# Asbestos Survey Report

# Refurbishment & Demolition Survey

**HM Coastguard (Crosby)**
**MCA Liverpool/RS/Crosby CRS**
**Hall Road**
**Liverpool**
**L23 8SY**

Project Number: N-69442
Issue Date: 3rd November 2017
Issue No: 1


**Maritime and Coastguard Agency**

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# Life Environmental - Survey Report Guide

This guide explains the Section content of the survey report. Failure to use the information provided in the report correctly may result in incorrect information or assumptions being obtained.

**Section 1.0 Executive Summary**

The Executive Summary contains details of the scope and extent of the works. The reader must ensure that the scope covers the required areas and that any variations do not impact on any proposed works or management of the site. **All areas of no access should be considered as containing asbestos until proven otherwise.**

Recommended Actions provides a summary of all identified and presumed asbestos containing materials (ACMs). ACMs are listed by recommendation with those requiring urgent attention listed first.

The Asbestos Register presents ACMs by building, floor & location. It provides a detailed list of all locations included within the survey where positive samples have been taken or items are presumed to contain asbestos. Items physically sampled will show the asbestos type within the analysis column.

Items cross referenced (strong presumption) have their asbestos type determined by the sample result of materials of similar appearance and use that have been sampled elsewhere on site. These will show the analysis proceeded by X.

Strongly Presumed samples are items that the surveyor was unable to sample but the materials are similar in appearance and use to known asbestos-containing materials and hence they are confirmed as containing asbestos.

Presumed items are those that the surveyor was unable to sample or inspect adequately to confirm the presence of asbestos, as such there is a potential for asbestos being present and the item is presumed to contain asbestos.

A Material Assessment algorithm has been completed for all positive samples.

Recommendations within this report are based on the condition of the asbestos and the Material Assessment.

**Section 2.0 Introduction**

The Introduction provides a general overview of the purpose, aims and type of survey undertaken. It also presents Project particulars and Quality Assurance.

**Section 3.0 Methodology & Limitations of Method**

This section details the survey methodology adopted and the specific scope of the survey works agreed with the client. Within Refurbishment & Demolition Surveys access will generally involve intrusive investigations as agreed with the client. The specific limitations for the survey are detailed within the table. Should any variations occur against the agreed scope then details of these will be given within the table. These will be agreed with the client at the time of the survey.

**Section 4.0 Survey Findings – Survey Data Sheets**

Survey Data Sheets contains detailed information on all suspect items with a photographic record of each item.

**Section 5.0 Survey Findings – Location Register**

Location Register summarizes location by location all identified and presumed asbestos, all areas of no access and limited access, and all recorded non-asbestos materials

**Section 6.0 – Survey Findings – Certificate & Schedule of Bulk Samples**

This section provides analysis information and results of all samples taken.

**Appendices 1 & 2 - Definitions & Recommended Guidance & Material & Priority Assessment algorithms**

These contain a general guidance relating to Samples, Assessments and Recommendations and a detailed Risk Assessment explanation.

**Appendix 3 - Survey Drawings**

All locations will be given a unique reference number which corresponds to the location detailed within the Asbestos Register. The drawings highlight areas containing positive information and areas of no access. In the case of planned works, a check should always be made of adjacent areas.

# Table of Contents

# 1.0 Executive Summary

The brief for these works was to carry out a Refurbishment & Demolition Survey (as defined in HSG 264) for the presence of asbestos containing materials within the following locations:

## 1.1 Scope of Works:

Refurbishment survey to 2 outbuildings of HM Coastguard site:

Quarantine Building
- Removal / replacement of 3no. Doors
- External walls for vent removal and repairs
- Roof for cleaning and removal of rainwater goods, plus refurbishment of soffits / fascias
- Ceiling for replacement, light fixture replacements and electrical replacements
- Walls for removal of blockwork
- New flooring install

Generator Room
- Roof for clean and replacement rainwater goods
- External Walls for vent removals and repair work, plus removal / replacement of doors
- Ceiling for replacement
- Walls for installation of plasterboard
- New flooring

The scope of the survey should be noted in conjunction with all agreed exclusions and any additional access limitations. Additional limitations may affect the validity of this report and additional works may be required in order to ensure the report is fit for purpose.

## 1.2 Recommended Actions

Detailed below is guidance on actions to be taken to prevent potential exposure to ACMs.

There is a specific requirement in the Control of Asbestos Regulations 2012 (regulation 7) for all ACMs to be removed as far as reasonably practicable before refurbishment works are carried out. It is acknowledged however that the works may not be carried out immediately and the ACMs on site need to be managed. The ACMs identified have been given a risk assessment rating as detailed in the material assessment section further within the report.

As the survey type undertaken was a Refurbishment & Demolition survey, all identified asbestos materials have been recommended for removal.

Please contact Life Environmental Services Ltd. for advice in dealing with any asbestos in poor, unsealed or damaged condition or for assistance in developing your management plan and scheduling re-inspections.

All locations were accessible at the time of this survey.

## 1.3 Asbestos Register

ACMs were not identified or presumed during the survey. Please note, some items may be detailed under Floor 'Multiple' if the room is present over multiple floors.

Recommended Action – There is a specific requirement in the Control of Asbestos Regulations 2012 (regulation 7) for all ACMs to be removed as far as is reasonably practicable before major refurbishment or final demolition.

# 2.0 Introduction

## 2.1 Purpose and Aim of survey

The purpose of this Refurbishment & Demolition Survey is to help the duty holder identify asbestos in these premises, prior to any refurbishment or demolition in accordance with HSG 264 and CAR 2012. It provides sufficient information to help the tendering process for removal works prior to any work starting, however it is strongly recommended that any asbestos removal should be undertaken against a detailed specification. We further recommend the appointed removal contractor should attend the site to confirm for themselves the quantities and location of asbestos to be removed, prior to costing. Life Environmental Services Ltd cannot guarantee the quantities identified are accurate and they shouldn't be used for pricing removal works.

The aim of a Refurbishment & Demolition Survey is to:

1. Locate and record the location, extent and product type, as far as reasonably practicable, of known ACMs, along with an estimate of their quantity.

2. Determine and record the asbestos type based on sampling, or by making a strong presumption based on comparison to other samples.

## 2.2 Type of survey – Refurbishment & Demolition Survey

Refurbishment & Demolition Surveys are intended to locate all asbestos within the building or under the scope of the survey (refurbishment). It is a disruptive, fully intrusive survey that involves destructive inspection techniques that penetrate the building structure extensively. This involves breaking into floors, through walls, into wall voids, ceilings, cladding, boxing etc. as necessary to gain access to all areas, including the inner fabric of the building. A full sampling programme is undertaken to identify possible ACMs and estimate their quantities.

All areas have been accessed as far as is reasonably practicable. Any areas that it was not possible to access have been presumed to contain asbestos and documented within this report.

This survey involved sampling and analysis to confirm the presence or absence of asbestos; however presumptions may also have been used within this report to presume the presence of ACMs.

This Refurbishment & Demolition Survey includes a Material Assessment of the identified or presumed ACM's, these assessments are explained in the following sections of this report.

It is recommended that further intrusive inspection and sampling be carried out where site refurbishment, maintenance, or similar may disturb ACMs that have remained inaccessible during this survey; this should be a Refurbishment/Demolition Survey as described in HSG 264.

