# APPENDIX 14.1 CONSTRUCTION & DEMOLITION WASTE MANAGEMENT PLAN

STEPHEN LITTLE & ASSOCIATES MAY 2021



# CONSTRUCTION & DEMOLITION WASTE MANAGEMENT PLAN FOR A PROPOSED RESIDENTIAL DEVELOPMENT

MASTERPLAN, SITE 3, SITE 4
AND SITE 5.

# **APPENDIX 14.1**

Report Prepared For

Dublin Central GP Limited or shortened to DCGP Ltd.

Report Prepared By

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Our Reference

CB/20/11784WMR01

Date of Issue

26 April 2021

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# **Document History**

Document Reference		Original Issue Date	Original Issue Date						
CB/20/11784WMR01		26 April 2021							
Revision Level	Revision Date	Description	Sections Affected						
			-						

# **Record of Approval**

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#### 1.0 INTRODUCTION

AWN Consulting Ltd. (AWN) has prepared this Operational Waste Management Plan (OWMP) on behalf of Dublin Central GP Limited or shortened to DCGP Ltd. The Dublin Central project is an expansive (c.2.3 Ha) and complex regeneration project. It needs to be delivered in stages to overcome site and project constraints. A site wide cumulative masterplan has been prepared by 'the Applicant' to set out the overall development vision for the Dublin Central project. 'The Masterplan' area encompasses almost entirely three urban blocks. The area is bounded generally by O'Connell Street Upper and Henry Place to the east, Henry Street to the south, Moore Street to the west, and O'Rahilly Parade and Parnell Street to the north. Moore Lane extends south from Parnell Street through the centre of the masterplan area, as far as its junction with Henry Place.

This plan will provide information necessary to ensure that the management of C&D waste at the site is undertaken in accordance with the current legal and industry standards including the *Waste Management Acts* 1996 - 2011 and associated Regulations <sup>1</sup>, *Protection of the Environment Act* 2003 as amended <sup>2</sup>, *Litter Pollution Act* 1997 as amended <sup>3</sup> and the *Eastern-Midlands Region Waste Management Plan* 2015 – 2021 <sup>4</sup>.

In particular, this Plan aims to ensure maximum recycling, reuse and recovery of waste with diversion from landfill, wherever possible. It also seeks to provide guidance on the appropriate collection and transport of waste from the site to prevent issues associated with litter or more serious environmental pollution (e.g. contamination of soil and/or water).

This C&D WMP includes information on the legal and policy framework for C&D waste management in Ireland, estimates of the type and quantity of waste to be generated by the proposed development and makes recommendations for management of different waste streams.

#### 2.0 CONSTRUCTION & DEMOLITION WASTE MANAGEMENT IN IRELAND

# 2.1 National Level

The Irish Government issued a policy statement in September 1998 known as 'Changing Our Ways' <sup>5</sup>, which identified objectives for the prevention, minimisation, reuse, recycling, recovery and disposal of waste in Ireland. The target for C&D waste in this report was to recycle at least 50% of C&D waste within a five year period (by 2003), with a progressive increase to at least 85% over fifteen years (i.e. 2013).

In response to the *Changing Our Ways* report, a task force (Task Force B4) representing the waste sector of the already established Forum for the Construction Industry, released a report entitled '*Recycling of Construction and Demolition Waste*' <sup>6</sup> concerning the development and implementation of a voluntary construction industry programme to meet the Government's objectives for the recovery of C&D waste.

In September 2020 the government released a new national policy document outlining a new action plan for Ireland and it's waste to cover the period of 2020-2025. This plan 'A Waste Action Plan for a Circular Economy' 7, was prepared in response to the 'European

Green Deal' which sets a roadmap for a transition to a new economy, where climate and environmental challenges are turned into opportunities. Replacing the previous national waste management plan "A Resource Opportunity (2012)".

It aims to fulfil the commitment in the Programme for Government to publish and start implementing a new National Waste Action Plan. It is intended that this new national waste policy will inform and give direction to waste planning and management in Ireland over the coming years. It will be followed later this year by an All of Government Circular Economy Strategy. The policy document shifts focus away from waste disposal and moves it back up the production chain. To support the policy, regulation is already being used (Circular Economy Legislative Package) or in the pipeline (Single Use Plastics Directive). The policy document contains over 200 measures across various waste areas including Circular Economy, Municipal Waste, Consumer Protection & Citizen Engagement, Plastics and Packaging, Construction and Demolition, Textiles, Green Public Procurement and Waste Enforcement.

The National Construction and Demolition Waste Council (NCDWC) was launched in June 2002, as one of the recommendations of the Forum for the Construction Industry, in the Task Force B4 final report. The NCDWC subsequently produced 'Best Practice Guidelines for the Preparation of Waste Management Plans for Construction and Demolition Projects' <sup>8</sup> in July 2006 in conjunction with the then Department of the Environment, Heritage and Local Government (DoEHLG). The guidelines outline the issues that need to be addressed at the pre-planning stage of a development all the way through to its completion. These guidelines have been followed in the preparation of this document and include the following elements:

- Predicted C&D wastes and procedures to prevent, minimise, recycle and reuse wastes;
- Waste disposal/recycling of C&D wastes at the site;
- Provision of training for waste manager and site crew;
- Details of proposed record keeping system;
- Details of waste audit procedures and plan; and
- Details of consultation with relevant bodies i.e. waste recycling companies, Dublin City Council etc.

Section 3 of the Guidelines identifies thresholds above which there is a requirement for the preparation of a C&D Waste Management Plan for developments. This development requires a C&D WMP under the following criterion:

- New residential development of 10 houses or more;
- New developments other than (1) above, including institutional, educational, health and other public facilities, with an aggregate floor area in excess of 1,250 m2; and
- Demolition/renovation/refurbishment projects generating in excess of 100m3 in volume, of C&D waste;

Other guidelines followed in the preparation of this report include 'Construction and Demolition Waste Management – a handbook for Contractors and Site Managers' published by FÁS and the Construction Industry Federation in 2002.

These guidance documents are considered to define best practice for C&D projects in Ireland and describe how C&D projects are to be undertaken such that environmental impacts and risks are

# 2.2 Regional Level

The proposed development is located in the Local Authority area of Dublin City Council (DCC). The *Eastern-Midlands Region Waste Management Plan 2015 – 2021* is the regional waste management plan for the DCC area published in May 2015.

The Regional Plan sets out the strategic targets for waste management in the region and sets a specific target for C&D waste of "70% preparing for reuse, recycling and other recovery of construction and demolition waste" (excluding natural soils and stones and hazardous wastes) to be achieved by 2020.

Municipal landfill charges in Ireland are based on the weight of waste disposed. In the Leinster Region, charges are approximately €130 - €150 per tonne of waste which includes a €75 per tonne landfill levy introduced under the *Waste Management (Landfill Levy)* (Amendment) Regulations 2012.

The *Dublin City Development Plan 2016* - 2022  $^{10}$  sets out a number of policies and objectives for Dublin City in line with the objectives of the regional waste management plan. The plan identifies the development of recycling in order to minimise the use of landfill as the main objective of the City Council. Waste policies and objectives with a particular relevance to the proposed development are:

# Policies:

- SI19: To support the principles of good waste management and the implementation of best international practice in relation to waste management in order for Dublin City and the region to become self-reliant in terms of waste management.
- SI20: To prevent and minimise waste and to encourage and support material sorting and recycling.
- SI21: To minimise the amount of waste which cannot be prevented and ensure it is managed and treated without causing environmental pollution.

# Objectives:

- SIO17: To promote the re-use of building materials, recycling of demolition material and the use of materials from renewable sources. In all developments in excess of 10 housing units and commercial developments in excess of 1000 sqm, a materials source and management plan showing type of materials/proportion of re-use/recycled materials to be used shall be implemented by the developer.
- SIO18: To implement the current Litter Management Plan through enforcement of the litter laws, street cleaning and education and awareness campaigns.
- SIO19: To implement the Eastern-Midlands Waste Management Plan 2015-2021 and achieve the plan targets and objectives.

# 2.3 Legislative Requirements

The primary legislative instruments that govern waste management in Ireland and applicable to the project are:

- Waste Management Act 1996 (No. 10 of 1996) as amended. Sub-ordinate legislation includes:
  - European Communities (Waste Directive) Regulations 2011 (SI 126 of 2011) as amended
  - Waste Management (Collection Permit) Regulations (S.I No. 820 of 2007) as amended
  - Waste Management (Facility Permit and Registration) Regulations 2007,
     (S.I No. 821 of 2007) as amended
  - Waste Management (Licensing) Regulations 2004 (S.I. No. 395 of 2004)
     as amended
  - Waste Management (Packaging) Regulations 2014 (S.I. 282 of 2014) as amended
  - Waste Management (Planning) Regulations 1997 (S.I. No. 137 of 1997)
  - Waste Management (Landfill Levy) Regulations 2015 (S.I. No. 189 of 2015)
  - European Union (Waste Electrical and Electronic Equipment) Regulations 2014 (S.I. No. 149 of 2014)
  - European Union (Batteries and Accumulators) Regulations 2014 (S.I. No. 283 of 2014) as amended
  - Waste Management (Food Waste) Regulations 2009 (S.I. 508 of 2009), as amended
  - European Union (Household Food Waste and Bio-waste) Regulation 2015 (S.I. No. 191 of 2015)
  - Waste Management (Hazardous Waste) Regulations, 1998 (S.I. No. 163 of 1998) as amended
  - Waste Management (Shipments of Waste) Regulations, 2007 (S.I. No. 419 of 2007) as amended
  - Waste Management (Movement of Hazardous Waste) Regulations, 1998
     (S.I. No. 147 of 1998)
  - European Communities (Transfrontier Shipment of Waste) Regulations 1994 (SI 121 of 1994)
  - European Union (Properties of Waste which Render it Hazardous)
     Regulations 2015 (S.I. No. 233 of 2015) as amended
- Environmental Protection Act 1992 (No. 7 of 1992) as amended.
- Litter Pollution Act 1997 (No. 12 of 1997) as amended.
- Planning and Development Act 2000 (No. 30 of 2000) as amended 11.

One of the guiding principles of European waste legislation, which has in turn been incorporated into the *Waste Management Act* 1996 - 2001 and subsequent Irish legislation, is the principle of "Duty of Care". This implies that the waste producer is responsible for waste from the time it is generated through until its legal recycling, recovery or disposal (including its method of disposal). As it is not practical in most cases for the waste producer to physically transfer all waste from where it is produced to the final destination, waste contractors will be employed to physically transport waste to the final destination. Following on from this is the concept of "Polluter Pays" whereby the waste producer is liable to be prosecuted for pollution incidents, which may arise from

the incorrect management of waste produced, including the actions of any contractors engaged (e.g. for transportation and disposal/recovery/recycling of waste).

It is therefore imperative that the client ensures that the waste contractors engaged by demolition and construction contractors are legally compliant with respect to waste transportation, recycling, recovery and disposal. This includes the requirement that a contractor handle, transport and recycle/recover/dispose of waste in a manner that ensures that no adverse environmental impacts occur as a result of any of these activities.

A collection permit to transport waste must be held by each waste contractor which is issued by the National Waste Collection Permit Office (NWCPO). Waste receiving facilities must also be appropriately permitted or licensed. Operators of such facilities cannot receive any waste, unless in possession of a Certificate of Registration (COR) or waste permit granted by the relevant Local Authority under the *Waste Management* (Facility Permit & Registration) Regulations 2007 and Amendments or a waste or IE licence granted by the EPA. The COR/permit/licence held will specify the type and quantity of waste able to be received, stored, sorted, recovered and/or disposed of at the specified site.

#### 3.0 DESCRIPTION OF THE PROJECT

# 3.1 Location, Size and Scale of the Development

# Master Plan

The Dublin Central project is an expansive (c.2.2 Ha) and complex regeneration project. It needs to be delivered in stages to overcome site and project constraints.

A site wide cumulative masterplan has been prepared by 'the Applicant' to set out the overall development vision for the Dublin Central project.

'The Masterplan' area encompasses almost entirely three urban blocks. The area is bounded generally by O'Connell Street Upper and Henry Place to the east, Henry Street to the south, Moore Street to the west, and O'Rahilly Parade and Parnell Street to the north. Moore Lane extends south from Parnell Street through the centre of the masterplan area, as far as its junction with Henry Place.

#### Site 3

Located in the south west corner of 'the Masterplan' area, Site 3 is bounded by Henry Street to the south, Moore Street to the west and Henry Place to the north and east. Site 3 includes Nos. 36-41 Henry Street, Nos. 1-9 Moore Street and Nos. 3-13 Henry Place.

Site 3 lies within the O'Connell Street ACA.

The proposed development generally comprises a mixed-use scheme accommodating a hotel, residential units and associated amenities, cultural, retail and café / restaurant uses in 2no. blocks ranging in height from 1 – 9 storeys over existing and new single

storey basements. Provision of a new Passageway linking Henry Street with Henry Place / Moore Lane.

#### Site 4

Located in the west of 'the Masterplan' area, Site 4 is bounded by Moore Street to the west, Moore Lane to the east, Henry Place to the south and Site 5 to the north. Site 4 includes Nos. 10-13 and Nos. 18-21 Moore Street, Nos. 5-8 and Nos. 10-12 Moore Lane.

Site 4 excludes the site of the National Monument and its protection zone at Nos. 14-17 Moore Street (protected structures) and the open area to the rear at Nos. 8 & 9 Moore Lane.

