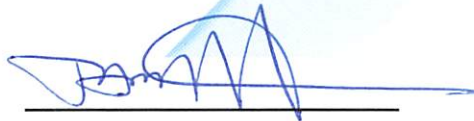


Report No: DEA/01283/3/AUG

ASBESTOS SURVEY:
St Cadocs Hospital
Augustus Ward




Surveyed by:



Survey report by:



Authorised by:



Prepared by:

Scientifics Ltd
Environment Group
500 London Road
Derby
DE24 8BQ
Tel: 01332 264444
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Prepared for:

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Issued by Scientifics Limited, 500 London Road, Derby DE24 8BQ.

COMMENTS AND RECOMMENDATIONS SUMMARY

Floor tiles containing chrysotile asbestos were found in the following locations:

- 32 Storeroom
- 39 Storeroom

Insulation panels behind radiators containing amosite were found in:

- 26 Bedroom
- 28 Bedroom
- 31 Quite room
- 33 Clinic
- 34 Dormitory
- 35 Lounge
- 36 Smoking room
- 37 Dining room

All materials identified were assigned a priority rating of 3 and consequently should be managed as asbestos. Labelling should be maintained to avoid inadvertent damage.

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3. SAMPLING STRATEGY
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5. BULK ANALYSIS METHOD
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APPENDICES

APPENDIX A: REPORT SHEETS

APPENDIX B: DRAWINGS

1. INTRODUCTION

Instructions were received from Steve Knight on behalf of Gwent Healthcare to carry out an asbestos survey on the property known as St Cadoc's Hospital, Augustus Ward, , Caerleon, , . This survey was carried out 20th March 2001.

The scope of works was to carry out a full asbestos location survey on the premises as outlined by the client. The extent and type of asbestos based materials on site was to be defined.

2. SITE DESCRIPTION

Augustus Ward is a single storey block with a flat roof adjoining Isca Ward and the Day Unit.

3. SAMPLING STRATEGY FOR ASBESTOS MATERIAL (HEALTH & SAFETY POLICY)

The object of carrying out sampling was to identify the nature and extent of any visible asbestos material.

All samples were collected in self seal bags where appropriate, and where practicable a label was left on the site adjacent to the sample location. This label indicates the sample number for cross reference to this report. Care was taken to prevent cross-contamination of samples.

All sampling was undertaken causing the minimum possible nuisance and potential risk to the health of the occupants and visitors of the building.

As required under the Control of Asbestos at Work Regulations 1987 as amended by the Control of Asbestos at Work (Amendment) Regulations 1992 and 1998, dust release in sampling must be reduced to as low as is reasonably practicable and an assessment in respect of likely dust release will dictate the need for precautionary measures. This includes the isolation of the sampling area, wetting of the material to suppress dust release, an appropriate cleaning process and use of personal protective equipment. After sampling, any broken material was sealed with PCL cloth tape. All samples were double sealed in polythene bags. Sampling did not impair the structural integrity of the building or plant.

4. ASBESTOS SURVEY STRATEGY

Knowledge, training and experience of the common application of materials that may contain asbestos form the basis of the sampling strategy adopted for this survey. The building was surveyed visually in a systematic manner following documented in-house procedures for materials suspected of containing asbestos.

A strategy has been established to keep to a minimum the number of bulk samples taken for analysis and therefore minimise the cost of the survey. The strategy employed is a combination of a visual inspection and sampling of bulk materials.

During the survey, where a material was suspected to contain asbestos, a bulk sample was taken for analysis. In areas where there were substantial quantities of visually uniform materials, a small number of samples were taken as being representative of the whole area. Therefore, where a sample is identified as containing asbestos, visually similar materials in the same area must be assumed to also contain asbestos.

Where the survey reports a material as NON-ASBESTOS by visual inspection and with no analysis of samples (e.g. recently lagged pipework covered with metal cladding) then the client should exercise caution in interpreting the results. It is IMPORTANT to stress that in such circumstances, there may be residues of asbestos trapped under the newly applied lagging (e.g. from previous asbestos removal carried out in the past).

It is not usually practicable to detect such residues until major disturbances of the material take place within the scope of a destructive survey. Therefore Scientifics Ltd cannot accept liability for the detection of such residues in this survey. If the client undertakes major alterations in a specific area where it may be possible that residual asbestos may be found, then it is recommended that further investigation of the specific area be carried out before the start of work.

Where "NO ACCESS" is used, it indicates that the area specified was not accessible at the time of the survey. The client is to be alerted to the possibility of there being asbestos materials in the

area. This may therefore require further investigation. Only those areas defined are covered in this report. Those areas not identified should be considered as not accessed for the purpose of this survey.

