

Asbestos Survey Report



Client **Gloucestershire County Council**
Site Ref **N/A**
Site Address **Stroud Branch Library
Stroud
GL5 1JR**
Survey Date **24 September 2012**
Report Issue Date **19 October 2012**
Report Reference **GCC0170**
Survey Type **Management Survey**



**Asbestos
Consultancy Practice**

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Section A

Client: Gloucestershire County Council
Site Ref: N/A
Site Address: Stroud Branch Library, Stroud, GL5 1JR
Survey Date: 24 September 2012
Report Reference: GCC0170

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Report Details

Site Address	Stroud Branch Library, Stroud, GL5 1JR
Client	Gloucestershire County Council
Client Contact	Phil Ashbee-Dobbins
Client Address	Corporate Building Services, Resources Directorate, Shire Hall, Westgate Street, Gloucester, GL1 2TG
Client Ref	N/A
Survey Date	24 September 2012
Report Reference	GCC0170
Survey Carried Out By	M Chard
Analytical Laboratory	AC&MS Ltd

Report Prepared by : **A Cockerell**

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Signature :

Report Authorised by (Lead Surveyor) : **M Chard**

Signature :

Report Issue Date : **19 October 2012**



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Introduction

This report details the findings of an asbestos survey commissioned by the client. The main aim and objectives of the survey were as follows:

- To identify areas where asbestos is present
- To identify the type and extent of asbestos material where present
- To assess the state of repair and condition of asbestos containing materials in order to provide a material risk assessment

Unless otherwise stated the survey was conducted in order to enable compliance with regulation 4 of The Control of Asbestos Regulations 2006. All work was conducted with strict adherence to documented in-house procedures (PM001), the current HSE HSG264 Asbestos: The Survey Guide methodology, together with our standard terms and conditions.

The scope of work requested was limited to the areas identified by the client.

A written report, including recommendations and photographic data, has been submitted by Surveying Consultant(s) of CWE Services Limited.

Where the client made site plans available for this survey we have, where possible, incorporated them into this report. Where site plans were not made available by the client for this survey, CWE have produced outline plans of the areas surveyed for the purposes of this report.

This report only relates to the situation on the day of the site visit and cannot take into account subsequent changes in circumstances.

Site Details

A Building type
Library

B Approx age of construction
1960's

C Number of floors/levels
3

D Building construction type
Stone Built with Flat Roof

Please note: The information detailed in items B & D have been supplied by the client or clients representative. CWE cannot take responsibility for inaccuracies of the supplied information



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Survey Type

The nature of this survey was of an inspection at accessible locations, as stated in the guidelines produced by the Health and Safety Executive, HSG264 Asbestos: The Survey Guide. A summary of these is available below.

The survey type conducted, forming this report, is indicated by the tick in the appropriate box in the section below.

Survey Type	Survey Scope
<input checked="" type="checkbox"/> Management Survey (Standard Survey)	<p>The purpose of this survey is to locate, as far as reasonably practicable, the presence and extent of any suspect ACMs (asbestos containing materials) in the building which could be damaged or disturbed during normal occupancy, including foreseeable maintenance and installation, and to assess their condition. All areas will be accessed as far as is reasonably practicable and shall include underfloor coverings, above false ceilings and inside risers, service ducts, lift shafts, basements, cellars, underground rooms, etc as agreed with the client.</p> <p>Management surveys often involve minor intrusive works and some disturbance, such as accessing behind fascia and panels. The extent of intrusion will vary between premises and depend on what is reasonably practicable for individual properties and on the degree of disturbance that is or will be necessary for foreseeable maintenance and related activities, including the installation of new equipment / cabling etc. Any minor intrusive works will be agreed with the client prior to the survey commencing. Any minor intrusive works agreed to are set out on page 16. Representative samples are collected and analysed for the presence of asbestos. Samples from each type of suspect ACM found are collected and analysed to confirm or refute the Surveyor's judgment. If the material sampled is found to contain asbestos, other similar homogeneous materials used in the same way in the building can be strongly presumed to contain asbestos. Less homogeneous materials will require a greater number of samples. The number should be sufficient for the surveyor to make an assessment of whether asbestos is or is not present.</p> <p>Material assessments of the various ACM's and their ability to release fibres into the air if they are disturbed in some way are provided on the individual item inspections. Priority Risk assessments are not within the scope of CWE's accreditation and are not provided.</p> <p>Any areas not accessed must be presumed to contain asbestos and are clearly listed on page 16 including the reason for not being able to access these areas.</p>
Refurbishment and Demolition Survey	<p>This type of survey is required before any refurbishment or demolition work is carried out and is used to locate and describe, as far as reasonably practicable, all ACMs in the area where the refurbishment work will take place or in the whole building if demolition is planned. The survey is fully intrusive and involves destructive inspections, as necessary, to gain access to all areas, including those that may be difficult to reach and may need to penetrate all parts of the building structure. Material assessments (although not required for this type of survey) of the various ACMs and their ability to release fibres into the air if they are disturbed in some way are provided on the individual item inspections. Sampling procedures are as described above. Any areas not accessed are listed on page 16 and must be presumed to contain asbestos. These will be required to be accessed prior to any works taking place. Any caveats/restrictions to the Refurbishment and Demolition survey are listed on page 16.</p> <p>Where there has been significant destruction reassurance air monitoring with disturbance may be required. Measurements provided are for guidance only and are not be used as the basis for removal quotations.</p>



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Survey Methodology

The survey methodology is indicated by the tick in the appropriate box next to the survey type.

Survey Type	Survey Scope
<input checked="" type="checkbox"/> Management Survey	<p>All accessible areas within the site as indicated by the client have been inspected in order to determine the presence of asbestos containing materials.</p> <p>The Surveyor(s) have accomplished all tasks necessary to identify asbestos containing materials as far as is reasonably practicable.</p> <p>The inspection included, but was not necessarily limited to, the following:</p> <ul style="list-style-type: none">o A thorough on-site visual inspection. During the inspection, the Surveyor(s) identified and quantified suspected ACMs.o All areas of homogenous material have been identified, based upon previous experience of laboratory bulk analysis results.o Identified all locations where ACMs may be present but cannot be inspected, with the reason it could not be inspected.o Completing a Survey Summary Form of suspect ACMs, whether later proven to contain asbestos or not.o Where the Surveyor(s) suspected a material containing asbestos, a sample was taken for analysis.o The samples were chosen as being representative of the material under investigation.o All sampling was undertaken following the HSE guidance note HSG264, causing the minimum possible disruption and potential risk to the health of building occupants and visitors.o All bulk sample analysis, swab sample analysis and air reassurance testing (if applicable) was carried out by a UKAS Accredited laboratory
Refurbishment and Demolition Survey	<p>The survey methodology for this type of survey is as above, together with the following:</p> <ul style="list-style-type: none">o The Surveyor(s) assessed the risk of fibre release before carrying out the survey.o Investigation was carried out incorporating the shadow vac technique using an H type vacuum in order to minimise potential fibre release.o Where fibre release was assessed to be of sufficiently high risk, a polythene enclosure was erected and suitable PPE utilised.