# 2.0 Introduction

## 2.3 Project Particulars

Life Environmental Services Ltd received an order of confirmation to undertake a Refurbishment & Demolition Survey from Maritime and Coastguard Agency. This order has been accepted on the basis of the original Quotation and Survey Plan and our terms and conditions of business.

All subsequent information provided by the client or ascertained otherwise was assessed during planning stage of the project and a suitable Plan of Work produced. Where information was provided regarding the presence of known or presumed asbestos materials then this has been validated during the course of the survey, and recorded within this report.

This survey was carried out in accordance with documented in house procedures and HSE Guidance document HSG 264.

**Scope of Works**:

Refurbishment survey to 2 outbuildings of HM Coastguard site:

Quarantine Building
- Removal / replacement of 3no. Doors
- External walls for vent removal and repairs
- Roof for cleaning and removal of rainwater goods, plus refurbishment of soffits / fascias
- Ceiling for replacement, light fixture replacements and electrical replacements
- Walls for removal of blockwork
- New flooring install

Generator Room
- Roof for clean and replacement rainwater goods
- External Walls for vent removals and repair work, plus removal / replacement of doors
- Ceiling for replacement
- Walls for installation of plasterboard
- New flooring

**Site Description:**

Two brick and breezeblock constructed outbuildings built in approximately the 1980s / 90s

### 2.4 Quality Assurance:

| | | |
|---|---|---|
| **Client Details:** | Maritime and Coastguard Agency | |
| **Date(s) of Survey:** | 19-October-2017 | |
| **Surveyor(s):** | Lead Surveyor(s): Andrew Stringer | |
| **Report Prepared by:** | Vicky Eldridge | 3rd November 2017 |
| **Quality Control by:** | Vicky Eldridge | 3rd November 2017 |
| **Technical Review:** | Andrew Stringer  | 3rd November 2017 |
| **Life Environmental Project Manager:** | Russ Roberts | |

# 3.0 Methodology & Limitations of Method

For safety reasons it is not possible to inspect internal areas of live electrical items, heating, ventilation, or mechanical plant and machinery without isolation of such services.

Whilst all areas of the building included within the scope of the survey will be accessed and inspected as far as reasonably practicable, Life Environmental Services Ltd cannot be held responsible for asbestos potentially present in areas of the building not explicitly specified within the client instruction, not indicated on provided site plans or not physically possible to access.

Although every care has been taken to identify all asbestos containing products within the areas surveyed, this survey does not include those areas where obtaining a sample would cause undue damage to the integrity and security of the building, risk the safety of our operatives or where access could not be gained. Asbestos should be presumed to be present within any areas not surveyed until a further assessment can be carried out.

It is important to note that the degree of inspection performed during an asbestos survey is not as detailed as the inspections and analytical processes carried out following the removal of ACMs. Visual inspections during clearance procedures involve a detailed examination of all areas and surfaces within an asbestos enclosure and although a survey should identify ACMs within an area where inadequate asbestos removal activities have been previously undertaken, it is not designed to check on the effectiveness of such inspections. Where previous asbestos removal work has taken place, reference should also be made to clearance documentation when reading this report.

The survey includes taking dust samples from areas where contamination is suspected to be present due to visible signs of damage to asbestos or signs of previous asbestos removal works but does not include random dust sampling.

Where suspect materials are identified as part of any works that do not appear to be detailed within the survey report then these materials should be treated with caution and presumed to contain asbestos until sampled and analysed.

Decorative coatings and paints etc. (such as “Artex”) may contain a trace quantity of Chrysotile asbestos. Due to this low asbestos content, applications of this product may be non-homogenous and may elicit both positive and negative sample results. Where both positive and negative samples are obtained the client should presume that the textured coatings contain Chrysotile throughout even though a non-detected result has been obtained. It should also be noted that asbestos may exist in paint with no obvious textured appearance. Random sampling of such paint is not carried out routinely unless specifically requested.

Due to the non-homogenous nature of some thermal insulation products it is possible to obtain both a positive and negative result when sampling the same material. In instances where this occurs then all sample results for the given insulation type should be treated as containing asbestos. This applies to all thermal insulation and insulation residues and debris.

Materials have been referred to as Asbestos Insulating Board or Asbestos Cement based upon their appearance alone. Water absorption testing, as detailed within L143, has not been carried out unless stated otherwise.

Where asbestos gaskets to pipe flanges have been identified it is not practical to trace these throughout the length of pipework within the property. All such gaskets are presumed to contain asbestos.

Unless specifically identified within the report, no responsibility can be accepted for stored or portable items of asbestos.

Whilst all asbestos materials have been identified as far as is reasonably practicable, some asbestos materials may remain unidentified within the fabric of the building. This includes ACMs concealed by suspect items.

Unless specifically identified within the report, no responsibility can be accepted for non-systematic or random use of asbestos within the property. It must be presumed that asbestos may remain unidentified to these types of areas and if suspect materials are uncovered then samples should be taken for analysis.

Material extents are approximations only, assigned by the surveyor at the time of the survey. It should be noted that such extents may be for specific, visible amounts of the asbestos item and not for the complete amount. As such, the stated extents should not be used as a basis of any Scope or Specifications of Works for that item. It is recommended that any proposed abatement/removal of the asbestos should be undertaken against a detailed specification, therefore Life Environmental Services Ltd cannot be held responsible for any misinterpretation of the contents of this report by a third party if they were not instructed to provide a specification.

This report does not include investigations into land contamination associated with asbestos or any other contaminant.

# 3.0 Methodology & Limitations of Method

Life Environmental Services Ltd makes every effort to locate and identify all Asbestos Containing Materials (ACMs), within the scope of the agreed inspection brief, supplied by the client. Due to the nature of Asbestos distribution and uncontrolled usage within buildings built prior to 1999, Life Environmental Services Ltd will not accept any liability for claims arising from post survey, hidden or unidentified ACMs, or contamination arising from their subsequent disturbance.

Life Environmental Services Ltd makes every effort to locate and identify all Asbestos Containing Materials (ACMs), within the scope of the agreed inspection brief, supplied by the client. Due to the nature of Asbestos distribution and uncontrolled usage within buildings built prior to 1999, Life Environmental Services Ltd will not accept any liability for claims arising from post survey, hidden or unidentified ACMs, or contamination arising from their subsequent disturbance
Whilst all asbestos materials have been identified as far as is reasonably practicable, some asbestos materials may remain unidentified because they are buried within the fabric of the building. Potential locations are as follows:

- Shuttering buried within concrete slabs
- Asbestos hidden by structural supports
- Asbestos hidden behind other suspect products
- Building structures which are unsafe to fully access

It must be presumed that asbestos may remain unidentified to these types of areas. If suspect materials are uncovered during demolition, contact should be made with Life Environmental Services Ltd to arrange for samples to be taken for analysis.