5. METHODS OF BULK SAMPLE ANALYSIS

Samples were examined for the presence of asbestiform fibres using polarised light microscopy (PLM) and dispersion staining techniques in accordance with documented in-house procedures based on Health & Safety Executive Publication MDHS 77, 'Asbestos in Bulk Materials'.

Identification of asbestos fibres was based on the following analytical procedure:

- A) A preliminary visual examination of the whole of the bulk sample was made to assess the sample type and the required sample treatment (if any) : where possible a representative sub-sample treatment was taken at this stage;
- B) Sample treatment was undertaken (if required) to release or isolate fibres;
- C) A detailed and thorough search under the microscope was made to classify the fibre types present;
- D) Representative fibres were mounted in appropriate RI liquids on microscope slides;
- E) The different fibrous components were identified using PLM.

6. REPORT STRATEGY DEFINITIONS

All asbestos containing materials identified on the site have been incorporated into a Risk Assessment Priority Rating System which will allow the client the opportunity to plan any requirements for removal, remedial action and costings.

Implementation of the system will ensure:

A safe working environment is maintained on site with respect to all asbestos materials identified.

Compliance with the appropriate Health & Safety Legislation

A Priority Rating will be assigned to each asbestos element identified on the sites surveyed. Non-asbestos elements will not be assigned a priority rating. The priority rating is based on a combined assessment of the condition, friability and location of the asbestos element.

6.1 Assessment of Condition of Asbestos Elements

GOOD - Asbestos elements in good condition are those which are intact, have not been machined or drilled and are in all aspects pristine. Good condition may be achieved in moulded or preformed products when the moulding has not been damaged cracked or broken. Pipework lagging, whole sections and asbestos insulating boarding, fully sealed would also be assigned to a good category.

FAIR - Asbestos elements in fair condition are those that have been machined, indented or cracked but damaged asbestos has not fallen or broken away.

POOR - Asbestos elements in poor condition indicate that some asbestos material has been damaged by being broken or shattered with some debris present. This indicates that some asbestos material has become detached from the original bulk of the asbestos element.

6.2 Assessment of Damage Potential of Each Asbestos Element

The damage potential of each asbestos element on site will be assessed. This is important as the damage potential relates to the likelihood or possibility of damage occurring to the asbestos. The potential for damage or impact on asbestos materials must be considered in conjunction with the likely building usage of the area in question. Risk of damage will be more likely in areas of constant use in comparison with areas of intermittent use of entry for maintenance inspections or observation of equipment.

LOW - Asbestos materials with a low damage potential are those elements which are difficult to reach or damage due to it being in a location which is not normally accessible, except for the purposes of maintenance, e.g. in a roof space or plant room.

MEDIUM - Asbestos materials with a medium damage potential are those elements where some degree of effort would be required to reach and damage the asbestos, e.g. using a ladder or standing on a chair.

HIGH - Asbestos materials with a high damage potential are those elements which are within normal reach to touch or damage.

6.3 Assessment of Friability of Each Asbestos Element

The degree of friability of each asbestos element is probably the most important category since the softness of the asbestos material largely determines the extent of asbestos fibre release into the adjacent atmosphere.

LOW - Low friability asbestos materials are those where the asbestos fibres are locked within hard materials such as cement, concrete or plastics. In these cases the dangers of fibre release into the atmosphere are negligible providing that the element is not machined, drilled or otherwise worked upon.

MEDIUM - Medium friability asbestos materials are all those elements which are listed in the low category but are in poor condition, including badly weathered asbestos cement. Medium friability materials also include sealed and unsealed asbestos insulating board and bonded asbestos flange gaskets.

HIGH - High friability asbestos materials include all sprayed and lagged asbestos and unbonded asbestos rope materials. Finely divided asbestos insulating board debris contamination would also be classified as a high friability material.

6.4 Assessment of Priority of Each Asbestos Element

1 - Priority 1 asbestos materials are in a condition or location which requires urgent attention. Priority 1 asbestos materials are usually not suited to any form of containment programme and should be removed or environmentally cleaned as soon as possible. All fallen asbestos debris and surface contaminating materials will always be assigned a priority rating of 1. Any disturbance to priority 1 materials is liable to expose personnel to elevated levels of airborne respirable asbestos fibres and then also is liable to spread the extent of the contamination throughout the rest of the building.

2 - All priority 2 asbestos materials are in a location and/or condition which require some remedial action. The action may be minor repairs to damaged surfaces or encapsulation of all exposed asbestos surfaces. Following completion of remedial works, the priority 2 material should be assigned a priority 3 rating. In the long term it is recommended that all priority 2 materials be removed as soon as resources become available.