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Limitations of the Survey

General

This report contains findings based upon initial visual inspection during the course of the survey. All reasonable efforts were made to identify the presence of materials containing asbestos within the surveyed areas.

Asbestos is sometimes concealed within the fabric of buildings or within sealed building voids, so it is not always possible to regard the findings in any survey as being definitive. It must always remain a possibility that further asbestos containing materials may be found during any alteration, refurbishment or demolition works.

Areas of reported "**no access**" have attempted to be re-accessed on one further occasion, if the survey duration was of two days or more. No further access attempt has been made for surveys of one day or less. For all types of survey where "**no access**" is reported, outlining the reasons why access was not available indicates that the area specified was not accessible at the time of the survey. The client's attention is drawn to the possibility that further ACMs may be in the area and consequently caution should be applied. Areas not identified in this report should be considered as **not accessed**. Further investigation may be required to these areas.

Where the Surveyor(s) identified **actual** or **presumed** asbestos containing material, no further inspection behind such material was possible. No account has been made for materials located behind unknown voids and spaces. Should the presumed or identified material be subsequently proven not to contain asbestos following bulk sample analysis, then further inspection work should be conducted at the formal request of the client.

The quantification stated in this report, are based on the Surveyor's estimates. They are intended to indicate approximate size and volume of asbestos based material and should not be used for contractual purposes alone. A further site visit may be prudent, for estimation/contractual purposes.

Manufactured products containing asbestos have been extremely diverse. CWE have done all that is reasonably practicable to identify such materials. Certain decorative coatings and 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 or 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 μ m. These may not be visible by the optical microscopy method described in HSE publications HSG248.



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Specific

Unless specifically requested by the client and agreed by CWE, access to the following has not been achieved.

Heights above 2.5 metres (Not applicable for Demolition / Refurbishment Surveys)

We have not inspected any areas requiring specialist access equipment other than stepladders. Any requirement for specialist access equipment has been specifically excluded unless requested in writing by the client. Unless stated and agreed by prior arrangement, no access above 2.5 metres has been made. External access to a property has been limited to 2.5 metres from ground level.

Fragile or pitched roof structures (Not applicable for Demolition / Refurbishment Surveys)

Inspection has not been undertaken on pitched roofs. Flat roofs with little or no edge protection have only been inspected as far as deemed safe. No access has been made closer than 2.5 metres from exposed edges.

Open sewers or drains

Areas such as open sewers or drains that have a known biological hazard, together with the potential for fast flowing water, etc, have not been inspected. Should this be required by the client in the event of a Demolition / Refurbishment survey then full training and technical equipment is supplied by the client.

Areas of chemical or biological hazard

Inspection within such areas that have a known chemical or biological hazard have not been inspected, unless at CWE's agreement. Full training and protective equipment is supplied by the client.

Confined spaces or areas of potential hazard (Not applicable for Demolition / Refurbishment Surveys)

Representative access only has been made to risers, ducts above slab level and boxing, where the anticipated hazard and level of risk from the process of inspection is sufficiently low enough to proceed. We have not reported on concealed spaces, flues, ducts, voids or any similarly enclosed areas, which would have necessitated the use of specialist equipment or tools.

Service ducts with no visible means of access

Inspection has not been undertaken to any service ducts or similar voids that exist within the fabric of the building where the extent or presence is not evident due to inaccessibility or insufficient knowledge of the structure at the time of the survey.

Lift, hoist machinery and open shafts

Lifts, lift shafts, hoists or similar which require the attendance of a specialist engineer have not been inspected without a competent engineer being present. These areas are excluded from the report. The provision and arrangement of such specialist engineers are at the expense of the client. Access within plant, machinery and other similar fixtures and fittings has not been attempted, unless by prior agreement of CWE and the client.



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Specific (continued)

Live machinery, including lift machinery and escalators

Inspection of electrical systems and subsystems etc has not been attempted if the Surveyor(s) were unsure as to their state of isolation. All electrical systems which require inspection by the client require confirmation that the electrical system has been isolated by a competent person (for example, an electrical engineer). Should this be required in the event of a Demolition / Refurbishment survey then the client is to arrange for the live equipment to be isolated and will present the surveyor with a certificate of isolation prior to the live equipment being inspected.

Enclosed floor voids, ceiling voids and similar spaces – (Not applicable for Demolition / Refurbishment Surveys)

Unless requested by the client, inspection to areas that may have caused damage to decoration, fixtures, fittings or the structure, have been excluded from the survey. CWE is unable to report on any asbestos that may be present in these areas. No responsibility is accepted for the presence of asbestos in voids (under floor, floor, wall or ceiling) other than those opened up during the investigation. This applies to areas not accessed during the course of a Demolition / Refurbishment survey on request from the client.

Areas beneath floor coverings, soft furnishings and decorations – (Not applicable for Demolition / Refurbishment Surveys)

We have not inspected any areas or surfaces that require the removal or relocation of carpets, furniture, blinds, curtains, fixtures or fittings, other than at selected locations where appropriate.

Joints, seals, lagging within equipment, pipework etc that may impact upon the structural integrity of the item – (Not applicable for Demolition / Refurbishment Surveys)

A limited inspection only has been carried out on valves, flanges, ovens, etc. where pipework is concealed by overlying non-asbestos insulation. Inspection of pipework has been restricted primarily to the insulation visible.

Areas of insect and animal infestation, including areas with animal excreta

We have not inspected any areas or surfaces that, prior to investigation, require the removal of animal excreta, carcasses and other such biological hazards.

