



Refurbishment Survey

Survey Reference Number: X-00347/DC/0416

Date: 18 April 2016

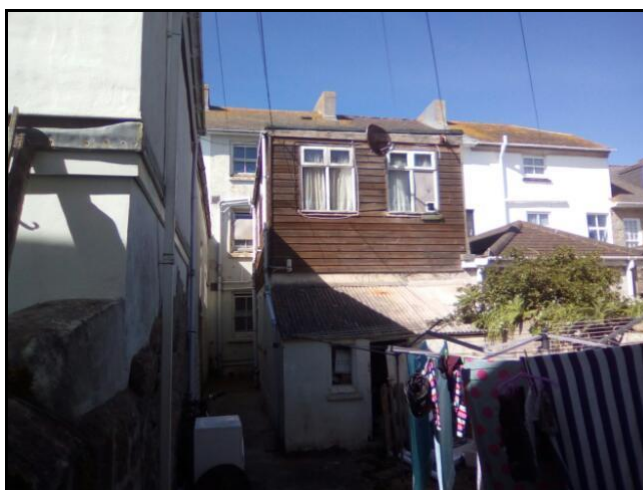
Client Specified Areas

Longras

St Mary's

Isles of Scilly

TR21 0JT



Shield Environmental Services Ltd,
Asbestos Consultancy, Shield House,
Caxton Business Park, Crown Way,
Warmley Bristol, BS30 8XJ
0117 960 6366
0117 960 5583
enquiries@shieldenvironmental.co.uk

Report Authorised by

Name:

Signed:

Disclaimer

This document is not to be used by a third party without express permission of Shield Environmental Services Ltd (Consultancy Division). No liability to anyone else is accepted. Should you not act upon specific reasonable advice contained within this report, Shield Environmental Services Ltd will accept no responsibility for the consequences.

This inspection report shall not be reproduced except in full, without the approval of the inspection body and the client.

Shield Environmental Services Ltd (Consultancy Division) wish to advise our client(s) that no obligation (actual, assumed or otherwise) may be placed upon the client, for further work related to the recommendation from this report.

Please note Shield Environmental Services Ltd (Consultancy Division) cannot be held responsible for the way in which the client may interpret or act upon the results of the report. This report must be read in its entirety including any appendices. Shield Environmental Services Ltd accepts no responsibility for sub-division of this report.

No responsibility can be taken for any misinterpretation of this report by third parties.

Table of Contents

Section 1.0: Executive Summary	4
Section 1.0: Executive Summary (continued)	5
Section 2.0: Introduction	6
Section 2.1: Survey Scope	6
Section 2.2: Limitations.....	7
Section 2.0: Introduction (continued).....	8
Section 2.3: Details.....	8
Section 2.4: Survey Type	8
Section 3.0: Survey Method	9
Section 4.0: General Comments	10
Section 4.0: General Comments (Continued)	11
Section 5.0: Terminology	12
Section 5.1: Material Assessment Score Algorithm	13
Section 5.2: Recommended Actions Explained.....	14
Section 6.0: Survey Findings & Room Construction.....	15
Appendix 1: Floor Plans	16
Appendix 2: Certificate of Bulk Sample Analysis.....	19

Section 1.0: Executive Summary

An Asbestos Refurbishment Survey was carried out in accordance with in-house asbestos surveying procedures and HSE guidance documentation *HSG 264: Asbestos: The Survey Guide* to the client specified areas only of Longras, St Mary's, Isles of Scilly, TR21 0JT.

The Survey was carried out by Shield Environmental Services Ltd, (Consultancy division) on behalf of Council of the Isles of Scilly on 18 April 2016.

The purpose of this survey was to locate as far as reasonably practicable the presence and extent of all suspected Asbestos Containing Materials (ACMs) in the building survey area which could be damaged or disturbed during planned refurbishment activities.

During the survey 2 samples were taken for analysis.