3 - Priority 3 asbestos materials are in a condition and/or location which does not give rise to a significant health risk, PROVIDED THE MATERIAL REMAINS UNDISTURBED either by routine maintenance operations or by personnel carrying out their normal daily work activities which could cause impact or surface damage to the material. Priority 3

is only valid if this provision is maintained. Building managers should be aware of any changes in work activities in areas where priority 3 asbestos materials are located. Priority 3 asbestos materials would change to priority 1 materials if it is decided to carry out building works which would require some disturbance of the asbestos material.

All Priority Rating assessments of all asbestos materials found on the site are to be found in the asbestos survey report sheets.

6.5 Computed Risk Assessment of Each Asbestos Element

0 to 15 (LOW) - Materials with assessment scores between 0 to 15 should be regarded as low risk materials, which will only need removal if serious damage or deterioration is detected in periodic inspections.

16 to 26 (MEDIUM) - There is little likelihood that a release will occur, or if there is an increased likelihood the type of material present will release only very low levels of airborne fibres. The material does not need any immediate work and any removal can be planned within a suitable budget and timescale. In the meantime it should be labelled and subject to re-inspection and re-assessment at suitable periods.

27 to 40 (HIGH) - This is a situation in which there is a high likelihood that friable loose asbestos may be dispersed giving a significant airborne fibre release. Some immediate plans for remedial work are usually required and the area should be isolated from access by adequately trained personnel.

Site ID: DEA/01283/3/AUG
Location ID: 3/178
Building: Augustus Ward
Floor:
Room / Area: Storeroom 32
Description: Floor tiles



Photograph Number: 69

GENERAL DETAILS

Last Inspection Date:	20/Mar/2001	Survey Type:	VISUAL
Next Inspection Date:		Lab Reference:	01492/3/178
Source Of Info:		Sample Number:	3/178
Surveyed:	YES		

ASSESSMENT DETAILS

Position:	INTERNAL (OCCUPIED)	Damage Potential:	LOW
Sample Result:	CHRYSOTILE	Notifiable:	NO
Material:	FLOOR TILES	Action:	MANAGE / LABEL
Amount:		Work Status:	MATERIAL TESTED
Condition:	GOOD	Priority:	3
Surface Treatment:	SEALED		
Friability:	LOW	Computed Risk Assessment:	9

COMMENTS & RECOMMENDATIONS

Comments:
Recommendations:

Site ID: DEA/01283/3/AUG
Location ID: 3/179
Building: Augustus Ward
Floor:
Room / Area: Lounge room 35
Description: Panels behind radiators



Photograph Number: 70

GENERAL DETAILS

Last Inspection Date:	19/Apr/2001	Survey Type:	VISUAL
Next Inspection Date:		Lab Reference	01492/3/179
Source Of Info:		Sample Number	3/179
Surveyed	YES		

ASSESSMENT DETAILS

Position	INTERNAL (OCCUPIED)	Damage Potential	MEDIUM
Sample Result	AMOSITE	Notifiable	YES
Material	INSULATION BOARD	Action:	MANAGE / LABEL
Amount		Work Status:	MATERIAL TESTED
Condition	GOOD	Priority	3
Surface Treatment	SEALED		
Friability	MEDIUM	Computed Risk Assessment	22

COMMENTS & RECOMMENDATIONS

Comments: The reveals of the recessed radiator areas are the same material.
Recommendations:

Site ID: DEA/01283/3/AUG
 Location ID: 3/180
 Building: Augustus Ward
 Floor:
 Room / Area: Quite Room 31
 Description: Panels behind radiators



Photograph Number: 71

GENERAL DETAILS

Last Inspection Date:	19/Apr/2001	Survey Type:	VISUAL
Next Inspection Date:		Lab Reference	01492/3/180
Source Of Info:		Sample Number	3/180
Surveyed	YES		

ASSESSMENT DETAILS

Position	INTERNAL (OCCUPIED)	Damage Potential	MEDIUM
Sample Result	AMOSITE	Notifiable	YES
Material	INSULATION BOARD	Action:	MANAGE / LABEL
Amount		Work Status:	MATERIAL TESTED
Condition	GOOD	Priority	3
Surface Treatment	SEALED		
Friability	MEDIUM	Computed Risk Assessment	22

COMMENTS & RECOMMENDATIONS

Comments The reveals of the recessed radiator areas are the same material.
Recommendations

Site ID: DEA/01283/3/AUG
Location ID 3/181
Building Augustus Ward
Floor
Room / Area Clinic room 33
Description Panels behind radiators



Photograph Number: 72

GENERAL DETAILS

Last Inspection Date:	20/Mar/2001	Survey Type:	VISUAL
Next Inspection Date:		Lab Reference	01492/3/181
Source Of Info:		Sample Number	181
Surveyed	YES		