## 3.3 Scoping Table

| Refurbishment & Demolition Survey - Access Allowances – The following access requirements have been agreed at Quotation Stage | | |
|---|---|---|
| **Intrusive access and other access provision - Based on agreed Scope** | **Areas included within Scope of survey** | **Surveyors Comment / Detail of any variation** |
| **Height** access provision | Standard (3m) ⊙<br>Long (6m) ○<br>Tower (4m) ○<br>Tower (6-10m) ○<br>Power (10m+) ○<br>Standard, Tower ○<br>Standard, Tower, Power ○ | N/A |
| **Loft spaces**<br>(Note: access for management surveys will only be made where safe and sufficient walkways are available) | Yes ○<br>No ⊙ | N/A |
| **Electrical switchgear** | Yes ○<br>No ⊙ | N/A |
| **Plant / equipment** | Yes ○<br>No ⊙ | N/A |
| **Lift shafts** | Yes ○<br>No ⊙ | N/A |
| **Escalator Pits** | Yes ○<br>No ⊙ | N/A |
| **Confined spaces** | Yes ○<br>No ⊙ | N/A |
| **External soffits & Fascias** | Yes ⊙<br>No ○ | N/A |
| **Roof**<br>(requiring specialist equipment) | Yes ⊙<br>No ○ | N/A |
| **Boxing**<br>(readily accessible by removable panels) | Yes ⊙<br>No ○<br>All boxing and falsework to be accessed | N/A |
| **Solid Wall cavities** | Yes ⊙<br>No ○ | N/A |
| **Partition Wall cavities** | Yes ⊙<br>No ○ | N/A |
| **Wall Cladding & Coverings** | Yes ⊙<br>No ○ | N/A |
| **Fixed suspended ceilings** | Yes ⊙<br>No ○ | N/A |
| **Glazing** | Yes ○<br>No ⊙ | N/A |

# 3.0 Methodology & Limitations of Method

| Refurbishment & Demolition Survey - Access Allowances – The following access requirements have been agreed at Quotation Stage | | |
|---|---|---|
| **Intrusive access and other access provision - Based on agreed Scope** | **Areas included within Scope of survey** | **Surveyors Comment / Detail of any variation** |
| **Window Frames** | Yes ○<br>No ◉ | N/A |
| **Window sills** | Yes ◉<br>No ○ | N/A |
| **Door Frames** | Yes ◉<br>No ○ | N/A |
| **Doors internally** | Yes ◉<br>No ○ | N/A |
| **Concealed Risers or Voids**<br>(Known or identified during survey) | Yes ◉<br>No ○ | N/A |
| **Ventilation trunking**<br>(fume trunking should be specifically identified and assessed) | Yes ◉<br>No ○ | N/A |
| **Skirting** | Yes ◉<br>No ○ | N/A |
| **Fixed Flooring** | Yes ◉<br>No ○ | N/A |
| **Floor voids** | Yes ◉<br>No ○ | N/A |
| **Floor ducts**<br>(specific details / layout required; specialist lifting equipment; covered or known) | Yes ○<br>No ◉ | N/A |
| **Below Ground Drainage Systems** | Yes ○<br>No ◉ | N/A |
| **Slab**<br>(specify depth / diameter) | Yes ○<br>No ◉<br>Add detail, (specify depth / diameter) | N/A |
| **Locked Locations** | Client / Site to provide access ◉<br>Life to provide Locksmith ○<br>Life to force entry ○ | N/A |
| **Beyond suspected or known asbestos installations** | Yes ○<br>No ◉ | N/A |
| **Other Variations to Scope** | N/A | |

**Note: If any activities are to be undertaken within areas that have not been accessed as part of this survey then a further survey and assessment should be carried out prior to these works**

# 4.0 Survey Findings – Survey Data Sheets

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 001 - Generator Room | | | |  |
| Survey Date | | 19 October 2017 | | Level of Identification | Inspected Area | | | | |
| Next Inspection | | | | Sample No | | | | | |
| Building | | Generator Building | | Item | Generator | | | | |
| Floor | | 0 | | Amount | | | | | |
| **A - Product Type** | | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | | |
| No Suspect Materials Seen | | | | | No Asbestos Detected | | | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | | | | | |
| **Further Information:** | Area visually inspected. No suspect materials seen.<br>Generator and associated equipment found to be of modern age | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 001 - Generator Room | | | |  |
| Survey Date | | 19 October 2017 | | Level of Identification | Sampled | | | | |
| Next Inspection | | | | Sample No | 0001 | | | | |
| Building | | Generator Building | | Item | Ceiling Boards | | | | |
| Floor | | 0 | | Amount | | | | | |
| **A - Product Type** | | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | | |
| Insulating Board | | | | | No Asbestos Detected | 0 | | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | No recommendation required | | | | |
| **Further Information:** | Includes roof space hatch | | | | | | | | |

# 4.0 Survey Findings – Survey Data Sheets

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 001 - Generator Room | | |  |
| Survey Date | | 19 October 2017 | | Level of Identification | Sampled | | | |
| Next Inspection | | | | Sample No | 0002 | | | |
| Building | | Generator Building | | Item | Gaskets To Top Of Oil Tank | | | |
| Floor | | 0 | | Amount | | | | |
| **A - Product Type** | | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| Gasket | | | | | No Asbestos Detected | 0 | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | No recommendation required | | | |
| **Further Information:** | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 001 - Generator Room | | |  |
| Survey Date | | 19 October 2017 | | Level of Identification | Sampled | | | |
| Next Inspection | | | | Sample No | 0003 | | | |
| Building | | Generator Building | | Item | Rope To Generator Exhaust Where It Exits Wall | | | |
| Floor | | 0 | | Amount | | | | |
| **A - Product Type** | | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| Textile Rope & Yarn | | | | | No Asbestos Detected | 0 | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | No recommendation required | | | |
| **Further Information:** | | | | | | | | |

# 4.0 Survey Findings – Survey Data Sheets

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|---|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | | Room / Area | 001 - Generator Room | | |  |
| Survey Date | | 19 October 2017 | | | Level of Identification | Sampled | | | |
| Next Inspection | | | | | Sample No | 0004 | | | |
| Building | | Generator Building | | | Item | Dust / Debris Within Floor Channel | | | |
| Floor | | 0 | | | Amount | | | | |
| **A - Product Type** | | **B - Extent of Damage** | | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| Debris | | | | | | No Asbestos Detected | 0 | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | No recommendation required | | | | |
| **Further Information:** | | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | | Room / Area | 002 - Electrical Intake Store | | |  |
| Survey Date | | 19 October 2017 | | | Level of Identification | Inspected Area | | | |
| Next Inspection | | | | | Sample No | | | | |
| Building | | Generator Building | | | Item | Below Timber Floor Panels | | | |
| Floor | | 0 | | | Amount | | | | |
| **A - Product Type** | | **B - Extent of Damage** | | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| No Suspect Materials Seen | | | | | | No Asbestos Detected | | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | | | | | |
| **Further Information:** | Area visually inspected. No suspect materials seen.<br>Void below contains modern rubber coated intake cable which exits via cast iron pipe | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Surveyor | Andrew Stringer | Room / Area | 002 - Electrical Intake Store | | |
| Survey Date | 19 October 2017 | Level of Identification | Strong Presumed (X) | | |
| Next Inspection | | Sample No | As 0001 | | |
| Building | Generator Building | Item | Ceiling Board | | |
| Floor | 0 | Amount | | | |
| **A - Product Type** | **B - Extent of Damage** | **C – Surface Treatment** | **D – Asbestos Type** | | Accessibility |
| Insulating Board | | | No Asbestos Detected | 0 | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | **Recommendation:** | No recommendation required | |
| **Further Information:** | Visually consistent with sample number 0001. | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Surveyor | Andrew Stringer | Room / Area | 003 - Roof Space | | |
| Survey Date | 19 October 2017 | Level of Identification | Sampled | | |
| Next Inspection | | Sample No | 0005 | | |
| Building | Generator Building | Item | Debris On Top Of Ceiling Boards | | |
| Floor | 0 | Amount | | | |
| **A - Product Type** | **B - Extent of Damage** | **C – Surface Treatment** | **D – Asbestos Type** | | Accessibility |
| Insulating Board | | | No Asbestos Detected | 0 | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | **Recommendation:** | No recommendation required | |
| **Further Information:** | | | | | |