Sampling

Samples have not been taken where the act of sampling would endanger the Surveyor(s) or affect the functional integrity of the item concerned. For example, fuses within electrical boxes, gaskets, fire doors, ropes associated with heating, glazing or power plant, etc.

Sample/s have been taken of materials suspected to be asbestos in the building, to the requisite density only.

Bulk samples have been taken from all materials which, upon visual inspection, appeared likely to contain asbestos.



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Risk Assessment

Risk assessment covers two areas:

- **Material Risk Assessment:** Material risk assessment relates directly to the material and its current condition.
- **Priority Risk Assessment:** Priority risk assessment relates to the material (risk assessment) within its environmental surroundings. It takes into account further factors such as occupancy levels and maintenance activity in order to produce a risk figure.

A more detailed explanation of each is available in the following sections.

Material Risk Assessment

The four main parameters which will determine the amount of fibres released from an ACM when subject to a standard disturbance are:

- product type
- extent of damage or deterioration
- surface treatment
- asbestos type

Each parameter is scored as: High = 3, Medium = 2 or Low = 1; two categories also allow a nil score. The value assigned to each of the four parameters is added together to give a total score of between 2 and 12.

Presumed or strongly presumed asbestos containing materials are scored as: Crocidolite (3), unless analysis of similar samples from the building show a different asbestos type, or if there is a reasoned argument that another type of asbestos was almost always used.

An overview of the risk categories can be seen in the following table.

Score	Comments
≥10	High Risk Such items should be regarded as high risk, with a significant potential to release fibres if disturbed
7 - 9	Medium Risk
5 - 6	Low Risk
4 or less	Very Low Risk



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Examples of scoring for each parameter are given in the table below.

Material Assessment Algorithm		
Sample Variable	Score	Examples of scores
Product type (or debris)	1	Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi - rigid paints or decorative finishes, asbestos cement etc.).
	2	Asbestos insulating board, millboards, other low density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt.
	3	Thermal insulating (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 boards, tiles, etc.
	2	Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres.
	3	High damage or de-lamination of materials, sprays and thermal insulation. Visible asbestos debris.
Surface treatment	0	Composite materials containing asbestos: Reinforced plastics, 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 asbestos excluding Crocidolite.
	3	Crocidolite.
Total		

'High' Risk Category

Materials in the 'high' category require **urgent** consideration. Factors to be taken into account include future use of the building, company policy and available finance. The following options may be appropriate:-

- o Complete removal.
- o Encapsulation, sealing or other protection including marking with appropriate warning labels.
- o Decontamination works.
- o Close monitoring of condition and potential for persons to be exposed to airborne asbestos fibres. (These may involve air sampling adjacent to the material to determine whether airborne asbestos fibres are being produced)



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'Medium' Risk Category

The condition of any material in the 'medium' category requires regular monitoring and a programme of management. Encapsulation or removal may well be appropriate in the medium to long term.

'Low' Risk and 'Very Low' Risk Category

'Low' risk and 'Very Low' risk category materials are generally of a cement, resin or plastic based material and are not considered to cause any immediate concern as these are unlikely to present any significant risk under reasonably foreseeable circumstances. Periodic condition monitoring under a management regime is advisable.

Priority Risk Assessment

In addition to that identified by the 'material assessment' score, consideration must also be given to the other users activities in and around the building. This Duty Holders Priority Assessment method and score is detailed in the HSE guidance A Comprehensive Guide to Managing Asbestos in Premises (HSG227). This score is added to the HSG264 Material Assessment Score. The higher the Total Risk Score, the greater the risk of exposure to occupants.

The priority risk assessment looks at the likelihood of someone disturbing the ACM. The factors taken into account are listed below:

Factor	Comments
Maintenance activity	Type of maintenance and frequency of maintenance
Occupant activity	Main activity and Secondary activities
Likelihood of disturbance	Location, accessibility and extent/amount
Human exposure potential	Number of occupants, frequency of use of the area and average time area is in use

This survey does not provide a "Priority" risk assessment. The responsibility for such risk assessments being conducted is that of the Duty holder responsible for the property concerned. CWE Services Ltd can assist with the implementation and auditing of risk management systems on the client's behalf although this does not fall within the scope of our UKAS Accreditation. For further assistance and technical advice, please contact a CWE Technical Manager.



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Recommendations

The following risk categories provide the three classifications of risk used within this survey. In general: ***The higher the number the higher the risk***

The recommendation given against each recorded material is derived from the material assessment for each recorded instance of asbestos and the initial risk assessment made by the Surveyors during the survey. Details of the scoring system utilised can be found in the previous section.

The recommended actions have been confined to a limited number of key actions. They can be seen in the following table.

Recommendation	Comments
Remove	Removal of asbestos containing materials is recommended on the basis that its condition and location could result in exposure to persons, spread of asbestos, or release to the environment.
Repair / Encapsulate	Repair or complete encapsulation is recommended as an alternative to removal, where reasonably safe and possible to do so.
Environmental Clean	Recommended where contamination from existing or removed asbestos containing materials could result in exposure, spread, or release of asbestos into the environment.
Air Monitoring	Recommendations where the risk of exposure of persons to airborne asbestos fibre may be or may have been possible, and determination of such exposure is warranted.
Restrict Access	Access to be restricted to personnel working under controlled circumstances, with protection where determined.
Prohibit Access	Prohibit access to all personnel pending remedial action.
Manage in accordance with current asbestos legislation	Management of asbestos containing materials is recommended on the basis that its condition and location would not easily result in exposure to persons, spread of asbestos, or release to the environment.



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Where the recommended action for a material is to encapsulate or label and manage in situ, the client should be aware that these materials **must** be removed prior to any works or activity likely to cause disturbance to the material. A risk assessment should be made as part of the management regime in advance of any planned works, maintenance or similar.

Any activity involving the removal, encapsulation or disposal of licensable asbestos containing materials must be done in accordance with the provisions of The Control of Asbestos Regulations 2006.

Records of any non-asbestos materials identified during this survey can be found in the Asbestos Register in section C of this report.

The client should be aware that the findings of this report do not constitute either a full risk assessment or a management plan.

Where any doubt may exist regarding management measures to be implemented, then either the most cautious route should be adopted, or more detailed risk assessment undertaken. CWE Services Ltd can assist with the implementation and monitoring of management systems on the client's behalf. For further assistance and technical advice, please contact a CWE Technical Manager.



