



ARMOUR
ANALYTICAL SERVICES

Project Number 2481

**Management
Asbestos Survey Report**

**Wyvern Barracks, Barrack Road, Exeter, Devon,
EX2 6AE (Building 14)**



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: | |
|---|--------------------|--|-------------|
| Wyvern Barracks Barrack Road Exeter Devon EX2 6AE | | Armour Analytical Services Admirals Yard Station Road Bristol BS34 6LR | |
| Contact Name: | Andy Palmer | Contact Name: | David Kelly |
| Tel: 07775560719 | Fax: N/A | Mobile: 07769707519 | |

| 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 |
|---------------|-------------|------------|-----------|
| 1 | Roof Felt | Loft Space | N.A.D.I.S |

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

The following items have been Presumed to be Asbestos Containing Materials as they were not accessible at the time of the survey:

Item 5 – Store – No access within store as locked and no key was available.

Item 10 – Boiler Room – Boiler - No access within boiler as live

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

Brick and Block construction with a pitched tiled roof.

Caveat for no access areas

No access within live boiler

EXTERNAL MATERIALS

| | |
|----------------------|-------------|
| Roof Type | Pitched |
| Roof Materials | Slate Tiles |
| Soffits | Timber |
| Fascia | Timber |
| Walls | Brick |
| Verge Under cloaking | N/A |
| Guttering | Plastic |
| Downpipes | Plastic |
| Window/Door frames | Timber |
| Other Materials | N/A |

INTERNAL MATERIALS

| | |
|----------------------------|-------------------------------------|
| Loft Insulation | Fiberglass |
| Roof Underlining | Bitumen Felt |
| Ceilings | Plasterboard |
| Walls <i>Internal</i> | Brick, Plasterboard |
| Floors | Ceramic Tiles, Carpet, Lino, Screed |
| Doors/Frames | Timber |
| Pipework/Insulation | Copper, Plastic |
| Boxings | Timber |
| Boiler Make | Ideal Mexico 2 |
| Flue Pipes | Metal |
| Storage Heaters | Radiators |
| Electrical Boxes/Machinery | Modern Boxes |
| Ducting/Risers | Timber Riser |
| Stairs | N/A |
| Lift Shafts | N/A |
| Other Materials | N/A |

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Section 4: Positive and Presumed Photos Sheets

Item No: 5

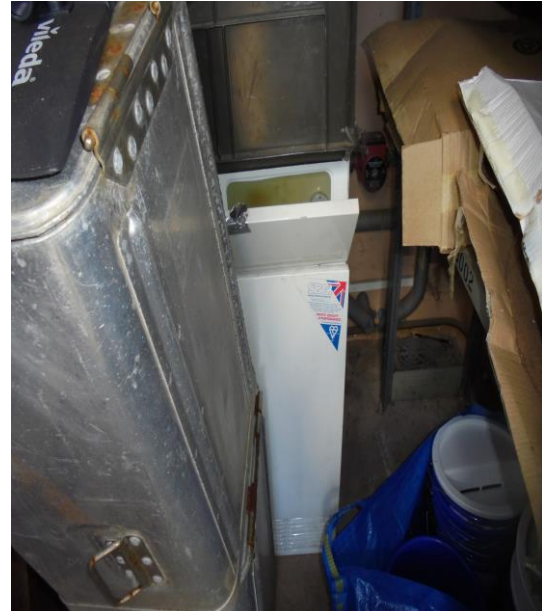
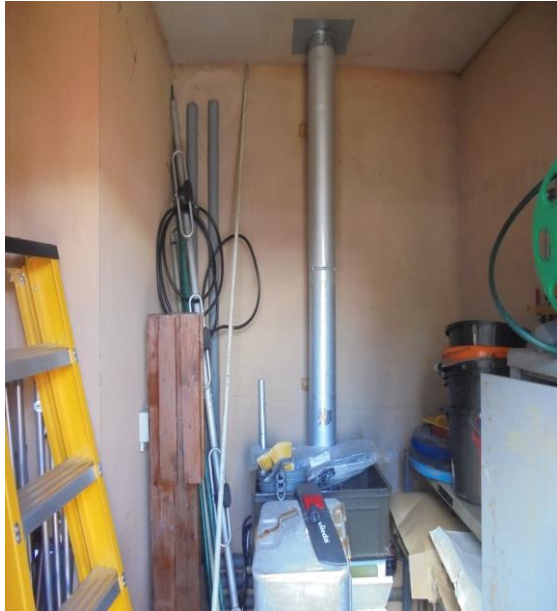
Sample No: N/A