A Refurbishment Survey aims to locate all ACMs within the survey area. There is no requirement to assess the condition or 'Priority' information for management purposes. This is because it is presumed that all ACMs found will be removed as part of the planned refurbishment works. However, should any material remain in situ or if the related works are not undertaken then all ACMs identified should be re-assessed and managed in accordance with the recommended action set out in HSG 264 or CAR 2012. To manage the risk from ACMs, it is the Duty Holder's responsibility to keep and maintain an up-to-date record of the location, condition, maintenance and removal of all ACMs on the premises. If there is a risk of exposure due to the condition or location of the ACMs then they should be repaired, encapsulated and labelled, or removed. It is the responsibility of the Duty Holder to maintain ACMs in a good state of repair and regularly monitor the condition; the Duty Holder should inform anyone who is liable to disturb the ACMs about their location and condition.



X-00347/DC/0416

Date: 18 April 2016

Section 1.0: Executive Summary (continued)

Inaccessible areas encountered during the time of the survey, for which no information was obtained:

Room Name & No.	Restriction
External, Main Building	No access to main three storey roof due to height restrictions (outside scope of works).

Shield Environmental Services Ltd,
Asbestos Consultancy, Shield House,
Caxton Business Park, Crown Way,
Warmley Bristol, BS30 8XJ
0117 960 6366
0117 960 5583
enquiries@shieldenvironmental.co.uk

Section 2.0: Introduction

Shield Environmental Services Ltd Consultancy Division was instructed by Leonie Jones of Council of the Isles of Scilly to undertake an Asbestos Refurbishment Survey to ascertain the presence of any Asbestos Containing Materials (ACMs) within: Longras, St Mary's, Isles of Scilly, TR21 0JT:

The site consists of a two storey rear extension within a residential house.

The survey was carried out on 18 April 2016 by Dave Chudleigh of Shield Environmental Services Ltd.

Section 2.1: Survey Scope

The scope of the survey as defined by Council of the Isles of Scilly is to carry out a Refurbishment Survey to the client specified areas only of Longras, St Mary's, Isles of Scilly, TR21 0JT.

- Areas included in the survey:
 - External areas of rear extension only of Longras, St Mary's, Isles of Scilly, TR21 0JT were included in the survey.
- Agreed areas of exclusion from the survey scope:
 - All other areas of Longras, St Mary's, Isles of Scilly, TR21 0JT were excluded from the survey.

Section 2.2: Limitations

During the course of the survey all reasonable efforts were made to identify the presence of Asbestos Containing Materials within the surveyed areas. However, Asbestos Containing Materials (ACMs) are sometimes concealed within the fabric of a building or sealed building voids, and so it is not always possible to regard the findings of a survey as being definitive. Therefore, it must always remain a possibility that further Asbestos Containing Materials may be found during any alterations, refurbishment or demolition works. Asbestos Containing Materials (ACMs) may be hidden within the fabric of a building and may not be visible until the building is dismantled; it is therefore recommended that a complete review of the Asbestos register is undertaken before commencement of any works. Where areas have been identified as inaccessible within the report, it indicates that the area specified was not accessible to the surveyor at the time of the inspection either because such areas were locked despite requests for access to be arranged, or to gain entry would require an unreasonable degree of dismantling to the structure of the building. The client is therefore advised to the possibility of there being Asbestos Containing Materials in such areas.

HSE guidance: HSG 264: Asbestos: the survey guide states it is now recognised that even with 'complete' access demolition surveys, all ACMs may not be identified and this only becomes apparent during demolition itself. Therefore in buildings that are occupied, due to be re-occupied or due to extenuating circumstances, following the completion of the survey it may be required to undertake additional inspections or sampling prior to/during proposed refurbishment works to account for all hidden Asbestos Containing Materials (ACMs). Where this is likely a provision may need to be made to allow for a possible revisit, this may include inaccessible areas that will be listed in this report.