The proposed development generally comprises a mixed-use scheme accommodating residential units and associated amenities, retail and café / restaurant uses, in two parts located north and south of the Nos. 14-17 Moore Street (National Monument / Protected Structures). Building height ranges from 1-3 storeys, including retained independent single storey basements. Provision of part of the proposed new public plaza and an archway onto the proposed new public plaza.

## Site 5

Located in the west of 'the Masterplan' area, Site 5 is bounded by Moore Street to the west, Moore Lane to the east, O'Rahilly Parade to the north and Site 4 to the south. Site 5 includes Nos. 22-25 Moore Street, Nos. 1-8 O'Rahilly Parade and Nos. 13-15 Moore Lane.

The proposed development generally comprises a mixed-use scheme accommodating office and café / restaurant uses in a single building ranging in height from 2 – 6 storeys (top floor set back) over new single storey localised basement. Provision of a part of the new public plaza.

# 3.2 Details of the Non-Hazardous Wastes to be produced

There will be waste materials generated from the demolition and renovation of the existing buildings, hardstanding areas on site, as well as from the further excavation of the building foundations. The volume of waste generated from demolition will be more difficult to segregate than waste generated from the construction phase, as many of the building materials will be bonded together or integrated i.e. plasterboard on timber ceiling joists, steel embedded in concrete etc.

There will be soil, stones, clay and made ground excavated to facilitate construction of new foundations, underground services, and the installation of the proposed basements. The project engineers (Waterman Group) have estimated 163,490m³ of material will need to be excavated to do so. There is limited chance for reuse of material onsite and it is envisaged that all material, will need to be removed offsite due to the limited opportunities for reuse on site. This will be taken for appropriate offsite reuse, recovery, recycling and/or disposal.

During the construction phase there may be a surplus of building materials, such as timber off-cuts, broken concrete blocks, cladding, plastics, metals and tiles generated.

There may also be excess concrete during construction which will need to be disposed of. Plastic and cardboard waste from packaging and supply of materials will also be generated. The contractor will be required to ensure that oversupply of materials is kept to a minimum and opportunities for reuse of suitable materials is maximised.

Waste will also be generated from construction workers e.g. organic/food waste, dry mixed recyclables (waste paper, newspaper, plastic bottles, packaging, aluminium cans, tins and Tetra Pak cartons), mixed non-recyclables and potentially sewage sludge from temporary welfare facilities provided on site during the construction phase. Waste printer/toner cartridges, waste electrical and electronic equipment (WEEE) and waste batteries may also be generated infrequently from site offices.

# 3.3 Potential Hazardous Wastes Arising

# 3.3.1 Contaminated Soil

In 2008 an initial joint geotechnical and environmental site investigation was undertaken (by O' Callaghan Moran & Associates) comprising the excavation of trial pits, the installation of boreholes in the subsoils and bedrock and the collection and testing of soil and groundwater samples. The intrusive investigations were confined to open areas in the middle of the site and around the site parameter. It is envisaged that further site investigations and environmental soil analysis will be undertaken post demolition and prior to any excavated material being removed from site.

Three (3) samples of the fill material from BH-7, 9 and 10 were analysed for Total Petroleum Hydrocarbons (TPH), BETX (benzene, toluene, ethylbenzene and xylene), PAH (polycyclic aromatic hydrocarbons) and metals (arsenic, barium, cadmium, chromium, copper, mercury, molybdenum, nickel, lead, tin, selenium and zinc).

Nineteen (19) samples, of the fill and natural ground from, BH-7, 9, 10, 12, 14, 15, RC-8 and W-2, were tested for the WAC, which included Total Organic Carbon (TOC), BETX, PCBs (polychlorinated biphenyls, 7 congeners), Mineral Oil (C10 to C40) and PAH sum of 17. They were also subjected to leach testing at a liquid to solid ratio of 10:1 and the leachate analysed for arsenic, barium, cadmium, chromium, copper, mercury, molybdenum, nickel, lead, tin, selenium, zinc, chloride, fluoride, sulphate, phenols, dissolved organic carbon and total dissolved solids.

If any potentially contaminated material is encountered, it will need to be segregated from clean/inert material, tested and classified as either non-hazardous or hazardous in accordance with the EPA publication entitled 'Waste Classification: List of Waste & Determining if Waste is Hazardous or Non-Hazardous' 12 using the HazWasteOnline application (or similar approved classification method). The material will then need to be classified as clean, inert, non-hazardous or hazardous in accordance with the EC Council Decision 2003/33/EC 13, which establishes the criteria for the acceptance of waste at landfills.

In the event that Asbestos containing materials (ACMs) are found, the removal will only be carried out by a suitably permitted waste contractor, in accordance with S.I. No. 386 of 2006 Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010. All asbestos will be taken to a suitably licensed or permitted facility.

In the event that hazardous soil, or historically deposited waste is encountered during the construction phase, the contractor will notify DCC and provide a Hazardous/Contaminated Soil Management Plan, to include estimated tonnages, description of location, any relevant mitigation, destination for disposal/treatment, in addition to information on the authorised waste collector(s).

# 3.3.2 Fuel/Oils

Fuels and oils are classed as hazardous materials; any on-site storage of fuel/oil, and all storage tanks and all draw-off points will be bunded and located in a dedicated, secure area of the site. Provided that these requirements are adhered to and the site crew are trained in the appropriate refuelling techniques, it is not expected that there will be any fuel/oil waste generated at the site.

# 3.3.3 Invasive Plant Species

An ecological site survey was undertaken by Scott Cawley Ecology (SCE) in June 2020. This included a site walkover survey of the entire site, and around part of the outside perimeter to search for any schedule 3 invasive species. Japanese Knotweed *Fallopia japonica*, which is listed on the Third Schedule of the Birds and Habitats Regulations, was not recorded on the site.

Japanese Knotweed (*Fallopia japonica*) is an alien invasive species listed under *schedule 3 of Regulations SI No. 355/2015*. SCE's report concludes that it is not present on this site and there was no indication that it is growing in the immediate vicinity.

## 3.3.4 Asbestos

Multiple asbestos refurbishment/demolition survey were undertaken by About Safety Ltd in September and October 2020. The scope of the survey's were confined to all accessible areas of the existing buildings which are due for demolition and/or refurbishment in the future. See Appendix A.

Asbestos Containing Materials (ACM) were detected in several locations within some of the buildings including but not limited to floor tiling, roof slates, roof felt, rope seals, bitumen and woven rope.

Removal of asbestos or ACMs will be carried out by a suitably qualified contractor and ACM's will only be removed from site by a suitably permitted/licenced waste contractor. in accordance with S.I. No. 386 of 2006 Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010. All material will be taken to a suitably licensed or permitted facility.

# 3.3.5 Other known Hazardous Substances

Paints, glues, adhesives and other known hazardous substances will be stored in designated areas. They will generally be present in small volumes only and associated waste volumes generated will be kept to a minimum. Wastes will be stored in appropriate receptacles pending collection by an authorised waste contractor.

In addition, WEEE (containing hazardous components), printer toner/cartridges, batteries (Lead, Ni-Cd or Mercury) and/or fluorescent tubes and other mercury containing waste

may be generated from during C&D activities or temporary site offices. These wastes, if generated, will be stored in appropriate receptacles in designated areas of the site pending collection by an authorised waste contractor.

# 3.4 Main Construction and Demolition Waste Categories

The main non-hazardous and hazardous waste streams that could be generated by the demolition and construction activities at a typical site are shown in Table 3.1. The List of Waste (LoW) code (as effected from 1 June 2015) (also referred to as the European Waste Code or EWC) for each waste stream is also shown.

**Table 3.1** Typical waste types generated and LoW codes (individual waste types may contain hazardous substances)

Waste Material	LoW/EWC Code
Concrete, bricks, tiles, ceramics	17 01 01-03 & 07
Wood, glass and plastic	17 02 01-03
Treated wood, glass, plastic, containing hazardous substances	17-02-04*
Bituminous mixtures, coal tar and tarred products	17 03 01*, 02 & 03*
Metals (including their alloys) and cable	17 04 01-11
Soil and stones	17 05 03* & 04
Gypsum-based construction material	17 08 01* & 02
Paper and cardboard	20 01 01
Mixed C&D waste	17 09 04
Green waste	20 02 01
Electrical and electronic components	20 01 35 & 36
Batteries and accumulators	20 01 33 & 34
Liquid fuels	13 07 01-10
Chemicals (solvents, pesticides, paints, adhesives, detergents etc.)	20 01 13, 19, 27-30
Insulation materials	17 06 04
Organic (food) waste	20 01 08
Mixed Municipal Waste	20 03 01

<sup>\*</sup> individual waste type may contain hazardous substances

# 4.0 WASTE MANAGEMENT

## 4.1 Demolition Waste Generation

The demolition stage will involve the demolition of multiple brick buildings onsite. The demolition areas are identified in the planning drawings provided with this application. The anticipated demolition waste and rates of reuse, recycling/recovery and disposal is shown in Table 4.1, 4.2, 4.3, 4.4 below

# <u>Masterplan</u>

**Table 4.1** Estimated off-site reuse, recycle and disposal rates for demolition waste from the Masterplan

Waste Type	T	Reuse		Recycle/Recovery		Disposal	
waste type	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes
·Glass	2027.9	0	0.0	85	1723.7	15	304.2
Concrete, Bricks, Tiles, Ceramics	11491.4	30	3447.4	65	7469.4	5	574.6
Plasterboard	901.3	30	270.4	60	540.8	10	90.1
Asphalts	225.3	0	0.0	25	56.3	75	169.0
e Metals	3379.8	5	169.0	80	2703.9	15	507.0
Slate	1802.6	0	0.0	85	1532.2	15	270.4
3 imber	2703.9	10	270.4	60	1622.3	30	811.2
Asbestos	7.0	0	0.0	0	0.0	100	7.0
a Total	22539.2		4157.2		15648.6		2733.4

<u>P</u>

Site 3

**Table 4.2** Estimated off-site reuse, recycle and disposal rates for demolition waste from Site 3.

Waste Type	Tannan	Reuse		Recycle/Recovery		Disposal	
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes
-Glass	361.8	0	0.0	85	307.6	15	54.3
Concrete, Bricks, Tiles, Ceramics	2050.5	30	615.1	65	1332.8	5	102.5
Plasterboard	160.8	30	48.2	60	96.5	10	16.1
Asphalts	40.2	0	0.0	25	10.1	75	30.2
Metals	603.1	5	30.2	80	482.5	15	90.5
Slate	321.6	0	0.0	85	273.4	15	48.2
Timber	482.5	10	48.2	60	289.5	30	144.7
Asbestos	1.0	0	0.0	0	0.0	100	1.0
Total	4021.5		741.8		2792.3		487.5

Site 4

**Table 4.3** Estimated off-site reuse, recycle and disposal rates for demolition waste from Site 4.

Mark Tona	T	Reuse		Recycle/Recovery		Disposal	
Waste Type	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes
·Glass	244.4	0	0.0	85	207.7	15	36.7
Concrete, Bricks, Tiles, Ceramics	1384.7	30	415.4	65	900.1	5	69.2
Plasterboard	108.6	30	32.6	60	65.2	10	10.9
Asphalts	27.2	0	0.0	25	6.8	75	20.4
Metals	407.3	5	20.4	80	325.8	15	61.1
Slate	217.2	0	0.0	85	184.6	15	32.6
Timber	325.8	10	32.6	60	195.5	30	97.7
Asbestos	1.0	0	0.0	0	0.0	100	1.0
Total	2716.1		500.9		1885.7		329.5

Site 5

**Table 4.4** Estimated off-site reuse, recycle and disposal rates for demolition waste from Site 5.

Waste Type	-	Reuse		Recycle/Recovery		Disposal	
	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes
·Glass	124.9	0	0.0	85	106.1	15	18.7
Concrete, Bricks, Tiles, Ceramics	707.6	30	212.3	65	459.9	5	35.4
Plasterboard	55.5	30	16.6	60	33.3	10	5.5
Asphalts	13.9	0	0.0	25	3.5	75	10.4
Metals	208.1	5	10.4	80	166.5	15	31.2
Slate	111.0	0	0.0	85	94.3	15	16.6
Timber	166.5	10	16.6	60	99.9	30	49.9
Asbestos	1.0	0	0.0	0	0.0	100	1.0
Total	1387.4		256.0		963.5		167.9

# 4.2 Construction Waste Generation

The below Table 4.5 shows the breakdown of C&D waste types produced on a typical site based on data from the EPA *National Waste Reports* <sup>14</sup> *and the joint EPA & GMIT study* <sup>15</sup>.

Table 4.5: Waste materials generated on a typical Irish construction site

Waste Types	%
Mixed C&D	33
Timber	28
Plasterboard	10
Metals	8
Concrete	6
Other	15
Total	100

The Tables 4.6, 4.7, 4.8 and 4.9 below show the estimated construction waste generation for the development masterplan and separate breakdowns for Site 3, 4 and 5 based on the gross floor area of construction and other information available to date, along with indicative targets for management of the waste streams. The estimated waste amounts for the main waste types (with the exception of soil, stone, made ground and clay) are based on an average large-scale development waste generation rate per m², using the waste breakdown rates shown in Table 4.5. These have been calculated from the schedule of development areas provided by the architect.

