



ARMOUR
ANALYTICAL SERVICES

Project Number 2481

**Management
Asbestos Survey Report**

**The Royal Wessex, Hanger L5, Swindon,
SN4 0QZ and Wessex RFCA, Storage
Hanger, Swindon, Wiltshire, SN4 0QZ**



Working in Partnership with Shield Environmental Services



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Section 1: Contact Details

Client Details:		Instructing Party:	
Wessex RFCA Mount House Mount Street Taunton TA1 3QE		Shield Environmental Shield House Caxton Business Park Crown Way Bristol BS30 8XJ	
Contact Name:	Sue Morrell	Contact Name:	Chloe Smith
Tel: 01823250115	Fax: N/A	Tel: 01173012650	Fax: N/A

Site Address:		Report Author:	
The Royal Wessex Hanger I5 Swindon SN4 0QZ		Armour Analytical Services Admirals Yard Station Road Bristol BS34 6LR	
Contact Name:	Nigel Hunt	Contact Name:	Emma Humphreys
Tel: 01793523865	Fax: N/A	Mobile: 07468535836	

Lead Surveyor's Name:	Lead Surveyor's Authorising Signature:
D. Kelly	

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Section 2: Executive Summary

Sample Number	Sample Type	Location	Analysis
DK/1	Sink Pad	Lobby, Washroom and WC	N.A.D.I.S
DK/2	Bitumen Coating to Pipework	Tank Room	N.A.D.I.S
DK/3	Pipework Insulation	Tank Room	N.A.D.I.S
DK/4	Gaskets	Tank Room	Chrysotile
DK/5	Paper Lining to Pipework	Main Hanger	Chrysotile
DK/6	Bitumen Coating to Hanger Roof	Externals	N.A.D.I.S

N.A.D.I.S – No Asbestos Detected in Sample

A.D – Asbestos Detected

In addition to the above sampled items, the following items have been either been “Strongly Presumed” To Contain Asbestos or “Presumed” to Contain Asbestos as they were either visually identified in being so, labelled after previously being sampled on prior surveys or not accessible at the time of the survey:

Item 8 – Boiler Room – No Access within room as boarded up

Item 9 – External – Electrical Box – No Access as Live Electrics

Item 10 – External – Bitumen Wrap to Main Cable – No Access as live electrics

Item 13 – Main Hanger – Bitumen Wrap to Mains Cable – No Access as Live electrics

Item 14 – Main Hanger – Electrical Boxes – No Access as Live Electrics

The presence of asbestos in these areas cannot be ascertained at this time. If any works are to be carried out in these areas in the future, then these works should be approached cautiously.

In accordance with current legislation, any suspect materials encountered in these areas are to be assumed to contain asbestos until proven otherwise. This will normally involve cessation of works in the affected area.

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Section 3: Site Description & Survey Information

Brief description on the general building construction

Concrete Construction with a Bitumen Covered Metal Roof

Caveat for no access areas

No Access within Live Electrics
 No Access within Boiler Room as it has been boarded up

EXTERNAL MATERIALS

Roof Type	Arched
Roof Materials	Bitumen Covered Metal
Soffits	N/A
Fascia	Cement, Metal, Wood
Walls	Metal, Block
Verge Under cloaking	N/A
Guttering	Plastic
Downpipes	Plastic/Metal
Window/Door frames	Timber
Other Materials	N/A

INTERNAL MATERIALS

Loft Insulation	N/A
Roof Underlining	N/A
Ceilings	Concrete, Metal, Wood
Walls <i>Internal</i>	Metal, Block
Floors	Screed, Ceramic Tiles
Doors/Frames	Timber, Metal
Pipework/Insulation	MMMF, Asbestos Paper Lining, Bitumen Coating
Boxings	N/A
Boiler Make	No access within Boiler Room as boarded up
Flue Pipes	N/A
Storage Heaters	N/A
Electrical Boxes/Machinery	Old and New Boxes
Ducting/Risers	N/A
Stairs	N/A
Lift Shafts	N/A
Other Materials	N/A

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Section 4: Positive and Presumed Photos Sheets