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Duty To Manage Asbestos

Regulation 4 of The Control of Asbestos Regulations 2006, prescribes duties that must be complied with when managing the risk from asbestos in non-domestic premises. Under Regulation 4(3) duty holders must ensure that a suitable and sufficient assessment is made to determine whether asbestos is present or liable to be present in a premise. During such an assessment, Regulation 4(5) states that account should be taken of any plans, the age, and other relevant information about the building.

Regulation 4(4) requires reasonable steps to be taken when making the assessment, and the condition of any asbestos present or assumed to be considered.

Regulation 4(10) states that measures must be taken to:

- a. Review and revise the management plan.
- b. Implement the measures specified in the plan.
- c. Record such implementation.

The client or duty holder is wholly responsible for implementing measures or management of asbestos identified or presumed within the premises, and reviewing the plan as under Regulation 4(10).

We would recommend that a full risk assessment, including priority assessment, is carried out to the requirements of HSG 227 – A Comprehensive Guide to Managing Asbestos in Premises – as issued by the Health and Safety Executive. On completion of a risk assessment, a plan to manage asbestos can then be prepared.

Monitoring the condition of identified asbestos, containing materials is recommended at least every six months to a year, or at shorter intervals as advised, to enable compliance with regulation 4.(9) of The Control of Asbestos Regulations 2006

CWE Services Ltd can assist with the preparation and implementation of such a plan to enable full compliance with the regulations. For further assistance and technical advice please contact a CWE Technical Manager.



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Executive Summary

The aim of this section is to provide a quick overview of all identified ACMs, presumed or strongly presumed. The full details for each item within this summary can be found in the Asbestos Register in Section C.

Prior to the completion of a Priority Risk Assessment, the Material Risk Assessment shown in the table below provides guidance on prioritising those materials which may require remedial action. As outlined in the Risk Assessment section the following risk assessment categories have been used.

Items greater or equal to **10** should be regarded as **High Risk**, with a significant potential to release fibres if disturbed. Items between **7** and **9** should be regarded as **Medium Risk**. Items between **5** and **6** should be regarded as **Low Risk** and equal to **or less than 4** should be regarded as **Very Low Risk**.

The following table contains a summary of each of the positively identified ACMs. They have been identified by a combination of bulk sampling, identification of visually identical materials, and by presumption or strong presumption.

Survey Summary Table

ACMs detected as part of this survey

Item	Level	Location	Material Description	Quantity	Condition (Damage)	Material Risk	Recommendation
2	First	Work Room	Asbestos bonded floor tiles (Light Blue)	25 m ²	Low	Very Low	Repair and manage in accordance with current asbestos legislation
3	First	Link Corridor	Asbestos bonded floor tiles (Grey)	10 m ²	Medium	Very Low	Repair and manage in accordance with current asbestos legislation
18	Ground	Boiler Room	Asbestos bonded bitumen paint to Black pipe	16 Lm	Low	Very Low	Manage in accordance with current asbestos legislation
22	External	All Elevations	Strongly presume asbestos cement soffit boards	<10 Lm	Good	Very Low	Bulk sample required to confirm presumption Manage in accordance with current asbestos legislation
28	Ground	Lift Electric Store	Strongly presume asbestos woven guards to fuse boards	<1 m ²	Good	Very Low	Bulk sample required to confirm presumption Manage in accordance with current asbestos legislation
29	Ground	Lift Store	Strongly presume asbestos compressed gaskets to pipe flanges	<1 m ²	Good	Very Low	Bulk sample required to confirm presumption Manage in accordance with current asbestos legislation



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Section B

Client
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Site Address
Survey Date
Report Reference
Gloucestershire County Council
N/A
Stroud Branch Library, Stroud, GL5 1JR
24 September 2012
GCC0170

General Notes

N/A

Areas of No Access

Areas where no access has been gained are as follows

Item	Level	Location	Reason for no access
ANY AREAS NOT ACCESSED MUST BE PRESUMED TO CONTAIN ASBESTOS			
N/A	All	Where applicable	No access under fixed flooring.
13	First	Group Library	Room occupied at time of survey
21	Ground	Boiler Room Floor Void	No access within underground floor void
31	Ground	Methodist Church	Door Locked – Keys held by others



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Section C

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Asbestos Register

Section C

Client: Gloucestershire County Council
 Site Ref: N/A
 Site Address: Stroud Branch Library, Stroud, GL5 1JR
 Survey Date: 24 September 2012
 Report Reference: GCC0170

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
1	First	Cleaners Cupboard	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Ceramic hand basin Non asbestos water heater No access within boxing		Score - Material Risk		-	-
			Recommendations		Accessibility			
			-		Review Date			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Plastered	Concrete	Plastered/ Block work	Ceramic tiles/ Screed	Pipe work – Unlagged Riser covers - Timber				

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
2	First	Work Room	Management	GCC0170/01	25 m ²			
			Material Description		Material Risk			
			Asbestos bonded floor tiles (Light Blue)		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		1	1	0	1
			Treat as uniform throughout property No access within wall heaters Non asbestos fuse board Metal framed windows		Score - Material Risk		3	Very Low
			No suspect materials observed to remainder of surveyed area		Recommendations			
			Repair and manage in accordance with current asbestos legislation		Accessibility			
					Review Date			
					September 2013			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Plastered	Concrete	Plastered/ Block work	Tiles/ Screed	-				



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity					
3	First	Link Corridor	Management	GCC0170/02	10 m ²					
Material Description				Material Risk						
				Asbestos bonded floor tiles (Grey)						
Additional Information				1	2	0	1			
Cast iron soil pipe Timber framed exit door No access within boxing No suspect materials observed to remainder of surveyed area				Score - Material Risk						
				4	Very Low					
Recommendations				Accessibility						
Repair and manage in accordance with current asbestos legislation				Low						
				Review Date						
				September 2013						
Ceiling	Ceiling Soffit	Wall	Flooring	Other						
Plastered/ Plasterboard panels	No access	Plastered/ Block work	Tiles/ Screed	Pipe work – Unlagged Riser covers – Plasterboard/ Timber						

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity					
4	First	Store Room	Management	Visual Inspection	-					
Material Description				Material Risk						
				No suspect materials observed within surveyed area						
Additional Information				-	-	-	-			
Metal framed windows				Score - Material Risk						
				-	-					
Recommendations				Accessibility						
				-						
Review Date				-						
Ceiling	Ceiling Soffit	Wall	Flooring	Other						
Plastered	Concrete	Plastered/ Block work	Carpet/ Screed	Pipe work - Unlagged						