ASSESSMENT DETAILS

Position	INTERNAL (OCCUPIED)	Damage Potential	MEDIUM
Sample Result	AMOSITE	Notifiable	YES
Material	INSULATION BOARD	Action:	MANAGE / LABEL
Amount		Work Status:	MATERIAL TESTED
Condition	GOOD	Priority	3
Surface Treatment	SEALED		
Friability	MEDIUM	Computed Risk Assessment	22

COMMENTS & RECOMMENDATIONS

Comments The reveals of the recessed radiator areas are the same material.
Recommendations

Site ID: DEA/01283/3/AUG
Location ID 3/182
Building Augustus Ward
Floor
Room / Area Smoking room 36
Description Panels behind radiators



Photograph Number: 73

GENERAL DETAILS

Last Inspection Date:	20/Mar/2001	Survey Type:	VISUAL
Next Inspection Date:		Lab Reference	01492/3/182
Source Of Info:		Sample Number	3/182
Surveyed	YES		

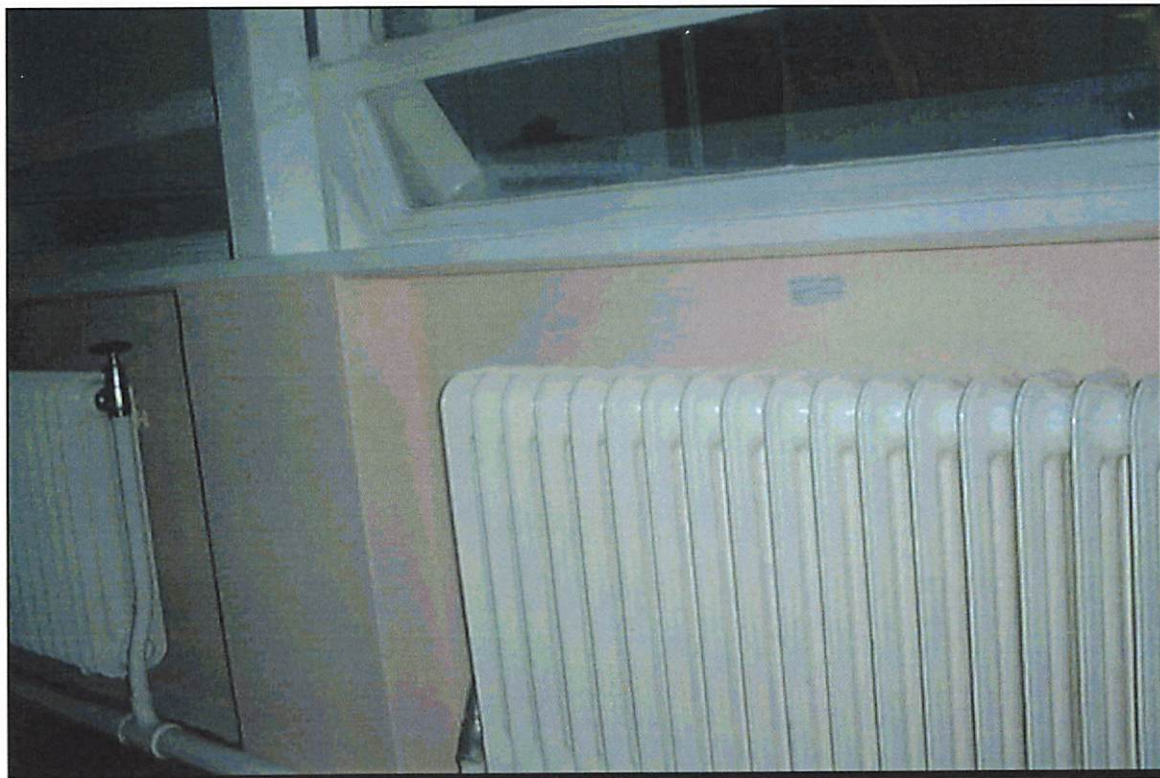
ASSESSMENT DETAILS

Position	INTERNAL (OCCUPIED)	Damage Potential	MEDIUM
Sample Result	AMOSITE	Notifiable	YES
Material	INSULATION BOARD	Action:	MANAGE / LABEL
Amount		Work Status:	MATERIAL TESTED
Condition	GOOD	Priority	3
Surface Treatment	SEALED		
Friability	MEDIUM	Computed Risk Assessment	22

COMMENTS & RECOMMENDATIONS

Comments The reveals of the recessed radiator areas are the same material.
Recommendations

Site ID: DEA/01283/3/AUG
Location ID: 3/183
Building: Augustus Ward
Floor:
Room / Area: Dining room 37
Description: Panels behind radiators



Photograph Number: 74

GENERAL DETAILS

Last Inspection Date:	20/Mar/2001	Survey Type:	VISUAL
Next Inspection Date:		Lab Reference	01492/3/183
Source Of Info:		Sample Number	3/183
Surveyed	YES		

