



Our Ref: J107147 FI: 16
Your Ref: .
Date: 13/09/2016

ENVIROCHEM
Analytical Laboratories Ltd.
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PO16 8SS



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DEMOLITION ASBESTOS SURVEY
OF
BUILDING 88,
HMS DAEDALUS,
BROOM WAY,
LEE ON SOLENT,
HAMPSHIRE
PO13 9YA
ON BEHALF OF
HOMES & COMMUNITIES AGENCY

DISCLAIMER

Envirochem completed this survey on the basis of a specified program of work and terms and conditions agreed with the Client. All reasonable skill and care, bearing in mind the project objectives and the agreed scope of work, have been exercised during the preparation of this survey report.

Following the issue of this survey report, responsibility to any parties for any matters arising, which may be considered outside of the agreed scope of work, will not be accepted by Envirochem.

This survey report is confidential. Envirochem will accept liability to no parties with the exception of the Client. Without the written agreement of Envirochem, no one with the exception of the Client, may rely upon or have the benefit of this survey report.

Envirochem asserts and retains all copyright, and other intellectual property rights, in and over the survey report and its contents unless these rights were specifically assigned or transferred within the terms of the agreement.

Any questions or matters arising from this survey report should be addressed to Envirochem.

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	Name	Signed	Dated
Report Authorised By	<div style="background-color: black; width: 80px; height: 15px; display: inline-block;"></div> (Lead Surveyor)	<div style="background-color: black; width: 250px; height: 40px; display: inline-block;"></div>	13 Sep 2016

SECTION 1 - Executive Summary

This report is based on the findings of a demolition asbestos survey (as defined by Health and Safety Executive (HSE) Guidance Note HSG264: Asbestos: The Survey Guide) carried out by Envirochem at Building 88, HMS Daedalus, Broom Way, Lee on Solent, Hampshire, PO13 9YA. The purpose of the survey was to determine the location, extent and product type of all reasonably accessible asbestos containing materials (ACM's) within the building.

Scope of work

The scope of work is a demolition asbestos survey of Building 88, HMS Daedalus

Asbestos identified

SAMPLE NUMBER	SAMPLE DESCRIPTION	PRODUCT TYPE
Sample 1	Building 88. Ground Floor. G.01 Room 1, Red floor tiles	Vinyl tile
Ref. Sample 1	Building 88. Ground Floor. G.02 Room 2, Red floor tiles	Vinyl tile
Sample 4	Building 88. Ground Floor. G.02 Room 2, Green floor tiles	Vinyl tile

Areas of no access

The following areas were not accessed at the time of the survey:

AREA	REASON FOR NON-ACCESS
There were no areas of no access in the survey.	

Until the above locations are accessed, as stated within HSE Guidance Note HSG 264, it should be presumed that these areas contain ACMs.

Asbestos containing materials and actions required

SAMPLE NUMBER	SAMPLE DESCRIPTION	PRODUCT TYPE	ACTION REQUIRED
Sample 1	Building 88. Ground Floor. G.01 Room 1, Red floor tiles	Vinyl tile	Removal of non-licensed ACMs (Remove (non-licensed))
Ref. Sample 1	Building 88. Ground Floor. G.02 Room 2, Red floor tiles	Vinyl tile	Removal of non-licensed ACMs (Remove (non-licensed))
Sample 4	Building 88. Ground Floor. G.02 Room 2, Green floor tiles	Vinyl tile	Removal of non-licensed ACMs (Remove (non-licensed))

The purpose of this survey is to identify the asbestos containing materials that are present, with the assumption that during demolition, all ACM's discovered are to be removed.

SECTION 2 – Introduction

Envirochem Analytical Laboratories Ltd is a well established, independent organisation. We are United Kingdom Accreditation Service (UKAS) accredited as a testing laboratory (Number: 1227) and as an inspection body (Number: 260). This accreditation covers fibre identification of asbestos bulk samples, air monitoring for asbestos and asbestos building surveys. All asbestos lead surveyors hold, as a minimum qualification, the British Occupational Hygiene Society (BOHS) proficiency certificate in Building surveys and bulk sampling for asbestos (P402). Likewise, those employed in the other fields mentioned hold, as a minimum qualification, the relevant BOHS proficiency certificate.