Item No: 7
Sample No: DK/4
Location: Ground Floor - Tank Room


Material Description:	Gaskets	
Identification:	Sampled – Asbestos Detected	
Approx. quantity:	X 6 Gaskets	
Accessibility	Low	<i>Assessment Score</i>
Product type:	Textiles	2
Extent of Damage:	Moderate	2
Surface Treatment:	Unsealed	1
Asbestos type:	Chrysotile	1
Material Assessment Score:		6
Priority Assessment Score:		Low
Action:	Manage	
Comments:	N/A	

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Item No: 8

Sample No: N/A

Location: Ground Floor – Boiler Room



6

Material Description:	No Access Within Room	
Identification:	Presumed to Contain Asbestos	
Approx. quantity:	X 1 Room	
Accessibility	Low	<i>Assessment Score</i>
Product type:	No Access	3
Extent of Damage:	No Access	3
Surface Treatment:	No Access	3
Asbestos type:	No Access	3
Material Assessment Score:		12
Priority Assessment Score:		High
Action:	Further Investigation Required	
Comments:	No access as boarded up	

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Item No: 9

Sample No: N/A

Location: External



Material Description:	No Access within live electrics	
Identification:	Presumed to Contain Asbestos	
Approx. quantity:	X 1 Box	
Accessibility	Low	Assessment Score
Product type:	No Access	2
Extent of Damage:	No Access	1
Surface Treatment:	No Access	1
Asbestos type:	No Access	1
Material Assessment Score:		5
Priority Assessment Score:		Low
Action:	Manage	
Comments:	N/A	

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Item No: 10

Sample No: N/A

Location: External



Material Description:	Bitumen Wrap to Mains Cable	
Identification:	Presumed to Contain Asbestos	
Approx. quantity:	2LM	
Accessibility	Low	Assessment Score
Product type:	Bitumen	1
Extent of Damage:	Minor	1
Surface Treatment:	Non-Friable	0
Asbestos type:	Chrysotile	1
Material Assessment Score:		3
Priority Assessment Score:		Negligible
Action:	Manage	
Comments:	N/A	

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Item No: 11

Sample No: DK/5

Location: Ground Floor – Main Hangar



Material Description:	Paper lining to Pipework	
Identification:	Sampled – Asbestos Detected	
Approx. quantity:	4LM	
Accessibility	Medium	Assessment Score
Product type:	Paper	2
Extent of Damage:	Moderate	2
Surface Treatment:	Unsealed	1
Asbestos type:	Chrysotile	1
Material Assessment Score:		6
Priority Assessment Score:		Low
Action:	Encapsulate/Remove	
Comments:	Located to inside layer of pipework insulation. Paper lining hanging off and may fall	

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Item No: 12

Sample No: N/A

Location: Ground Floor - Main Hangar



Material Description:	Paper lining Debris on Floor	
Identification:	As Per Sample DK/5 – Asbestos Detected	
Approx. quantity:	Non-Quantifiable	
Accessibility	High	Assessment Score
Product type:	Paper	2
Extent of Damage:	Major	3
Surface Treatment:	Unsealed	1
Asbestos type:	Chrysotile	1
Material Assessment Score:		7
Priority Assessment Score:		Medium
Action:	Remove	
Comments:	Located directly below damaged pipework insulation from item 11. Likely containing asbestos paper lining	

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Item No: 13

Sample No: N/A

Location: Ground Floor - Main Hangar



Material Description:	Bitumen Wrap to Mains Cables	
Identification:	Presumed to Contain Asbestos	
Approx. quantity:	X 2 Cables (1LM Total)	
Accessibility	Low	<i>Assessment Score</i>
Product type:	Bitumen	1
Extent of Damage:	Minor	1
Surface Treatment:	Non-Friable	0
Asbestos type:	Chrysotile	1
Material Assessment Score:		3
Priority Assessment Score:		Negligible
Action:	Manage	
Comments:	No access to sample as live	