ASSESSMENT DETAILS

Position	INTERNAL (OCCUPIED)	Damage Potential	MEDIUM
Sample Result	AMOSITE	Notifiable	YES
Material	INSULATION BOARD	Action:	MANAGE / LABEL
Amount		Work Status:	MATERIAL TESTED
Condition	GOOD	Priority	3
Surface Treatment	SEALED		
Friability	MEDIUM	Computed Risk Assessment	22

COMMENTS & RECOMMENDATIONS

Comments The reveals of the recessed radiator areas are the same material.
Recommendations

Site ID: DEA/01283/3/AUG
Location ID: 3/184
Building: Augustus Ward
Floor:
Room / Area: Storeroom 39
Description: Floor tiles



Photograph Number: 75

GENERAL DETAILS

Last Inspection Date: 20/Mar/2001
Next Inspection Date:
Source Of Info:
Surveyed: YES

Survey Type: VISUAL
Lab Reference: 01492/3/184
Sample Number: 3/184

ASSESSMENT DETAILS

Position: INTERNAL (OCCUPIED)
Sample Result: CHRYSOTILE
Material: FLOOR TILES
Amount:
Condition: GOOD
Surface Treatment: SEALED
Friability: LOW

Damage Potential: LOW
Notifiable: NO
Action: MANAGE / LABEL
Work Status: MATERIAL TESTED
Priority: 3

Computed Risk Assessment: 9

COMMENTS & RECOMMENDATIONS

Comments:
Recommendations:

Site ID: DEA/01283/3/AUG
 Location ID: 3/189
 Building: Augustus Ward
 Floor:
 Room / Area: Bedroom R28
 Description: Panels behind radiators



Photograph Number: 80

GENERAL DETAILS

Last Inspection Date:	20/Mar/2001	Survey Type:	VISUAL
Next Inspection Date:		Lab Reference:	SWA01492/3/189
Source Of Info:		Sample Number:	3/189
Surveyed	YES		

ASSESSMENT DETAILS

Position	INTERNAL (OCCUPIED)	Damage Potential	MEDIUM
Sample Result	AMOSITE	Notifiable	YES
Material	INSULATION BOARD	Action:	MANAGE / LABEL
Amount		Work Status:	MATERIAL TESTED
Condition	GOOD	Priority	3
Surface Treatment	SEALED		
Friability	MEDIUM	Computed Risk Assessment	22

COMMENTS & RECOMMENDATIONS

Comments The reveals of the recessed radiator areas are the same material.
Recommendations

Site ID: DEA/01283/3/AUG
Location ID 3/190
Building Augustus Ward
Floor
Room / Area Bedroom room 26
Description Panels behind radiators



Photograph Number: 81

GENERAL DETAILS

Last Inspection Date:	20/Mar/2001	Survey Type:	VISUAL
Next Inspection Date:		Lab Reference	01492/3/190
Source Of Info:		Sample Number	3/190
Surveyed	YES		

ASSESSMENT DETAILS

Position	INTERNAL (OCCUPIED)	Damage Potential	MEDIUM
Sample Result	AMOSITE	Notifiable	YES
Material	INSULATION BOARD	Action:	MANAGE / LABEL
Amount		Work Status:	MATERIAL TESTED
Condition	GOOD	Priority	3
Surface Treatment	SEALED		
Friability	MEDIUM	Computed Risk Assessment	22

COMMENTS & RECOMMENDATIONS

Comments The reveals of the recessed radiator areas are the same material.
Recommendations

Site ID: DEA/01283/3/AUG
 Location ID: 3/191
 Building: Augustus Ward
 Floor:
 Room / Area: Dormitory Room 34
 Description: Panels behind radiators



Photograph Number: 82

GENERAL DETAILS

Last Inspection Date:	20/Mar/2001	Survey Type:	VISUAL
Next Inspection Date:		Lab Reference:	01492/3/191
Source Of Info:		Sample Number:	3/191
Surveyed:	YES		

ASSESSMENT DETAILS

Position:	INTERNAL (OCCUPIED)	Damage Potential:	MEDIUM
Sample Result:	AMOSITE	Notifiable:	YES
Material:	INSULATION BOARD	Action:	MANAGE / LABEL
Amount:		Work Status:	MATERIAL TESTED
Condition:	GOOD	Priority:	3
Surface Treatment:	SEALED		
Friability:	MEDIUM	Computed Risk Assessment:	22

COMMENTS & RECOMMENDATIONS

Comments: The reveals of the recessed radiator areas are the same material.
 Recommendations:





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fao: Steve Knight, Esq.

o/r: 85500/20/42/1/RAMM(SWA01492/3)

y/r: Order No.CC5868

2 April 2001

TEST REPORT:
SUSPECTED ASBESTOS FOR IDENTIFICATION

The samples shown below have been examined by microscope for the presence of asbestiform fibres using polarised light and dispersion staining techniques in accordance with documented in-house procedures based on Health & Safety Executive Publication MDHS 77 *Asbestos in Bulk Materials*.

