REFURBISHMENT SURVEY FOR ASBESTOS-CONTAINING MATERIALS

CLIENT: National Museums Liverpool

SITE: Walker Art Gallery, William Brown Street, Liverpool, Merseyside,L3 8EL

Job number	J043564
Number of high risk materials	0
Number of medium risk materials	0
Number of low/ very low risk materials	2

Issue	Date	Status
Version 1	03/08/2020	Issued

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SECTION 1 - EXECUTIVE SUMMARY

TYPE OF SURVEY: Refurbishment

SCOPE & EXTENT OF SURVEY: Selected Areas Only.

Locations of asbestos containing materials (ACMs) and actions

Action	Floor/ room
Manage	None recorded
Encapsulate	None recorded
Enclose	None recorded
Remove	Walker Art Gallery / Basement 1 / Plant Room - Mastic, Walker Art Gallery / Basement 1 / Plant Room - Textile
Restrict Access	None recorded
Inspect Prior to Disturbance	None recorded
Restrict access and remove	None recorded

Areas where no access recorded

Floor/ room
All areas were accessed

SECTION 2 - INTRODUCTION

The purpose of the survey is to assist duty holders in managing asbestos within premises. The survey is to provide sufficient information for an asbestos register and allow for the planning of removal of all ACMs as far as reasonably practicable from the premises prior to refurbishment.

In most cases the survey will have two main aims:

- it must as far as reasonably practicable locate and record the location, extent and product type of any presumed or known ACMs;
- it should determine and record the asbestos type, either by collecting representative samples of suspect materials for laboratory identification, or by making a presumption based on the product type and its appearance etc.

SITE DETAILS

Site description, age and construction
The site is a public art gallery with an estimated construction date of the 1930's. Internally the gallery is constructed of concrete, cement and plasterboard ceilings, brick, timber and plaster walls, timber, glass doors and frames, modern ducting with MMMF insulation, timber, board tiling and concrete flooring throughout.
Use and occupation of site
The site is in use as a public art gallery and was occupied by staff and visitors at the time of survey.
Scope of survey
This survey report covers the first floor, rooms one to four (selected areas), roof void and boiler room only. These areas are those shown on the attached plans. The areas surveyed were at the direction of the client.

SECTION 3 - GENERAL SITE INFORMATION

Survey information	
Client	National Museums Liverpool
Client address	Museum of Liverpool, Pier Head, Liverpool Waterfront,L3 1DG
Client Contact	Jane Skinner
Site address	Walker Art Gallery, William Brown Street, Liverpool, Merseyside,L3 8EL
Type of Survey	Refurbishment Survey
Survey Start Date	27 Jul 2020
Survey End Date	28 Jul 2020
Surveyor/s	Darren Critchley
Job number	J043564

Report index	
Section 1	Executive summary
Section 2	Introduction
Section 3	General site information
Section 4	Survey results table
Section 5	Conclusions and actions
Section 6	Limitations of survey
Appendix A	Non-asbestos samples and assessments
Appendix B	Material assessment records & photographs
Appendix C	Certificates of bulk sample analysis
Appendix D	Sample/ assessment location plans
Appendix E	General observations

Report prepared by			
Darren Critchley	Surveyor		3 Aug 2020

Report verified by			
Matthew Douglas	Technical Reviewer		3 Aug 2020

Eton Environmental Group Ltd were instructed to undertake a survey for asbestos containing materials at these premises in accordance with the instructions received from the client. The scope of the survey is summarised below, and is in accordance with HSE document HSG264 “Asbestos: The survey guide” and our documented in-house quality system as accredited by UKAS to ISO17020.

SURVEY INSTRUCTIONS

Survey type instructed	Refurbishment Survey
Included areas	First floor, rooms one to four (selected areas), roof void and boiler room only.
Excluded areas	All other areas.
Agreed exclusions, inaccessible areas and any variations from the method	
In accordance with the PSQ J043564 authorised on 24/07/2020 In the parts of the building covered by the scope of the refurbishment survey, restrictions were put in place at the specific request of the client. Because of these restrictions, internal doors, door frames and window cills were not removed throughout. Timber floorboards were not lifted. Boxed risers, beam casing, header panels, plasterboard ceilings and walls were accessed only through small holes to minimise damage and disruption. If any refurbishment works may disturb these other installations, survey access should be provided beforehand. Because of these restrictions, observations made and samples taken are assumed to be representative of the whole. However, it cannot be guaranteed that all areas of the building are similar and therefore any installations and locations that are either opened through small holes or not intrusively opened at all should be treated with additional caution and further survey access gained if required. Eton Environmental Group Ltd endeavoured to conduct the survey as thoroughly as possible within the remit and constraints as stated by the client. Where access restrictions are noted, it is strongly recommended that during the refurbishment works this report is used as a guide but not taken as definitive of ACMs in the building. Caution must be used when accessing any areas and if suspect materials are noted works should cease until further competent advice is sought.	

It is strongly recommended that this report is used as a whole document. Use of individual sections e.g. plans or survey results table alone may lead to misinterpretation for which Eton Environmental Group Ltd cannot be held responsible. This report is a technical

document in line with current legislation and guidance. Should clarification be required contact Eton Environmental Group Ltd.

Material & Priority Risk Assessments

Material Risk Assessment:

Material assessment scoring is not a requirement for refurbishment surveys. However, this report does contain material assessment scoring in case ACMs are to remain after refurbishment or management of ACMs is required until refurbishment is undertaken.

The material risk is determined by four parameters, which will assess the risk of fibre release from an ACM when subject to normal disturbance; product type, extent of damage or deterioration, surface treatment and asbestos type.
Each parameter is given a risk score: 3 = high, 2 = medium, 1 = low and 0 = very low.
The total material risk score is the sum total with materials with a score of 10 or more are regarded as having a high fibre release potential, between 7 and 9 a medium fibre release potential, 5 and 6 as a low fibre release potential. Scores of 4 or less are regarded as having a very low fibre release potential. Non-asbestos containing materials are not scored.
Based upon the material risk score, recommendations for control actions and management actions are derived to ensure areas of concern are made safe and remaining ACMs are suitably managed.