# 4.0 Survey Findings – Survey Data Sheets

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|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 004 - External | | | |
| Survey Date | | 19 October 2017 | | Level of Identification | Inspected Area | | | |
| Next Inspection | | | | Sample No | | | | |
| Building | | Generator Building | | Item | Wall Vent Cover | | | |
| Floor | | External | | Amount | | | | |
| **A - Product Type** | | **B - Extent of Damage** | | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility |
| No Suspect Materials Seen | | | | | | No Asbestos Detected | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | | | | |
| **Further Information:** | Area visually inspected. No suspect materials seen.<br>Timber frame with natural slate packers. No suspect materials observed in wall cavity surrounding vent | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 004 - External | | | |
| Survey Date | | 19 October 2017 | | Level of Identification | Inspected Area | | | |
| Next Inspection | | | | Sample No | | | | |
| Building | | Generator Building | | Item | Behind Plastic Verge Capping | | | |
| Floor | | External | | Amount | | | | |
| **A - Product Type** | | **B - Extent of Damage** | | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility |
| No Suspect Materials Seen | | | | | | No Asbestos Detected | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | | | | |
| **Further Information:** | Area visually inspected. No suspect materials seen. | | | | | | | |

# 4.0 Survey Findings – Survey Data Sheets

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 004 - External | | | | |
| Survey Date | | 19 October 2017 | | Level of Identification | Inspected Area | | | | |
| Next Inspection | | | | Sample No | | | | | |
| Building | | Generator Building | | Item | Doors | | | | |
| Floor | | External | | Amount | | | | | |
| **A - Product Type** | | **B - Extent of Damage** | | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| No Suspect Materials Seen | | | | | | No Asbestos Detected | | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | | | | | |
| **Further Information:** | Area visually inspected. No suspect materials seen.<br>No suspect seals or packers observed to all doors | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 004 - External | | | | |
| Survey Date | | 19 October 2017 | | Level of Identification | Sampled | | | | |
| Next Inspection | | | | Sample No | 0006 | | | | |
| Building | | Generator Building | | Item | Roof Tiles | | | | |
| Floor | | External | | Amount | | | | | |
| **A - Product Type** | | **B - Extent of Damage** | | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| Cement Products | | | | | | No Asbestos Detected | 0 | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | No recommendation required | | | | |
| **Further Information:** | | | | | | | | | |

# 4.0 Survey Findings – Survey Data Sheets

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 004 - External | | |  |
| Survey Date | | 19 October 2017 | | Level of Identification | Sampled | | | |
| Next Inspection | | | | Sample No | 0007 | | | |
| Building | | Generator Building | | Item | Wall Render | | | |
| Floor | | External | | Amount | | | | |
| **A - Product Type** | | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| Plaster | | | | | No Asbestos Detected | 0 | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | No recommendation required | | | |
| **Further Information:** | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 005 - Store | | |  |
| Survey Date | | 19 October 2017 | | Level of Identification | Sampled | | | |
| Next Inspection | | | | Sample No | 0008 | | | |
| Building | | Quarantine Building | | Item | Ceiling Boards | | | |
| Floor | | 0 | | Amount | | | | |
| **A - Product Type** | | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| Insulating Board | | | | | No Asbestos Detected | 0 | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | No recommendation required | | | |
| **Further Information:** | | | | | | | | |

# 4.0 Survey Findings – Survey Data Sheets

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 006 - Store | | | |
| Survey Date | | 19 October 2017 | | Level of Identification | Inspected Area | | | |
| Next Inspection | | | | Sample No | | | | |
| Building | | Quarantine Building | | Item | Wall Vent | | | |
| Floor | | 0 | | Amount | | | | |
| **A - Product Type** | | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| No Suspect Materials Seen | | | | | No Asbestos Detected | | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | | | | |
| **Further Information:** | Area visually inspected. No suspect materials seen. | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 006 - Store | | | |
| Survey Date | | 19 October 2017 | | Level of Identification | Sampled | | | |
| Next Inspection | | | | Sample No | 0009 | | | |
| Building | | Quarantine Building | | Item | Ceiling Boards | | | |
| Floor | | 0 | | Amount | | | | |
| **A - Product Type** | | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| Insulating Board | | | | | No Asbestos Detected | 0 | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | No recommendation required | | | |
| **Further Information:** | | | | | | | | |

# 4.0 Survey Findings – Survey Data Sheets

| | | | | | |
|---|---|---|---|---|---|
| Surveyor | Andrew Stringer | | Room / Area | 007 - Store | |
| Survey Date | 19 October 2017 | | Level of Identification | Inspected Area | |
| Next Inspection | | | Sample No | | |
| Building | Quarantine Building | | Item | Wall Vent | |
| Floor | 0 | | Amount | | |
| **A - Product Type** | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | Accessibility |
| No Suspect Materials Seen | | | | No Asbestos Detected | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | |
| **Further Information:** | Area visually inspected. No suspect materials seen. | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Surveyor | Andrew Stringer | | Room / Area | 007 - Store | |
| Survey Date | 19 October 2017 | | Level of Identification | Strong Presumed (X) | |
| Next Inspection | | | Sample No | As 0009 | |
| Building | Quarantine Building | | Item | Ceiling Boards | |
| Floor | 0 | | Amount | | |
| **A - Product Type** | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | Accessibility |
| Insulating Board | | | | No Asbestos Detected | 0 |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | No recommendation required |
| **Further Information:** | Visually consistent with sample number 0009. | | | | |

# 4.0 Survey Findings – Survey Data Sheets

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 008 - Roof Space | | |  | |
| Survey Date | | 19 October 2017 | | Level of Identification | Inspected Area | | | | |
| Next Inspection | | | | Sample No | | | | | |
| Building | | Quarantine Building | | Item | All Areas | | | | |
| Floor | | 0 | | Amount | | | | | |
| **A - Product Type** | | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | | |
| No Suspect Materials Seen | | | | | No Asbestos Detected | | | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | | | | | |
| **Further Information:** | Area visually inspected. No suspect materials seen. | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 009 - External | | |  | |
| Survey Date | | 19 October 2017 | | Level of Identification | Inspected Area | | | | |
| Next Inspection | | | | Sample No | | | | | |
| Building | | Quarantine Building | | Item | Doors | | | | |
| Floor | | External | | Amount | | | | | |
| **A - Product Type** | | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | | |
| No Suspect Materials Seen | | | | | No Asbestos Detected | | | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | | | | | |
| **Further Information:** | Area visually inspected. No suspect materials seen.<br>No suspect seals or packers observed to all doors | | | | | | | | |