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
5	First	Kitchen	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			No access within high level riser Non asbestos damper pad Newly refurbished kitchen		Score - Material Risk		-	-
			Recommendations		Accessibility		-	-
					Review Date		-	-
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Plastered	Concrete	Plastered/ Block work	Laminate/ Screed	Pipe work - Unlagged				

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
6	First	Ladies WC	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Metal framed windows Ceramic WC cistern		Score - Material Risk		-	-
			Recommendations		Accessibility		-	-
					Review Date		-	-
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Plastered	Concrete	Plastered/ Block work	Ceramic tiles/ Screed	Pipe work - Unlagged				



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
7	First	Cleaners Cupboard	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Cast iron soil pipe		-	-	-	-
			Recommendations		Accessibility			
			-		-			
			Review Date		-			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Plastered	Concrete	Plastered/ Block work	Screed		-			

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
8	First	Men's WC	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Metal framed windows Plastic WC cistern		-	-	-	-
			Recommendations		Accessibility			
			-		-			
			Review Date		-			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Plastered	Concrete	Plastered/ Block work	Ceramic tiles/ Screed	Pipe work - Unlagged				



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
9	First	Archive Store	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			No access within high level ceiling void Metal framed windows UPVC and timber skylights Non asbestos fuse board		Score - Material Risk		-	-
			Recommendations		Accessibility		-	-
					Review Date		-	-
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Fibreboard	No access	Plastered/ Block work	Timber/ Screed	Pipe work - Unlagged				

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
10	First	Main Library Part 1 (Children's)	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			MMMF insulation to ceiling tiles – limited inspection Non asbestos fuse boards Metal framed windows No access within live wall heater No access within boxing		Score - Material Risk		-	-
			Recommendations		Accessibility		-	-
					Review Date		-	-
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Suspended/ MMMF tiles	Concrete	Plastered/ Wood panels/ Block work	Carpet/ Screed	Pipe work – Unlagged/ MMMF Riser covers - Timber				



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity					
11	First	Main Library Part 2 (Adult)	Management	Visual Inspection	-					
			Material Description		Material Risk					
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type		
			Additional Information		-	-	-	-		
			No access within live wall heater Metal framed windows MMMF insulation to ceiling tiles – limited inspection No access within boxing		Score - Material Risk		-			
			Recommendations		Accessibility					
			Review Date							
Ceiling	Ceiling Soffit	Wall	Flooring	Other						
Suspended/ MMMF tiles	Concrete	Plastered/ Wood panels/ Block work	Carpet/ Screed	Pipe work – Unlagged/ MMMF Riser covers - Timber						

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity					
12	First	Local Studies	Management	Visual Inspection	-					
			Material Description		Material Risk					
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type		
			Additional Information		-	-	-	-		
			No access within live wall heater Metal framed windows MMMF insulation to ceiling tiles – limited inspection No access within boxing		Score - Material Risk		-			
			Recommendations		Accessibility					
			Review Date							
Ceiling	Ceiling Soffit	Wall	Flooring	Other						
Suspended/ MMMF	Concrete	Plastered/ Wood panels/ Block work	Carpet/ Screed	Pipe work – Unlagged Riser covers - Timber						



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity					
13	First	Group Library	Management	No Access	-					
			Material Description				Material Risk			
			No Access				Product Type	Extent of Damage		
							Surface Treatment	Asbestos Type		
			Additional Information				-			
			Room occupied at time of survey Meeting taking place				-	-		
			Score - Material Risk				-			
							-			
			Recommendations				Accessibility			
			Apply Caution				-			
							Review Date			
							-			
Ceiling	Ceiling Soffit	Wall	Flooring	Other						
-	-	-	-	-						

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity					
14	First	4x WC's	Management	Visual Inspection	-					
			Material Description				Material Risk			
			No suspect materials observed within surveyed area				Product Type	Extent of Damage		
							Surface Treatment	Asbestos Type		
			Additional Information				-			
			Newly refurbished WC's No access to skylights Non asbestos slip flooring No access within boxing				-	-		
			Score - Material Risk				-			
							-			
			Recommendations				Accessibility			
							-			
							Review Date			
							-			
Ceiling	Ceiling Soffit	Wall	Flooring	Other						
-	Concrete	Plastered/ Block work	Thermoplastic/ Screed	Pipe work – Unlagged Riser covers - Timber						



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
15	First/ Ground	Stairwell	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Metal framed windows Non asbestos step nosing No access within ceiling void No access within boxing		Score - Material Risk		-	-
			Recommendations		Accessibility			
			-		-			
			Review Date		-			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Suspended/ MMMF tiles	No access	Plastered/ Wood panels/ Block work	Carpet/ Screed	Pipe work – Unlagged Riser covers - Timber				

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
16	Ground	Entrance Lobby	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			No access within post box No suspect materials observed to under stairs cupboard No access within boxing		Score - Material Risk		-	-
			Recommendations		Accessibility			
			-		-			
			Review Date		-			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
-	Concrete	Plastered/ Block work	Carpet/ Screed	Pipe work – Unlagged Riser covers - Timber				



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
17	Ground	Gas Meter Room	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Non asbestos calorifier tank		Score - Material Risk		-	-
			Recommendations		Accessibility		-	-
					Review Date		-	-
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
-	Concrete	Block work	Screed	Pipe work - Unlagged				

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity					
18	Ground	Boiler Room	Management	GCC0170/03	16 Lm					
			Material Description		Material Risk					
			Asbestos bonded bitumen paint to black pipe		Product Type	Extent of Damage	Surface Treatment	Asbestos Type		
			Additional Information		1	1	0	1		
			1x High level black pipe Runs through Boiler Room and Entrance doorway		Score - Material Risk		3	Very Low		
			Recommendations		Accessibility		Low			
			Manage in accordance with current asbestos legislation		Review Date		September 2013			
Ceiling	Ceiling Soffit	Wall	Flooring	Other						
-	Concrete	Block work	Screed	Pipe work – MMMF Air Con Ducting - Metal						