Location: Store



| | | |
|-----------------------------------|---|-------------------------|
| Material Description: | No access within store as locked | |
| 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 key available. No one onsite had a key during the survey | |

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**Item No: 10****Sample No: N/A****Location: Boiler Room**

| | | |
|-----------------------------------|---|-------------------------|
| Material Description: | No access within Live Boiler | |
| Identification: | Presumed to Contain Asbestos | |
| Approx. quantity: | X 1 Boiler | |
| 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: | Manage | |
| Comments: | Unable to inspect within boiler as live | |

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Section 5: Negative Photos Sheets

Item No: 1

Sample No: N/A

Location: Offices 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 |
| Extent of Damage: | | N/A |
| Surface Treatment: | | N/A |
| Asbestos type: | | 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: N/A

Location: Offices x 2 and Electric Cupboard



| | | |
|-----------------------------------|--|-------------------------|
| 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 |
| Extent of Damage: | | N/A |
| Surface Treatment: | | N/A |
| Asbestos type: | | N/A |
| Material Assessment Score: | | N/A |
| Priority Assessment Score: | | N/A |
| Action: | N/A | |
| Comments: | No access within timber boxing. Modern electrics in cupboard | |

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Item No: 3

Sample No: 1

Location: Loft Space



| | | |
|-----------------------------------|--|-------------------------|
| Material Description: | Roof felt | |
| Identification: | Sampled – No Asbestos Detected | |
| Approx. quantity: | 160M2 | |
| Accessibility | N/A | <i>Assessment Score</i> |
| Product type: | | N/A |
| Extent of Damage: | | N/A |
| Surface Treatment: | | N/A |
| Asbestos type: | | N/A |
| Material Assessment Score: | | N/A |
| Priority Assessment Score: | | N/A |
| Action: | N/A | |
| Comments: | Limited access into loft as no crawl boards were available | |

| | | | | | |
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Item No: 4

Sample No: N/A

Location: Hall



| | | |
|-----------------------------------|--|-------------------------|
| 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 |
| Extent of Damage: | | N/A |
| Surface Treatment: | | N/A |
| Asbestos type: | | N/A |
| Material Assessment Score: | | N/A |
| Priority Assessment Score: | | N/A |
| Action: | N/A | |
| Comments: | No access within the timber boxing | |

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Item No: 6

Sample No: N/A

Location: Kitchen and Cupboard



| | | |
|-----------------------------------|--|-------------------------|
| 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 |
| Extent of Damage: | | N/A |
| Surface Treatment: | | N/A |
| Asbestos type: | | N/A |
| Material Assessment Score: | | N/A |
| Priority Assessment Score: | | N/A |
| Action: | N/A | |
| Comments: | Modern Sink Pad | |

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Item No: 7

Sample No: N/A

Location: Modelling and Comms Rooms



| | | |
|-----------------------------------|--|-------------------------|
| 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 |
| Extent of Damage: | | N/A |
| Surface Treatment: | | N/A |
| Asbestos type: | | N/A |
| Material Assessment Score: | | N/A |
| Priority Assessment Score: | | N/A |
| Action: | N/A | |
| Comments: | N/A | |