- Inaccessible areas encountered during the survey:
 - External, Main Building, No access to main three storey roof due to height restrictions (outside scope of works).
- Agreed Variations or Deviations from the standard HSG 264 method:
 - None

Section 2.0: Introduction (continued)

Section 2.3: Details

Site Address:

- Longras, St Mary's, Isles of Scilly, TR21 0JT

Client Name & Address:

- Council of the Isles of Scilly, Town Hall, St Marys, Isles of Scilly, TR21 0LW

Client Contact:

- Leonie Jones

Survey Start Date:

- 18 April 2016

Survey Completion Date:

- 18 April 2016

Survey Conducted by:

- Dave Chudleigh

Report Issued:

- 23 May 2016

Section 2.4: Survey Type

The nature of the survey is a Refurbishment Asbestos Survey as detailed in HSE publication: *HSG 264 Asbestos: The Survey Guide*. HSE guidance publication *HSG 264: Asbestos: The Survey Guide* describes a Refurbishment survey as a fully intrusive survey. A full sampling programme is undertaken to identify possible ACMs and estimates of volume and surface area made. A Refurbishment survey is required for all work which disturbs the fabric of the building in areas where the management survey has not been intrusive. The survey is designed to be used as a guide for tendering the removal of ACMs from the building(s) prior to refurbishment.

This report presents the findings of the survey and analysis reports of any bulk samples taken.

Section 3.0: Survey Method

Shield Environmental Services Ltd conducts Refurbishment surveys in accordance with our in-house Asbestos Surveying procedures and HSE guidance publication *HSG 264: Asbestos: The Survey Guide*. While the survey is fully intrusive, disruptive and non-destructive, it may involve penetrating all parts of the building structure, using aggressive inspection techniques to lift carpets and tiles, break through walls, ceilings cladding and partitions, and open up floors.

A Refurbishment survey uses a combination of visual inspection and bulk sampling to confirm the presence of Asbestos. Any area(s) inaccessible at the time of the survey must be presumed to contain Asbestos, and any inaccessible area(s) must have access restricted, and should be inspected prior to access or the commencement of any works.

All samples taken during the survey were done so by Shield Environmental Services competent surveyors and sent to an independent UKAS Accredited Laboratory for analysis by polarised light microscopy (PLM), in accordance with the method prescribed in HSE guidance publication: *HSG 248 Asbestos: The Analysts' Guide for Sampling, analysis and clearance procedures*. Completed Fibre Identification Report for all samples taken can be found in Appendix 2. (Representative samples were also taken of any materials that may be mistaken for potential ACMs). Sampling location stickers, bearing the individual samples unique identification number, have been applied to all sample points where practicable, for future reference.

Products that are very unlikely to contain Asbestos were not sampled (e.g. wallpaper, plasterboard, chipboard, wood etc.).

A Survey Report Form (SRF) is completed for each suspect sample taken; for materials strongly presumed to contain Asbestos (i.e. materials visually similar to positively identified ACMs); for areas presumed to contain Asbestos (i.e. areas where no access could be gained at the time of the survey; and non-accessed items of (electrical) equipment and plant).

Each SRF contains a colour photograph, individual material assessment scores (as prescribed under HSG 264), management recommendations and general observations / comments (where appropriate).

The SRFs are combined together to form a site-specific Asbestos Register.

Section 4.0: General Comments

This report relates to the situation on the day(s) of the inspection and cannot take into account subsequent changes in circumstances. Samples were taken of any materials historically known or presumed to contain Asbestos. This report contains findings based upon visual inspection and results of laboratory analysis

All figures and measurements quoted in the Asbestos Register detailing the extent of ACMs are estimates, based upon visual inspection on the day of the survey and should be used as a guide. It is the responsibility of contractors quoting for Asbestos Removal Works to take their own measurements to determine the exact extent of Asbestos to be removed. Unless otherwise stated pipework insulation and heating plant was not inspected in their entirety. Representative samples were taken at random intervals where suspect material was observed. The scope of the works did not permit complete exposure and assessment of all pipework and heating plant.

No responsibility can be taken for any misinterpretation of this report by third parties.