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
19	Ground	Boiler Room	Management	GCC0170/04	-			
			Material Description		Material Risk			
			Compressed gasket to pipe flanges		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Treat as uniform throughout Boiler and Gas Meter rooms Non asbestos fuse boards Modern non asbestos Ethos boilers No suspect materials observed to remainder of surveyed area		-	-	-	-
			Score - Material Risk		-	-	-	-
			Recommendations		Accessibility			
			No asbestos detected in sample No further action required		Review Date			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
-	Concrete	Block work	Screed		-			

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
20	Ground	Car Park	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			No asbestos visible within the underground car park		-	-	-	-
			Score - Material Risk		-	-	-	-
			Recommendations		Accessibility			
					Review Date			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
-	Concrete	Block work	Screed		-			



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
21	Ground	Boiler Room Floor Void	Management	No Access	-			
			Material Description		Material Risk			
			No Access		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			No access within underground floor void – Apply caution as previously known asbestos lagged pipe work used within Boiler Room		Score - Material Risk			
			Recommendations		Accessibility			
			Apply Caution		Review Date			
Ceiling		Ceiling Soffit	Wall	Flooring	Other			
-		Concrete	Block work	Screed	Pipe work - MMMF			

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity						
22	External	All Elevations	Management	Strongly Presume	<10 Lm						
			Material Description		Material Risk						
			Strongly presume asbestos cement soffit boards		Product Type	Extent of Damage	Surface Treatment	Asbestos Type			
			Additional Information		1	0	0	1			
			High level soffit boards to perimeter of building above windows and doors No suspect materials observed to remainder of surveyed area		Score - Material Risk						
					2	Very Low					
			Recommendations		Accessibility						
			Bulk sample required to confirm presumption Manage in accordance with current asbestos legislation		Low						
					Review Date						
					September 2013						
Ceiling		Ceiling Soffit	Wall	Flooring	Other						
-		-	-	-	-						



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
23	External	External Spandrel Panels	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed to external Spandrel Panels		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Metal external lining panels Unable to sample internally – Apply caution		Score - Material Risk		-	-
			Recommendations		Accessibility		-	-
					Review Date		-	-
Ceiling		Ceiling Soffit	Wall	Flooring	Other			
-	-	-	-	-	-			

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
24	Ground/ First	Nursery Stairwell	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Fibreboard ceiling tiles Non asbestos fire doors		Score - Material Risk		-	-
			Recommendations		Accessibility		-	-
					Review Date		-	-
Ceiling		Ceiling Soffit	Wall	Flooring	Other			
Fibreboard	No access	Plastered/ Block work	Scree		-			



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
25	First	Nursery	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Non asbestos slip flooring No access to high level ceiling tiles Non asbestos fire doors		Score - Material Risk		-	-
			Recommendations		Accessibility		-	-
					Review Date		-	-
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Suspended/ Plasterboard panels	No access	Plastered/ Block work	Carpet/ Thermoplastic/ Timber	Pipe work - Unlagged				

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
26	First	Nursery WC	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Non asbestos slip flooring Plastic WC cistern		Score - Material Risk		-	-
			Recommendations		Accessibility		-	-
					Review Date		-	-
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Plastered/ Plasterboard panels	No access	Plastered/ Block work	Thermoplastic/ Timber	Pipe work - Unlagged				



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Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
27	First	Nursery Store	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Non asbestos fire door		-	-	-	-
			Recommendations		Accessibility			
			-		-			
			Review Date		-			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
Plastered/ Plasterboard panels	No access	Plastered/ Block work	Carpet/ Timber		-			

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity						
28	Ground	Lift Electric Store	Management	Strongly Presume	<1 m ²						
			Material Description		Material Risk						
			Strongly presume asbestos woven flash guards to fuse boards		Product Type	Extent of Damage	Surface Treatment	Asbestos Type			
			Additional Information		2	0	0	1			
			Unable to sample, live and in use at time of survey		Score - Material Risk						
			No suspect materials observed to remainder of surveyed area		3	Very Low					
			Recommendations		Accessibility						
			Bulk sample required to confirm presumption Manage in accordance with current asbestos legislation		Low						
			Review Date		September 2013						
Ceiling	Ceiling Soffit	Wall	Flooring	Other							
-	Concrete	Block work	Screed		-						



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Section C

Client: Gloucestershire County Council
 Site Ref: N/A
 Site Address: Stroud Branch Library, Stroud, GL5 1JR
 Survey Date: 24 September 2012
 Report Reference: GCC0170

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
29	Ground	Lift Store	Management	Strongly Presume	-			
			Material Description		Material Risk			
			Strongly presume asbestos compressed gasket to pipe flanges		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		2	0	0	1
			Heavily compressed, unable to sample No suspect materials observed to remainder of surveyed area		Score - Material Risk			
			3		Very Low			
			Recommendations		Accessibility			
			Bulk sample required to confirm presumption Manage in accordance with current asbestos legislation		Low			
					Review Date			
					September 2013			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
-	Concrete	Block work	Screed	Pipe work - Unlagged				

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
30	Ground	Store	Management	Visual Inspection	-			
			Material Description		Material Risk			
			No suspect materials observed within surveyed area		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-	-	-	-
			Cast iron soil pipe		Score - Material Risk			
			-		-			
			Recommendations		Accessibility			
			-		-			
			Review Date		-			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
-	Concrete	Block work	Screed					



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Section C

Client: Gloucestershire County Council
 Site Ref: N/A
 Site Address: Stroud Branch Library, Stroud, GL5 1JR
 Survey Date: 24 September 2012
 Report Reference: GCC0170

Item	Level	Location / Room number	Survey Type	Sample Reference	Quantity			
31	Ground	Methodist Church	Management	No Access	-			
			Material Description		Material Risk			
			No Access		Product Type	Extent of Damage	Surface Treatment	Asbestos Type
			Additional Information		-			
			Door locked. Keys held by others		-			
			Recommendations		Accessibility			
			Apply Caution		-			
					Review Date			
					-			
Ceiling	Ceiling Soffit	Wall	Flooring	Other				
-	-	-	-					



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Section D

Client Gloucestershire County Council
Site Ref N/A
Site Address Stroud Branch Library, Stroud, GL5 1JR
Survey Date 24 September 2012
Report Reference GCC0170

Site Plans

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SERVICES LTD
CWE Services Limited
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BS49 5EB