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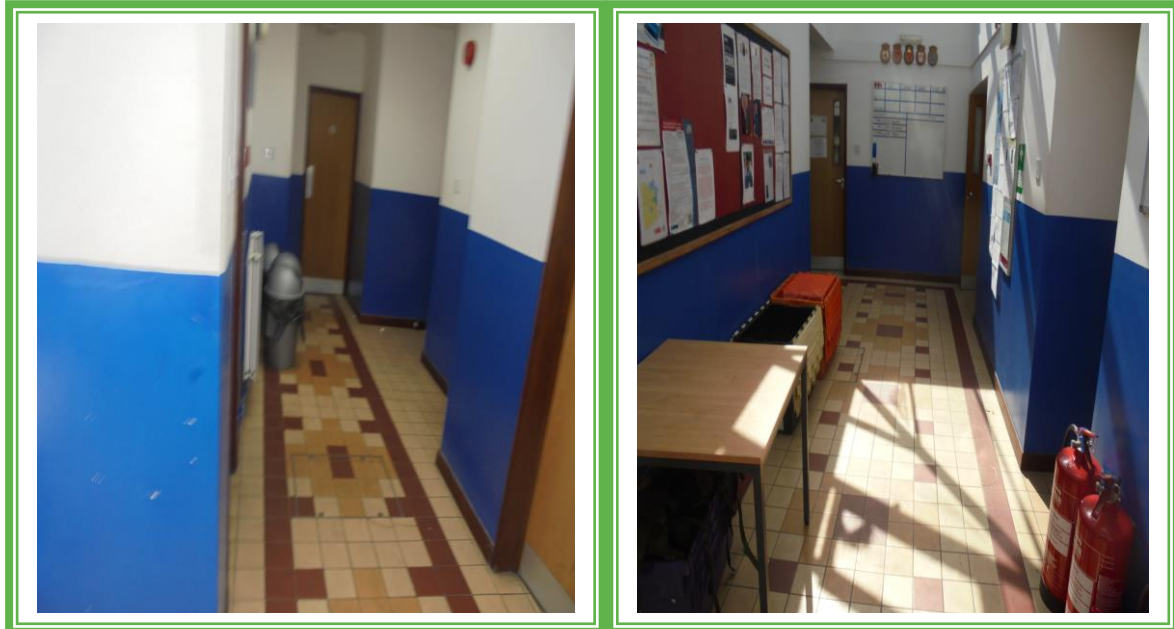
Sample No: N/A

Location: WC's 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 |
| Extent of Damage: | | N/A |
| Surface Treatment: | | N/A |
| Asbestos type: | | N/A |
| Material Assessment Score: | | N/A |
| Priority Assessment Score: | | N/A |
| Action: | N/A | |
| Comments: | N/A | |

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**Item No: 9****Sample No: N/A****Location: Corridor**

| | | |
|-----------------------------------|--|-------------------------|
| 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 |
| Extent of Damage: | | N/A |
| Surface Treatment: | | N/A |
| Asbestos type: | | N/A |
| Material Assessment Score: | | N/A |
| Priority Assessment Score: | | N/A |
| Action: | N/A | |
| Comments: | N/A | |

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Item No: 11

Sample No: N/A

Location: External



| | | |
|-----------------------------------|--|-------------------------|
| 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 |
| Extent of Damage: | | N/A |
| Surface Treatment: | | N/A |
| Asbestos type: | | N/A |
| Material Assessment Score: | | N/A |
| Priority Assessment Score: | | N/A |
| Action: | N/A | |
| Comments: | Slate roof tiles. Modern damp proof course | |

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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 Wyvern Barracks, Barrack Road, Exeter, Devon, EX2 6AE in accordance with HSG264 and Armour Analytical's quality procedures.

The survey was carried out on 21st June 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: J169856 FI: 1
Your Ref: 2481
Date: 26/06/2019

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: Building 14, Wyvern Barrack, Exeter, -
Sampled By: Armour Analytical Services Ltd
Date sampled/received: 25th June 2019
Date analysed: 26th June 2019
Analyst/s: Bradley Travis
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 |
|------------|-------------|------------------|-------------------|---------------|
| 1 | BS559480 | Loft space. Roof | 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.
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 ISO1246 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:

Bradley Travis

Authorised signatory

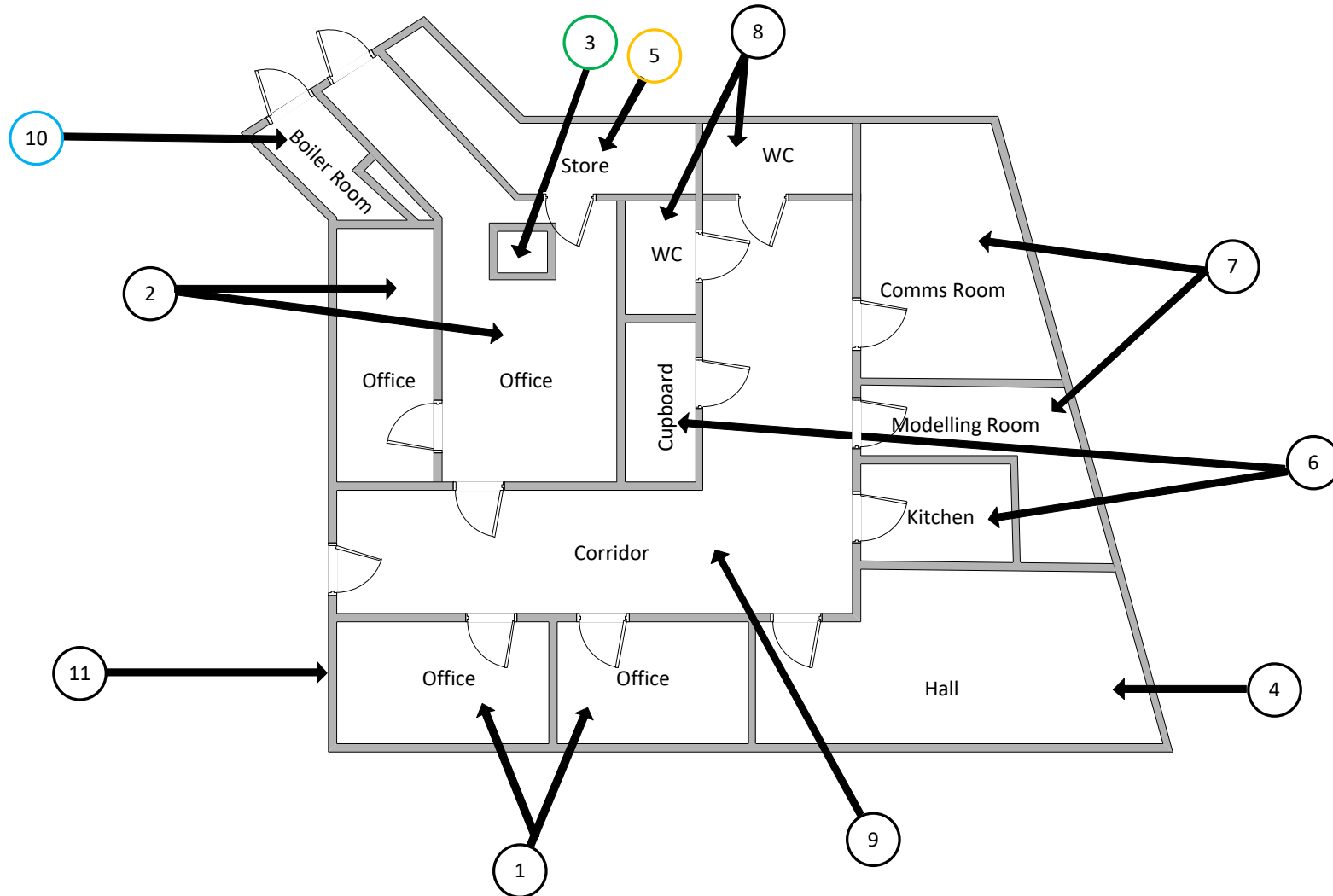
PRINT NAME: Bradley Travis






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

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Section 12: Site Plan



| KEY | |
|--|------------------------------------|
|  | Visual Inspection |
|  | ACM's Detected (Positive Items) |
|  | No ACM's Detected (Negative Items) |
|  | Presumed to Contain ACM's |
|  | No Access |

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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: 10/07/2019

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: 10.07.2019

Report Compiled By

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

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