We also have expertise and experience in setting up and monitoring asbestos management plans.

This report is based on the findings of a demolition (as defined by Health and Safety Executive (HSE) Guidance Note HSG264: Asbestos: The Survey Guide) survey carried out by Envirochem at Building 88, HMS Daedalus, Broom Way, Lee on Solent, Hampshire, PO13 9YA.

The survey was carried out on the 5th September 2016 by [REDACTED] on behalf of Envirochem Analytical Laboratories Ltd, 12 The Gardens, Fareham, Hampshire, PO16 8SS, as instructed by [REDACTED] of Campbell Reith of Homes & Communities Agency, 2 Rivergate, Temple Quay, Bristol, BS1 6EH.

The purpose of the survey was to determine the location, extent and product type of all asbestos containing materials (ACM's) within the areas covered by this survey report. This information should form part of the Health and Safety plan for any proposed demolition work, as required by the CDM Regulations and/or the Control of Asbestos Regulations 2012.

For further information with respect to the survey report or to arrange asbestos removal work or to arrange a free consultation at our premises please contact [REDACTED].

The location and description, as far as was reasonably possible, of all suspected ACM's within all areas of the building were recorded. ACM's have not been disturbed or removed during the course of this survey. There is the possibility for additional ACM's to be present behind those identified, which may only be discovered during subsequent asbestos removal work.

Samples of each different type of suspected ACM were collected in accordance with HSE Guidance Note HSG264 for laboratory analysis. The samples were then analysed in accordance with HSE Guidance Note HSG248 to identify, which suspected ACM's, actually contained asbestos.

For sampled suspected ACM's, similar homogenous materials used in the same way throughout the building have not been sampled. In this instance the referenced suspected ACM can be strongly presumed to have the same make up as the sampled suspected ACM. Where a suspected ACM cannot be sampled but visually identified only there will be a presumption as to the make up of the material.

The survey is designed to be used as a basis for costing the removal of ACM's from the building prior to demolition. Any person or people using the report in this way must satisfy themselves as to the extent of the ACM's within the designated area and thereby ensure that their tender is sufficient in every respect to remove all the ACM's within these areas, including the possibility of any that may be hidden behind identified, strongly presumed or presumed ACM's.

Due to the situation in which the survey is required the condition of the asbestos is not assessed and an asbestos material assessment is not created, instead a list of asbestos containing materials is developed. It should be noted that even when there are no ACM's identified in any particular area this is not a guarantee that ACM's are not present in this area. For instance ACM's may be located within the structure of the building and not identified until demolition of the building. Due caution must always be taken when dealing with building materials and suspected ACM's must be reported and left undisturbed until further investigation proves it safe to proceed.

SECTION 3 - Initial Observations

A demolition asbestos survey was carried out at Building 88, HMS Daedalus, Broom Way, Lee on Solent, Hampshire, PO13 9YA. The scope of work is a demolition asbestos survey of Building 88, HMS Daedalus



SECTION 4 - Areas of No Access

During the course of this survey no ACM's have been disturbed or removed. There is the possibility that additional ACM's may be present behind those identified. These additional ACM's would only become evident during any subsequent asbestos removal work.

Specific Areas of No Access

AREA	REASON FOR NON-ACCESS
There were no areas of no access in the survey.	

As stated within HSE Guidance Note HSG264 areas where access cannot be gained must be presumed to contain ACM's until evidence can prove otherwise. All areas listed above should be revisited prior to further works.

SECTION 5 - Method Statement

Sampling of Suspected Asbestos Containing Materials (ACM's)

Samples of each different type of suspected ACM were collected in accordance with HSE Guidance Note HSG264 for laboratory analysis.

- The surveyor(s) visited each area to identify the position and number of samples. Also they assessed the health and safety requirements both for the occupiers of the adjacent areas as well as the surveyors.
- During sampling, the surveyors wore the personal protective equipment as appropriate to the risk assessment. In critical areas, warning signs were posted to restrict access during sampling.
- Sampling locations were damped down to reduce the risk of fibre release and samples were collected with shadow vacuuming where necessary. Upon completion of the sampling any debris created was cleaned by either H-type vacuums or wet wiping.
- The sample was placed in a labelled plastic bag, sealed and then placed in a second bag. Where required the sampling position was made good to minimise fibre release and labelled.
- Details of the samples location, product type, extent were recorded to enable a list of asbestos containing materials to be prepared.