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Item No: 14

Sample No: N/A

Location: Ground Floor - Main Hangar



Material Description:	No Access within Live Electrics	
Identification:	Presumed to Contain Asbestos	
Approx. quantity:	X 1 Box	
Accessibility	Low	Assessment Score
Product type:	No Access	2
Extent of Damage:	No Access	1
Surface Treatment:	No Access	1
Asbestos type:	No Access	1
Material Assessment Score:		5
Priority Assessment Score:		Low
Action:	Manage	
Comments:	Treat as uniform to electrical panels throughout building	

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Item No: 16

Sample No: N/A

Location: Ground Floor - Main Hangar



Material Description:	Paper lining to Pipework	
Identification:	As Per Sample DK/5 – Asbestos Detected	
Approx. quantity:	7LM	
Accessibility	Low	<i>Assessment Score</i>
Product type:	Paper	2
Extent of Damage:	Moderate	2
Surface Treatment:	Unsealed	1
Asbestos type:	Chrysotile	1
Material Assessment Score:		6
Priority Assessment Score:		Low
Action:	Encapsulate/Remove	
Comments:	Located at high level above main hangar door. Visually similar to pipework in item 11 and on the same pipe run. In poor condition with areas of insulation hanging off	

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Section 5: Negative Photos Sheets

Item No: 1

Sample No: N/A

Location: Ground Floor – Lobby and Store



Material Description:	Visual Inspection – No Suspect Materials Found	
Identification:	N/A	
Approx. quantity:	N/A	
Accessibility	N/A	<i>Assessment Score</i>
Product type:	N/A	N/A
Extent of Damage:	N/A	N/A
Surface Treatment:	N/A	N/A
Asbestos type:	N/A	N/A
Material Assessment Score:		N/A
Priority Assessment Score:		N/A
Action:	N/A	
Comments:	N/A	

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Item No: 2

Sample No: DK/1

Location: Ground Floor – Lobby, Wash Room and WC



Material Description:	Sink Pad	
Identification:	Sampled – No Asbestos Detected	
Approx. quantity:	X 2 Pads	
Accessibility	N/A	<i>Assessment Score</i>
Product type:	N/A	N/A
Extent of Damage:	N/A	N/A
Surface Treatment:	N/A	N/A
Asbestos type:	N/A	N/A
Material Assessment Score:		N/A
Priority Assessment Score:		N/A
Action:	N/A	
Comments:	N/A	

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Item No: 3

Sample No: N/A

Location: Ground Floor – Office



Material Description:	Visual Inspection – No Suspect Materials Found	
Identification:	N/A	
Approx. quantity:	N/A	
Accessibility	N/A	<i>Assessment Score</i>
Product type:	N/A	N/A
Extent of Damage:	N/A	N/A
Surface Treatment:	N/A	N/A
Asbestos type:	N/A	N/A
Material Assessment Score:		N/A
Priority Assessment Score:		N/A
Action:	N/A	
Comments:	N/A	

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Item No: 4

Sample No: N/A

Location: Ground Floor – Stores x 2



Material Description:	Visual Inspection – No Suspect Materials Found	
Identification:	N/A	
Approx. quantity:	N/A	
Accessibility	N/A	<i>Assessment Score</i>
Product type:	N/A	N/A
Extent of Damage:	N/A	N/A
Surface Treatment:	N/A	N/A
Asbestos type:	N/A	N/A
Material Assessment Score:		N/A
Priority Assessment Score:		N/A
Action:	N/A	
Comments:	N/A	

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**Item No: 5****Sample No: DK/2****Location: Ground Floor – Tank Room**

Material Description:	Bitumen Covering to Pipework	
Identification:	Sampled – No Asbestos Detected	
Approx. quantity:	25LM	
Accessibility	N/A	<i>Assessment Score</i>
Product type:	N/A	N/A
Extent of Damage:	N/A	N/A
Surface Treatment:	N/A	N/A
Asbestos type:	N/A	N/A
Material Assessment Score:		N/A
Priority Assessment Score:		N/A
Action:	N/A	
Comments:	N/A	