Priority Risk Assessment:

Priority risk scoring is undertaken only at the specific request of the client. The Control of Asbestos Regulations (CAR) 2012 requires the duty holder to assess the risks associated with the activities on the premises, additional to those considered within the material risk. Although the duty holder has a responsibility for the priority score, Eton Environmental Group Ltd may collect this information with assistance from the client.

Scores will be between 0 and 12 (10-12 high, 6-9 moderate, 3-5 low and 1-2 very low). Where the priority assessment has not been undertaken, these fields will be left blank for the duty holder to complete. Non-asbestos containing materials are not scored and the priority assessment fields do not appear for these materials.

Total Risk Scores:

The total risk scores are calculated by addition of the material & priority risk scores to give an indication of the relative risk of each ACM, total risk scores between 19-24 are high risk, scores between 13-18 are moderate risk, scores between 9-12 are low risk and scores below 9 are considered as very low risk. Where the priority assessment has not been undertaken, this field will be left blank for the duty holder to complete.

Recommendations:

Recommendations are made to the client based upon all factors including risk scoring. These recommendations fall into two categories, management actions and control actions. Control actions are used to describe actions that will have to be undertaken to the ACM directly and may require specialist treatment or works e.g. encapsulation, repair or removal.In a refurbishment survey report control actions will recommend removal of all materials unless removal is not reasonably practicable. Where removal is time consuming and resource-intensive and only involves removal of lower risk materials such as textured coatings containing asbestos, then removal may not be reasonably practicable.
Management actions are used to describe actions that should be undertaken that do not necessarily involve direct treatment to the ACM e.g. labelling of ACMs, regular inspection for damage/ deterioration, informing tenants/ staff/ contractors or isolation.

SECTION 4 - SURVEY RESULTS TABLE

The data contained within this table shows the known asbestos containing materials (ACMs) for this site as identified at the time of the survey.

The results were compiled by Eton Environmental Group Ltd in accordance with the Health and Safety Executive document HSG264, the Control of Asbestos Regulations (CAR) 2012 and our documented in-house quality procedures as accredited by UKAS to ISO17020.

The data shown may refer to historical data and information provided by the client. Eton Environmental Group Ltd cannot be held responsible for the accuracy of the data included where it is supplied by the client (including the interpretation of any supplied information).

The information in this survey report should be used to form the asbestos register which is a key component of the management plan. The survey report itself will generally not be the asbestos register. The asbestos register will be a simpler document and will not contain most of the information in the survey report, e.g. the bulk analysis results or survey site information.

Regulation 4 of the Control of Asbestos Regulations 2012 dictates that the duty holder should make a written record of the location and condition of known and presumed ACMs and keep the record up to date. This should include regular inspections of the known ACMs and the records updated accordingly. This information must be given to any persons liable to disturb ACMs (e.g. maintenance operatives).

Regulation 11 of the Control of Asbestos Regulations 2012 requires all employers to prevent the exposure of employees and contractors to asbestos as far as reasonably practicable.

The information within this register/ report is provided to the client and Eton Environmental Group Ltd cannot accept any responsibility for the interpretation or use of this data by any third party. Prior to any works in areas that may contain or conceal ACMs, professional advice from a competent organisation or person should be sought. It is strongly recommended that any remedial works to be undertaken to ACMs identified should be based upon a written specification, site visit and other relevant documentation of works and not solely on this report.

Actions listed in the table and MARs in appendix B indicate the following recommendations:

Action	Recommendation
Manage	Inform staff/ contractors, label, re-inspect on a regular basis as per asbestos management plan
Encapsulate	Paint with a suitable proprietary sealant by competent persons and manage as above
Enclose	Box in/ surround with rigid material e.g. timber board and manage as above
Remove	Removal to be undertaken by competent persons
Restrict Access	Take immediate steps to prevent exposure e.g. warning signs, locking rooms, informing staff/ contractors

The table below shows the known ACMs for this site as identified at the time of the survey. Areas of no access should be presumed to contain asbestos until proven otherwise. If this table is blank then no ACMs have been detected within the scope of the survey. Further details of actions recommended are in section 5.

Building	Floor/ Room	Assessment Number	Location/ position	Product type	Surface treatment	Condition	Extent	Accessibility	Level of identification	Asbestos type	Material risk	Priority risk	Action
Walker Art Gallery	Basement 1 / Plant Room	0005	Textile old ducting to upper level	Textiles	Unsealed	Low Damage	6no.	Occasionally likely to be disturbed	Identified	Chrysotile	(6) Low	-	Remove
Walker Art Gallery	Basement 1 / Plant Room	0006	Mastic old ducting upper level	Well Bound Material	Completely Sealed	Low Damage	6no.	Occasionally likely to be disturbed	Identified	Chrysotile	(3) Very low	-	Remove

SECTION 5 - CONCLUSIONS AND ACTIONS

Asbestos Containing Materials and Specific Recommendations:

Eighteen samples were taken on site, two of which were confirmed to contain asbestos upon analysis.

General Recommendations:

This was a refurbishment survey to the first floor, rooms one to four (selected areas), roof voids and boiler room only.

In those areas where exclusions were agreed, prior to any refurbishment further investigations may be required.

In the areas where the survey was undertaken with regard to refurbishment of the survey site area, the recommendation is that all asbestos containing materials are removed from site prior to refurbishment in compliance with the Control of Asbestos Regulations 2012.

Although the asbestos materials are non-licensed asbestos products any work upon, or removal of, these materials will need to be done by competent persons and items removed disposing of as asbestos waste. Removal of non-licensed asbestos materials may require notification to the relevant enforcing authority prior to works being carried out.

It is also recommended that staff and contractors are made aware of the presence of all asbestos containing materials to prevent disturbance. This information should be provided to external contractors (e.g. plumbers) pre contract commencement or prior to their arrival on site. This will enable contractors to plan their work accordingly to reduce the risk of exposure to asbestos.

It should be noted that this report only forms part of an asbestos management plan and does not necessarily provide full compliance with regulation 4 of CAR 2012.