Fibre Identification of Suspected Asbestos Containing Materials (ACM's)

Each sampled suspected ACM was analysed in the laboratory in accordance with HSE Guidance Note HSG248. This analysis involved stereo microscopy and polarised light microscopy in association with dispersion staining techniques.

Using polarised light microscopy very fine asbestos fibres such as those present in some textured coatings may not always be identifiable.

SECTION 6 - Asbestos Removal and Disposal

Under the Control of Asbestos Regulations 2012, there are three categories of asbestos removal; licensed, non notifiable and notifiable non-licensed work. For licensed work, generally involving asbestos insulation, insulation board and coatings, only a HSE licensed asbestos removal specialist can carry out this work. This work would generally take place inside an enclosure incorporating a three-stage airlock and kept under negative pressure.

Licensable work can only occur once a 14-day period has passed since the HSE received notification from the HSE licensed asbestos removal specialist of the forthcoming asbestos work.

The other two categories, non notifiable and notifiable non-licensed work, trained operatives with the correct equipment should be used as a minimum, Envirochem would always recommend using a licensed contractor for this work. For the purpose of this survey report, all work that would fall into these two categories have been classified as, removal (non-licensed). If these materials are to be removed, a risk assessment should be carried out by the removal operatives on the condition of the material at the time of pre removal and the expected fibre levels from similar work to allow the material to be categorised as non notifiable or notifiable non-licensed work. If the material is classified as notifiable non-licensed work, the local authority should be informed of the removal works prior to it commencing.

All waste with an asbestos content in excess of 0.1% of the total weight is classified as special waste and therefore must be deposited at a site which is licensed to accept special waste.

It is the recommendation of Envirochem that all work involving ACM's is undertaken by a HSE licensed asbestos removal specialist to ensure all legislation and guidelines are adhered to.

For information regarding work with asbestos or to arrange work with asbestos please contact [REDACTED]
[REDACTED].



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Asbestos Fibre Identification Report

Client: Homes & Communities Agency
2 Rivergate, Temple Quay, Bristol, BS1 6EH

Site Address: Building 88, HMS Daedalus, Broom Way, Lee on Solent, Hampshire, PO13 9YA

Sampled By: [REDACTED], Envirochem

Date sampled/received: 5th September 2016

Date analysed: 12th September 2016

Analyst/s: [REDACTED]

Analysis Location: 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS

ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

RESULTS

Sample No.	Sample Ref.	Location	Asbestos Detected	Asbestos Type
Sample 1	AB009745	Building 88, Ground Floor. G.01 Room 1, Red floor tiles	Yes	Chrysotile
Sample 2	AB009746	Building 88, Ground Floor. G.01 Room 1, Insulation to pipework	No	
Sample 3	AB009747	Building 88, Ground Floor. G.02 Room 2, Insulating board ceiling panels	No	
Sample 4	AB009748	Building 88, Ground Floor. G.02 Room 2, Green floor tiles	Yes	Chrysotile

NOTES:

1. Sample(s) were examined for the presence of 6 types of asbestos fibres: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite and tremolite.
2. Samples collected by the client are evaluated using information provided by the client. For samples collected by the client the date of receipt is deemed to be the same as the date sampled.
3. Envirochem is a UKAS accredited laboratory for sampling and identification of asbestos containing materials.
4. Comments, observations and opinions are outside the scope of UKAS accreditation.
5. The analytical method in the HSG248 does not quantify the amount of asbestos present, therefore UKAS accreditation does not permit quantification.
6. If, during fibre identification, only 1 or 2 fibres are seen and identified as asbestos, then the term 'trace asbestos identified' is used.

SIGNATURE: [REDACTED]

Authorised signatory

PRINT NAME: [REDACTED]

Reg. No. 2378228 England. Registered Office: Envirochem, 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS.