Job No: SWA01492/3

Date Sampled: 20/03/01

Location: St Cadoc's Hospital, Caerleon: **Clinic, Augustus Ward**

Lab. Reference	Sample Description	Fibre Type
SWA01492/3/177	Utility Room 24, sink pads	No asbestos found
01492/3/178	Storeroom 32, floor tiles	Chrysotile
01492/3/179	Lounge Room 35, panels behind radiator(s)*	Amosite
01492/3/180	Quiet Room 31, panels behind radiator(s)*	Amosite
01492/3/181	Clinic Room 33, panels behind radiator(s)*	Amosite
01492/3/182	Smoking Room 36, panels behind radiator(s)*	Amosite
01492/3/183	Dining Room 37, panels behind radiator(s)*	Amosite
01492/3/184	Storeroom 39, floor tiles	Chrysotile

Chrysotile = White Asbestos; Amosite = Brown Asbestos; Crocidolite = Blue Asbestos.

Lab. Reference	Sample Description	Fibre Type
SWA01492/3/189	Bedroom 28, panels behind radiator(s)*	Amosite
01492/3/190	Bedroom 26, panels behind radiator(s)*	Amosite
01492/3/191	Dormitory 34, panels behind radiator(s)*	Amosite
01492/3/192	Kitchen Room 40, sink pads	No fibrous material

Analyst: R Martin **Signature:** 

Date Analysed: 30/3/2001

Comments: Any opinions and interpretations based on test results are outside the scope of UKAS Accreditation.

Sample /177 contains organic fibre.

The quantity of asbestos in samples /178 & /184 is very small.

*The reveals of the recessed radiator areas are the same material.



David Gough
Principal Scientist



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Certificate of Analysis for Personal Air Test

Page 1 of 1	Certificate No: 09F4883002	Issue date: 22/12/2009
Date of receipt of samples/sampling: 22/12/2009		Analysis date: 22/12/2009
Client name, address and contact details: Aneurin Bevan Local Health Board Works & Estates Management Centre St Cadoc's Hospital Lodge Road Caerleon NP18 3XQ		Site address: St Cadoc's Hospital Lodge Road Caerleon NP18 3XQ
Location :		Various locations underground duct
Location slides counted:		Bridgend office
Material removed/worked on:		Drilling through encapsulated concrete
Areas to be assessed and brief description of works:		Drilling of 5 holes through the ceiling of the underground duct to determine the thickness off the concrete
NAS Laboratories Risk Assessment complete		Yes

Test kit number	7	Measured graticule diameter (µm)	99
Microscope number	M2	Barometric pressure (hPa*)	977
HSE test slide band	Band 5	Temperature reading (°C*)	22
Exp filter diameter (mm)	21.3	Field Blank	0/100

Sample No.	Pump No.	Cowl No.	Time Started	Time Stopped	Sample Duration (Min)	Initial Flow Rate (l/min)	Final Flow Rate (l/min)	Volume Sampled (litres)	No. of Fibres	No. of Fields	Limit of Quantification	Concentration fibres/ml (fibres/cm ³)
1	P79	K7/03	10:50	11:14	24	2.0	2.0	48	3.0	200	0.1	<0.1
END OF TESTS												

Comments Operative's name Adrian Griffiths Respirator worn Sundstrom SR100 ½ mask Activity undertaken Observing drill exit hole in duct ceiling	All testing is in accordance with HSE Guidance notes HSG248 (see comments for any deviations from method).
Print Name <u>Adrian Griffiths</u>	Signed Sampler <u><i>[Signature]</i></u>
Print Name <u>Nigel Collier</u>	Signed Analyst <u><i>[Signature]</i></u>

Opinions and interpretations expressed herein are outside the scope of the UKAS accreditation for this Laboratory

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Certificate of Analysis for Airborne Fibre Concentration

Page 1 of 2		Certificate No: 09F4883001		Issue date: 22/12/2009	
Date of receipt of samples/sampling: 22/12/2009		Analysis date: 22/12/2009			
Client name, address and contact details: Aneurin Bevan Local Health Board Works & Estates Management Centre St Cadoc's Hospital Lodge Road Caerleon NP18 3XQ			Site address: St Cadoc's Hospital Lodge Road Caerleon NP18 3XQ		
Location :		Various locations underground duct			
Location slides counted:		Bridgend office			
Material removed/worked on:		Drilling through encapsulated concrete			
Areas to be assessed and brief description of works:		Drilling of 5 holes through the ceiling of the underground duct to determine the thickness off the concrete			
NAS Laboratories Risk Assessment complete		Yes			