# Masterplan

Table 4.6: Predicted on and off-site reuse, recycle and disposal rates for construction waste

Waste Type	Tonnes	Reuse		Recy	/cle/Recovery	Disposal	
waste Type	Tornes	%	Tonnes	%	Tonnes	%	Tonnes
Mixed C&D	1631.9	10	163.2	80	1305.5	10	163.2
Timber	1384.6	40	553.9	55	761.5	5	69.2
Plasterboard	494.5	30	148.4	60	296.7	10	49.5
Metals	395.6	5	19.8	90	356.0	5	19.8
Concrete	296.7	30	89.0	65	192.9	5	14.8
Other	741.8	20	148.4	60	445.1	20	148.4
Total	4945.1	121	1122.5		3357.7		464.8

In addition to the information in Table 4.6, there will be c.163,490m³ of soil, stones, clay and made ground excavated to facilitate construction of new foundations, underground services, and the installation of the proposed basement. Any suitable excavated material will be temporarily stockpiled for reuse as fill, where possible, but reuse on site is expected to be limited and all of the excavated material is expected to be removed offsite for appropriate reuse, recovery and/or disposal.

# Site 3

Table 4.7: Predicted on and off-site reuse, recycle and disposal rates for construction waste

T	-	F	Reuse		/cle/Recovery	Disposal	
Waste Type	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes
Mixed C&D	308.4	10	30.8	80	246.7	10	30.8
Timber	261.7	40	104.7	55	143.9	5	13.1
Plasterboard	93.5	30	28.0	60	56.1	10	9.3
Metals	74.8	5	3.7	90	67.3	5	3.7
Concrete	56.1	30	16.8	65	36.5	5	2.8
Other	140.2	20	28.0	60	84.1	20	28.0
Total	934.7		212.2		634.6		87.9

In addition to the information in Table 4.7, there will be c.15,165m³ of soil, stones, clay and made ground excavated to facilitate construction of new foundations, underground services, and the installation of the proposed basement. Any suitable excavated material will be temporarily stockpiled for reuse as fill, where possible, but reuse on site is expected to be limited and all of the excavated material is expected to be removed offsite for appropriate reuse, recovery and/or disposal.

# Site 4

Table 4.8: Predicted on and off-site reuse, recycle and disposal rates for construction waste

	Tonnes	Reuse		Recycle/Recovery		Disposal	
Waste Type		%	Tonnes	%	Tonnes	%	Tonnes
Mixed C&D	62.3	10	6.2	80	49.9	10	6.2
Timber	52.9	40	21.2	55	29.1	5	2.6
Plasterboard	18.9	30	5.7	60	11.3	10	1.9
Metals	15.1	5	0.8	90	13.6	5	0.8
Concrete	11.3	30	3.4	65	7.4	5	0.6
Other	28.3	20	5.7	60	17.0	20	5.7
Total	188.9		42.9		128.2		17.8

In addition to the information in Table 4.8, there will be c.132m³ of soil, stones, clay and made ground excavated to facilitate construction of new foundations, underground services. Any suitable excavated material will be temporarily stockpiled for reuse as fill, where possible, but reuse on site is expected to be limited and all of the excavated material is expected to be removed offsite for appropriate reuse, recovery and/or disposal.

Site 5

Table 4.9: Predicted on and off-site reuse, recycle and disposal rates for construction waste

Waste Type	Tonnes	Reuse		Recycle/Recovery		Disposal	
vvaste rype	Tonnes	%	Tonnes	%	Tonnes	%	Tonnes
Mixed C&D	127.4	10	12.7	80	101.9	10	12.7
Timber	108.1	40	43.2	55	59.4	5	5.4
Plasterboard	38.6	30	11.6	60	23.2	10	3.9
Metals	30.9	5	1.5	90	27.8	5	1.5
Concrete	23.2	30	6.9	65	15.1	5	1.2
Other	57.9	20	11.6	60	34.7	20	11.6
Total	386.0		87.6		262.1		36.3

In addition to the information in Table 4.9, there will be c.5,593m³ of soil, stones, clay and made ground excavated to facilitate construction of new foundations, underground services. Any suitable excavated material will be temporarily stockpiled for reuse as fill, where possible, but reuse on site is expected to be limited and all of the excavated material is expected to be removed offsite for appropriate reuse, recovery and/or disposal.

It should be noted that until final materials and detailed construction methodologies have been confirmed, it is difficult to predict with a high level of accuracy the construction waste that will be generated from the proposed works as the exact materials and quantities may be subject to some degree of change and variation during the construction process.

# 4.3 Proposed Waste Management Options

Waste materials generated will be segregated on site, where it is practical. Where the on-site segregation of certain wastes types is not practical, off-site segregation will be carried out. There will be skips and receptacles provided to facilitate segregation at source where feasible. All waste receptacles leaving site will be covered or enclosed. The appointed waste contractor will collect and transfer the wastes as receptacles are filled. There are numerous waste contractors in the Dublin Region that provide this service.

All waste arising's will be handled by an approved waste contractor holding a current waste collection permit. All waste arising's requiring disposal off-site will be reused, recycled, recovered or disposed of at a facility holding the appropriate registration, permit or licence, as required.

During construction some of the sub-contractors on site will generate waste in relatively low quantities of waste. The transportation of non-hazardous waste by persons who are not directly involved with the waste business, at weights less than or equal to 2 tonnes, and in vehicles not designed for the carriage of waste, are exempt from the requirement to have a waste collection permit (Ref. Article 30 (1) (b) of the Waste Collection Permit Regulations 2007 as amended). Any sub-contractors engaged that do not generate more than 2 tonnes of waste at any one time can transport this waste offsite in their work vehicles (which are not design for the carriage of waste). However, they are required to ensure that the receiving facility has the appropriate COR / permit / licence.

Written records will be maintained by the contractor(s) detailing the waste arising throughout the C&D phases, the classification of each waste type, waste collection permits for all waste contactors who collect waste from the site and COR/permit or licence for the receiving waste facility for all waste removed off site for appropriate reuse, recycling, recovery and/or disposal

Dedicated bunded storage containers will be provided for hazardous wastes which may arise such as batteries, paints, oils, chemicals etc, if required.

The anticipated management of the main waste streams is outlined as follows:

# Soil, Stone, Gravel and Clay

The Waste Management Hierarchy states that the preferred option for waste management is prevention and minimisation of waste, followed by preparing for reuse and recycling/recovery, energy recovery (i.e. incineration) and, least favoured of all, disposal. The excavations are required to facilitate construction works so the preferred option (prevention and minimisation) cannot be accommodated for the excavation phase.

When material is removed off-site it could be reused as a by-product (and not as a waste), if this is done, it will be done in accordance with Article 27 of the *European Communities* (Waste Directive) Regulations 2011. Article 27 requires that certain conditions are met and that by-product notifications are made to the EPA via their online notification form. Excavated material should not be removed from site until approval from the EPA has been received.

The next option (beneficial reuse) may be appropriate for the excavated material pending environmental testing to classify the material as hazardous or non-hazardous in accordance with the EPA Waste Classification – List of Waste & Determining if Waste is Hazardous or Non-Hazardous publication. Clean inert material may be used as fill material in other construction projects or engineering fill for waste licensed sites. Beneficial reuse of surplus excavation material as engineering fill may be subject to further testing to determine if materials meet the specific engineering standards for their proposed end-use.

If the material is deemed to be a waste, then removal and reuse/recovery/disposal of the material will be carried out in accordance with the Waste Management Acts 1996 – 2011 as amended, the Waste Management (Collection Permit) Regulations 2007 as amended and the Waste Management (Facility Permit & Registration) Regulations 2007 as amended. Once all available beneficial reuse options have been exhausted, the options of recycling and recovery at waste permitted and licensed sites will be considered.

In the event that contaminated material is encountered and subsequently classified as hazardous, this material will be stored separately to any non-hazardous material. It will require off-site treatment at a suitable facility or disposal abroad via Transfrontier Shipment of Wastes (TFS).

# **Bedrock**

While it is not envisaged that bedrock will be encountered, if bedrock is encountered, it is anticipated that it will not be crushed on site. Any excavated rock is expected to be

removed offsite for appropriate reuse, recovery and/or disposal. If bedrock is to be crushed onsite the appropriate mobile waste facility permit will be obtained from DCC.

# Silt & Sludge

During the demolition and construction phase, silt and petrochemical interception should be carried out on runoff and pumped water from site works, where required. Sludge and silt will then be collected by a suitably licensed contractor and removed offsite.

# Concrete Blocks, Bricks, Tiles & Ceramics

The majority of concrete blocks, bricks, tiles and ceramics generated as part of the demolition and construction works are expected to be clean, inert material and should be recycled, where possible. If concrete is to be crushed onsite the appropriate mobile waste facility permit will be obtained from DCC.

#### Hard Plastic

As hard plastic is a highly recyclable material, much of the plastic generated will be primarily from material off-cuts. All recyclable plastic will be segregated and recycled, where possible.

# <u>Timber</u>

Timber that is uncontaminated, i.e. free from paints, preservatives, glues etc., will be disposed of in a separate skip and recycled off-site.

#### Metal

Metals will be segregated where practical and stored in skips. Metal is highly recyclable and there are numerous companies that will accept these materials.

# <u>Plasterboard</u>

There are currently a number of recycling services for plasterboard in Ireland. Plasterboard from the demolition and construction phases will be stored in a separate skip, pending collection for recycling. The site manager will ensure that oversupply of new plasterboard is carefully monitored to minimise waste.

## <u>Glass</u>

Glass materials will be segregated for recycling, where possible.

# Waste Electrical and Electronic Equipment (WEEE)

Any WEEE will be stored in dedicated covered cages/receptacles/pallets pending collection for recycling.

# Other Recyclables

Where any other recyclable wastes such as cardboard and soft plastic are generated, these will be segregated at source into dedicated skips and removed off-site.

# Non-Recyclable Waste

C&D waste which is not suitable for reuse or recovery, such as polystyrene, some plastics and some cardboards, will be placed in separate skips or other receptacles. Prior to removal from site, the non-recyclable waste skip/receptacle will be examined by a member of the waste team (see Section 7.0) to determine if recyclable materials have been placed in there by mistake. If this is the case, efforts will be made to determine the cause of the waste not being segregated correctly and recyclable waste will be removed and placed into the appropriate receptacle.

## **Asbestos Containing Materials**

Any asbestos or ACM found onsite should be removed by a suitably competent contractor and disposed of as asbestos waste before the demolition works begin. All asbestos removal work or encapsulation work must be carried out in accordance with S.I. No. 386 of 2006 Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010.

# Other Hazardous Wastes

On-site storage of any hazardous wastes produced (i.e. contaminated soil if encountered and/or waste fuels) will be kept to a minimum, with removal off-site organised on a regular basis. Storage of all hazardous wastes on-site will be undertaken so as to minimise exposure to on-site personnel and the public and to also minimise potential for environmental impacts. Hazardous wastes will be recovered, wherever possible, and failing this, disposed of appropriately.

# **Onsite Crushing**

It is currently not envisaged that the crushing of waste materials will occur onsite, however if the crushing of material is to be undertaken a mobile waste facility permit will first be obtained from DCC and the destination of the excepting waste facility will be supplied to the DCC waste unit.

# 4.4 Tracking and Documentation Procedures for Off-Site Waste

All waste will be documented prior to leaving the site. Waste will be weighed by the contractor, either by weighing mechanism on the truck or at the receiving facility. These waste records will be maintained on site by the nominated project Waste Manager (see Section 7.0).

All movement of waste and the use of waste contractors will be undertaken in accordance with the Waste Management Acts 1996 - 2011, Waste Management (Collection Permit) Regulations 2007 as amended and Waste Management (Facility Permit & Registration) Regulations 2007 and amended. This includes the requirement for all waste contractors to have a waste collection permit issued by the NWCPO. The nominated project waste manager (see Section 7.0) will maintain a copy of all waste collection permits on-site.

If the waste is being transported to another site, a copy of the Local Authority waste COR/permit or EPA Waste/IE Licence for that site will be provided to the nominated project waste manager (see Section 7.0). If the waste is being shipped abroad, a copy of the Transfrontier Shipping (TFS) notification document will be obtained from DCC (as the

relevant authority on behalf of all local authorities in Ireland) and kept on-site along with details of the final destination (COR, permits, licences etc.). A receipt from the final destination of the material will be kept as part of the on-site waste management records.

All information will be entered in a waste management recording system to be maintained on site.

#### 5.0 ESTIMATED COST OF WASTE MANAGEMENT

An outline of the costs associated with different aspects of waste management is outlined below. The total cost of C&D waste management will be measured and will take into account handling costs, storage costs, transportation costs, revenue from rebates and disposal costs.

# 5.1 Reuse

By reusing materials on site, there will be a reduction in the transport and recycle/recovery/disposal costs associated with the requirement for a waste contractor to take the material off-site.

Clean and inert soils, gravel, stones etc. which cannot be reused on site may be used as access roads or capping material for landfill sites etc. This material is often taken free of charge or a reduced fee for such purposes, reducing final waste disposal costs.

# 5.2 Recycling

Salvageable metals will earn a rebate which can be offset against the costs of collection and transportation of the skips.

Clean uncontaminated cardboard and certain hard plastics can also be recycled. Waste contractors will charge considerably less to take segregated wastes, such as recyclable waste, from a site than mixed waste.

Timber can be recycled as chipboard. Again, waste contractors will charge considerably less to take segregated wastes such as timber from a site than mixed waste.