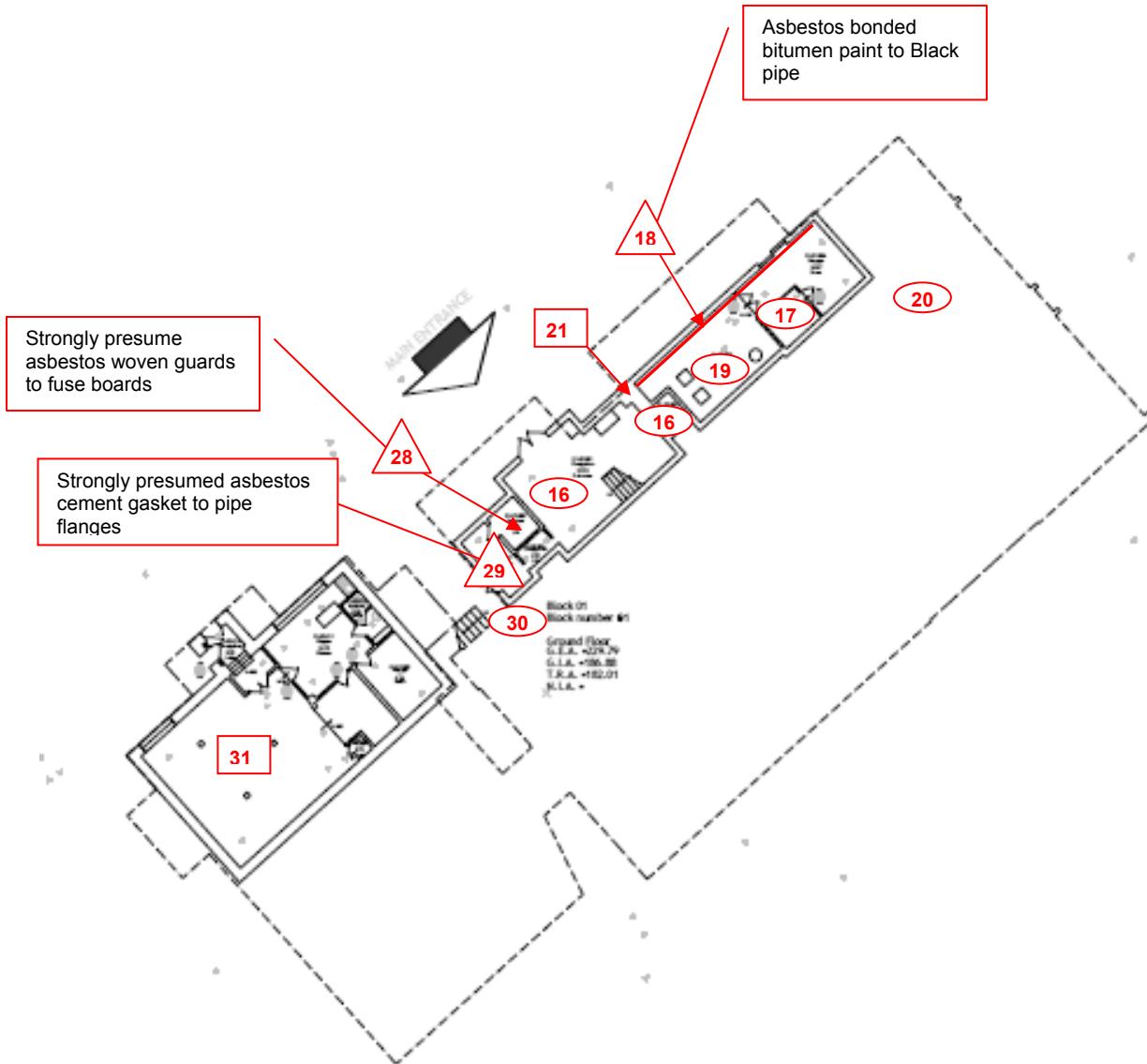
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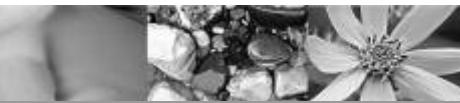
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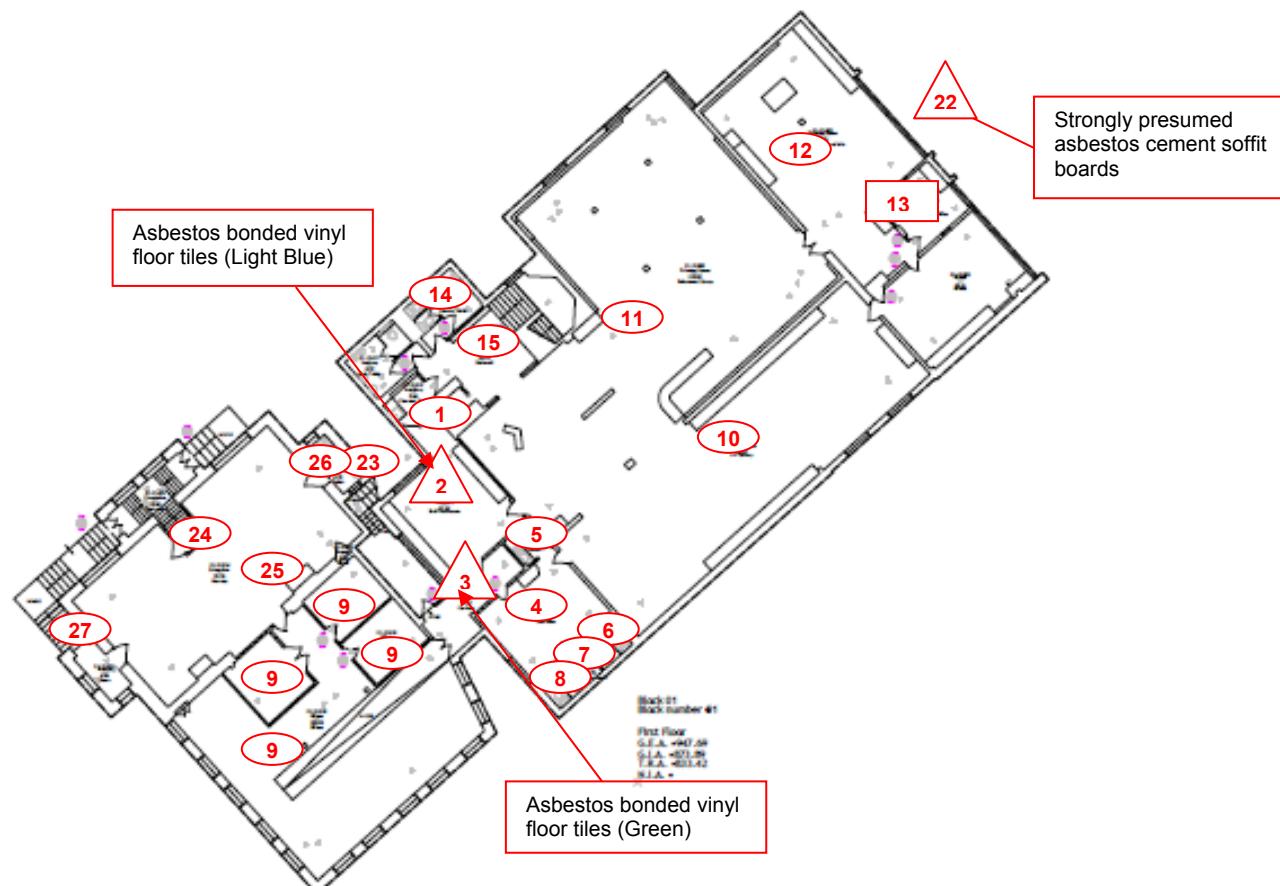
Document Ref : ID006.V1