# 4.0 Survey Findings – Survey Data Sheets

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 009 - External | | | | |
| Survey Date | | 19 October 2017 | | Level of Identification | Inspected Area | | | | |
| Next Inspection | | | | Sample No | | | | | |
| Building | | Quarantine Building | | Item | Soffits And Fascias | | | | |
| Floor | | External | | Amount | | | | | |
| **A - Product Type** | | **B - Extent of Damage** | | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| No Suspect Materials Seen | | | | | | No Asbestos Detected | | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | | | | | |
| **Further Information:** | Area visually inspected. No suspect materials seen. | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 009 - External | | | | |
| Survey Date | | 19 October 2017 | | Level of Identification | Sampled | | | | |
| Next Inspection | | | | Sample No | 0010 | | | | |
| Building | | Quarantine Building | | Item | Roof Tiles | | | | |
| Floor | | External | | Amount | | | | | |
| **A - Product Type** | | **B - Extent of Damage** | | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| Cement Products | | | | | | No Asbestos Detected | 0 | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | No recommendation required | | | | |
| **Further Information:** | | | | | | | | | |

# 4.0 Survey Findings – Survey Data Sheets

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Surveyor | | Andrew Stringer | | Room / Area | 009 - External | | |  |
| Survey Date | | 19 October 2017 | | Level of Identification | Sampled | | | |
| Next Inspection | | | | Sample No | 0011 | | | |
| Building | | Quarantine Building | | Item | Wall Render | | | |
| Floor | | External | | Amount | | | | |
| **A - Product Type** | | **B - Extent of Damage** | **C – Surface Treatment** | | **D – Asbestos Type** | | Accessibility | |
| Plaster | | | | | No Asbestos Detected | 0 | | |
| **Material Ass' Score = (A+B+C+D):** | 0 | **Risk Coding** | | **Recommendation:** | No recommendation required | | | |
| **Further Information:** | | | | | | | | |

# 5.0 Survey Findings – Location Register

| Building | Floor | Location | Asbestos, Non-Asbestos and Presumed Items | | | | |
|---|---|---|---|---|---|---|---|
| | | | Limited or No Access Areas | Item | Material | Level of Identification | Asbestos Type |
| Generator Building | 0 | 001 - Generator Room | | Floor | Concrete | | |
| Generator Building | 0 | 001 - Generator Room | | Generator | No Suspect Materials Seen | IA | NAD |
| Generator Building | 0 | 001 - Generator Room | | Walls | Masonry | | |
| Generator Building | 0 | 001 - Generator Room | | Lintels | Concrete | | |
| Generator Building | 0 | 001 - Generator Room | | Ceiling Boards | Insulating Board | S0001 | NAD |
| Generator Building | 0 | 001 - Generator Room | | Gaskets To Top Of Oil Tank | Gasket | S0002 | NAD |
| Generator Building | 0 | 001 - Generator Room | | Rope To Generator Exhaust Where It Exits Wall | Textile Rope & Yarn | S0003 | NAD |
| Generator Building | 0 | 001 - Generator Room | | Dust / Debris Within Floor Channel | Debris | S0004 | NAD |
| Generator Building | 0 | 002 - Electrical Intake Store | | Below Timber Floor Panels | No Suspect Materials Seen | IA | NAD |
| Generator Building | 0 | 002 - Electrical Intake Store | | Walls | Masonry | | |
| Generator Building | 0 | 002 - Electrical Intake Store | | Lintel | Concrete | | |
| Generator Building | 0 | 002 - Electrical Intake Store | | Floor | Timber Products | | |
| Generator Building | 0 | 002 - Electrical Intake Store | | Ceiling Board | Insulating Board | X0001 | NAD |
| Generator Building | 0 | 003 - Roof Space | | Pipe Insulation | MMMF Insulation | | |
| Generator Building | 0 | 003 - Roof Space | | Water Tanks | Metal Products | | |
| Generator Building | 0 | 003 - Roof Space | | Roof Lining | Synthetic | | |
| Generator Building | 0 | 003 - Roof Space | | Debris On Top Of Ceiling Boards | Insulating Board | S0005 | NAD |
| Generator Building | External | 004 - External | | Roof Soffits | Timber Products | | |
| Generator Building | External | 004 - External | | Rainwater Goods | Plastic | | |
| Generator Building | External | 004 - External | | Behind Plastic Verge Capping | No Suspect Materials Seen | IA | NAD |
| Generator Building | External | 004 - External | | Doors | No Suspect Materials Seen | IA | NAD |
| Generator Building | External | 004 - External | | Wall Vent Cover | No Suspect Materials Seen | IA | NAD |

# 5.0 Survey Findings – Location Register

| Building | Floor | Location | Asbestos, Non-Asbestos and Presumed Items | | | | |
|---|---|---|---|---|---|---|---|
| | | | Limited or No Access Areas | Item | Material | Level of Identification | Asbestos Type |
| Generator Building | External | 004 - External | | Roof Tiles | Cement Products | S0006 | NAD |
| Generator Building | External | 004 - External | | Wall Render | Plaster | S0007 | NAD |
| Quarantine Building | 0 | 005 - Store | | Floor | Concrete | | |
| Quarantine Building | 0 | 005 - Store | | Walls | Masonry | | |
| Quarantine Building | 0 | 005 - Store | | Ceiling Boards | Insulating Board | S0008 | NAD |
| Quarantine Building | 0 | 006 - Store | | Walls | Masonry | | |
| Quarantine Building | 0 | 006 - Store | | Wall Vent | No Suspect Materials Seen | IA | NAD |
| Quarantine Building | 0 | 006 - Store | | Floor | Concrete | | |
| Quarantine Building | 0 | 006 - Store | | Ceiling Boards | Insulating Board | S0009 | NAD |
| Quarantine Building | 0 | 007 - Store | | Wall Vent | No Suspect Materials Seen | IA | NAD |
| Quarantine Building | 0 | 007 - Store | | Walls | Masonry | | |
| Quarantine Building | 0 | 007 - Store | | Floor | Concrete | | |
| Quarantine Building | 0 | 007 - Store | | Ceiling Boards | Insulating Board | X0009 | NAD |
| Quarantine Building | 0 | 008 - Roof Space | | Roof Lining | Synthetic | | |
| Quarantine Building | 0 | 008 - Roof Space | | All Areas | No Suspect Materials Seen | IA | NAD |
| Quarantine Building | External | 009 - External | | Soffits And Fascias | No Suspect Materials Seen | IA | NAD |
| Quarantine Building | External | 009 - External | | Doors | No Suspect Materials Seen | IA | NAD |
| Quarantine Building | External | 009 - External | | Rainwater Goods | Plastic | | |
| Quarantine Building | External | 009 - External | | Roof Soffits / Fascias | Timber Products | | |
| Quarantine Building | External | 009 - External | | Roof Tiles | Cement Products | S0010 | NAD |
| Quarantine Building | External | 009 - External | | Wall Render | Plaster | S0011 | NAD |

# 6.0 Survey Findings - Certificate & Schedule of Bulk Samples

**Client Contact:**

Matthew Taylor

Maritime & Coastguard Agency
Spring Place
105 Commercial Road
Southampton
SO15 1EG