It should also be noted that as this survey was location specific ACMs could remain in the site in areas that were outside the scope of this survey.

Further information can be obtained from the following asbestos related publications:

Regulations:

The Control of Asbestos Regulations 2012.

Approved Codes of Practice:

“Managing and working with asbestos” (L143) 2nd Ed. 2013

Guidance:

“Asbestos: The survey guide” (HSG264) 2nd Ed. 2012

“Asbestos: The analysts' guide for sampling, analysis and clearance procedures” (HSG248) 2005

“Asbestos: The licensed contractors' guide” (HSG247) 2006

“A comprehensive guide to managing asbestos in premises” (HSG227) 2004

“A short guide to managing asbestos in premises” (INDG223) rev. 5 2012

“Asbestos Essentials Task Manual” (HSG210) 4th Ed. 2018

The above documents are published by the Health and Safety Executive and are available from HSE Books, PO Box 1999, Sudbury, Suffolk CO10 2WA
And;
www.books.hse.gov.uk

The above list should not be considered exhaustive.

SECTION 6 - LIMITATIONS OF SURVEY

This asbestos survey was undertaken in accordance with the requirements of HSE documents HSG264 “Asbestos: The survey guide” and HSG248 “Asbestos: The analysts guide for sampling, analysis and clearance procedures” and also Eton Environmental Group Ltd documented in house quality procedures as accredited by UKAS to ISO17020.

Part of the scope of a survey is to collect bulk samples from suspect ACMs found for analysis by a UKAS accredited laboratory to confirm or refute the surveyor’s judgement. If a material is found to contain asbestos other similar homogenous materials used in the same way within the building may be strongly presumed to contain asbestos. The number of samples taken is dependent on the homogeneity of the material but the number should be sufficient for the surveyor to make an assessment of whether asbestos is present or not.

When a sample cannot be taken but the surveyor suspects that asbestos is present within the material, two levels of presumption can be made: one where there is a strong presumption that the material does contain asbestos but a laboratory identification has not been undertaken to confirm this; and a default situation where it must be presumed to contain asbestos because there is insufficient evidence to suggest it is not an ACM.

It should be noted that whilst the surveyor makes every effort to locate all suspect ACMs as far as is reasonably practicable, it can not be guaranteed that all ACMs have been located. Some materials may be hidden within the fabric of the building may only come to light during refurbishment.

Where suspect ACMs are located during the survey it is not the policy of Eton Environmental Group Ltd to disturb this material in any way except to take a representative sample. If it is suspected that further ACMs may be hidden behind a suspect ACM non-licensed, NNLW or licensed asbestos works may be required to gain access. Eton Environmental Group Ltd can assist with further planning to gain access but this would be at additional cost.

Asbestos cement is a non-licensed asbestos material. Asbestos insulating board (AIB) is a licensed asbestos material. A competent, experienced surveyor will normally be able to visually identify most asbestos cement products. But, if visual identification is inconclusive, analysis will be needed to establish the asbestos type(s). If, after analysis of the asbestos types, there is still doubt about whether a material is an asbestos cement product, a water absorption measurement will be

needed, following the methodology set out at www.hse.gov.uk/asbestos/essentials/cement.htm to decide whether the material is asbestos cement.

All material extent figures are as accurate as reasonably practicable and therefore not necessarily definitive for the purpose of tendering for removal without further conformation if required. Plans/ drawings within this report are not to scale.

If, at the time of the survey, access was not possible to certain areas, these are noted on the assessment reports. Until such time that these areas are inspected they should be presumed to have asbestos containing materials for the purposes of the proposed refurbishment.

All reasonable efforts are made to locate ducts, cavities, voids, under-crofts etc as part of the survey. However, some of these areas may not come to light until after the survey has been completed e.g. because the information was not supplied prior to the survey.

This is a building survey only and does not include for any ground investigation outside of the footprint of the structure or structures surveyed or below the lowest level slab before the ground/ ground-bearing slab.

APPENDIX A - TABLE OF NON-ASBESTOS SAMPLES AND ASSESSMENTS

Building	Floor/ Room	Assessment Number	Location/ position	Product type	Surface treatment	Condition	Extent	Accessibility	Level of identification	Asbestos type	Comments
Walker Art Gallery	Basement 1 / Plant Room	0003	Insulating board packers to wall penetration	Board	-	-	1no.	-	Identified	No Asbestos Detected	
Walker Art Gallery	Basement 1 / Plant Room	0004	Insulating board wall panels	Board	-	-	8m²	-	Identified	No Asbestos Detected	Panels to both sides of wall
Walker Art Gallery	Basement 1 / Plant Room	0007	Thermal insulation debris upper level floor under electrical tray	Hard Set Lagging	-	-	6m²	-	Identified	No Asbestos Detected	Area is adjacent access ladder, evidence of some removal work can be seen
Walker Art Gallery	Basement 1 / Plant Room	0008	Mastic ducting	Well Bound Material	-	-	Throughout	-	Identified	No Asbestos Detected	Ducting is lagged, all joints can not be seen
Walker Art Gallery	Basement 1 / Plant Room	0009	Putty old fire door seal	Well Bound Material	-	-	4lm	-	Identified	No Asbestos Detected	
Walker Art Gallery	Basement 1 / Plant Room	0010	Gaskets pipes and valves	Gaskets	-	-	60>	-	Identified	No Asbestos Detected	
Walker Art Gallery	Basement 1 / Plant Room	0011	Cement ceiling	Cement	-	-	200m²	-	Strongly Presumed (001)	No Asbestos Detected	
Walker Art Gallery	Basement 1 / Plant Room 2	0012	Putty fire door seal	Well Bound Material	-	-	4lm	-	Strongly Presumed (009)	No Asbestos Detected	