# 5.3 Disposal

Landfill charges are currently at around €130 - €150 per tonne which includes a €75 per tonne landfill levy specified in the *Waste Management (Landfill Levy) Regulations 2015*. In addition to disposal costs, waste contractors will also charge a collection fee for skips.

Collection of segregated C&D waste usually costs less than municipal waste. Specific C&D waste contractors take the waste off-site to a licensed or permitted facility and, where possible, remove salvageable items from the waste stream before disposing of the remainder to landfill. Clean soil, rubble, etc. is also used as fill/capping material, wherever possible.

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#### 6.0 DEMOLITION PROCEDURES

The demolition stage will involve the demolition of multiple brick style buildings onsite. The demolition areas are identified in the planning drawings. A formal demolition plan including safety procedures will be prepared by the demolition contractor; however, in general, the following sequence of works should be followed during the demolition stage.

## Check for Hazards

Prior to commencing works, buildings and structures to be demolished will be checked for any likely hazards including asbestos, asbestos-containing Materials, electric power lines or cables, gas reticulation systems, telecommunications, unsafe structures and fire and explosion hazards, e.g. combustible dust, chemical hazards, oil, fuels and contamination.

# Removal of Components

All hazardous materials will be removed first. All components from within the buildings that can be salvaged will be removed next. This will primarily include metal however may also include timbers, doors, windows, wiring and metal ducting, etc.

# Removal of Roofing

Steel roof supports, beams etc. will be dismantled and taken away for recycling/salvage.

# Excavation of Services, Demolition of Walls and Concrete

Services will be removed from the ground and the breakdown of walls will be carried out once all salvageable or reusable materials have been taken from the buildings. Finally, any existing foundations and hard standing areas will be excavated.

# 7.0 TRAINING PROVISIONS

A member of the demolition and construction team will be appointed as the project waste manager to ensure commitment, operational efficiency and accountability during the C&D phases of the project.

# 7.1 Waste Manager Training and Responsibilities

The nominated waste manager will be given responsibility and authority to select a waste team if required, i.e. members of the site crew that will aid them in the organisation, operation and recording of the waste management system implemented on site. The waste manager will have overall responsibility to oversee, record and provide feedback to the client on everyday waste management at the site. Authority will be given to the waste manager to delegate responsibility to sub-contractors, where necessary, and to coordinate with suppliers, service providers and sub-contractors to prioritise waste prevention and material salvage.

The waste manager will be trained in how to set up and maintain a record keeping system, how to perform an audit and how to establish targets for waste management on site. The waste manager will also be trained in the best methods for segregation and

storage of recyclable materials, have information on the materials that can be reused on site and be knowledgeable in how to implement this C&D WMP.

# 7.2 Site Crew Training

Training of site crew is the responsibility of the waste manager and, as such, a waste training program should be organised. A basic awareness course will be held for all site crew to outline the C&D WMP and to detail the segregation of waste materials at source. This may be incorporated with other site training needs such as general site induction, health and safety awareness and manual handling.

This basic course will describe the materials to be segregated, the storage methods and the location of the Waste Storage Areas (WSAs). A sub-section on hazardous wastes will be incorporated into the training program and the particular dangers of each hazardous waste will be explained.

#### 8.0 RECORD KEEPING

Records should be kept for all waste material which leaves the site, either for reuse on another site, recycling or disposal. A recording system will be put in place to record the waste arising's on site.

A waste tracking log should be used to track each waste movement from the site. On exit from the site the waste collection vehicle driver should stop at the site office and sign out as a visitor and provide the security personnel or waste manager with a waste docket (or WTF for hazardous waste) for the waste load collected. At this time, the security personnel should complete and sign the Waste Tracking Register with the following information:

- Date
- Time
- Waste Contractor
- Company waste contractor appointed by e.g. Contractor or subcontractor name
- Collection Permit No.
- Vehicle Reg.
- Driver Name
- Docket No.
- Waste Type
- EWC/LoW

The waste vehicle will be checked by security personal or the site waste officer to ensure it has the waste collection permit no. displayed and a copy of the waste collection permit in the vehicle before they are allowed to remove the waste from the site.

The waste transfer dockets will be transferred to the site waste manager on a weekly basis and can be placed in the Waste Tracking Log file. This information will be forwarded onto the DCC Waste Regulation Unit when requested.

Alternatively, each subcontractor that has engaged their own waste contractor will be required to maintain a similar waste tracking log with the waste dockets/WTF maintained on file and available for inspection on site by the main contractor as required.

Waste receipts from the receiving waste facility will also be obtained by the site contractor(s) and retained.

A copy of the Waste Collection Permits, CORs, Waste Facility Permits and Waste Licences will be maintained on site at all times. Subcontractors who have engaged their own waste contractors, should provide the main contractor with a copy of the waste collection permits and COR/permit/licence for the receiving waste facilities and maintain a copy on file available for inspection on site as required.

# 9.0 OUTLINE WASTE AUDIT PROCEDURE

# 9.1 Responsibility for Waste Audit

The appointed waste manager will be responsible for conducting a waste audit at the site during the C&D phase of the development. Contact details for the nominated Waste Manager will be provided to the DCC Waste Regulation Unit after the main contractor is appointed and prior to any material being removed from site.

# 9.2 Review of Records and Identification of Corrective Actions

A review of all waste management costs and the records for the waste generated and transported off-site should be undertaken mid-way through the project.

If waste movements are not accounted for, the reasons for this should be established in order to see if and why the record keeping system has not been maintained. The waste records will be compared with the established recovery/reuse/recycling targets for the site. Each material type will be examined, in order to see where the largest percentage waste generation is occurring. The waste management methods for each material type will be reviewed in order to highlight how the targets can be achieved.

Upon completion of the C&D phase, a final report will be prepared, summarising the outcomes of waste management processes adopted and the total recycling/reuse/recovery figures for the development.

# 10.0 CONSULTATION WITH RELEVANT BODIES

# 10.1 Local Authority

Once demolition and construction contractors have been appointed, have appointed waste contractors and prior to removal of any C&D waste materials offsite, details of the proposed destination of each waste stream will be provided to the DCC Waste Regulation Unit.

DCC will also be consulted, as required, throughout the demolition, excavation and construction phases in order to ensure that all available waste reduction, reuse and recycling opportunities are identified and utilised and that compliant waste management practices are carried out.

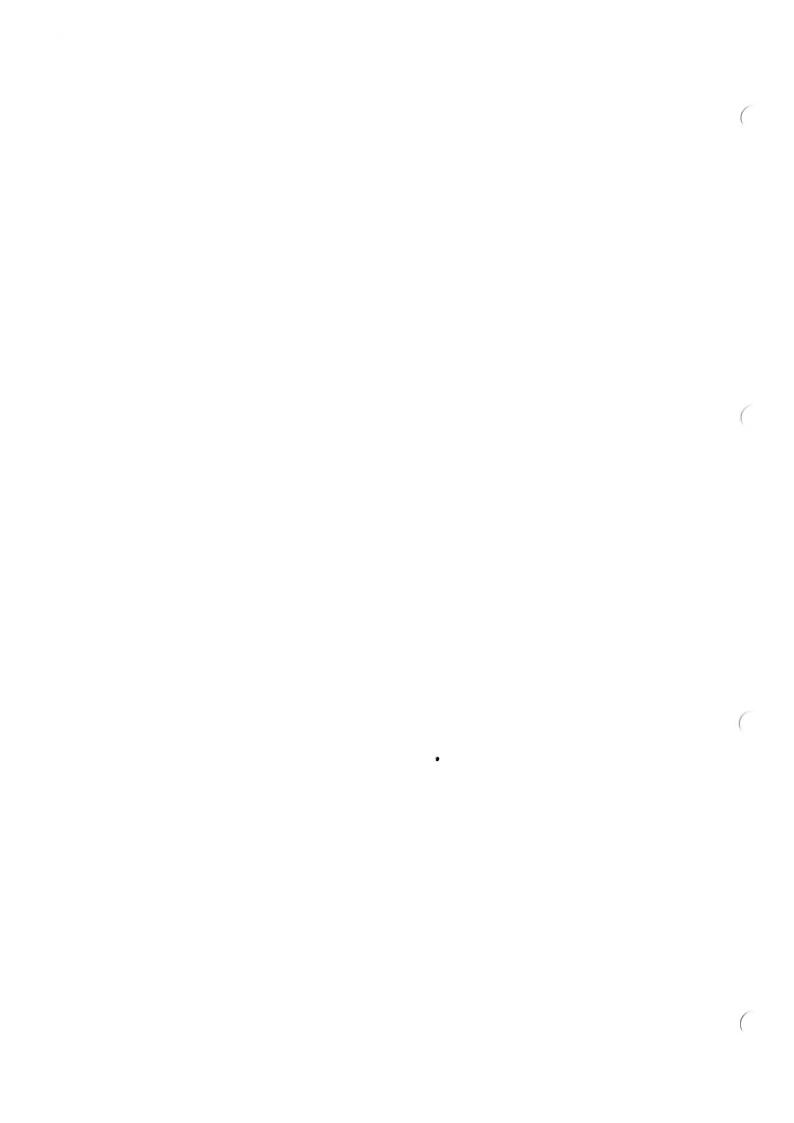
# 10.2 Recycling/Salvage Companies

The appointed waste contractor for the main waste streams managed by the demolition and construction contractors will be audited in order to ensure that relevant and up-to-date waste collection permits and facility registrations/permits/licences are held. In addition, information will be obtained regarding the feasibility of recycling each material, the costs of recycling/reclamation, the means by which the wastes will be collected and transported off-site, and the recycling/reclamation process each material will undergo off site.

#### 11.0 REFERENCES

- 1. Waste Management Act 1996 (No. 10 of 1996) as amended. Sub-ordinate and associated legislation includes:
  - European Communities (Waste Directive) Regulations 2011 (S.I. No. 126 of 2011) as amended.
  - Waste Management (Collection Permit) Regulations 2007 (S.I. No. 820 of 2007) as amended.
  - Waste Management (Facility Permit and Registration) Regulations 2007 (S.I No. 821 of 2007) as amended.
  - Waste Management (Licensing) Regulations 2000 (S.I No. 185 of 2000) as amended.
  - o European Union (Packaging) Regulations 2014 (S.I. No. 282 of 2014) as amended.
  - Waste Management (Planning) Regulations 1997 (S.I. No. 137 of 1997) as amended.
  - Waste Management (Landfill Levy) Regulations 2015 (S.I. No. 189 of 2015)
  - European Union (Waste Electrical and Electronic Equipment) Regulations 2014 (S.I. No. 149 of 2014)
  - European Union (Batteries and Accumulators) Regulations 2014 (S.I. No. 283 of 2014) as amended.
  - Waste Management (Food Waste) Regulations 2009 (S.I. No. 508 of 2009) as amended.
  - European Union (Household Food Waste and Bio-waste) Regulations 2015 (S.I. No. 430 of 2015)
  - Waste Management (Hazardous Waste) Regulations 1998 (S.I. No. 163 of 1998) as amended.
  - Waste Management (Shipments of Waste) Regulations 2007 (S.I. No. 419 of 2007) as amended.
  - The European Communities (Transfrontier Shipment of Hazardous Waste)
     Regulations 1988 (S.I. No. 248 of 1988)
  - European Communities (Shipments of Hazardous Waste exclusively within Ireland)
     Regulations 2011 (S.I. No. 324 of 2011)
  - European Union (Properties of Waste which Render it Hazardous) Regulations 2015
     (S.I. No. 233 of 2015) as amended
- 2. Protection of the Environment Act 2003, (No. 27 of 2003) as amended.
- 3. Litter Pollution Act 1997 (S.I. No. 12 of 1997) as amended
- 4. Eastern-Midlands Region Waste Management Plan 2015 2021 (2015).
- 5. Department of Environment and Local Government (DoELG) Waste Management Changing Our Ways, A Policy Statement (1998).
- 6. Forum for the Construction Industry Recycling of Construction and Demolition Waste.
- Department of Communications, Climate Action and Environment (DCCAE), Waste Action Plan for the Circular Economy - Ireland's National Waste Policy 2020-2025 (Sept 2020).
- 8. Department of Environment, Heritage and Local Government, Best Practice Guidelines on the Preparation of Waste Management Plans for Construction and Demolition Projects (2006).

- 9. FÁS and the Construction Industry Federation (CIF), Construction and Demolition Waste Management a handbook for Contractors and Site Managers (2002).
- 10. Dublin City Council (DCC), Dublin City Council Development Plan 2016-2022 (2016)
- 11. Planning and Development Act 2000 (S.I. No. 30 of 2000) as amended
- 12. EPA, Waste Classification List of Waste & Determining if Waste is Hazardous or Non-Hazardous (2015)
- 13. Council Decision 2003/33/EC, establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of and Annex II to Directive 1999/31/EC.
- 14. Environmental Protection Agency (EPA), *National Waste Database Reports* 1998 2012.
- 15. EPA and Galway-Mayo Institute of Technology (GMIT), EPA Research Report 146 A Review of Design and Construction Waste Management Practices in Selected Case Studies Lessons Learned (2015).