**Tel:**

**Life Environmental Services Ltd**

4 Duckett's Wharf
South Street
Bishop's Stortford
Hertfordshire
CM23 3AR

**Tel:** 01279 503117

**Site:** HM Coastguard (Crosby)
MCA Liverpool/RS/Crosby CRS
Hall Road
Liverpool

**Date Sampled/Received:** 19 October 2017. Sample(s) taken by Andrew Stringer.

| Sample No. | Location/ Comments | Item Description | Material | Asbestos Result | Analyst (Analysis Date) | Comments (where applicable) |
|---|---|---|---|---|---|---|
| 0001 | Generator Room | Ceiling Boards | Insulating Board | NAD | Ellie Watts (02/11/2017) | Not Applicable |
| 0002 | Generator Room | Gaskets To Top Of Oil Tank | Gasket | NAD | Ellie Watts (02/11/2017) | Not Applicable |
| 0003 | Generator Room | Rope To Generator Exhaust Where It Exits Wall | Textile Rope & Yarn | NAD | Ellie Watts (02/11/2017) | Not Applicable |
| 0004 | Generator Room | Dust / Debris Within Floor Channel | Debris | NAD | Ellie Watts (02/11/2017) | Not Applicable |
| 0005 | Roof Space | Debris On Top Of Ceiling Boards | Insulating Board | NAD | Ellie Watts (02/11/2017) | Not Applicable |
| 0006 | External | Roof Tiles | Cement Products | NAD | Ellie Watts (02/11/2017) | Not Applicable |
| 0007 | External | Wall Render | Plaster | NAD | Ellie Watts (02/11/2017) | Not Applicable |
| 0008 | Store | Ceiling Boards | Insulating Board | NAD | Ellie Watts (02/11/2017) | Not Applicable |
| 0009 | Store | Ceiling Boards | Insulating Board | NAD | Ellie Watts (02/11/2017) | Not Applicable |
| 0010 | External | Roof Tiles | Cement Products | NAD | Ellie Watts (02/11/2017) | Not Applicable |
| 0011 | External | Wall Render | Plaster | NAD | Ellie Watts (02/11/2017) | Not Applicable |

0610

# 6.0 Survey Findings - Certificate & Schedule of Bulk Samples

**Analysts Name(s):** **Ellie Watts** **Signature(s):** 

**TEST NOTES:**

1. Samples submitted for examination have been analysed to determine the presence of asbestos fibres using the methods documented in the HSG248 the Analyst Guide for Sampling Analysis and Clearance Procedures & in house procedures in section 11 of the Quality Manual.
2. Samples in this test report have been analysed at one of our accredited Laboratories (see addresses below). Please note, the material description is outside the scope of our UKAS accreditation.
3. This test report shall not be reproduced or copied without the written approval of Life Environmental Services Limited.
4. Opinion and interpretations are outside the scope of accreditation and are not included within this test report
5. Samples taken by Life Environmental Services Ltd are in accordance with the HSG 248 the Analyst Guide for Sampling Analysis and Clearance Procedures and HSG 264.
6. Life Environmental Services Ltd is not responsible for sampling errors where they have not taken the sample.

**Test Certificates Issued Under Head Office UKAS Accreditation No. 0610**

**Level of Identification**

**Sample** (S) A physical sample was taken on site by the Surveyor and analysed by the laboratory.

**Cross reference** (X) No sample was taken but the material is visually similar to a sample that has been analysed from the survey. This is a form of Strong Presumption as defined in HSG264.

**Strongly Presumed** (SP) No sample was taken but due to the appearance of the material and with the surveyor's knowledge and experience the material has been identified as containing asbestos.

**Presumed** (P) No sample was taken and therefore due to this lack of information the material or item must be presumed to contain asbestos. This will often be because the item could not be sampled due to excessive height (such as soffits) or an item could not be inspected (or sampled) as this may have presented a risk to the Surveyor (e.g. opening up live plant and electrics).

No access areas are also treated as a presumption.

**Inspected Area** (IA) This illustrates that a particular area within a room has been inspected and no suspect materials were identified. It is an opportunity for the surveyor to photograph and record that a particular element has been inspected without the need to sample. This will usually be during a refurbishment survey.

**Non-suspect items**

The surveyor will record non-suspect items as part of the survey. This will include non-asbestos materials which can be confused as containing asbestos by those who have less experience of ACMs. This will include non-asbestos boards (e.g. Supalux and Vermiculite), modern vinyl products, modern bitumen products, etc. The surveyor may record other non-asbestos items as determined during the course of the survey.

Non-asbestos boards will also be sampled periodically throughout the building to confirm they are non-asbestos.

In rooms where there are no non-asbestos items and no suspect items to record the surveyor will record 'All Areas/Items – No Suspect Materials Seen' this illustrates that the surveyor has inspected all areas of the room as far as is reasonably practicable in accordance with the survey scope and has deemed the room asbestos free.

Non-suspect items are recorded within the Location Register in Section 5.

**Floor**

All ACMs are detailed by location number, with the relevant floor given by numerical value. However, in instances where a room or location is present over more than one floor (e.g. Staircases and Lift Shafts) the floor may be detailed as 'Multiple'. Hence when reviewing the Asbestos Register to gain an overview of an entire floor, it is necessary to consult two sections of the register, firstly the relevant floor, secondly any 'Multiple' locations that may be present.

**Recommendations**

The various recommendations given within this report are explained below:-

**Remove**

If an item is recommended for removal it has either sustained damage and is posing an increased risk in its current condition; or due to its location it is considered high risk as it could easily be disturbed in the future. Materials recommended for removal will be given one of the following recommendations:-

**Removal by Licensed Contractor**. This will include removal of AIB, Insulation, and Spray Coatings and is likely to be subject to a 14 day notification to the HSE, (as per the Control of Asbestos Regulations 2012).

**Removal by Approved Contractor.** This will include removal of lower risk materials such as Asbestos Cement, Bitumen Products, Reinforced Composites, and Floor Tiles etc. Some such works may be considered Notifiable Non-Licensed Works.

The Control of Asbestos Regulations 2012 does not necessarily require such removal works to be undertaken by a licensed contractor. However it is good practice, and we would strongly recommended that all removal works are undertaken by a licensed contractor.

**Restrict Access**

Materials have been identified that are in a damaged condition often with associated debris that can be easily disturbed. As such access to the area should be prevented to all persons until such a time when the area has been deemed safe for reoccupation. This will usually be once removal works have been completed.

**No Access – Inspection Required**

Access to the given location was either not possible at all or only limited access was possible. In both instances there is the potential for unidentified asbestos being present and as such the area must be treated as containing asbestos until full access is possible.
Arrangements should be made at the earliest opportunity to revisit locations where access was not possible or access was limited in order that such areas can be inspected fully.

Items and materials that are presumed to contain asbestos will also be given the recommendation of 'No Access – Inspection required'. In these instances the item or material should be treated as containing asbestos until arrangements can be made to access such items or materials in order to carry out an inspection or sample to confirm or otherwise the presence of asbestos.

**No Recommendation Required**

Asbestos has not been identified and as such no further action is required.