Building	Floor/ Room	Assessment Number	Location/ position	Product type	Surface treatment	Condition	Extent	Accessibility	Level of identification	Asbestos type	Comments
Walker Art Gallery	Ground Floor / Plant Room	0001	Cement ceiling	Cement	-	-	120m²	-	Identified	No Asbestos Detected	
Walker Art Gallery	Ground Floor / Plant Room	0002	Gaskets pipes and valves	Gaskets	-	-	20>	-	Identified	No Asbestos Detected	Composite sample taken, most connections and valves are under lagging, number is an approximate
Walker Art Gallery	1st Floor / Room 2	0014	Insulating board ceiling tile	Board	-	-	151m²	-	Identified	No Asbestos Detected	
Walker Art Gallery	1st Floor / Room 2	0021	Textured coating walls behind covering	Textured Coating	-	-	100m²	-	Strongly Presumed (013)	No Asbestos Detected	Textured coating is presumed to be behind all fabric coverings until fabric is fully removed
Walker Art Gallery	1st Floor / Room 2 Plant	0015	Insulating board ceiling and loose tiles to floor	Board	-	-	3m²	-	Identified	No Asbestos Detected	
Walker Art Gallery	1st Floor / Room 1	0016	Insulating board ceiling tile	Board	-	-	221m²	-	Strongly Presumed (014)	No Asbestos Detected	
Walker Art Gallery	1st Floor / Room 1	0022	Textured coating walls behind fabric covering	Textured Coating	-	-	100m²	-	Identified	No Asbestos Detected	Textured coating is presumed behind all fabric covering until fully removed
Walker Art Gallery	1st Floor / Room 1 Void 3	0017	Insulating board door panel	Board	-	-	1no.	-	Identified	No Asbestos Detected	

Building	Floor/ Room	Assessment Number	Location/ position	Product type	Surface treatment	Condition	Extent	Accessibility	Level of identification	Asbestos type	Comments
Walker Art Gallery	1st Floor / Room 1 Void 4	0018	Insulating board door panel	Board	-	-	1no.	-	Strongly Presumed (017)	No Asbestos Detected	
Walker Art Gallery	1st Floor / Room 1 Void 5	0019	Insulating board door panel	Board	-	-	1no.	-	Identified	No Asbestos Detected	
Walker Art Gallery	1st Floor / Room 1 Void 6	0020	Insulating board door panel	Board	-	-	1no.	-	Strongly Presumed (019)	No Asbestos Detected	
Walker Art Gallery	1st Floor / Mains Room	0023	Bitumen adhesive cork to tank	Bitumen	-	-	1no.	-	Identified	No Asbestos Detected	
Walker Art Gallery	1st Floor / Mains Room	0024	Insulating board door panel	Board	-	-	1no.	-	Identified	No Asbestos Detected	
Walker Art Gallery	Roof Void / Ceiling Void Room 2	0013	Textured coating lower level wall	Textured Coating	-	-	80m²	-	Identified	No Asbestos Detected	

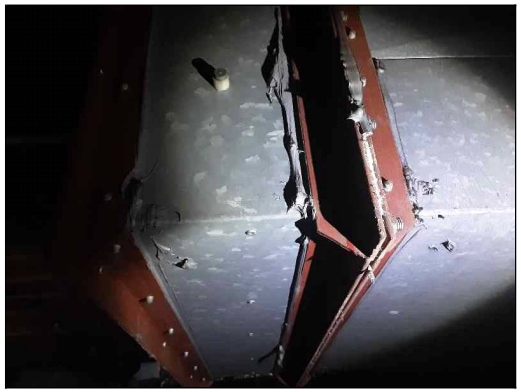
APPENDIX B - MATERIAL ASSESSMENT RECORDS

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	Ground Floor / Plant Room		
Assessment no.	0001	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Cement ceiling				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	Ground Floor / Plant Room	Composite sample taken, most connections and valves are under lagging, number is an approximate	
Assessment no.	0002	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Gaskets pipes and valves				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	Basement 1 / Plant Room		
Assessment no.	0003	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Insulating board packers to wall penetration				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	Basement 1 / Plant Room	Panels to both sides of wall	
Assessment no.	0004	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Insulating board wall panels				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	Floor/ room	Basement 1 / Plant Room	Ducting is to either end of upper level	
Assessment no.	0005	Accessibility	Occasionally likely to be disturbed		
Material Risk					
Identification	Identified	Condition	Low Damage		
Extent	6no.	Asbestos Type	Chrysotile		
Location/ position	Textile old ducting to upper level				
Surface treatment	Unsealed				
Product type	Textiles				
Material risk	Low	Material risk score	6		
Action	Remove				

Priority Risk					
Normal occupant activity			No. occupants		
			Frequency of use		
Location			Average time each use		
Accessibility			Mean score		
Extent/amount					
Mean score			Priority risk score		
Type of maintenance activity			Total risk score		
Frequency of maintenance activity					
Mean score					

Assessment details				Comments	Photograph
Building	Walker Art Gallery	Floor/ room	Basement 1 / Plant Room	Ducting is to either end of upper level	
Assessment no.	0006	Accessibility	Occasionally likely to be disturbed		
Material Risk					
Identification	Identified	Condition	Low Damage		
Extent	6no.	Asbestos Type	Chrysotile		
Location/ position	Mastic old ducting upper level				
Surface treatment	Completely Sealed				
Product type	Well Bound Material				
Material risk	Very low	Material risk score	3		
Action	Remove				

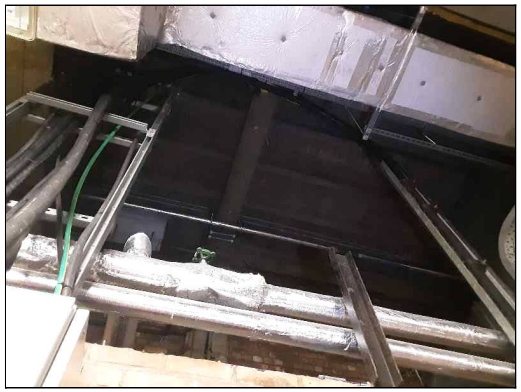
Priority Risk					
Normal occupant activity			No. occupants		
			Frequency of use		
Location			Average time each use		
Accessibility			Mean score		
Extent/amount					
Mean score			Priority risk score		
Type of maintenance activity			Total risk score		
Frequency of maintenance activity					
Mean score					