A limited inspection of pipework concealed by overlying non-Asbestos insulation has been conducted. Inspection of pipework has been restricted primarily to insulation visible. The presence of Asbestos debris to pipework, which is not readily visible or would require the full removal and replacement of overlying insulation, has therefore not been investigated.

No responsibility will be accepted for the presence of Asbestos in voids (under floor, or behind wall or ceiling) or pipework ducts other than those opened up during the survey.

The survey is limited to those areas accessed at the time of the survey.

We have not reported on concealed spaces, which may exist within the fabric of the building, and where the extent and presence of these is not evident, due to inaccessibility or insufficient knowledge of the structure at the time of the survey.

Due to the nature and variety of Asbestos used in building construction and the complex nature of some buildings, especially where modified over the years, it is possible that some ACMs may not have been identified in the survey. Where refurbishment is to follow a refurbishment Survey, it would be prudent in any contract to allow a contingency sum to provide for such possibility.

Section 4.0: General Comments (Continued)

Certain 'Artex' type textured coatings and decorative plasters may contain very small quantities of Asbestos. In situ, these coatings are often composed of different batches of product or may have been repaired / patched at different times. It is, therefore possible that any 'Artex' samples taken may not be representative of the entire coating. Recent research suggests that in some cases, the fibres may have diameters below 0.1 um. These may not be visible by the optical microscopy method described in HSE guidance publication *HSG 248: Asbestos: The Analysts' Guide for Sampling, Analysis and Clearance Procedures*.

At the time of the survey no access was gained to materials and/or void areas located above, behind or attached to suspect Asbestos Containing Materials sampled or presumed throughout the site. To do so would have required surveyors to break through suspect ACMs, such as textured coating and insulating board, potentially contaminating themselves and the work area with Asbestos. Therefore, it is recommended that site operatives are made aware of this survey limitation and instructed to exercise caution when breaking through materials and/or areas located above, behind or attached to suspect ACMs that have been found to contain Asbestos following laboratory analysis.

Section 5.0: Terminology

Asbestos – A term used for the fibrous form of several naturally occurring silicate minerals, used primarily because of its low thermal conductivity, high tensile strength, resistance to chemical attack, flexibility and incombustibility. *The Control of Asbestos Regulations 2012* defines and regulates asbestos as the fibrous forms of the following minerals or any mixture containing them. “Asbestos” means the following fibrous silicates;

Chrysotile (White Asbestos)

Crocidolite (Blue Asbestos)

Fibrous Grunerite - commonly known as *Amosite* (Brown Asbestos)

Fibrous Tremolite

Fibrous Anthophyllite

Fibrous Actinolite

ACM(s) - Asbestos Containing Material(s). Any material, substance or product that contains or has been made with Asbestos.

SPTCA - Strongly Presumed To Contain Asbestos.

PTCA - Presumed To Contain Asbestos.

NAD - No Asbestos Detected.

AD - Asbestos Detected.

SP - Strongly Presumed

Section 5.1: Material Assessment Score Algorithm

Sample Variable	Score	Example of Scores
Product Type (including debris from product)	1	Asbestos-Reinforce Composite (Plastic, Resin, Mastic, Roofing Felts, Vinyl Floor Tiles, Semi-Rigid Paints or Decorative Finishes, Asbestos Cement)
	2	Asbestos Insulating Board (AIB), Millboards, Other Low-Density Insulating Boards, Asbestos Textile, Gasket, Ropes and Woven Textile, Asbestos Paper and Felt
	3	Thermal Insulation (e.g. Pipe and Boiler Lagging), Sprayed Asbestos, Loose Asbestos, Asbestos Mattresses and Packing.
Extent of damage/deterioration	0	Good condition: no visible damage
	1	Low damage: a few scratches or surface marks, broken edges on board, tiles etc.
	2	Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose fibres.
	3	High damage or delamination of materials, Sprays and Thermal Insulation. Visible Asbestos debris
Surface treatment	0	Composite materials containing Asbestos: Reinforced Plastic, Resins, Vinyl Tiles.
	1	Enclosed Sprays and Lagging, AIB (with exposed face painted or encapsulated), Asbestos Cement Sheets etc.
	2	Unsealed AIB, or encapsulated Lagging and Sprays.
	3	Unsealed Lagging and Sprays.
Asbestos type	1	Chrysotile
	2	Amphibole (Amosite) Asbestos excluding Crocidolite
	3	Crocidolite