**Recommended Guidance**

To comply with and ensure that the requirements of section 2 & 3 of the Health and Safety at Work Act (as amended) 1974, the Management of Health and Safety at Work Regulations 1999, the Control of Asbestos Regulations 2012 and the Control of Substances Hazardous to Health 2002 are met, the following recommendations should be implemented:

Undertake suitable and sufficient Risk Assessments of identified ACMs against normal occupation and maintenance operations, in compliance with Regulations 3 of the Management of Health & Safety at Work Regulations 1999 and Regulation 6 of the Control of Asbestos Regulations 2012.

The findings of the survey be brought to the attention of those persons who are likely to come in contact with asbestos, in compliance with Section 2 and 3 of the Health and Safety at Work Act (as amended) 1974 and Regulation 9 of the Control of Asbestos Regulations 2012.

Implement an Asbestos Management Policy, Plan and review process in compliance Regulation 4 of the Control of Asbestos Regulations 2012.

During the course of the survey it may not have been possible to access all areas of the site. Details of areas requiring further access is identified within the Data Sheets and Executive Summary of this report. In accordance with HSG 264, asbestos is presumed to be present within these areas and should be treated accordingly until further inspection and analysis of building fabric and services proves otherwise.

Where asbestos debris or asbestos in poor condition has been found it is recommended that access is restricted to these areas in accordance with Regulation 11 of the Control of Asbestos Regulations 2012 and that air monitoring is carried out within adjacent areas in order to assess airborne fibre levels.

# Appendix 1 – Definitions & Recommended Guidance

All identified asbestos to be appropriately identified and subject to Risk Assessment, management, and re-inspection.

Site specific recommendations in respect to the location and condition of asbestos materials identified during the course of this inspection are detailed in the Survey Data Sheets and Asbestos register. In considering the management of asbestos materials identified to date, these recommendations should be referred to and complied with.

It is recommended that work on, or removal of, both licensed and non licensed ACMs is undertaken by a licensed asbestos removal contractor so that the Duty Holder / Client can have confidence that the contractor has provided the correct level of training and has the experience and knowledge necessary to deal with these products safely.

It is a requirement of CAR 2012 that further intrusive investigations and sampling be carried out where any refurbishment, maintenance, or similar activity is planned that may expose asbestos materials. This should be a refurbishment/demolition survey as documented by HSG 264.

The findings of this report should not be solely relied upon in obtaining costs for proposed asbestos abatement work. Any proposed abatement/removal of the asbestos should be undertaken against a detailed specification.

# Appendix 2 – Material Assessment Algorithms

Where ACMs have been identified or presumed to be present a **Material Assessment Algorithm** has been calculated as detailed in HSG 264 and reproduced in line with the table overleaf.

The Material Assessment is an assessment of the condition of the ACM, or the presumed ACM, and the likelihood of it releasing fibres in the event of it being disturbed in some way.

For each of the four variables given by the table a score is allocated. The four scores are added together to give a Material Assessment score of between 2 and 12.

**HIGH RISK 10-12**
Materials with scores of 10 or more should be regarded as high risk with a significant potential to release fibres if disturbed;

**MEDIUM RISK 7- 9**
Those materials with a score between 7 and 9 are regarded as medium risk to release fibres.

**LOW RISK 5-6**
Materials with a score between 5 and 6 are low risk to release fibres.

**VERY LOW RISK 4 or less**
Scores of 4 or less are very low risk.

| Section | Sample Variable | Score | *Examples of Score* |
|---|---|---|---|
| **A** | Product type (or debris from product). | 1 | Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi rigid paint or decorative finishes, asbestos cement, etc.). |
| | | 2 | Asbestos insulating board, mill boards, other low-density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt. |
| | | 3 | Thermal insulation (e.g.: pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing. |
| **B** | 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 delamination of materials, sprays and thermal insulation. Visible asbestos debris. |
| **C** | Surface Treatment | 0 | Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles. |
| | | 1 | Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), unsealed cement sheets, etc. |
| | | 2 | Unsealed AIB, or encapsulated lagging and sprays. |
| | | 3 | Unsealed lagging and sprays. |
| **D** | Asbestos type | 1 | Chrysotile. |
| | | 2 | Amphibole asbestos excluding Crocidolite. |
| | | 3 | Crocidolite. |
| Material Assessment Score = A + B + C + D | | | |

# Appendix 2 – Material Assessment Algorithms

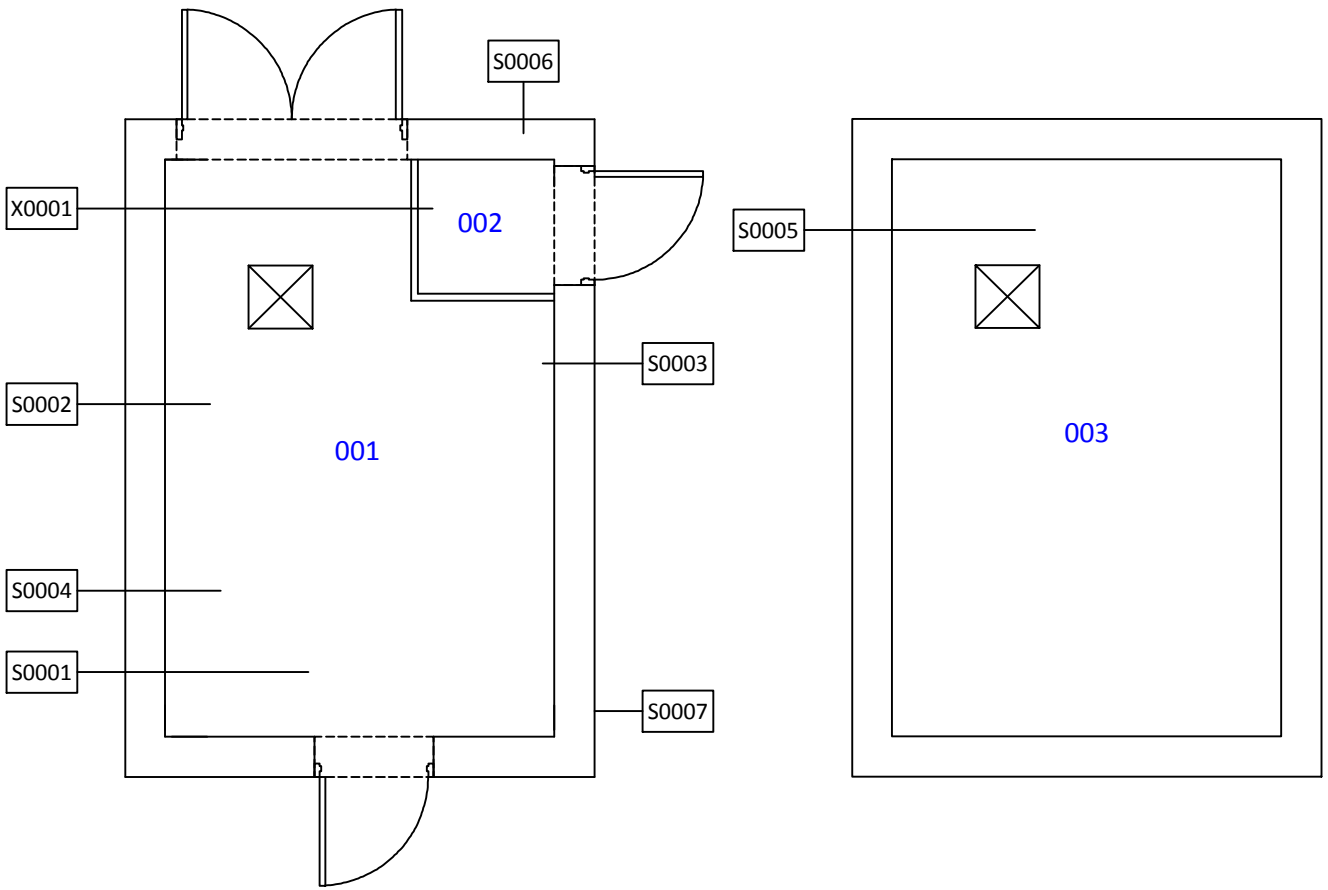
The Material Assessment identifies the high risk materials, that is, those which will most readily release airborne fibres if disturbed. It does not automatically follow that those materials assigned the highest score in the Material Assessment will be the materials that should be given priority for remedial action. Management priority must be determined by carrying out a Risk Assessment which will also take into account the likely maintenance activity; occupant activity; likelihood of disturbance; and human exposure potential.