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	Basement 1 / Plant Room	Area is adjacent access ladder, evidence of some removal work can be seen	
Assessment no.	0007	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Thermal insulation debris upper level floor under electrical tray				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	Basement 1 / Plant Room	Ducting is lagged, all joints can not be seen	
Assessment no.	0008	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Mastic ducting				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

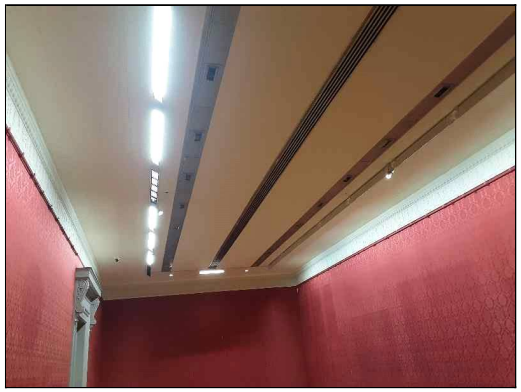
Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	Basement 1 / Plant Room		
Assessment no.	0009	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Putty old fire door seal				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	Basement 1 / Plant Room		
Assessment no.	0010	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Gaskets pipes and valves				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	Basement 1 / Plant Room		
Assessment no.	0011	**Accessibility**			
Material Risk					
Identification	Strongly Presumed (001)	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Cement ceiling				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	Basement 1 / Plant Room 2		
Assessment no.	0012	**Accessibility**			
Material Risk					
Identification	Strongly Presumed (009)	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Putty fire door seal				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	Roof Void / Ceiling Void Room 2		
Assessment no.	0013	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Textured coating lower level wall				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	1st Floor / Room 2		
Assessment no.	0014	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Insulating board ceiling tile				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	1st Floor / Room 2 Plant		
Assessment no.	0015	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Insulating board ceiling and loose tiles to floor				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	1st Floor / Room 1		
Assessment no.	0016	**Accessibility**			
Material Risk					
Identification	Strongly Presumed (014)	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Insulating board ceiling tile				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	1st Floor / Room 1 Void 3		
Assessment no.	0017	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Insulating board door panel				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	1st Floor / Room 1 Void 4		
Assessment no.	0018	**Accessibility**			
Material Risk					
Identification	Strongly Presumed (017)	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Insulating board door panel				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

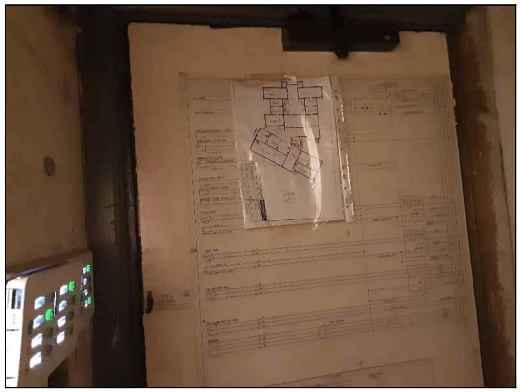
Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	1st Floor / Room 1 Void 5		
Assessment no.	0019	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Insulating board door panel				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	1st Floor / Room 1 Void 6		
Assessment no.	0020	**Accessibility**			
Material Risk					
Identification	Strongly Presumed (019)	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Insulating board door panel				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	1st Floor / Room 2	Textured coating is presumed to be behind all fabric coverings until fabric is fully removed	
Assessment no.	0021	**Accessibility**			
Material Risk					
Identification	Strongly Presumed (013)	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Textured coating walls behind covering				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	1st Floor / Room 1	Textured coating is presumed behind all fabric covering until fully removed	
Assessment no.	0022	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Textured coating walls behind fabric covering				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	1st Floor / Mains Room		
Assessment no.	0023	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Bitumen adhesive cork to tank				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

Assessment details				Comments	Photograph
Building	Walker Art Gallery	**Floor/ room**	1st Floor / Mains Room		
Assessment no.	0024	**Accessibility**			
Material Risk					
Identification	Identified	**Condition**			
Extent		**Asbestos Type**	No Asbestos Detected		
Location/ position	Insulating board door panel				
Surface treatment					
Product type	n/a				
Material risk		**Material risk score**			
Action	No further action required				

APPENDIX C - CERTIFICATES OF BULK SAMPLE ANALYSIS

ETON ENVIRONMENTAL GROUP LTD

Analysis Report

Report Number: **J043564**

Issue Date: 29/07/2020

Private & Confidential:
National Museums Liverpool
Museum of Liverpool
Pier Head
Liverpool Waterfront
L3 1DG

Premises of Sample Origin:
Walker Art Gallery
William Brown Street
Liverpool
Merseyside
L3 8EL

Analyst: Sally Sanderson

Sampled by: Darren Critchley

Date of Sample Receipt: 29/07/2020

Date of Analysis: 29/07/2020

Item No.	Lab Ref No.	SAMPLE LOCATION & DESCRIPTION	ASBESTOS FIBRE TYPE
1	DC000234	Cement ceiling	NAD
2	DC000235	Gaskets pipes and valves	NAD
3	DC000236	Insulating board packers to wall penetration	NAD
4	DC000237	Insulating board wall panels	NAD

Notes:
Method Statement: Testing was performed in accordance with the Quality Control Manual in-house method of Eton Environmental Group Ltd, based on the published method HSG248. These results only apply to the sample analysed. Eton Environmental Group Ltd cannot accept responsibility for any discrepancy or inaccuracy arising from collection, labelling or description of samples by a third party.