Potential to release Asbestos Fibres

- Materials with an assessment score of 10 or more are deemed to have a high potential to release fibres, if subject to minor disturbance, e.g. walking in the vicinity of the material.
- Materials with an assessment score between; 7-9 are deemed to have a medium potential to release fibres.
- Materials with an assessment score between; 5-6 are deemed to have a low potential to release fibres.
- Materials with an assessment score of 4 or less are deemed to have a very low potential to release fibres.

Section 5.2: Recommended Actions Explained

Monitor Condition - This material can stay in situ and be managed accordingly. Monitor condition regularly and record condition.

Label - Label the ACM with approved warning signs

Encapsulate - Use suitable encapsulating material to seal surface. Work with this material to be carried out in accordance with HSE Publication: *The Control of Asbestos Regulations 2012*.

Repair - This material requires repair. Work with this material to be carried out in accordance with HSE Publication: *The Control of Asbestos Regulations 2012*.

Restrict Access - Restrict access to area and communicate with employees, contractors and others to keep area free from personnel. Work with this material to be carried out in accordance with HSE Publication: *The Control of Asbestos Regulations 2012*.

Protect/Enclose - Use suitable material to protect / enclose ACM to minimise risk of impact damage.

Remove if Affected - If this material is likely to be disturbed by/during the proposed refurbishment works then material will need to be removed prior to work commencing. Work with this material to be carried out in accordance with HSE Publication: *The Control of Asbestos Regulations 2012*.

Remove - This material requires removal. Work with this material to be carried out in accordance with HSE Publication: *The Control of Asbestos Regulations 2012*.

No Access/Exercise Caution - Surveyors were unable to obtain access to material, item, room, area or building to conduct inspection for potential ACMs. Therefore, the area is assumed to contain Asbestos and the Duty Holder should exercise caution.

Please Note:

- Shield Environmental Services Ltd cannot be held responsible for the way in which the client may interpret or act upon the results of this report.
- Please refer to HSE Publication: *The Control of Asbestos Regulation 2012* prior to undertaking any remedial works on ACMs.
- In some instances more than one recommendation may be used.

Section 6.0: Survey Findings & Room Construction

Please note

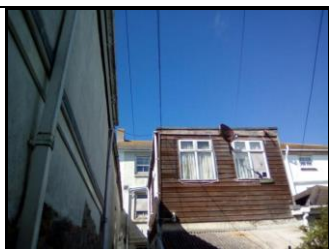
- Where areas were inspected and no ACMs were identified or presumed an entry has been placed into the report findings stating “No Asbestos Detected” within the respective area.

Room/Area Name & No: Extension

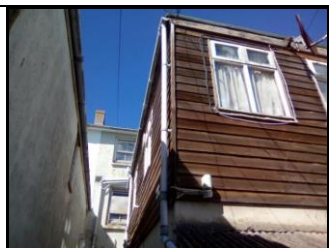
Floor: External


Room Construction / Description			
Walls	Block, Felt	Ducts/Pipe Runs	Metal
Cladding	Timber	DPM	N/A
Roof	Modern Felt, Profiled Sheets, Bitumen Felt	Loose Sheeting	N/A
Rainwater Goods	Plastic	Soffit Fascia's	UPVC
Soil Stacks	N/A	Staircases	N/A
Flues/Cowls	N/A	Comments	Only rear two storey extension surveyed, externally.

Positive Survey Findings & No Access Areas

Reference	3	Product Type (A)	1	
Sample No	No Sample Taken	Condition (B)	1	
Description	Roof	Surface Treatment (C)	1	
Accessibility	Low	Asbestos Type (D)	3	
Priority	Low	Material Score (A+B+C+D)	6	
Extent	Approx. 100m ²	Identification	PTCA	
Recommendation	Exercise Caution – See section 5.2			
Comments	No access to main three storey roof due to height restrictions (outside scope of works).			