CB/20/11784WMR01 AWN Consulting

# **APPENDIX A**

Refurbishment & Demolition Asbestos Survey



# ABOUT SAFETY LTD.

## ASBESTOS | LEAD BASED PAINT | MOULD | SILICA DUST | HAZMAT SURVEYING & TESTING RISK MANAGEMENT | PROJECT MANAGEMENT

# Refurbishment & Demolition Asbestos Survey

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- Report 3 No. 8-9 Moore Street & 10-12 Moore Lane
- Report 5 No. 5-8 Henry Place
- Report 6 No. 6-8 Moore Lane
- Report 7 No. 37 Henry Street
- Report 8 No. 9 Henry Place
- Report 10 No. 13 Moore Lane
- Report 11 No. 13 Moore Street
- Report 16 No. 1 & 2 Moore Street
- Report 17 No. 3 Moore Street
- Report 18 No. 4 Moore Street
- Report 19 No. 5 Moore Street
- Report 20 No. 8 & 9 Moore Street & 11/13 Henry Place
- Report 21 No. 10-12 Moore Street
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- Report 24 No. 38 Henry Street
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- Report 28 No. 20-21 Moore Street
- Report 29 No. 36 Henry Street
- Report 31 No. 6 Moore Street
- Report 32 No. 7 Moore Street
- Report 33 No. 24-25 Moore Street & 14 Moore Lane
- Report 36 No. 17 Henry Place



# **ABOUT SAFETY LTD.**

ASBESTOS | LEAD BASED PAINT | MOULD | SILICA DUST | HAZMAT SURVEYING & TESTING RISK MANAGEMENT | PROJECT MANAGEMENT

# **Refurbishment & Demolition Asbestos Survey**

Location: 1

10 Henry Place

Dublin 1

Client:

**Dublin Central GP Ltd** 

**Instructing Party:** Certo Management Services

Survey Date: 29<sup>th</sup> September, 2020

Prepared by: John Kelleher, About Safety Ltd.

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above residential property which is to be demolished. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
	No visible asbestos containing materials identified.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to demolition.]				
1	The roofing felt on the main roof is presumed to contain asbestos. Inaccessible.				
7	Cast-iron lead sealed collars are presumed to contain asbestos woven rope packing.				
8	Integral areas of old electrical assemblies are presumed to contain asbestos.				

# Names and Addresses

Client Name:

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact: Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name: 10 Henry Place Dublin 1

Report Author:
About Safety Limited
24 Oceancrest
Arklow
Co. Wicklow

Contact: Jo

Phone:

John Kelleher 086 2208488

Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)
P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

### Scope of Works & Site Description

General Information	Scope of Works: Structural Details: Date of Construction:	
External Aspects:	Roofs:	Plywood sheeting internally
Internal Aspects:	Walls Ceilings Floors Insulation	Concrete Concrete on ground floor. Concrete floors n/a
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	Roof was not accessible

### **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

### Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

### Analytical Techniques

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

### Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

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#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### 10 Henry Place

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
		No samples required		

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations	Investigate prior to work likely to cause disturbance.			
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	Presumed asbestos until proven otherwise	NAD	NAD	NAD
Extent				
Material Description , surface treatment and condition	Roofing felts No access	Plastic rainwater ware.	Plasterboard to ceiling	Plasterboard to ceiling
Sample No.				
Location or Functional Space	Roof	Ground floor	Ground floor Front of premises	Ground floor Back of premises
Building or Area of Site	10 Henry Place	10 Henry Place	10 Henry Place	10 Henry Place
Ref No.	_	7	ю.	4

The second secon	Risk	Very Low	Low	Medium	High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survers and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim managemen	
	Material Assessment Score	<u>≤4</u>	9-9	7-9	≥ 10	No condition assessment is normally necessary for refurbishment and de and the event is significant, e.g. more than 3 months, then a material ass	arrangements put in place.
		Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	
	Key	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Aspestos cement	VF1 = VIII) 1600f tile NO = Not Omontifical/Omontificial	NQ = Not Quantitie Quantitie of Square Meters	LIM = Linear Meters

Photo				
Recommendations			Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	NAD	NAD	Presumed to contain asbestos woven rope packing	Presumed to contain asbestos
Extent				
Material Description , surface treatment and condition	Concrete under lino	Floors, walls and ceilings	Lead sealed cast-iron collars	Integral areas of old electrical equipment
Sample No.				
Location or Functional Space	Ground floor Back room	Ground floor WC	Ground floor back room	Stairway to 1st floor
Building or Area of Site	10 Henry Place	10 Henry Place	10 Henry Place	10 Henry Place
Ref No.	w	9	7	∞

Material Assessment Score Risk	≥4 Very Low	5 - 6 Low	7-9 Medium	≥ 10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	out in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area No condition	arrangement
Key	NAD = No asbestos detected	AIB = Aspestos insulation board	AC = Asbestos cement	NO - Not Ought flod (Oughtifichlo	SM = Square Meters	LM = Linear Meters

Photo	
Recommendations	
Material assessment score	
Asbestos type	
Surface treatment	
Condition	
Product type	
Asbestos identified (presumed, strongly presumed or identified)	NAD
Extent	
Material Description , surface treatment and condition	Plywood sheeting to inner roof
Sample No.	
Location or Functional Space	1st floor
Building or Area of Site	10 Henry Place
Ref No.	6

Confirmed Asbestos   Confirmed Asbestos   Risk
Material Assessment Score  ≤4  5-6  7-9  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between su and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim manager arrancements but in place.
Risk Very Low Low Medium High ent and demolition surveys but, where the period between su
3 5



## **ABOUT SAFETY LTD.**

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# **Refurbishment & Demolition Asbestos Survey**

Location:

8 – 9 Moore Street & 10 – 12 Moore Lane

[The Paris Bakery]

Dublin 1

**Client:** 

**Dublin Central GP Ltd** 

**Instructing Party:** Certo Management Services

**Survey Date:** 

29th and 30th September, 2020

Prepared by:

John Kelleher

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above residential property which is to be demolished. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
10	Asbestos cement downpipe in the ground floor back of bakery. Exits through ceiling.
14	Asbestos cement gutters identified to both sides of the back store room. 50 linear meters approximately.
15	Single skin asbestos cement corrugated roof sheeting under the steel cladding on the back store room. 130 square meters approximately.
16	Single skin asbestos cement corrugated roof sheeting on the two vents on the roof of the back store room.
32, 40, 43	Single skin asbestos cement corrugated roof sheeting, ridge tiles and flashings on gable end to the main roof of No. 12 Moore Lane. Miscellaneous debris on the kitchen floor underneath.
36	Asbestos containing brake shoes on the lift motor on the 4 <sup>th</sup> floor of No. 12 Moore Street.
37	Asbestos containing fire door on the 4th floor plantroom in No. 12 Moore Street.
31	Asbestos cement slates on the roofs of No. 20 and 21 Moore Street.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to demolition.]
3, 9	Integral areas of old electrical equipment and assemblies are presumed to contain asbestos.
7	Some areas of raised floors are presumed to contain asbestos and may be encountered during demolition works.
17	Inaccessible flat roofs are presumed to contain substrate roofing felts.
27	Integral areas of the old safe on the 2 <sup>nd</sup> floor are presumed to contain asbestos.
29, 30	The roofs of No's 19 and 20 are presumed to contain asbestos.
34	Integral areas of the old boiler and associated flanges are presumed to contain asbestos.

### Names and Addresses

Client Name:

**Dublin Central GP Ltd** 

**Instructing Party:** 

Certo Management Services

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

18- 19 Moore Street & 10 - 12 Moore Lane (Paris Bakery) Dublin 1 **Report Author:** 

**About Safety Limited** 

24 Oceancrest

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

### Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

### Scope of Works & Site Description

General Information	Scope of Works: Structural Details: Date of Construction:	Proposed demolition Four and two storey buildings of solid construction. Not known
External Aspects:	Roofs:	Mixture of flat and pitched roofs. Asbestos sheeting on main roof and under the steel cladding on the
Internal Aspects:	Walls Ceilings Floors Insulation	Solid concrete and block generally. Plasterboard Plasterboard and concrete Concrete generally N/A
Services:	Heating Systems:	Old boiler on 4 <sup>th</sup> floor
Reservations:	Access restrictions:	Roofs were not accessible.

### **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

### Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

### Analytical Techniques

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

### Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

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#### Appendix A - Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### Paris Bakery 12 Moore Lane Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID	
SÖ1	2027326	Ground floor back of shop	Downpipe	Chrysotile	
S02	2027327	2 <sup>nd</sup> floor WC	VFT	NADIS	
S03	2027328	2 <sup>nd</sup> floor WC	VFT adhesive	NADIS	
S04	2027329	3rd floor Lift car floor	VFT	NADIS	
S05	2027330	3rd floor Lift car floor	VFT adhesive	NADIS	
S06	2027331	3 <sup>rd</sup> floor lift motor	Brake shoes	Chrysotile	
S07	2027332	3 <sup>rd</sup> floor WC	VFT	NADIS NADIS	
S08	2027333	3 <sup>rd</sup> floor WC	VFT adhesive		
S09	2027334	3 <sup>rd</sup> floor canteen floor	VFT	NADIS	
S10	2027335	3 <sup>rd</sup> floor canteen floor	VFT adhesive	NADIS	
S11	2027336	3 <sup>rd</sup> floor roof	debris on floor	Crocidolite/chrysotile	

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B - Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
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Photo				
Recommendations			Dismantling and investigation by a competent contractor prior to work likely to cause disturbance.	
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Presumed asbestos	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	Modern felt overlay on plywood.	Plaster ceiling tiles in drop ceilings,	Integral of electrical panels	Concrete floor slab over drop ceilings
Sample No.				
Location or Functional Space	Back yard canopy	Back of premises	Back of premises. Electrical panels under stairway	Back of premises
Building or Area of Site	10-11 Moore Lane	10-11 Moore Lane	Lane	10-11 Moore Lane
Ref No.	-	7	е е	4

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7-9 Medium	:M > 10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between s and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim manage	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	(
	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VFT = vinyl floor file	NQ = Not Quantined/Quantinable SM = Square Meters	LM = Linear Meters

Photo				
Recommendations			investigation by a competent contractor prior to work likely to cause disturbance.	
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Presumed to contain asbestos in areas.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition		Drop ceiling with lay-in ceiling tiles.	Raised wooden floors original floors	
Sample No.				
Location or Functional Space	Back of premises WC	Back of shop. Former bakery	Front of premises	Front of premises
Building or Area of Site	10-11 Moore Lane	10-11 Moore Lane	10-11 Moore Lane	Lane
Ref.	w	9	7	<b>∞</b>

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	54	Very Low
AIB = Aspestos insulation board		5-6	Low
AC = Asbestos cement		9-7	Medium
NO - Not Operation (Operation)	Presumed/Strongly presumed ACM	>10	High
SM = Source Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between	and demolition surveys but, where the period between survey
I.M = Linear Meters		and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interin	ial assessment should be conducted and interim management
The Prince in contract of		arrangements put in place.	

Photo			5	
Recommendations	Dismantling and investigation by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.		
Material assessment score		60		
Aspestos type		_		
Surface treatment	E STATE OF THE	-		
Condition		0		
Product type		-		
Asbestos identified (presumed, strongly presumed or identified)	Presumed asbestos	Chrysotile	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent		ÖN		
Material Description , surface treatment and condition	Integral areas of electrical equipment	AC down pipe on side wall and exiting through ceiling		
Sample No.		2027326		
Location or Functional Space	Front of premises	Back of shop. Former bakery	1st floor Rooms and areas	1st floor Rooms and areas
Building or Area of Site	10-11 Moore Lane	Lane	10-11 Moore Lane	10-11 Moore Lane
Ref No.	6	10	11	12

Key NAD = No asbestos detected AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantifiad/Quantifiable SM = Square Meters LM = Linear Meters	Confirmed Asbestos Presumed/Strongly presumed ACM Or Non Accessed Area	Material Assessment Score  ≤4  S-6  Nedium  7-9  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between s and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim manage	Risk Very Low Low Medium High nt and demolition surveys but, where the period between surterial assessment should be conducted and interim managem
---	--	--	--

Photo				
Recommendations		Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.
Material assessment score		4	4	4
Asbestos type		-	_	_
Surface treatment		<del></del>	_	_
Condition		_	-	_
Product type			_	_
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	Chrysotile	Chrysotile	Chrysotile
Extent		S0 LM approx.	130 SM approx.	8 SM approx.
Material Description , surface treatment and condition	Plasterboard ceilings	AC gutter to each side of roof.	Single skin AC corrugated roof sheeting under outer metal cladding	AC sheeting to vents on roof
Sample No.				
Location or Functional Space	14 floor Rooms and areas	Narrow side building roof Roof	Narrow side building roof Roof	Narrow side building roof Roof
Building or Area of Site	10-11 Moore Lane	10-11 Moore Lane	10-11 Moore Lane	Lane
Ref No.	13	14	15	16

Confirmed Asbestos umed/Strongly presumed Or Non Accessed Area	
ACM No.	arri
Material Assessment Score  ≤4  S-6  T-9  Medium  ≥10  High  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveyand the event is significant or more than 3 months; then a material assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveyand the conducted and interim management	ingements put in place.
Risk Very Low Low Medium High High And demolition surveys but, where the period between surv	

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Photo				
Recommendations	Investigation by a competent contractor prior to work likely to cause disturbance.			
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	Presumed asbestos	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	Flat roof not accessible	Plasterboard to walls and ceilings.		
Sample No.				
Location or Functional Space	14 floor	14 floor Rooms and areas.	1st floor Back store room	4 storey Building 1st floor
Building or Area of Site	10-11 Moore Lane	Lane	10-11 Moore Lane	10-11 Moore Lane
Ref No.	17	81	19	20