NAD = No Asbestos Detected In Sample

Authorised Signatory:
Andrew Graham
Quality Manager

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UKAS TESTING 2734

Laboratory, Eton Environmental Group Ltd, Unit 1, Trinity Court, Faverdale, Darlington, DL3 0PH
Tel: 01325 366886 Fax:01325 366914 Website www.etongroup.co.uk
Registered No. 5145774 Registered Office: 135 Slough Road, Datchet, SL3 9AE

ETON ENVIRONMENTAL GROUP LTD

Analysis Report

Report Number: **J043564**

Issue Date: 29/07/2020

Private & Confidential:
National Museums Liverpool
Museum of Liverpool
Pier Head
Liverpool Waterfront
L3 1DG

Premises of Sample Origin:
Walker Art Gallery
William Brown Street
Liverpool
Merseyside
L3 8EL

Analyst: Sally Sanderson

Sampled by: Darren Critchley

Date of Sample Receipt: 29/07/2020

Date of Analysis: 29/07/2020

Item No.	Lab Ref No.	SAMPLE LOCATION & DESCRIPTION	ASBESTOS FIBRE TYPE
5	DC000238	Textile old ducting to upper level	Chrysotile
6	DC000239	Mastic old ducting upper level	Chrysotile
7	DC000240	Thermal insulation debris upper level floor under electrical tray	NAD
8	DC000241	Mastic ducting	NAD

Notes:
Method Statement: Testing was performed in accordance with the Quality Control Manual in-house method of Eton Environmental Group Ltd, based on the published method HSG248. These results only apply to the sample analysed. Eton Environmental Group Ltd cannot accept responsibility for any discrepancy or inaccuracy arising from collection, labelling or description of samples by a third party.

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Quality Manager

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Museum of Liverpool
Pier Head
Liverpool Waterfront
L3 1DG

Premises of Sample Origin:
Walker Art Gallery
William Brown Street
Liverpool
Merseyside
L3 8EL

Analyst: Sally Sanderson

Sampled by: Darren Critchley

Date of Sample Receipt: 29/07/2020

Date of Analysis: 29/07/2020

Item No.	Lab Ref No.	SAMPLE LOCATION & DESCRIPTION	ASBESTOS FIBRE TYPE
9	DC000242	Putty old fire door seal	NAD
10	DC000243	Gaskets pipes and valves	NAD
13	DC000244	Textured coating lower level wall	NAD
14	DC000245	Insulating board ceiling tile	NAD

Notes:
Method Statement: Testing was performed in accordance with the Quality Control Manual in-house method of Eton Environmental Group Ltd, based on the published method HSG248. These results only apply to the sample analysed. Eton Environmental Group Ltd cannot accept responsibility for any discrepancy or inaccuracy arising from collection, labelling or description of samples by a third party.

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Quality Manager

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ETON ENVIRONMENTAL GROUP LTD

Analysis Report

Report Number: **J043564**

Issue Date: 29/07/2020

Private & Confidential:
National Museums Liverpool
Museum of Liverpool
Pier Head
Liverpool Waterfront
L3 1DG

Premises of Sample Origin:
Walker Art Gallery
William Brown Street
Liverpool
Merseyside
L3 8EL

Analyst: Sally Sanderson

Sampled by: Darren Critchley

Date of Sample Receipt: 29/07/2020

Date of Analysis: 29/07/2020

Item No.	Lab Ref No.	SAMPLE LOCATION & DESCRIPTION	ASBESTOS FIBRE TYPE
15	DC000246	Insulating board ceiling and loose tiles to floor	NAD
17	DC000247	Insulating board door panel	NAD
19	DC000248	Insulating board door panel	NAD
22	DC000249	Textured coating walls behind fabric covering	NAD

Notes:
Method Statement: Testing was performed in accordance with the Quality Control Manual in-house method of Eton Environmental Group Ltd, based on the published method HSG248. These results only apply to the sample analysed. Eton Environmental Group Ltd cannot accept responsibility for any discrepancy or inaccuracy arising from collection, labelling or description of samples by a third party.

NAD = No Asbestos Detected In Sample

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Andrew Graham
Quality Manager

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ETON ENVIRONMENTAL GROUP LTD

Analysis Report

Report Number: **J043564**

Issue Date: 29/07/2020

Private & Confidential:
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Museum of Liverpool
Pier Head
Liverpool Waterfront
L3 1DG

Premises of Sample Origin:
Walker Art Gallery
William Brown Street
Liverpool
Merseyside
L3 8EL

Analyst: Sally Sanderson

Sampled by: Darren Critchley

Date of Sample Receipt: 29/07/2020

Date of Analysis: 29/07/2020

Item No.	Lab Ref No.	SAMPLE LOCATION & DESCRIPTION	ASBESTOS FIBRE TYPE
23	DC000250	Bitumen adhesive cork to tank	NAD
24	DC000251	Insulating board door panel	NAD

Notes:
Method Statement: Testing was performed in accordance with the Quality Control Manual in-house method of Eton Environmental Group Ltd, based on the published method HSG248. These results only apply to the sample analysed. Eton Environmental Group Ltd cannot accept responsibility for any discrepancy or inaccuracy arising from collection, labelling or description of samples by a third party.

NAD = No Asbestos Detected In Sample

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APPENDIX D - GENERAL OBSERVATIONS

Building	Room no.	Description	Comments
Walker Art Gallery	Plant Room	Basement 1 – Plant Room	Concrete, cement ceiling, brick walls, concrete floor, timber and metal doors and frames, MMMF insulation to clean pipes where lagging was removed, MMMF insulation to ducting, modern electrical services, old and new services.
Walker Art Gallery	Plant Room 2	Basement 1 – Plant Room 2	Concrete ceiling, brick walls, concrete floor, metal door and frame
Walker Art Gallery	Plant Room	Ground Floor – Plant Room	Concrete, cement ceiling, brick walls, concrete floor, timber doors and frames, MMMF and foam insulation to ducting and pipes, modern fire stopping, no visible gaskets to ducting
Walker Art Gallery	Mains Room	1st Floor – Mains Room	Plasterboard ceiling with metal tank to void above, brick plaster walls, timber on concrete floor, modern electrical services, metal ducting with no visible gasket and timber panel to wall penetration
Walker Art Gallery	Room 1	1st Floor – Room 1	Board tile ceiling with void above, brick, timber panel, plasterboard walls, timber floor on concrete, timber and glass doors and frames, timber skirting
Walker Art Gallery	Room 1 Void 1	1st Floor – Room 1 Void 1	Brick, timber walls, concrete floor, modern ducting with MMMF insulation
Walker Art Gallery	Room 1 Void 2	1st Floor – Room 1 Void 2	Brick, timber walls, concrete floor, modern ducting with MMMF insulation
Walker Art Gallery	Room 1 Void 3	1st Floor – Room 1 Void 3	Brick walls, timber door and frame concrete floor
Walker Art Gallery	Room 1 Void 4	1st Floor – Room 1 Void 4	Brick walls, timber door and frame concrete floor
Walker Art Gallery	Room 1 Void 5	1st Floor – Room 1 Void 5	Brick walls, internal timber door and frame, concrete floor
Walker Art Gallery	Room 1 Void 6	1st Floor – Room 1 Void 6	Brick walls, internal timber door and frame, concrete floor
Walker Art Gallery	Room 2	1st Floor – Room 2	Board tile, plasterboard ceiling with void above, brick plaster, timber, plasterboard walls, timber floor on concrete, timber and glass doors and frames
Walker Art Gallery	Room 2 Exit	1st Floor – Room 2 Exit	Plasterboard ceiling, block plaster, plasterboard walls, timber doors, frames and floor