Negative Survey Findings

Reference	1	Product Type (A)	N/A	
Sample No	00347/DC/001	Condition (B)	N/A	
Description	Bitumen Felt - Wall	Surface Treatment (C)	N/A	
Accessibility	Low	Asbestos Type (D)	N/A	
Priority	N/A	Material Score (A+B+C+D)	N/A	
Extent	40m ²	Identification	NAD	
Recommendation	No Action			
Comments	Felt behind wooden cladding.			

Reference	2	Product Type (A)	N/A	
Sample No	00347/DC/002	Condition (B)	N/A	
Description	Cement Profiled Sheets - Roof	Surface Treatment (C)	N/A	
Accessibility	Low	Asbestos Type (D)	N/A	
Priority	N/A	Material Score (A+B+C+D)	N/A	
Extent	12m ²	Identification	NAD	
Recommendation	No Action			
Comments				



X-00347/DC/0416

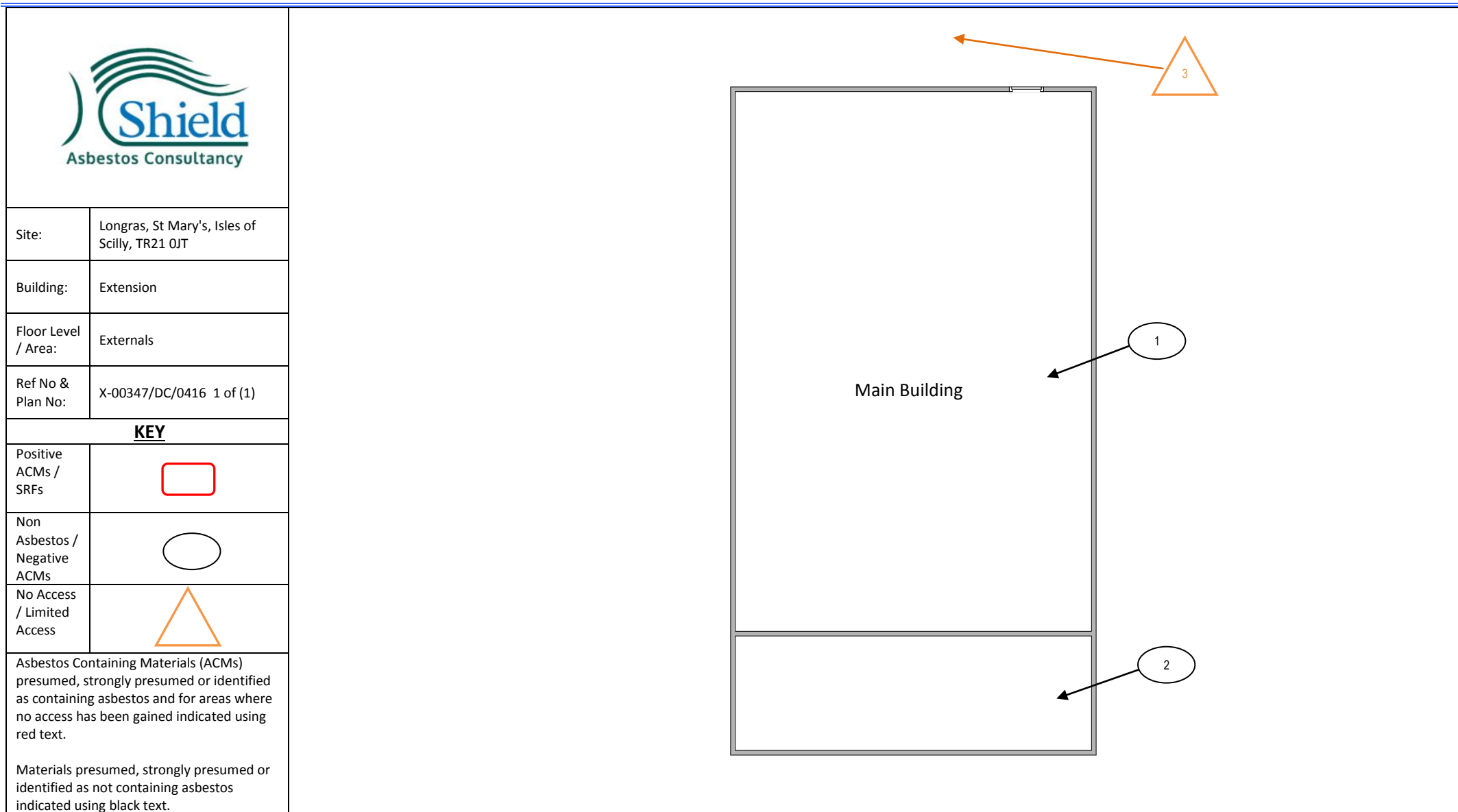
Date: 18 April 2016

Appendix 1: Floor Plans

Please note:

Where provided floor plans should be regarded as sketch-plans and for identification purposes only. They are intended to provide a visual appreciation of the buildings surveyed, showing locations of suspected ACMs, areas of no access and where samples were taken.

Shield Environmental Services Ltd,
Asbestos Consultancy, Shield House,
Caxton Business Park, Crown Way,
Warmley Bristol, BS30 8XJ
0117 960 6366
0117 960 5583
enquiries@shieldenvironmental.co.uk



• THIS PLAN SHOULD BE READ IN CONJUNCTION WITH THE MAIN BODY OF THE REPORT AND INDIVIDUAL SRFs



X-00347/DC/0416

Date: 18 April 2016

Appendix 2: Certificate of Bulk Sample Analysis

Address: Shield Environmental Services Ltd,
Asbestos Consultancy, Shield House,
Caxton Business Park, Crown Way,
Warmley Bristol, BS30 8XJ
Tel: 0117 960 6366
Fax: 0117 960 5583
Email: enquiries@shieldenvironmental.co.uk



Scientific Services Ltd.
The Fuel Depot, Scorrier, Redruth