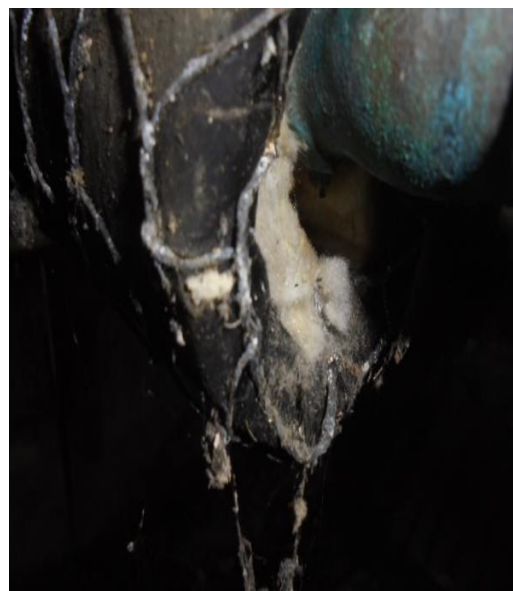
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Item No: 6

Sample No: DK/3

Location: Ground Floor – Tank Room



Material Description:	Pipework Insulation	
Identification:	Sampled – No Asbestos Detected	
Approx. quantity:	25LM	
Accessibility	N/A	<i>Assessment Score</i>
Product type:	N/A	N/A
Extent of Damage:	N/A	N/A
Surface Treatment:	N/A	N/A
Asbestos type:	N/A	N/A
Material Assessment Score:		N/A
Priority Assessment Score:		N/A
Action:	N/A	
Comments:	N/A	

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Item No: 15

Sample No: N/A

Location: Ground Floor – CCTV Room



Material Description:	Visual Inspection – No Suspect Materials Found	
Identification:	N/A	
Approx. quantity:	N/A	
Accessibility	N/A	<i>Assessment Score</i>
Product type:	N/A	N/A
Extent of Damage:	N/A	N/A
Surface Treatment:	N/A	N/A
Asbestos type:	N/A	N/A
Material Assessment Score:		N/A
Priority Assessment Score:		N/A
Action:	N/A	
Comments:	N/A	

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Item No: 17

Sample No: N/A

Location: Ground Floor – Storage Cages



Material Description:	Visual Inspection – No Suspect Materials Found	
Identification:	N/A	
Approx. quantity:	N/A	
Accessibility	N/A	<i>Assessment Score</i>
Product type:	N/A	N/A
Extent of Damage:	N/A	N/A
Surface Treatment:	N/A	N/A
Asbestos type:	N/A	N/A
Material Assessment Score:		N/A
Priority Assessment Score:		N/A
Action:	N/A	
Comments:	No access within cages as they were locked but no asbestos was visible from the outside	

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**Item No: 18****Sample No: DK/6****Location: External**

Material Description:	Bitumen Cover to Roof	
Identification:	Sampled – No Asbestos Detected	
Approx. quantity:	4500M2	
Accessibility	N/A	<i>Assessment Score</i>
Product type:	N/A	N/A
Extent of Damage:	N/A	N/A
Surface Treatment:	N/A	N/A
Asbestos type:	N/A	N/A
Material Assessment Score:		N/A
Priority Assessment Score:		N/A
Action:	N/A	
Comments:	A previous survey identified the bitumen cover to the roof as containing asbestos. Although the sample was negative, caution should be applied if making alterations to roof.	

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Section 6: Survey Objectives

Instructions were received from Sue Morrell of Wessex RFCA to carry out a Management asbestos survey at The Royal Wessex, Hanger L5, Swindon, SN4 0QZ and Wessex RFCA, Storage Hanger, Swindon, Wiltshire, SN4 0QZ in accordance with HSG264 and Armour Analytical's quality procedures.

The survey was carried out on 7th October 2019 by David Kelly with the objective of facilitating a Management report.

This Management survey is characterised as a 'Visual Inspection Sampling and Identification Survey' in HSG264. This type of survey is used to locate and describe, so far as is reasonably practicable, all asbestos containing materials (ACMs) in the building and will by its nature involve the partial destruction of the building's fabric as access is gained to all areas. A full sampling programme is undertaken to identify possible ACMs and estimate the extent of ACMs reported.