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Asbestos Fibre Identification Report

Client: Homes & Communities Agency
2 Rivergate, Temple Quay, Bristol, BS1 6EH

Site Address: Building 88, HMS Daedalus, Broom Way, Lee on Solent, Hampshire, PO13 9YA

Sampled By: [REDACTED], Envirochem

Date sampled/received: 5th September 2016

Date analysed: 12th September 2016

Analyst/s: [REDACTED]

Analysis Location: 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS

ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

RESULTS

Sample No.	Sample Ref.	Location	Asbestos Detected	Asbestos Type
Sample 5	AB009749	Building 88, Ground Floor. G.03 Room 3, Vinyl floor lay	No	
Sample 6	AB009750	Building 88, Ground Floor. G.04 Room 4, Sink pad	No	
Sample 7	AB009751	Building 88, Ground Floor. G.04 Room 4, Insulation to pipework	No	
Sample 8	AB009752	Building 88, Ground Floor. G.05 Room 5, Insulating board panel (above door to Room 6)	No	

NOTES:

1. Sample(s) were examined for the presence of 6 types of asbestos fibres: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite and tremolite.
2. Samples collected by the client are evaluated using information provided by the client. For samples collected by the client the date of receipt is deemed to be the same as the date sampled.
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5. The analytical method in the HSG248 does not quantify the amount of asbestos present, therefore UKAS accreditation does not permit quantification.
6. If, during fibre identification, only 1 or 2 fibres are seen and identified as asbestos, then the term 'trace asbestos identified' is used.

SIGNATURE: [REDACTED]

Authorised signatory

PRINT NAME: [REDACTED]

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Client: Homes & Communities Agency
2 Rivergate, Temple Quay, Bristol, BS1 6EH

Site Address: Building 88, HMS Daedalus, Broom Way, Lee on Solent, Hampshire, PO13 9YA

Sampled By: [REDACTED], Envirochem

Date sampled/received: 5th September 2016

Date analysed: 12th September 2016

Analyst/s: [REDACTED]

Analysis Location: 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS

ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

RESULTS

Sample No.	Sample Ref.	Location	Asbestos Detected	Asbestos Type
Sample 9	AB009764	Building 88, Ground Floor. G.06 Room 8, Insulating board door panel	No	
Sample 10	AB009765	Building 88, Ground Floor. G.07 Room 7, Debris to floor	No	
Sample 11	AB009766	Building 88, External. E.01 Main building, Insulating board debris to floor (by doorway to room 7)	No	
Sample 12	AB009767	Building 88, External. E.01 Main building, Insulating board wall panels (above doorway to room 6)	No	

NOTES:

1. Sample(s) were examined for the presence of 6 types of asbestos fibres: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite and tremolite.
2. Samples collected by the client are evaluated using information provided by the client. For samples collected by the client the date of receipt is deemed to be the same as the date sampled.
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4. Comments, observations and opinions are outside the scope of UKAS accreditation.
5. The analytical method in the HSG248 does not quantify the amount of asbestos present, therefore UKAS accreditation does not permit quantification.
6. If, during fibre identification, only 1 or 2 fibres are seen and identified as asbestos, then the term 'trace asbestos identified' is used.

SIGNATURE: [REDACTED]

Authorised signatory

PRINT NAME: [REDACTED]

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Asbestos Fibre Identification Report

Client: Homes & Communities Agency
2 Rivergate, Temple Quay, Bristol, BS1 6EH

Site Address: Building 88, HMS Daedalus, Broom Way, Lee on Solent, Hampshire, PO13 9YA

Sampled By: [REDACTED], Envirochem

Date sampled/received: 5th September 2016

Date analysed: 12th September 2016

Analyst/s: [REDACTED]

Analysis Location: 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS

ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' methods based on the HSE Guidance Note HSG 248. These employed stereo microscopy, polarized microscopy and dispersion staining techniques.