Walker Art Gallery	Room 2 Plant	1st Floor – Room 2 Plant	Insulating board ceiling, block walls, concrete floor, timber door and frame, modern ducting with MMMF insulation, modern electrical services
Walker Art Gallery	Room 2 Void Access	1st Floor – Room 2 Void Access	Brick walls, block, walls, timber floor, door and frame
Walker Art Gallery	Room 3	1st Floor – Room 3	Plaster ceiling, plaster coving, brick, timber panel walls, timber floor on concrete, timber boxing over modern metal heaters, timber and glass, doors and frames, MDF skirting on brick
Walker Art Gallery	Room 4	1st Floor – Room 4	Plaster, concrete plaster ceiling, timber high level panels with MMMF insulation and mesh to void behind, plaster coving, timber panel, brick walls, timber floor over concrete, timber door frames, MDF skirting, modern metal ducting to void
Walker Art Gallery	Ceiling Void Room 1	Roof Void – Ceiling Void Room 1	Plaster, timber panel ceiling, plaster coving, brick plaster walls, modern ducting with MMMF insulation, metal grid, board tile to floor
Walker Art Gallery	Ceiling Void Room 2	Roof Void – Ceiling Void Room 2	Plaster timber panel ceiling, plaster coving, brick plaster walls, modern ducting with MMMF insulation, board tile to floor

Eton Environmental Group Ltd
1 Trinity Court
Faverdale
Darlington
DL3 0PH
Tel: 01325 366886

Legend:

Asbestos positive assessment

Asbestos negative assessment

No access assessment

Area contains asbestos

Area not accessed

Area out of survey scope

Reference points shown on plan indicate point of assessment, observation or no access only. For full extents see register/ assessment tables within this report.

Drawing not to scale

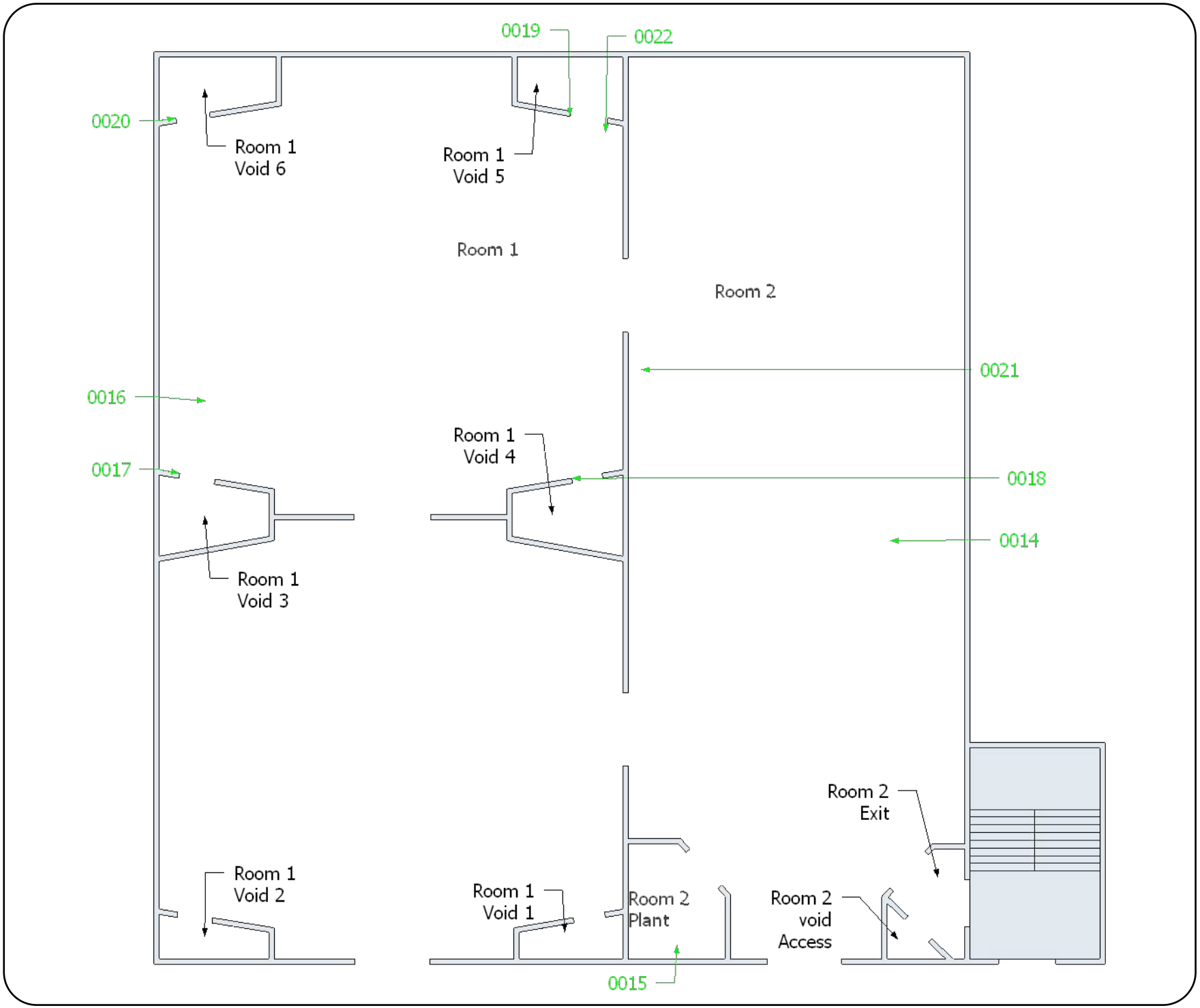
Survey reference:
J043564

Survey date:
July 2020

Building:
Walker Art Gallery

Floor:
Ground & Basement (Plat Only)