# Appendix 3 – Survey Drawings

Drawing Not to Scale

Drawing should not be viewed in isolation. Please refer to Report Asbestos Register.

# Generator Building
# Ground & External Floor Plan





life environmental services

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Refurbishment & Demolition Survey Plan

Maritime & Coastguard Agency

HM Coastguard (Crosby)
MCA Liverpool/RS/Crosby CRS
Hall Road, Liverpool
L23 8SY

Job No.: N-69442

**Key**

- 001 - Location Number
- - No Access
- - Limited Access
- - Outside Scope of Survey
- S0001 - Asbestos Removed
- S0001 - Positive Sample
- X0001 - Cross Referenced Sample
- SP - Strongly Presumed Asbestos
- P - Presumed Asbestos
- S0001 - Negative Sample
- X0001 - Negative Cross Referenced Sample

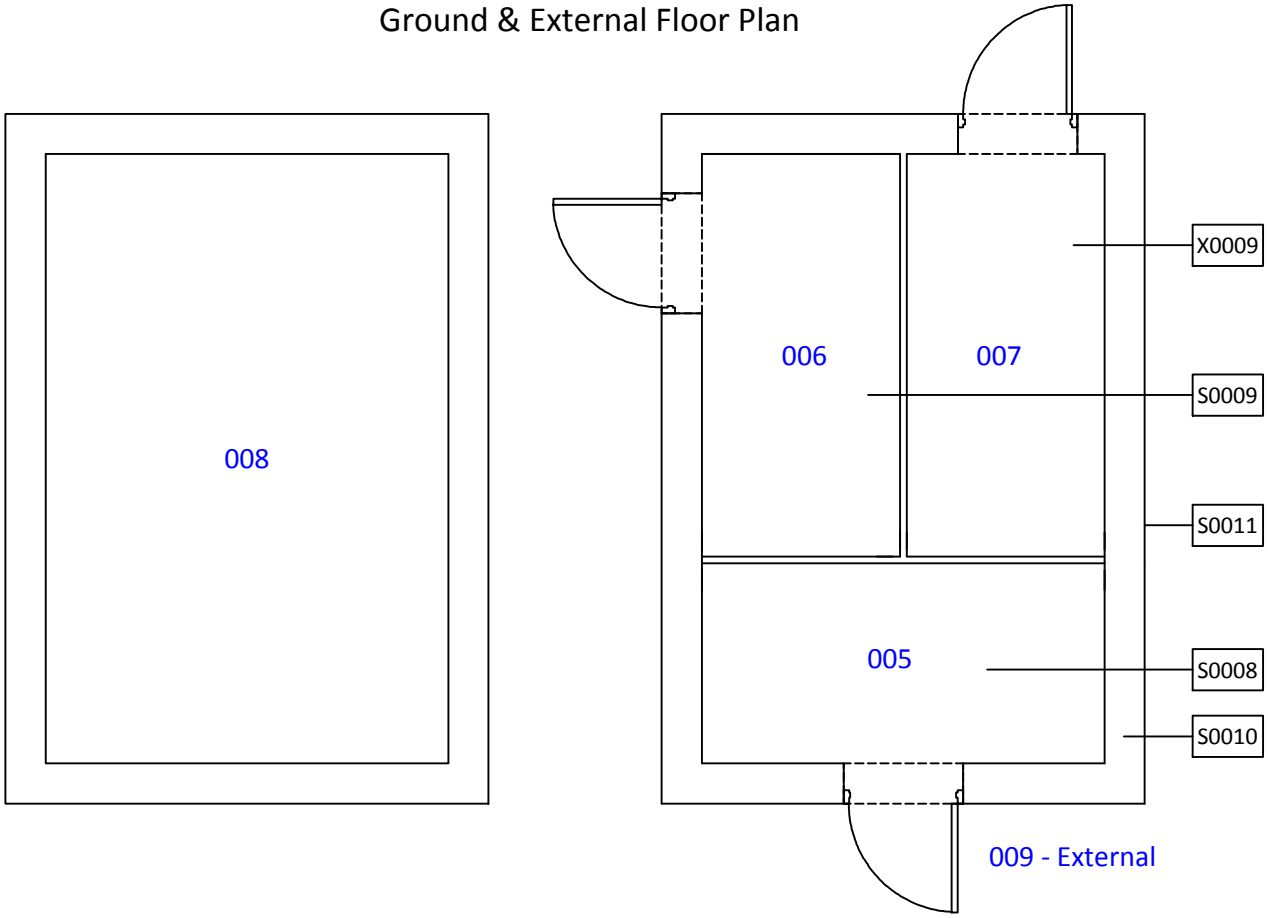
| | |
|---|---|
| Drawn By: | WJ |
| Date: | 03/11/2017 |
| Surveyor Initials: | AS |
| Survey Date: | 19/10/2017 |
| Revision No.: | 2.4 Oct 2016 |
| Page: | 1 of 2 |

Board | Cement | Gaskets | Floor Tiles | Textile | Reinforced Composite | Textured Coating | Bitumen | Thermal Insulation

Drawing Not to Scale

Drawing should not be viewed in isolation. Please refer to Report Asbestos Register.

# Quarantine Building
# Ground & External Floor Plan





life environmental services

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Refurbishment & Demolition Survey Plan

Maritime & Coastguard Agency

HM Coastguard (Crosby)
MCA Liverpool/RS/Crosby CRS
Hall Road, Liverpool
L23 8SY

Job No.: N-69442

**Key**

- 001 - Location Number
- - No Access
- - Limited Access
- - Outside Scope of Survey
- S0001 - Asbestos Removed
- S0001 - Positive Sample
- X0001 - Cross Referenced Sample
- SP - Strongly Presumed Asbestos
- P - Presumed Asbestos
- S0001 - Negative Sample
- X0001 - Negative Cross Referenced Sample

| | |
|---|---|
| Drawn By: | WJ |
| Date: | 03/11/2017 |
| Surveyor Initials: | AS |
| Survey Date: | 19/10/2017 |
| Revision No.: | 2.4 Oct 2016 |
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Board | Cement | Gaskets | Floor Tiles | Textile | Reinforced Composite | Textured Coating | Bitumen | Thermal Insulation