Cornwall TR16 5UT
TEL: 01209 311350 FAX: 01209 820315
E mail: enquiries@scientificservices.org Web: www.scientificservices.org



ASBESTOS BULK ANALYSIS TEST REPORT

TEST REPORT NUMBER: J112786	Issue No: 1	Report Date: 26 Apr 2016
Shield Environmental Services Ltd (Asbestos Consultancy) Shield House, Caxton Business Park, Crown Way, Warmley, Bristol BS30 8XJ		Location:- Longras Flats, Isles of Scilly,
Date samples received by Lab:-	20/04/2016	Date Sampled:- 19/04/2016
		Date Tested:- 26/04/2016
		Your Order:- X-00347/AE10243

TEST RESULTS

SSL Number	Client Sample Number	Sample Type	Sample Details	Asbestos Type(s) Present
BS062764	X-00347/DC/001	Bituminous Product	Felt behind Cladding	No Asbestos Detected
BS062765	X-00347/DC/002	Cement	Roof Sheets	No Asbestos Detected

Additional Comments:
N/A

Analysed By:
Gary Lowe
Approved By:
Victoria Denny



Remarks: Materials have been referred to as Asbestos Insulation Board or Asbestos Cement based upon their asbestos content and visual appearance alone. Water Absorption testing of materials has not been carried out unless stated otherwise. Where samples have not been taken by Scientific Services Ltd, it can only report analysis results. No responsibility can be taken for any consequences arising from the client's sampling strategy or procedures, or the use of these results in subsequent reports. Tests marked \$ in this report have been subcontracted to a UKAS accredited laboratory.

SOP No. D3TA1 based on HSG248 Appendix 2. This report relates only to the samples tested. Opinions and interpretations herein are outside the scope of UKAS accreditation. This report may not be reproduced except in full, without written approval of the laboratory.