Test kit number	7	Measured graticule diameter (µm)	99	Field Blanks	Fibres	Fields
Microscope number	M2	Barometric pressure (hPa*)	977	FB01	0	100
HSE test slide band	Band 5	Temperature reading (°C*)	22	FB02	----	----
Exp filter diameter (mm)	21.3			FB03	----	----

*

Background = B	Leak test = L	Reassurance = R
----------------	---------------	-----------------

Sample No.	Type of Test *	Pump No.	Cowl No.	Time Started	Time Stopped	Sample Duration (Min)	Initial Flow Rate (l/min)	Int Flow Rate (l/min)	Final Flow Rate (l/min)	Volume Sampled (litres)	No. of Fibres	No. of Fields	Limit of Quantification	Concentration fibres/ml (fibres/cm ³)
1	B	P6	K7/01	10:50	11:50	60	8.0	--	8.0	480	2.0	200	0.010	<0.01
2	B	P8	K7/02	10:50	11:50	60	8.0	--	8.0	480	4.0	200	0.010	<0.01

END OF TESTS

Opinions and interpretations expressed herein are outside the scope of the UKAS accreditation for this Laboratory

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Certificate of Analysis for Airborne Fibre Concentration

Page 2 of 2 Certificate No: 09F4883001 Issue date: 22/12/2009

Diagram

LOCATIONS WERE DECIDED BY TREVOR EVANS OF WORKS & ESTATES WHO HOLDS A COPY OF THE DUCT PLAN WHERE THE HOLES WERE DRILLED

All testing is in accordance with HSE ACoP & guidance HSG248 (See comments for any deviations from method).
Comments:

Tests marked " ** " in this certificate of analysis are not included in the UKAS accreditation schedule for this laboratory

Requirements	Yes / No	Comments / values
Dust disturbance used (state type and duration)	N/A	
Have all stipulations of HSG248 been met? (see comments box if not)	Yes	
Are all air tests less than 0.01 fibres/cm ³ ?	Yes	

Print Name Adrian Griffiths Signed Sampler *A. Griffiths*

Print Name Nigel Collier Signed Analyst *N. Collier*

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Certificate of Analysis for Airborne Fibre Concentration

Page 1 of 2	Certificate No: 09F4883001	Issue date: 22/12/2009
Date of receipt of samples/sampling: 22/12/2009		Analysis date: 22/12/2009
Client name, address and contact details: Aneurin Bevan Local Health Board Works & Estates Management Centre St Cadoc's Hospital Lodge Road Caerleon NP18 3XQ		Site address: St Cadoc's Hospital Lodge Road Caerleon NP18 3XQ
Location :		Various locations underground duct
Location slides counted:		Bridgend office
Material removed/worked on:		Drilling through encapsulated concrete
Areas to be assessed and brief description of works:		Drilling of 5 holes through the ceiling of the underground duct to determine the thickness off the concrete
NAS Laboratories Risk Assessment complete		Yes

Test kit number	7	Measured graticule diameter (µm)	99	Field Blanks	Fibres	Fields
Microscope number	M2	Barometric pressure (hPa*)	977	FB01	0	100
HSE test slide band	Band 5	Temperature reading (°C*)	22	FB02	----	----
Exp filter diameter (mm)	21.3			FB03	----	----

*

Background = B	Leak test = L	Reassurance = R
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Sample No.	Type of Test *	Pump No.	Cowl No.	Time Started	Time Stopped	Sample Duration (Min)	Initial Flow Rate (l/min)	Int Flow Rate (l/min)	Final Flow Rate (l/min)	Volume Sampled (litres)	No. of Fibres	No. of Fields	Limit of Quantification	Concentration fibres/ml (fibres/cm ³)
1	B	P6	K7/01	10:50	11:50	60	8.0	--	8.0	480	2.0	200	0.010	<0.01
2	B	P8	K7/02	10:50	11:50	60	8.0	--	8.0	480	4.0	200	0.010	<0.01

END OF TESTS

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Certificate of Analysis for Airborne Fibre Concentration

Page 1 of 2	Certificate No:	10F4979	Issue date:	23/06/2010
Date of receipt of samples/sampling:		23/06/2010	Analysis date:	23/06/2010

Client name, address and contact details: Aneurin Bevan Local Health Board Works and Estates Management Centre St Cadoc's Hospital Lodge Road Caerleon NP18 3XQ	Site address: Belle Vue Ward St Cadoc's Hospital Caerleon NP18 3XQ
Location :	Belle Vue Ward – Office in TV room
Location slides counted:	Office next to smoking room
Material removed/worked on:	NA
Areas to be assessed and brief description of works:	Background testing carried out while old sash windows were being replaced with new UPVC windows.
NAS Laboratories Risk Assessment complete	Yes