The objective of this survey report is to identify, so far as is reasonably practicable, the location, extent, product type and composition of ACMS within the building to enable the building occupants to put management and remedial procedures in place.

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Section 7: Survey Techniques

Each floor, room and area within the scope was systematically inspected for suspect materials thought or known to contain asbestos and where such materials were encountered their location, extent, and composition were recorded.

Where materials of a similar nature exist, to those previously sampled, and a reasoned argument can be made that their composition is likely to be identical further physical sampling was not undertaken.

Photographs were taken of all sample locations, unless otherwise stated.

The analysis of suspect ACMs was undertaken by a UKAS accredited laboratory using the analytical method detailed in *HSG248, Appendix 2 -Asbestos: The analysts' guide for sampling, analysis and clearance procedures*.

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Section 8: Survey Caveat

This report is based upon a management report inspection of an unfamiliar site. During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos within the building.

A Management Survey is a non-intrusive survey, meaning that access within the fabric of the building is limited. The survey does not include access to the following areas (unless agreed beforehand with the Client and provisions are put in place):

- Within wall or ceiling construction;
- Under fixed flooring;
- Within non-openable boxings;
- Within live electrics, boilers or machinery;
- Where access/visibility is limited in an area due to stored items, furniture or services;
- Areas where there is no safe access to inspect such as floor ducts, lift shafts and loft spaces with no crawlboards;
- High level areas that are too high to safely inspect.
- Within pipework insulation throughout building as this would affect the integrity of services.

Any intrusive works carried out within the building must first be subject to a Refurbishment Asbestos Survey.

This report will be restricted to the areas that fall within the scope of works for project and will not take into account any area's that do not fall within the scope. Any asbestos that is identified within this report will need to be added to the buildings existing information and should not form the basis for a management survey. This survey will not include priority assessments nor will it include a register.

This survey considered the construction of the building, associated fixtures & fittings and associated structures and in no way should it be considered as a ground investigation report.

Services should be disconnected prior to commencement of a Management survey; however, where plant and/or electrical installations are live or appear to be live then these will not be accessed.

This survey report is not a bill of quantities.

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Section 9: Survey Notes

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the investigation took place.

Where similar items exist in the building, only one or two samples have been taken to ascertain the material content. It was assumed that similar products were of the same material.

Any person undertaking work within the buildings should be told of the presence of asbestos. This briefing also applies to any other person associated with the site, including staff, sub-contractors and others.

The drawings in the report are not to scale and are illustrative only to indicate approximate locations. The descriptions used are for location identification purposes.

All the recommendations described in this report are based upon assumptions made after consideration of the type of material, condition of the material, its location, analysis result and type of use the area is thought to be subjected to. However, statutory authorities or others could require amendments based on local knowledge, change in legislation, change in use or indeed other conditions or criteria.

Samples taken from floor tiles (or similar material) may include a bitumen adhesive as part of the sample. It is known that some proprietary brands of bitumen have an asbestos content and this will be included as an integral part of the bulk sample unless otherwise stated.

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Section 10: Material Assessment Algorithm

Variable	Score	Examples
Installation / Product type	1	Vinyl, 'Bakelite', Cement
	2	Asbestos insulating board, paper, rope
	3	Pipe insulation, spray coating, friable debris
Condition / damage	0	Good
	1	Slight / minor damage
	2	Moderate damage – breakage to surface treatment
	3	Major damage – smashed or exposed material
Surface treatment	0	Non-friable e.g. vinyl
	1	Enclosed insulation, encapsulated AIB
	2	Unsealed AIB, encapsulated insulation
	3	Unsealed insulation or spray coating
Asbestos type	1	Chrysotile
	2	Amosite & other amphiboles
	3	Crocidolite

The scores from each of the four sections are added together to produce a risk score:

Risk score	Risk assessment
10 or more	High risk
7 – 9	Medium risk
5 – 6	Low risk
4 & below	Negligible risk

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Section 11: Certificates of Bulk Analysis