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Site Plan 1 of 2	
Client	Gloucestershire County Council
Site Ref	N/A
Site Address	Stroud Branch Library, Stroud, GL5 1JR
Survey Date	24 September 2012
Report Ref	GCC0170
THIS SITE PLAN SHOULD BE READ IN CONJUNCTION WITH THE FULL ASBESTOS SURVEY REPORT	
FLOOR	GROUND FLOOR
AREA	ALL AREAS
KEY	Register Item Numbers
	Positive or Presumed Asbestos
	Non-Asbestos
	No Access
 CWE SERVICES LTD	
CWE Services Limited The Barn Oak Farm Weston Road Congresbury North Somerset BS49 5EB Document Ref : ID 006.V1	
	
NOT TO SCALE	
All locations are approximate	
Limitations of reported information	
<p>The information contained within this report of the locations of asbestos containing materials (ACMs) should not be treated as either exhaustive or definitive. It should always be assumed that there may be other ACMs present, hidden or undetected within the fabric of the building. Further investigations may be necessary when carrying out works likely to disturb the fabric of the building.</p>	



Site Plan 2 of 2	
Client	Gloucestershire County Council
Site Ref	N/A
Site Address	Stroud Branch Library, Stroud, GL5 1JR
Survey Date	24 September 2012
Report Ref	GCC0170
THIS SITE PLAN SHOULD BE READ IN CONJUNCTION WITH THE FULL ASBESTOS SURVEY REPORT	
FLOOR	FIRST FLOOR
AREA	ALL AREAS
KEY	Register Item Numbers
1	Positive or Presumed Asbestos
1	Non-Asbestos
1	No Access
 CWE SERVICES LTD	
CWE Services Limited The Barn Oak Farm Weston Road Congresbury North Somerset BS49 5EB Document Ref : ID 006.V1	
	
NOT TO SCALE	
All locations are approximate	
<u>Limitations of reported information</u>	
The information contained within this report of the locations of asbestos containing materials (ACMs) should not be treated as either exhaustive or definitive. It should always be assumed that there may be other ACMs present, hidden or undetected within the fabric of the building. Further investigations may be necessary when carrying out works likely to disturb the fabric of the building.	

Section E

Client	Gloucestershire County Council
Site Ref	N/A
Site Address	Stroud Branch Library, Stroud, GL5 1JR
Survey Date	24 September 2012
Report Reference	GCC0170

Certificate of Analysis & Air Monitoring Certificates (If applicable)

Section E

Client
Site Ref
Site Address
Survey Date
Report Reference
Gloucestershire County Council
N/A
Stroud Branch Library, Stroud, GL5 1JR
24 September 2012
GCC0170

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HEAD OFFICE AND LABORATORY 20 – 24 High Street Rayleigh Essex SS6 7EF info@acandms.co.uk www.acandms.co.uk Tel - 01268-776000 Fax - 01268-776300		AC&MS LTD Asbestos Consultancy & Management Services		REGIONAL OFFICE Office 10 Weston House Station Road Wimborne Wiltshire BA13 3JN Tel - 01373-826242 Fax - 01373-826242																																								
CERTIFICATE FOR THE IDENTIFICATION OF ASBESTOS FIBRES																																												
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GCC0171/04	Boiler Room - Gasket To Pipe Flanges	NADIS																																										
All samples will be retained in the laboratory for a minimum of 6 Months.																																												
This Certificate was typed by:	Joanne Walker																																											
Authorised Signatory:		Print name:	Mr Roy Walker																																									
																																												
Registered Office: Laing Business Solutions, 165 Beauchamps Drive, Wickford, Essex, SS11 8sS THIS TEST REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF AC & MS LTD. Printed By: AC & MS Ltd. Using: Multibase.co.uk software.		Company Registration Number 4664684 BULK-002 VER13 04-JUL-12 QCM 																																										



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Appendix A

Client	Gloucestershire County Council
Site Ref	N/A
Site Address	Stroud Branch Library, Stroud, GL5 1JR
Survey Date	24 September 2012
Report Reference	GCC0170

United Kingdom Accreditation Service

ACCREDITATION CERTIFICATE



**INSPECTION BODY
No. 156**

CWE Services Ltd

is accredited as a Type C body in accordance with the recognised International Standard ISO/IEC 17020:1998
General Criteria for the operation of various types of bodies performing inspection.

This accreditation demonstrates technical competence for a defined scope as detailed in and at the locations specified in the schedule to this certificate.

The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued by the United Kingdom Accreditation Service. The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from the UKAS website www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements. The absence of a schedule on the UKAS website indicates that the accreditation is no longer in force.

A handwritten signature in blue ink, appearing to read "R. Bellman".

Accreditation Manager, United Kingdom Accreditation Service

Initial Accreditation date
31 October 2001

This certificate issued on
20 November 2006

The Department of Trade and Industry (DTI) has entered into a memorandum of understanding with the United Kingdom Accreditation Service (UKAS) through which UKAS is recognised as the national body responsible for assessing and accrediting the competence of organisations in the fields of calibration, testing, inspection and certification of systems, products and persons



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