Site address:
Walker Art Gallery,
William Brown Street,
Liverpool,
Merseyside,
L3 8EL



Eton Environmental Group Ltd
1 Trinity Court
Faverdale
Darlington
DL3 0PH
Tel: 01325 366886

Legend:

Asbestos positive assessment

Asbestos negative assessment

No access assessment

Area contains asbestos

Area not accessed

Area out of survey scope

Reference points shown on plan indicate point of assessment, observation or no access only. For full extents see register/ assessment tables within this report.

Drawing not to scale

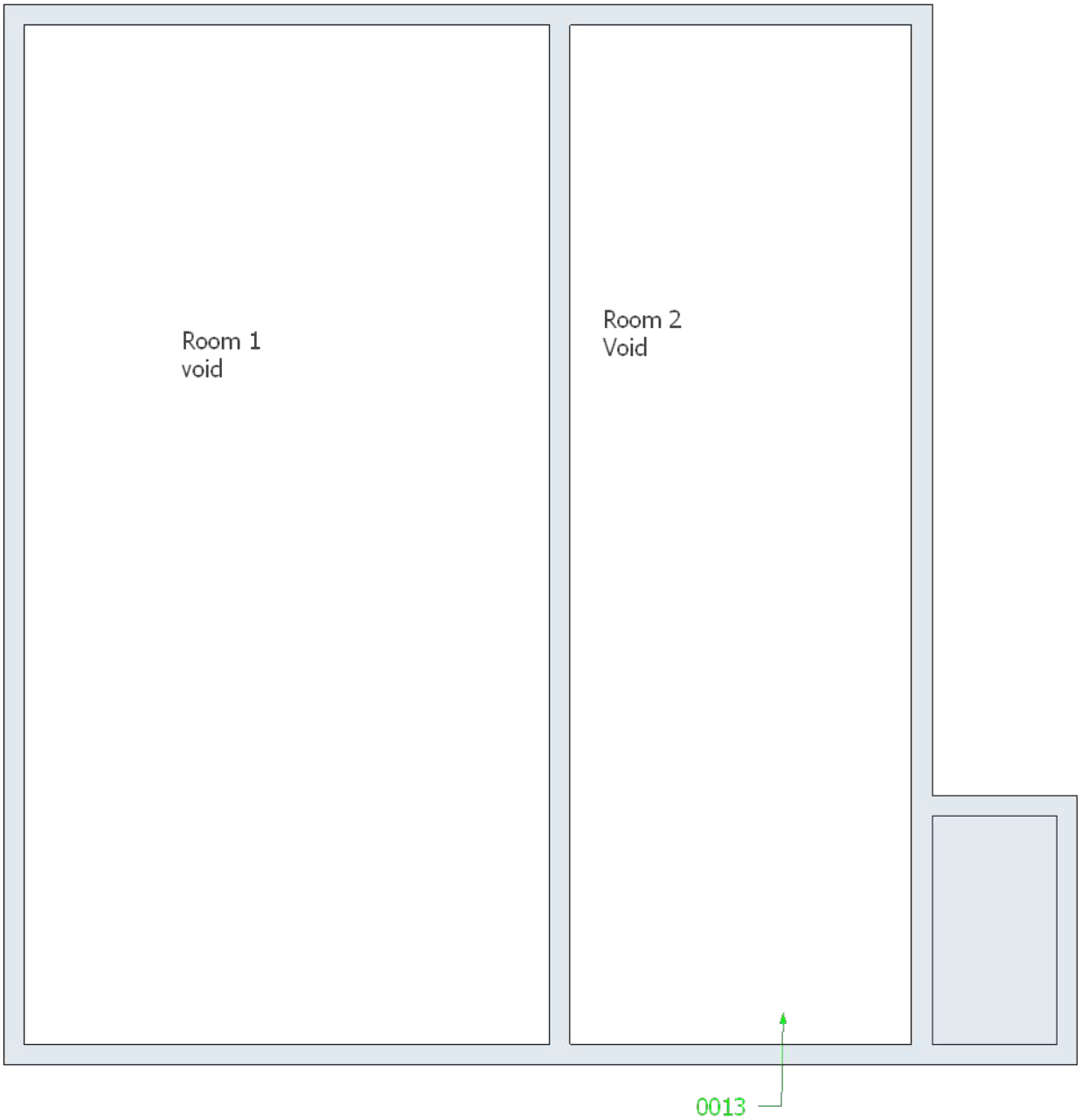
Survey reference:
J043564

Survey date:
July 2020

Building:
Walker Art Gallery

Floor:
First (Rooms 1 & 2)

Site address:
Walker Art Gallery,
William Brown Street,
Liverpool,
Merseyside,
L3 8EL



Eton Environmental Group Ltd
1 Trinity Court
Faverdale
Darlington
DL3 0PH
Tel: 01325 366886

Legend:

Asbestos positive assessment

Asbestos negative assessment

No access assessment

Area contains asbestos

Area not accessed

Area out of survey scope

Reference points shown on plan indicate point of assessment, observation or no access only. For full extents see register/ assessment tables within this report.

Drawing not to scale

Survey reference:
J043564

Survey date:
July 2020

Building:
Walker Art Gallery

Floor:
Ceiling voids

Site address:
Walker Art Gallery,
William Brown Street,
Liverpool,
Merseyside,
L3 8EL

End of report