Our Ref: J176968 Rev. 3 FI: 6
Your Ref: 2481
Date: 04/11/2019

ENVIROCHEM
Analytical Laboratories Ltd.
12 The Gardens
Broadcut, Fareham
Hampshire
PO16 8SS



1227
Tel: (01329) 287777
Fax: (01329) 287755
www.envirochem.co.uk
office@envirochem.co.uk

Asbestos Fibre Identification Report

Client: Armour Analytical Services Ltd
Admirals Yard, Station Road, Patchway, Bristol, BS34 6LR
Site Address: The Royal Wessex, Hangar L5, Swindon, SN4 0QZ
Sampled By: Armour Analytical Services Ltd
Date sampled/received: 1st November 2019
Date analysed: 4th November 2019
Analyst/s: Raphael Mirzaian
Analysis Location: 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS

ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' method (2.01) 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
DK/1	BS579059	Lobby - Wash Room and WC - Sink Pad	No	
DK/2	BS579060	Tank Room - Bitumen Coating to Pipework	No	
DK/3	BS579061	Tank Room - Pipework Insulation	No	
DK/4	BS579062	Tank Room - Gaskets	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. The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated and 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 ISO1248 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.
7. This report shall not be reproduced except in full, without written approval of Envirochem.

SIGNATURE:

Authorised signatory

PRINT NAME: Frances Scott

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

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Your Ref: 2481
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ENVIROCHEM

Analytical Laboratories Ltd.

12 The Gardens
Broadcut, Fareham
Hampshire
PO16 8SS



1227
Tel: (01329) 287777
Fax: (01329) 287755
www.envirochem.co.uk
office@envirochem.co.uk

Asbestos Fibre Identification Report

Client: Armour Analytical Services Ltd
Admirals Yard, Station Road, Patchway, Bristol, BS34 6LR
Site Address: The Royal Wessex, Hangar L5, Swindon, SN4 0QZ
Sampled By: Armour Analytical Services Ltd
Date sampled/received: 1st November 2019
Date analysed: 4th November 2019
Analyst/s: Raphael Mirzaian
Analysis Location: 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS

ANALYTICAL PROCEDURE

Fibre identification was carried out in accordance with the documented 'in-house' method (2.01) 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
DK/5	BS579063	Main Hanger - Paper lining to pipework	Yes	Chrysotile
DK/6	BS579064	Externals - Bitumen Coating to Hangar Roof	No	

NOTES:

- Sample(s) were examined for the presence of 6 types of asbestos fibres: crocidolite (blue), amosite (brown), chrysotile (white), anthophyllite, actinolite and tremolite.
- The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated and 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.
- Envirochem is a UKAS accredited laboratory for sampling and identification of asbestos containing materials.
- Comments, observations and opinions are outside the scope of UKAS accreditation.
- The analytical method in the HSG248 does not quantify the amount of asbestos present, therefore UKAS accreditation does not permit quantification.
- If, during fibre identification, only 1 or 2 fibres are seen and identified as asbestos, then the term 'trace asbestos identified' is used.
- This report shall not be reproduced except in full, without written approval of Envirochem.

SIGNATURE:

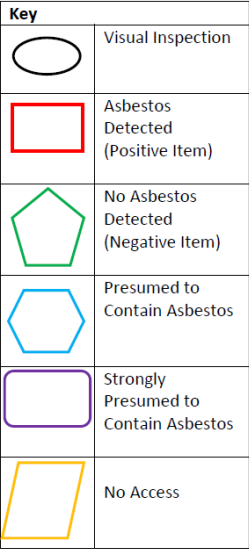
Authorised signatory

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I the surveyor can confirm that this report is accurate to my findings onsite and this survey has been Content checked by myself.

Checked by: David Kelly

Date: 14/11/2019

I the Admin Manager can confirm that this report is accurate to the paperwork received and this survey has been quality checked by myself.

Checked by: Emma Humphreys

Date: 12.11.2019

Report Compiled By

Armour Analytical Services Ltd, Admirals Yard, Station Road, Bristol, BS34 6LR

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