RESULTS

Sample No.	Sample Ref.	Location	Asbestos Detected	Asbestos Type
Sample 13	AB009768	Building 88, External. E.01 Main building, Putty to windows	No	
Sample 14	AB009769	Building 88, External. E.01 Main building, Asphalt to flat roof	No	
Sample 15	AB009770	Building 88, External. E.01 Main building, Roof tiles	No	
Sample 16	AB009771	Building 88, External. E.01 Main building, Damp proof course	No	

NOTES:

1. Sample(s) were examined for the presence of 6 types of asbestos fibres: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite and tremolite.
2. Samples collected by the client are evaluated using information provided by the client. For samples collected by the client the date of receipt is deemed to be the same as the date sampled.
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SIGNATURE: [REDACTED]

Authorised signatory

PRINT NAME: [REDACTED]

Reg. No. 2378228 England. Registered Office: Envirochem, 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS.

Envirochem Analytical Laboratories Ltd.
Appendix 2 - List of Asbestos Containing Materials

Site Address Building 88, HMS Daedalus, Broom Way, Lee on Solent, Hampshire, PO13 9YA
Date of Survey 5th September 2016
Reference Number J107147

Sample No.	Location	Level of Identification	Product Type	Asbestos Type	Extent
Sample 1	Building 88, Ground Floor. G.01 Room 1, Red floor tiles	Identified	Vinyl tile	Chrysotile	12m ²
Ref. Sample 1	Building 88, Ground Floor. G.02 Room 2, Red floor tiles	Strongly Presumed	Vinyl tile	Chrysotile	12m ²
Sample 4	Building 88, Ground Floor. G.02 Room 2, Green floor tiles	Identified	Vinyl tile	Chrysotile	16m ²

Envirochem Analytical Laboratories Ltd.

Appendix 3 - List of Negative Samples

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Site Address Building 88, HMS Daedalus, Broom Way, Lee on Solent, Hampshire, PO13 9YA
Date of Survey 5th September 2016
Reference Number J107147
Surveyors XXXXXXXXXX

Sample No.	Location	Product Type
Sample 2	Building 88, Ground Floor. G.01 Room 1, Insulation to pipework	Non Asbestos Insulation
Ref. Sample 2	Building 88, Ground Floor. G.02 Room 2, Insulation to pipework	Non Asbestos Insulation
Sample 3	Building 88, Ground Floor. G.02 Room 2, Insulating board ceiling panels	Non Asbestos Insulating Board
Sample 5	Building 88, Ground Floor. G.03 Room 3, Vinyl floor lay	Vinyl tile
Sample 6	Building 88, Ground Floor. G.04 Room 4, Sink pad	Felt
Sample 7	Building 88, Ground Floor. G.04 Room 4, Insulation to pipework	Non Asbestos Insulation
Sample 8	Building 88, Ground Floor. G.05 Room 5, Insulating board panel (above door to Room 6)	Non Asbestos Insulating Board
Sample 9	Building 88, Ground Floor. G.06 Room 8, Insulating board door panel	Non Asbestos Insulating Board
Sample 10	Building 88, Ground Floor. G.07 Room 7, Debris to floor	Dust
Sample 11	Building 88, External. E.01 Main building, Insulating board debris to floor (by doorway to room 7)	Non Asbestos Insulating Board
Sample 12	Building 88, External. E.01 Main building, Insulating board wall panels (above doorway to room 6)	Non Asbestos Insulating Board
Sample 13	Building 88, External. E.01 Main building, Putty to windows	Mastic
Sample 14	Building 88, External. E.01 Main building, Asphalt to flat roof	Bitumen
Sample 15	Building 88, External. E.01 Main building, Roof tiles	Slate
Sample 16	Building 88, External. E.01 Main building, Damp proof course	Damp proof course/damp proof membrane

APPENDIX 4 - Photographs

Sample 1: Building 88. Ground Floor. Room 1.
Red floor tiles



Ref. Sample 1: Building 88. Ground Floor.
Room 2. Red floor tiles



Sample 4: Building 88. Ground Floor. Room 2.
Green floor tiles



APPENDIX 5 - Marked Plans

Client: Homes & Communities Agency
Site: Building 88
HMS Daedalus
Broom Way
Lee on Solent
Hampshire
PO13 9YA

Key: **1** Asbestos identified
1 No asbestos identified
R1 Asbestos strongly presumed
R1 No asbestos strongly presumed