Risk	Very Low	Low	Medium	High	o condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between of the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim managed.	
Material Assessment Score	> 4	9-9	7 - 9	> 10	No condition assessment is normally necessary for refurbishment and a and the event is significant, e.g. more than 3 months, then a material as	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	(
	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VFI = VIII)I IIOOF UIE NO = Not Ougansisod/Ougantisoble	SM = Square Meters	LM = Linear Meters

Photo				
Recommendations				
score				
Asbestos type Material assessment				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition		Drop ceiling with lay-in ceiling tiles.		
Sample No.				
Location or Functional Space	4 storey Building 1st floor	4 storey Building 1st floor	4 storey Building 1st floor	4 storey Building 2nd floor
Building or Area of Site	10-11 Moore Lane	Lane	10-11 Moore Lane	10-11 Moore Lane
Ref No.	21	22	23	24

ACM No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveys and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
Risk Very Low Low Medium High Pent and demolition surveys but, where the period between survaterial assessment should be conducted and interim manageme
2 5

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Photo	• 1	• 1		
Recommendations			Investigation by a competent contractor prior to work likely to cause disturbance.	
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Presumed to contain asbestos	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	VFT and adhesive	VFT and adhesive	Integral areas of old safe	
Sample No.	2027328			
Location or Functional Space	4 storey Building 2 <sup>nd</sup> floor WC 1	4 storey Building 2 <sup>nd</sup> floor WC 2	4 storey Building 2 <sup>nd</sup> floor	4 storey Building 2 <sup>nd</sup> floor
Building or Area of Site	10-11 Moore Lane	10-11 Moore Lane	10-11 Moore Lane	10-11 Moore Lane
Ref No.	25	26	27	28

Material Assessment Score    State
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Photo				
Recommendations	Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance
Material assessment score			4	4
Asbestos type			_	-
Surface treatment				-
Condition			-	
Product type			_	-
Asbestos identified (presumed, strongly presumed or identified)	Strongly presumed asbestos.	Strongly presumed asbestos.	Chrysotile	Presumed chrysotile
Extent				1 LM approx.
Material Description , surface treatment and condition	Barrel roof substrate felts.	Flat roof substrate felts.	AC slates to roofs.	Section of AC downpipe on corner
Sample No.				
Location or Functional Space	Roof No. 18 Moore Street Occupied	Roof No. 19 Moore Street Occupied	No. 20-21 Moore Street	4 storey Building 2 <sup>nd</sup> floor
Building or Area of Site	10-11 Moore Lane	10-11 Moore Lane	Lane	Lane
Ref No.	29	30	31	32

Risk	Very Low	Low	Medium	High	emolition surveys but, where the period between survey	sessment should be conducted and interim management	
Material Assessment Score	> >	5-6	7-9	> 10	o condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between	and the event is significant, e.g. more than 3 months, then a material assessn	rrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	CI	
Key	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VFI = Vinyl 1100F tille	SM = Square Meters	I M - I inon Matous	LW - Lilled Meters

Photo				
Recommendations		Dismantling and investigation by a competent contractor prior to work likely to cause disturbance.		Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance
Material assessment score				7
Asbestos type				
Surface treatment				0
Condition				0
Product type				-
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	Strongly presumed to contain asbestos gaskets	No visible asbestos containing materials identified.	Chrysotile
Extent				2 shoes
Material Description , surface treatment and condition	Recessed heaters	Integral areas of old boiler and flanges	VFT and adhesive	Brake shoes Intact
Sample No.			2027330 2027330	2027331
Location or Functional Space	4 storey Building 2 <sup>nd</sup> floor Open area	4 storey Building 3rd floor	4 storey Building 3 <sup>rd</sup> floor Lift Car	4 storey Building 3rd floor Lift plant
Building or Area of Site	10-11 Moore Lane	Lane	10-11 Moore Lane	Lane
Ref No.	33	34	35	36

Risk	Very Low	Low	Medium	High	I demolition surveys but, where the period between survey assessment should be conducted and interim management	(
Material Assessment Score	≥4	2-6	9 L	> 10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between s and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim manage	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	(
Key	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VF1 = VIII) Hoof the	SM = Square Meters	LM = Linear Meters

Photo				
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance			Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance
Material assessment score	v			4
Asbestos type	7			_
Surface treatment	-			
Condition	Φ.			- T
Product type	7			
Asbestos identified (presumed, strongly presumed or identified)	Amosite	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Crocidolite and chrysotile
Extent	1 door			400 SM approx
Material Description , surface treatment and condition	AIB internally in fire door.	VFT and adhesive	Concrete floor	AC single skin corrugated roof sheeting. ridge tiles and flashings
Sample No.	Previously sampled			2027336
Location or Functional Space	4 storey Building 3rd floor	4 storey Building 3 <sup>rd</sup> floor WC	4 storey Building 3rd floor WC	4 storey Building 3 <sup>rd</sup> floor Roof
Building or Area of Site	10-11 Moore Lane	10-11 Moore Lane	10-11 Moore Lane	10-11 Moore Lane
Ref No.	37	38	39	40

Key   NaD = No asbestos detected   Confirmed Asbestos   Confirmed Asbestos   Confirmed Asbestos career   AB = Asbestos career   AB = Asbestos career   Presumed/Strongly presumed ACM   Presumed/Strongly presumed ACM   No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveys and the period between surve				
Confirmed Asbestos Presumed/Strongly presumed ACM Or Non Accessed Area	Key		Material Assessment Score	Risk
Presumed/Strongly presumed ACM Or Non Accessed Area	NAD = No asbestos detected	Confirmed Asbestos	<u>&lt;4</u>	Very Low
Presumed/Strongly presumed ACM Or Non Accessed Area	AIB = Aspestos insulation board		5-6	Low
Presumed/Strongly presumed ACM Or Non Accessed Area	AC = Asbestos cement		7-9	Medium
Or Non Accessed Area	NO - Not Onantified/Opentification	Presumed/Strongly presumed ACM	≥10	High
and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and	SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and the event is significant, e.g. more than 3 months, then a mater	t and demolition surveys but, where the period between surverial assessment should be conducted and interim management
LM = Linear Meters	LM = Linear Meters		arrangements put in place.	

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Photo			
Recommendations			Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance
Material assessment score			50
Asbestos type			_
Surface treatment			-
Condition			7
Product type			_
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	NAD	Crocidolite and chrysofile
Extent			
Material Description , surface treatment and condition	Plasterboard to ceiling.	VFT and Evode	AC debris on floor
Sample No.		2027334 2027335	
Location or Functional Space	4 storey Building 3rd floor	4 storey Building 3 <sup>rd</sup> floor Kitchen	4 storey Building 3 <sup>rd</sup> floor Kitchen
Building or Area of Site	Lane	10-11 Moore Lane	10-11 Moore Lane
No.	14	42	43

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
Presumedistrongly presumed ACM Or Non Accessed Area



# **ABOUT SAFETY LTD.**

ASBESTOS | LEAD BASED PAINT | MOULD | SILICA DUST | HAZMAT SURVEYING & TESTING RISK MANAGEMENT | PROJECT MANAGEMENT

# **Refurbishment & Demolition Asbestos Survey**

Location:

5-8 Henry Place

Dublin

**Client:** 

**Dublin Central GP Ltd** 

**Instructing Party:** Certo Management Services

**Survey Date:** 

30th September 2020

Prepared by:

John Kelleher, About Safety Ltd.

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out for the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to works likely to cause disturbance]
1, 20	Single skin asbestos cement corrugated roof sheeting to main roofs. 500-550 square meters approximately.
2, 3	Asbestos cement flue pipe and cowl on external wall and asbestos cement downpipe over door in Henry Place. 6 linear meters approximately.
22	Asbestos containing thread nosing to steps thetween rooms. Two steps.

Ref:	Presumed/Strongly Presumed Asbestos & Non-Accessed Areas [Requires investigation by a competent contractor prior to works likely to cause disturbance]
3	Lead sealed cast-iron downpipes were known to contain asbestos woven rope packing and should be dismantled and investigated prior to work likely to cause disturbance.
7	The mezzanine floor No. 5 was occupied by residents and was not surveyed.
24	Asbestos containing woven rope string is strongly presumed in the northlight glazing bars. Northlights on all roofs.

### Names and Addresses

Client Name:

**Dublin Central GP Ltd** 

**Instructing Party:** 

Certo Management Services

Contact: Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name: 5-8 Henry Place Dublin

Report Author: **About Safety Limited** 24 Oceancrest Arklow Co. Wicklow

Contact:

John Kelleher 086 2208488 Phone:

Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM) P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

### Scope of Works & Site Description

General	Scope of Works:	Proposed demolition
Information	Date of Construction:	Not known
External	Roofs:	Single skin corrugated asbestos cement sheeting to roofs.
Aspects:	Other:	
Internal	Walls:	Solid concrete walls
Aspects:	Ceilings:	Man mineral fibre ceiling tiles in drop ceilings.
	Floors:	Concrete and timber flooring.
	Insulation:	n/a
Services:	M&E:	n/a
Reservations:	Access restrictions:	No access to external roofs.

### **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

### Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

### **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Guidelines on Working with Materials Containing Asbestos Cement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

# Appendix A – Asbestos Bulk Identification Report

### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### 6 Henry Place

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
Jkb20093001	2027401	Wall and ceiling boards	VFT	NADIS
Jkb20093002	2027402	Wall and ceiling boards	VFT ADHESIVE	NADIS
Jkb20093003	2027403	Roof sheeting	AC sheeting	Crocidolite/chrysotile
Jkb20093004	2027404	1 <sup>st</sup> floor stairway	Fire door linings	NADIS
Jkb20093005	2027405	1st floor store room at WC	Fire door linings	NADIS

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher



Appendix B - Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsaafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo					Risk	Very Low	Low	High	and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place,
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.		re			Cor refushickment and demolition	nonths, then a material assessment
Material assessment score	4	4	4		Material Assessment Score			40000	nan 3 n
ody1 so1sod2A	7		-		smen			Ille me	ore tl
эпэштвечт ээвглиг	1	_	_		sass	<b>4</b> ≥	5-6	> 10	99
Condition	==	-	-		ial A	П		44	cant,
Product type	_	-	-		ater	П		1	signif
Asbestos identified (presumed, strongly presumed or identified)	Chrysotile	Chrysotile	Chrysotile	NAD	M			No soundiffica our	and the event is significant, arrangements put in place.
Extent	500/550 SM approx.	3 LM approx.	3 LM approx.			SO SO		ned ACM	
Material Description , surface treatment and condition	Single skin AC sheeting to roof	Cement flue	Cement flue	Mineral fibre ceiling tiles in drop ceilings		Confirmed Asbestos		Presumed/Strongly presumed ACM Or Non Accessed Area	
Sample No.						0		Presumed	
Location or Functional Space	Building façade front	Building	Building exterior and various areas internally	Ground floor entrance corridor		tected	ion board		<b>Quantifiable</b>
Building	6 Henry Place	6 Henry Place	6 Henry Place	6 Henry Place		NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement VFT = vinyl floor tile	NQ = Not Quantified/Quantifiable SM = Square Meters M = Linear Meters
Ref No.	_	7	<b>6</b>	4	Key	NAD	AIB =	AC= VFT	= WS

Photo					Risk	Low	Medium	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveys and the according to surveys the condition of the c	Should be conducted and meetin management
Recommendations			Investigation by a competent contractor prior to work likely to cause disturbance.		ə			for refurbishment and demolition	ORUS, then a material assessment
Condition Surface freatment Asbestos type Material assessment score					As	2-6	7-9	ent is normally necessary	ncant, e.g. more man 5 m place.
Asbestos identified (presumed, strongly presumed or identified)	NAD	NAD	Presumed asbestos	NAD	Material			No condition assessm	and the event is significant arrangements put in place
Material Description , surface treatment and condition	Mineral fibre ceiling tiles in drop ceilings	Concrete floor	No access at the time of survey. Residents in mezzanine floor	Metal ducting pipe	Confirmed Ashestos		MOA Secondary of CM	Or Non Accessed Area	
Location or Sample Functional No.	Ground floor	Ground floor	Ground floor stairway	Ground floor	scted	irea			
Ref Building	6 Henry Place	6 Henry Place	6 Henry Place	6 Henry Place	Key NAD = No asbestos detected	NAA = Non Accessed Area	AIB = Asbestos insulation board   AC = Asbestos cement	VFT = vinyl floor tile NQ = Not Quantified/Quantifiable	SM = Square Meters LM = Linear Meters