Test kit number	K7	Measured graticule diameter (µm)	99	Field Blanks	Fibres	Fields
Microscope number	M8	Barometric pressure (hPa*)	1020	FB01		
HSE test slide band	Band 5	Temperature reading (°C*)	19	FB02		
Exp filter diameter (mm)	21.3			FB03		

Background = B	Leak test = L	Reassurance = R
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Sample No.	Type of Test *	Pump No.	Cowl No.	Time Started	Time Stopped	Sample Duration (Min)	Flow rate (L/min)			Volume Sampled (litres)	No. of Fibres	No. of Fields	Limit of Quantification	Concentration fibres/ml (fibres/cm ³)
							Initial	Interim	Final					
1	B	P100	K701	0915	1015	60	8.0	-	8.0	480	13.0	200	0.010	<0.01
2	B	P90	K702	1030	1130	60	8.0	-	8.0	480	10.0	200	0.010	<0.01
4	B	P100	K704	1145	1245	60	8.0	-	8.0	480	5.0	200	0.010	<0.01

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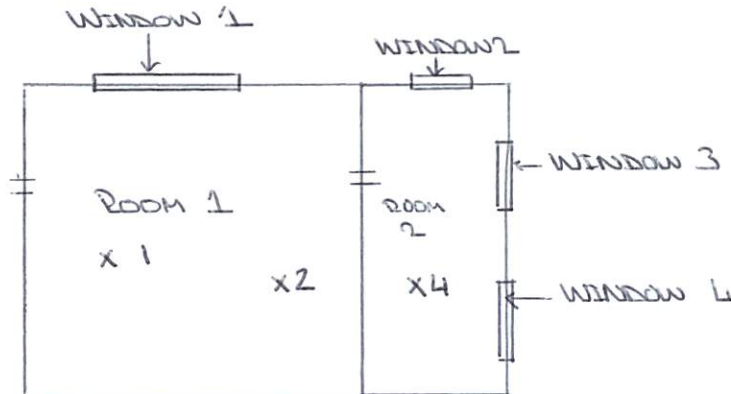
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Certificate of Analysis for Airborne Fibre Concentration

Page 2 of 2	Certificate No: 10F4979	Issue date: 23/06/2010
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Diagram



All testing has been conducted in accordance with the company's Technical Procedures Manual Section N-3 and HSE ACoP & guidance HSG248 (see comments for any deviations from method). Tests marked "****" in this certificate of analysis are not included in the UKAS accreditation schedule for this laboratory.

Comments:

X = Sample location

Requirements	Yes / No	Comments / values
Dust disturbance used (state type and duration)	NA	
Have all stipulations of HSG248 been met? (see comments box if not)	YES	
Are the results of all of the tests less than 0.01 fibres/cm ³ ?	YES	

Print Name: <u>N. Griffiths</u>	Signed Sampler
Print Name <u>N. Griffiths</u>	Signed Analyst

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Certificate of Analysis for Personal Air Test

Page 1 of 1	Certificate No: 10F4979	Issue date: 23/06/2010	
Date of receipt of samples/sampling: 23/06/2010		Analysis date: 23/06/2010	

Client name, address and contact details: Aneurin Bevan Local Health Board Works and Estates Management Centre St Cadoc's Hospital Lodge Road Caerleon NP18 3XQ	Site address: Belle Vue Ward St Cadoc's Hospital Caerleon NP18 3XQ
Location :	Belle Vue Ward – Office in TV room
Location slides counted:	Office next to smoking room
Material removed/worked on:	NA
Areas to be assessed and brief description of works:	Personal air test carried out while old sash windows were being replaced with new UPVC windows. Personal was worn by operative removing windows (Phil Bouge of Avondale Windows)
NAS Laboratories Risk Assessment complete	Yes

Test kit number	K7	Measured graticule diameter (µm)	99
Microscope number	M8	Barometric pressure (hPa*)	1020
HSE test slide band	Band 5	Temperature reading (°C*)	19
Exp filter diameter (mm)	21.9	Field Blank	

Sample No.	Pump No.	Cowl No.	Time Started	Time Stopped	Sample Duration (Min)	Flow rate (L/min)		Volume Sampled (litres)	No. of Fibres	No. of Fields	Limit of Quantification	Concentration fibres/ml (fibres/cm ³)
						Initial	Final					
3	P97	K703	0920	0935	15	2.0	2.0	30	3.5	200	0.16	<0.16

Comments Operative's name: Phil Bouge (Avondale Windows) Respirator worn: None Activity undertaken: Removal of old sash windows	All testing is in accordance with Section N-3 of the company's Technical Procedures Manual and HSE Guidance HSG248 (see comments for any deviations from method).
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Print Name: <u>N. Griffiths</u>	Signed Sampler
Print Name: <u>N. Griffiths</u>	Signed Analyst

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