis:

Lab HY14 DFC

On Site

Mod Lab

Comments

For exact sample locations see plan on back page. Reassurance air testing carried out in various locations around asbestos contaminated earth. Air testing to ascertain airborne fibre concentration. Results satisfactory.

SIGNATURE

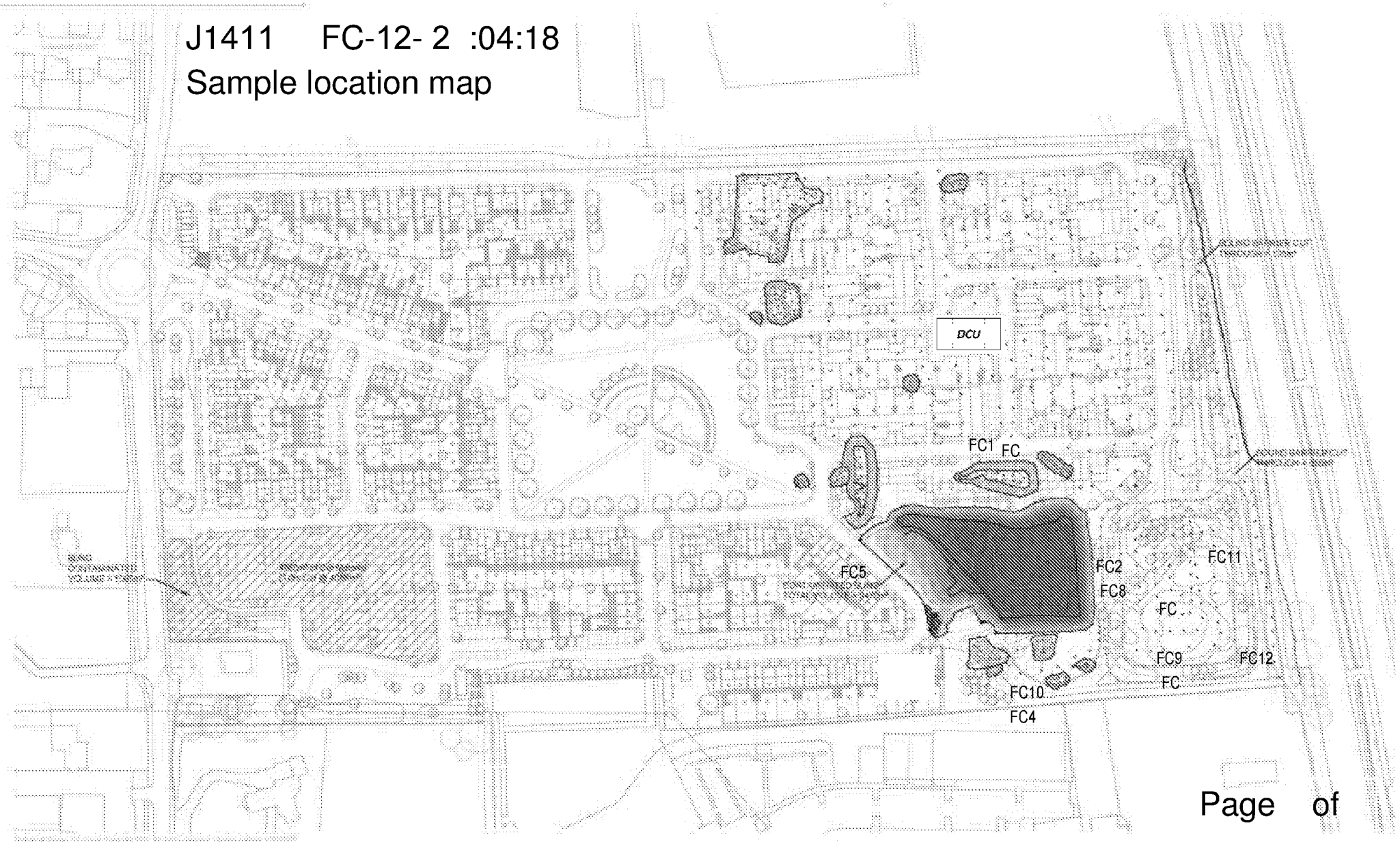
(on behalf of Envirochem)

ENVIROCHEM/FORMS/WORKSHEETS/02/ISSUE07/NOV06

PRINT NAME: Stefan Kitchener

J1411 FC-12- 2 :04:18

Sample location map



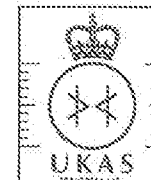


ENVIROCHEM

Analytical Laboratories Ltd

12 The Gardens, Broadcut, Fareham
Hampshire. PO16 8SS

Fibre Counting Report



CLIENT: Blaze Construction

SITE ADDRESS: West End Nursery, Roundstone Lane, Angmering, Littlehampton BN16 4AX

Our Ref: J141134 FC-12

Your Ref:

SAMPLING PROTOCOL: Reassurance

SAMPLED BY: Stefan Kitchener

ANALYSED BY (if different):

DATE OF SAMPLING: 27/04/18

DATE OF ANALYSIS (if different):

Filter No.	Pump	Head	Location	Time on	Time off	Flow (litres/min)			Volume (V) litres	Grats (n)	Fibres (N)	Calculation fibres/ml	Reported result fibres/ml
						Flow (start)	Flow (finish)	Flow (used)					
1	ENV24	SK1	Northerly perimeter of smaller mound (approx 10m away)	09:16	10:16	8.0	8.0	8.0	480	200	1.0	0.001	<0.01
2	A4	SK2	Easterly perimeter of main mound (approx 5m away)	09:18	10:18	8.0	8.0	8.0	480	200	1.0	0.001	<0.01
3	ENV42	SK3	South-easterly perimeter of main mound (approx 40m away, Along site perimeter fence)	09:20	10:20	8.0	8.0	8.0	480	200	3.0	0.002	<0.01
4	ABC	SK4	Southerly perimeter of main mound (approx 50m away, Along site perimeter fence)	09:21	10:21	8.0	8.0	8.0	480	200	0.5	0.001	<0.01
5	PO2	SK5	Westerly perimeter of main mound (approx 20m away, on construction site)	09:27	10:27	8.0	8.0	8.0	480	200	1.5	0.001	<0.01
6	ENV24	SK1	Northerly perimeter of smaller mound (approx 10m away)	11:06	12:06	8.0	8.0	8.0	480	200	0.5	0.001	<0.01

1. Unless otherwise stated, the detection limit is 0.01 fibres/ml.

3. Comments, observations and opinions are outside the scope of UKAS accreditation.

5. For clearance sampling, this report must be read in conjunction with the certificate of reoccupation.

2. Samples collected by the client are evaluated using information provided by the client.

4. Fibres were counted on membrane filter(s) in accordance with the HSE Guidance Note HSG 248.

Equipment Numbers:

Microscope: Meji 12
Stage Micrometer: WSM-21
Tally Counter: 2/US

Barometer: BTC-37
Thermometer: BTC-37
Flow Meter: FM45

Environment:

Temperature (°C): 11
Pressure (mb): 1007
Correction Factor (F): -

Blank Filter

Head: SK7
Graticules:
Fibres:

Place of Analysis:

Lab HY14 DFC
On Site
Mob Lab

Comments For exact sample locations see plan on back page. Reassurance air testing carried out in various locations around asbestos contaminated earth. Air testing to ascertain airborne fibre concentration. Results satisfactory.

SIGNATURE:

(on behalf of Envirochem)

ENVIROCHEM/

/NOV06

PRINT NAME: Stefan Kitchener