(

Building Functions   No.   Perception   Material   Advances   Material   Ma										A. 41	
6 Henry Place 1 <sup>14</sup> floor condition  6 Henry Place 1 <sup>14</sup> floor 1 <sup>14</sup> floor condition  6 Henry Place 1 <sup>14</sup> floor throughout through	Photo		23.00			Risk	Very Low	Low	Medium	High surveys but, where the period between survey hould be conducted and interim managemen	
6 Henry Place 1" floor condition throughout throughout through presumed Asbestos insulation board Sample Sample Sample Sample Sample Space Sericion Space 1" floor condition condition throughout throughout throughout throughout throughout throughout throughout throughout space 1" floor corridor confirmed Asbestos insulation board C = Asbestos insulation board C = Asbestos cament C = Asbestos insulation board C = Asbestos insulation board C = Asbestos cament C = Asbestos cament C = Asbestos insulation board C = Asbestos cament C = Asbestos insulation board C = Asbestos C = Asbestos insulation board C = Asbestos insulation board C = Asbestos insulation board C = Asbestos C = Asbestos C = A	Recommendations									or refurbishment and demolition s iths, then a material assessment sl	
6 Henry Place 1 <sup>14</sup> floor condition  6 Henry Place 1 <sup>14</sup> floor 1 <sup>14</sup> floor condition  6 Henry Place 1 <sup>14</sup> floor throughout through						Score				sary fo	
6 Henry Place 1" floor condition throughout throughout through presumed Asbestos insulation board Sample Sample Sample Sample Sample Space Sericion Space 1" floor condition condition throughout throughout throughout throughout throughout throughout throughout throughout space 1" floor corridor confirmed Asbestos insulation board C = Asbestos insulation board C = Asbestos cament C = Asbestos insulation board C = Asbestos insulation board C = Asbestos cament C = Asbestos cament C = Asbestos insulation board C = Asbestos cament C = Asbestos insulation board C = Asbestos C = Asbestos insulation board C = Asbestos insulation board C = Asbestos insulation board C = Asbestos C = Asbestos C = A						ent				r nece	
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6 Henry Place 1" floor condition throughout throughout through presumed Asbestos insulation board Sample Sample Sample Sample Sample Space Sericion Space 1" floor condition condition throughout throughout throughout throughout throughout throughout throughout throughout space 1" floor corridor confirmed Asbestos insulation board C = Asbestos insulation board C = Asbestos cament C = Asbestos insulation board C = Asbestos insulation board C = Asbestos cament C = Asbestos cament C = Asbestos insulation board C = Asbestos cament C = Asbestos insulation board C = Asbestos C = Asbestos insulation board C = Asbestos insulation board C = Asbestos insulation board C = Asbestos C = Asbestos C = A						l Ass	ľ	9	-	is no	ce.
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6 Henry Place I* floor corridor corrido	Asbestos identified (presumed, strongly presumed or identified)	NAD	NAD	NAD	NAD	Ma				No condition asses and the event is sig	arrangements put
building Functional Space  Space  Space  6 Henry Place 1" floor  corridor  corridor  corridor  6 Henry Place 1" floor  corridor  corridor  1 floor  6 Henry Place 1" floor  Corridor  Corr	Extent						56		NO T	ea ACM	
building Functional Space  Space  Space  6 Henry Place 1" floor  corridor  corridor  corridor  6 Henry Place 1" floor  corridor  corridor  1 floor  6 Henry Place 1" floor  Corridor  Corr	Material Description , surface treatment and condition		Timber floor throughout	VFT and Adhesive to ceiling	VFT sheeting to back of WC		onfirmed Asbesto		(Ctucus)	Non Accessed Ar	(
6 Henry Place 7 = Asbestos cement 6 = Asbestos cement 7 = Asbestos cement 6 = Asbestos cement 7 = Asbestos cement 6 = Asbestos cement 7 = Asbestos cement 8 = Asbestos cement 9 = Asbestos cement 10 = Asbestos cement 10 = Asbestos cement 11 = Asbestos cement 12 = Asbestos cement 13 = Asbestos cement 14 = Asbestos cement 15 = Asbestos cement 16 = Asbestos cement 17 = Asbestos cement 18 = Asbestos cement 19 = Asbestos cement 10 = Asbestos cement 11 = Asbestos cement 12 = Asbestos cement 13 = Asbestos cement 14 = Asbestos cement 15 = Asbestos cement 16 = Asbestos cement 17 = Asbestos cement 18 = Asbestos cement 18 = Asbestos cement 19 = Asbestos cement 19 = Asbestos cement 10 = Asbestos cement 11 = Asbestos cement 12 = Asbestos cement 13 = Asbestos cement 14 = Asbestos cement 15 = Asbestos cement 16 = Asbestos cement 17 = Asbestos cement 18 = Asbestos ceme	Sample No.			2027401			Ŭ		Durant	or Or	
Ref Building  No.  6 Henry Place 7 Henry Place 6 Henry Place 7 Henry Place 6 Henry Place 8 Henry Place 7 Henry Place 8 Henry Place 6 Henry Place 7 Henry Place 8 Henry Place 8 Henry Place 9 Henry Place 8 Henry Place 9 Henry Place 8 Henry Place 9 Henry Pla	Location or Functional Space	1st floor	corridor	1st floor corridor	1 <sup>st</sup> floor		scted	rea on board	on poar a	uantifiable	
10   10   10   10   10   10   10   10	Bailding	6 Henry Place	6 Henry Place	6 Henry Place	6 Henry Place		No asbestos dete	= Non Accessed A Ashestos insulation	Aspestos cement	vinyl floor tile Not Quantified/Q	Linear Meters
	Ref No.	6				Key	NAD	NAA =	AC = 7	VFT = NO = 1	N.

						H	F		rvey	nent
Photo					Risk	Very Low	Low	Medium	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
Recommendations									r refurbishment and demolition	ths, <u>then a material assessment s</u>
Material assessment score					Material Assessment Score	N. W. W. W. W.			essary for	an 3 mon
Asbestos type					ment				Пу пес	ore tha
Surface treatment					ssess	V 4	5-6	6 4	> 10	e.g. m
Condition					ial A				ent is 1	icant, place.
Product type					Jater				sessme	signif out in
Asbestos identified (presumed, strongly presumed or identified)	NAD	NAD	NAD	NAD					No condition as	and the event is significant arrangements put in place
Extent						5			ed ACM	
Material Description , surface treatment and condition	14 floor store at end of corridor		Plasterboard to ceilings	VFT and adhesive debris from 3nd floor loft		Confirmed Asbestos			Presumed/Strongly presumed ACM Or Non Accessed Area	
Sample No.	2027404			2027402		Co			Presumed.	
Location or Functional Space	1st floor	14 floor freezer unit	celling	1st floor		ected	rea	on board	vantifiable	
Building	6 Henry Place	6 Henry Place	6 Henry Place	6 Henry Place		NAD = No asbestos detected	NAA = Non Accessed Area	AIB = Asbestos insulation board	AC - Assessos cement VFT = vinyl floor tile NO = Not Ouantified/Ouantifiable	SM = Square Meters LM = Linear Meters
No.	13	41	15	16	Key	NAD =	NAA =	AIB =	VFT = NO = N	SM = (

Photo					Risk
Recommendations				Removal and disposal by a competent contractor.	a
Material assessment score					Material Assessment Score
Asbestos type					smen
Surface treatment					\sses
Condition					rial /
Product type					Mate
Asbestos identified (presumed, strongly presumed or identified)	NAD	NAD	NAD	Chrysofile	
Extent					
Material Description , surface treatment and condition	•	Fire door lining.		Corrugated roof sheeting	
Sample No.		2027405		2027403	Ţ,
Location or Functional Space	1st floor office	Stairway	1st floor store	14 floor back store roofs	potos
Building	6 Henry Place	6 Henry Place	6 Henry Place	6 Henry Place	Key NAD - No ochoctor defected
Ref No.	17	18	19	20	Key

Material Assessment Score	lestos < 4	9-9	7-9	Presumed/Strongly presumed ACM > 10	Or Non Accessed Area No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between s	and the event is significant, e.g. more than 3 months, then a material ass	arrangements put in place.	
				ICM	No conditi	and the ev	arrangem	

Recommendations		ractor.		rks likely to ce.	Risk	Very Low	Medium	High	and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
Asbestos type Material assessment score		Removal and disposal by a competent contractor.		Further inspection is required prior to any works likely to cause disturbance.	Assessment Score				necessary for refurbishing than 3 months, <u>then a ma</u>
Product type Condition Surface treatment					Material Assessm	5.6	7 9	> 10	is significant, e.g. more
Asbestos identified (presumed, strongly presumed or identified)	NAD	Chrysotile	NAD	Presumed to contain asbestos woven rope beading				100	and the event is significant arrangements put in place.
Extent		2 LM approx.		All roofs		2		ned ACM	
Material Description , surface treatment and condition	Timber floors throughout	Thread	VFTand Adhesive to backs of sheeting on floor	Georgian wire rooflights vertical bars	Confirmation Achaetee	omirmed Aspesic		Presumed/Strongly presumed ACM Or Non Accessed Area	
Sample No.					٢	3		Presumed	
Location or Functional Space	14 floor rear store/ office	1st floor back room	Attic hatch	Attic hatch	ecteri	rea	ion board		) Lantifiable
Building	6 Henry Place	6 Henry Place	6 Henry Place	6 Henry Place	Key NAD = No ashestos detected	NAA = Non Accessed Area	AIB = Asbestos insulation board	AC = Asbestos cement VFT = vinyl floor tile	NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters
Ref No.	21	22	23	24	Key	NAA :	AIB =	AC = VFT =	NO = SM = LM =

•		



## **ABOUT SAFETY LTD.**

ASBESTOS | LEAD BASED PAINT | MOULD | SILICA DUST | HAZMAT SURVEYING & TESTING RISK MANAGEMENT | PROJECT MANAGEMENT

# **Refurbishment & Demolition Asbestos Survey**

Location:

6-8 Moore Lane

Dublin

Client:

Dublin Central GP Ltd

Instructing Party: Certo Management Services

**Survey Date:** 

30th September 2020

Prepared by:

John Kelleher, About Safety Ltd.

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## **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out for the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos
	[Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to works likely to cause disturbance]
3	Asbestos containing vinyl floor tile and adhesive to the back entrance area. 40 square meters approximately.
11	Asbestos containing vinyl floor tile and adhesive in the 1st floor back room. 25 square meters approximately.

Ref:	Presumed/Strongly Presumed Asbestos & Non-Accessed Areas [Requires investigation by a competent contractor prior to works likely to cause disturbance]
1	Lead sealed cast iron downpipes are presumed to contain asbestos packing. Further inspection by a competent contractor is required prior to disturbance.
2	The roofs were not accessible during the inspect1on and are presumed to contain asbestos slates until proven otherwise.
9	Integral areas of old electrical equipment in the basement are presumed to contain asbestos until proven otherwise.
15	Man made repair slates identified in the natural quarry slated roof. Roofs not accessible.

#### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name: 6-8 Moore Lane

Dublin

Report Author:
About Safety Limited
24 Oceancrest
Arklow

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

# Scope of Works & Site Description

General	Scope of Works:	Proposed demolition.
Information	Date of Construction:	Not known
External	Roofs:	Slate to main pitched roof s
Aspects:	Other:	
Internal	Walls:	Original stone walls. Plasterboard studded partitions.
Aspects:	Ceilings:	Plasterboard and hardboard
	Floors:	Concrete and original timber floorboards
	Insulation:	n/a
Services:	M&E:	n/a
D	Access restrictions:	Roofs were not accessible
Reservations:	Access restrictions:	Roots were not accessible

### Survey Limitations

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

### Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

Product Type

- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

### Analytical Techniques

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

## Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or

employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Guidelines on Working with Materials Containing Asbestos Cement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## Appendix A – Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### 6-8 Moore Lane Dublin

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
Jkb20093021	2027421	Ground floor room at door - 42 SM	VFT	Chrysotile
Jkb20093022	2027422	Ground floor room at door	VFT adhesive	Chrysotile
Jkb20093023	2027423	Basement ceiling	Paint	NADIS
Jkb20093024	2027424	1st floor - 25 SM	VFT	Chrysotile
Jkb20093025	2027425	1 <sup>st</sup> floor	VFT adhesive	Chrysotile

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@eircom.net
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations	Further inspection is required by a competent contractor prior to any disturbance.	Further inspection is required by a competent contractor prior to any disturbance.	Removal and disposal as asbestos wase by a competent contractor prior to work likely to cause disturbance.	
Material assessment score			7	
Aspestos type			_	
Surface treatment	STANSANTA		•	
Condition			0	
Product type				
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos woven rope packing	Strongly Presumed asbestos	Chrysotile	No visible asbestos containing materials identified.
Extent			40 SM approx.	
Material Description , surface treatment and condition	Lead sealed cast iron downpipes	Slates to main roof and rear pitches	VFT/ Adhesive over concrete	Hardboard to ceilings
Sample No.			2027422	
Location or Functional Space	Moore Lane	Roofs No access	Ground floor	Ground floor shop floor
Building	6-8 Moore Lane	6-8 Moore Lane	6-8 Moore Lane	6-8 Moore Lane
Ref No.	1	7	ю	4

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	< 4	Very Low
NAA = Non Accessed Area		5-6	Low
AIB = Asbestos insulation board		6-L	Medium
AC = Asbestos cement	Presumed/Strongly presumed ACM	> 10	High
VF1 = vinyl iloor tile NQ = Not Quantified/Quantifiable	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim manage	at and demolition surveys but, where the period between surverial assessment should be conducted and interim manageme
SM = Square Meters	(	arrangements put in place.	

deformation to		-	ı			Т			A =	
Photo		N 10			Risk	Very Low	Low	Medium	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	
Recommendations									or refurbishment and demolition su	
Material assessment score					Material Assessment Score				essary fe	
Asbestos type					ment				lly nec	
Surface treatment					ssess	<b>4</b> × 4	9-5	7 - 9	ormal	
Condition					ial A				ent is n	lace.
Product type					later				sessme signifi	ut in 1
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	N				No condition ass and the event is	arrangements put in place
Extent						S		M A CM	ea	
Material Description , surface treatment and condition	Ceramic files over concrete floor tiles	Electrical panel	Plasterboard .	Original stone stairway		Confirmed Asbestos		Strongly procum	Or Non Accessed Area	
Sample No.						Co		Drocmmod/	Orl	
Location or Functional Space	Ground floor toilet	Ground floor	Ground floor fire break	Basement stairway		ected	rea	on board	uantifiable	
Building	6-8 Moore Lane	6-8 Moore Lane	6-8 Moore Lane	6-8 Moore Lane		NAD = No asbestos detected	NAA = Non Accessed Area	AIB = ASDESTOS INSUIATION DOARD AC = Asbestos cement	VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Senare Motore	SM = Square Meters LM = Linear Meters
No.	w	9	1	<b>∞</b>	Key	NAD	YAA	AIB = AC = ,	VFT.	I W

Photo	II PER LA		=		Risk Very Low
Recommendations	Investigation by a competent contractor prior to work likely to cause disturbance.		Removal and disposal by a competent contractor.		
Material assessment score			2		Material Assessment Score
Asbestos type			_		ment
Surface treatment			•		ssess <4
Condition			0		al A
Product type	DATE ALL DE		_		ateri
Asbestos identified (presumed, strongly presumed or identified)	Presumed asbestos.	NAD	Chrysotile	No visible asbestos containing materials identified.	M
Extent			approx.		so
Material Description , surface treatment and condition	Integral areas of old electrical plant in corner	Ceiling paint	VFT/ adhesive		Confirmed Asbestos
Sample No.		2027423	2027425 2027425		3
Location or Functional Space	Basement	Basement	14 floor back room RHS	1" floor back storeroom	ected
Building	6-8 Moore Lane	6-8 Moore Lane	6-8 Moore	6-8 Moore Lane	Key NAD = No asbestos detected NAA = Non Accessed Area
Ref No.	6	10	11	12	Key NAD

Photo		THIRTY. N
Recommendations		
SCOTE		
Asbestos type Material assessment		
Surface treatment		
Condition		
Product type		
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent		
Material Description , surface treatment and condition		
Sample No.		
Location or Functional Space	storeroom	14 floor back room LHS
Building	6-8 Moore Lane	6-8 Moore Lane
Ref No.	13	41

Confirmed Asbestos	7-9	Presumed/Strongly presumed ACM ≥ 10	Or Non Accessed Area  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	arrangements put in place.
Key NAD = No asbestos detected NAA = Non Accessed Area	AIB = Asbestos insulation board	AC = Aspestos cement  VET = vinyl floor tile	NQ = Not Quantified/Quantifiable	





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# **Refurbishment & Demolition Asbestos Survey**

**Location:** 37 Henry Street

Dublin

Client: Dublin Central GP Ltd

**Instructing Party:** Certo Management Services

Survey Date: 30th September 2020

Prepared by: John Kelleher, About Safety Ltd.

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## **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out for the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to works likely to cause disturbance]
28	Asbestos containing thread nosings to front stairway. 22 steps.
36	Asbestos containing insulation board sheeting to the back of the wall mounted electrical heater on the 1 <sup>st</sup> floor front building. Unsealed. 1 square meter approximately.
37	Asbestos containing textured paint used to patch areas of the walls in the 1st floor front room.
40	Asbestos containing black Bakelite cistern in the WC on the 2 <sup>nd</sup> floor.

Ref:	Presumed/Strongly Presumed Asbestos & Non-Accessed Areas [Requires investigation by a competent contractor prior to works likely to caus disturbance]	
19	Exterior lead sealed downpipes are presumed to contain asbestos packing. Further inspection is required by a competent contractor prior to any disturbance.	
17, 20	Integral areas of safes were known to contain asbestos and should be investigated by a competent contractor prior to disposal.	
13, 33, 44	The flat roofs of the building are presumed to contain substrate roofing felts. 4 flat roof areas.	

### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name: 37 Henry Street

Dublin

Report Author:
About Safety Limited
24 Oceancrest
Arklow

Arklow Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)
P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

# Scope of Works & Site Description

General	Scope of Works:	Proposed structural alterations, refurbishment and demolition.
Information	Date of Construction:	Not known
External	Roofs:	Flat roofs
Aspects:	Extensions:	Flat roofs.
	Other:	
Internal	Walls:	Original walls with floating plasterboard studded partitions on the
Aspects:	Ceilings:	ground floor shop area.  Floating ceiling in the shop area under the original ceiling.
	Floors:	Concrete floors generally
	Insulation:	
Services:	M&E:	
Reservations:	Access restrictions:	Roofs were not accessed.

## Survey Limitations

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

### Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

## Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

Product Type

- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## Analytical Techniques

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

## Specific Notes

## Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or

employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Guidelines on Working with Materials Containing Asbestos Cement".

### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## Appendix A - Asbestos Bulk Identification Report

### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

### 37 Henry Street Dublin 1

### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
Jkb20093006	2027406	Electrical cupboard	VFT and Evode	NADIS
Jkb20093007	2027407	Ground floor back corridor	VFT and Evode	NADIS
Jkb20093008	2027408	Ground floor back room	VFT and Evode	NADIS
Jkb20093009	2027409	Ground floor stairway lobby	VFT and Evode	NADIS
Jkb20093010	2027410	Ground floor back stairway	VFT and Evode	NADIS
Jkb20093011	2027411	1st floor	VFT and Evode	NADIS
Jkb20093012	2027412	1st floor kitchen	VFT and Evode	NADIS
Jkb20093013	2027413	Basement ceiling	Paint over nap finish	NADIS
Jkb20093014	2027414	Front stairway	VFT and Evode	NADIS
Jkb20093015	2027415	Front stairway 22 threads	Black thread nosing	Chrysotile
Jkb20093016	2027416	Front stairway behind plasterboard	Wall paint	NADIS
Jkb20093017	2027417	1st floor front room	VFT and Evode	NADIS
Jkb20093018	2027418	1st floor front room	Wall paint	NADIS
Jkb20093019	2027419	1st floor front room miscellaneous wall areas	Textured repair paint	Chrysotile
Jkb20093020	2027420	1st floor room - old radiator backing	Insulation board	Amosite

### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo					Risk	Very Low	Low
Recommendations							
Material assessment					Material Assessment Score		
Asbestos type					nent		
Surface treatment					Sessi	4	5-6
Condition							
Product type					ateri		
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	M		
Extent						SO	
Material Description , surface treatment and condition	Lino over ceramic tiles and concrete	VFT under carpet	VFT under carpet	Concrete Roor		Confirmed Asbestos	
Sample No.		2027406	2027407			٥	
Location or Functional Space	Ground floor shop floor	Ground floor rear staff area	Ground floor rear staff area	Ground floor ladies' toilet		ected	\rea
Building	37 Henry Street	37 Henry Street	37 Henry Street	37 Henry Street		NAD = No asbestos defected	= Non Accessed A
Ref No.	1	7	rs es	4	Key	NAD	NAA

Risk	Very Low	Low	Medium	High	to condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	Terral assessment should be conducted and intermit management
Material Assessment Score	≤4	9-9	7.9	> 10	No condition assessment is normally necessary for refurbishme	and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and arrangements put in place,
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	
	NAD = No asbestos defected	NAA = Non Accessed Area	AIB = Asbestos insulation board	AC = Aspestos cement	VF1 = VIII)1 IIOO1 VIIIC NQ = Not Quantified/Quantifiable	SM = Square Meters  M = Linear Meters

	METERS ISSUED & NO.									111
Photo					Risk	Very Low	Low	High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	
Recommendations									r refurbishment and demolition hs, then a material assessment s	
Material assessment score					core				sary for	
Asbestos type					Material Assessment Score				y neces	
Surface treatment					sessn	7	2-6	> 10	g. mo	
Condition					al As				nt is ne cant, e	ace.
Product type					ateri				essmer rignific	ıt in p
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	M				No condition ass and the event is	arrangements put in place.
Extent						Si		ned ACM	ea.	_
Material Description , surface treatment and condition	Plasterboard ceiling tiles	Concrete floor	VFT/ Adhesive	Electric radiators		Confirmed Asbestos		Presumed/Strongly presumed ACM	Or Non Accessed Area	
Sample No.			2027408			රී		Presumed/	Orl	
Location or Functional Space	Ground floor ladies' toilet	Ground floor gents' toilet	Ground floor rear corridor	Ground floor storeroom		ecred	ion board		uantifiable	
Building	37 Henry Street	37 Henry Street	37 Henry Street	37 Henry Street		NAD = No asbestos defected NAA = Non Accessed Area	AIB = Asbestos insulation board	AC = Asbestos cement	VF1 - Vinyi moof the NQ = Not Quantified/Quantifiable SM - Square Moores	SM = Square Meters LM = Linear Meters
Ref No.	v	•	7	∞	Key	NAD	AIB =	AC =		= [W] -

Photo				
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	Fire door	VFT and adhesive lobby and stairway	Fiberglass to lead sealed downpipe	Thread
Sample No.		2027410		
Location or Functional Space	Ground floor back stairway lobby	Ground floor back stairway lobby	Ground floor back stairway lobby ctoset	Ground floor back stairway
Building	37 Henry Street	37 Henry Street	37 Henry Street	37 Henry Street
Ref No.	6	10	11	12

Material Assessment Score	Confirmed Asbestos	5-6	7-9	y presumed ACM ≥ 10	Or Non Accessed Area No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	and the event is significant, e.g. more than 3 months, then a material assessment should be cone	arrangements put in place.
	Confirmed			Presumed/Strongly presumed ACM	Or Non Acc		

		t	+	_			-	
Photo	Risk	Vone I one	very Low	Low	Medium	High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	ould be conducted and interim management
Recommendations Investigate further prior to work likely to cause disturbance.	a.						for refurbishment and demolition su	onths, then a material assessment sho
Material assessment score	Assessment Score		ŀ				cessary	an 3 m
Asbestos type	smen						ally ne	nore th
Surface treatment	Asses	A 4	1 4	9-6	6-7	> 10	norm	. e.g. n
Product type Condition							nent is	ificant place
Asbestos identified (presumed, strongly presumed or identified)  No visible asbestos containing materials identified.  No visible asbestos containing materials identified.	Material						No condition assess	and the event is significant arrangements put in place
Extent		S		Ī		ed ACM	ea	
Material Description , surface treatment and condition  Substate roofing felt Flasterboard ceiling under concrete concrete		Confirmed Asbestos				Presumed/Strongly presumed ACM	Or Non Accessed Area	
Sample No.		°C			;	Presumed/	ō	
Location or Functional Space  14 floor Canteen  canteen  14 floor  canteen  14 floor  canteen	,	scted	rea	on board	7 1000		uantifiable	
Building 37 Henry Street 37 Henry Street 37 Henry Street		NAD = No asbestos detected	NAA = Non Accessed Area	AIB = Asbestos insulation board	AC = Ashestos cement	AC = Asbestos cement VET = vinyl floor tile	NO = Not Quantified/Quantifiable	SM = Square Meters LM = Linear Meters
15 14 15 No. 15 15 15 15 15 15 15 15 15 15 15 15 15	Key	NAD	NAA:	AIB =	A C	VET	10N	SM = LM =

Photo				
Recommendations	Investigate further prior to work likely to cause disturbance.		Investigate further prior to work likely to cause disturbance.	Investigate further prior to work likely to cause disturbance.
Material assessment score				
Asbestos type				
<b>Surface treatment</b>				
Condition				
Product type			US Property	
Asbestos identified (presumed, strongly presumed or identified)	Presumed asbestos	No visible asbestos containing materials identified.	Presumed to contain asbestos woven rope packing	Presumed asbestos
Extent				
Material Description , surface treatment and condition	Integral areas of old safe	VFT/ Adhesive	Lead sealed downpipe	Integral areas of old safe
Sample No.				
Location or Functional Space	14 floor office	1st floor store area	1" floor store area	Basement under stairway
Building	37 Henry Street	37 Henry Street	37 Henry Street	37 Henry Street
Ref No.	17	81	61	20

ment Score Risk	Very Low	Low	Medium	High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	
Material Assessment Score	> 4	5-6	6-7	> 10	No condition assessment is norma and the event is significant, e.g. m	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	(
	NAD = No asbestos detected	NAA = Non Accessed Area	AIB = Asbestos insulation board	AC = Asbestos cement	VFT = vinyl floor the NQ = Not Quantified/Quantifiable	SM = Square Meters M = Linear Meters

dations Photo					Risk Very Low	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey are even in alone than 3 months, then a material assessment should be conducted and interim management
Condition Surface treatment Asbestos type Material assessment score score					Material Assessment Score	7-9 is normally necessary for refurbishment and, e.g. more than 3 months, then a materia
Asbestos identified Cresumed, strongly presumed or identified)	No visible asbestos containing materials identified.	Materia				
Material Description Sample , surface No. treatment and condition	2027413 Paint over nap finish			Ceiling paint	Confirmed Asbestos	Presumed/Strongly presumed ACM Or Non Accessed Area
Location or Functional Space	Basement Storage areas	Basement Storage areas	Basement Storage areas	Basement Storage areas	octed	on board uantifiable
Building	37 Henry Street	37 Henry Street	37 Henry Street	37 Henry Street	Key NAD = No asbestos detected NAA = Non Accessed Area	AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters
Ref No.	21	22	23	24	Key NAD	AIB = AC = VFT :: NQ = SM =

Photo					
Recommendations				Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	
Material assessment score				7	7
Asbestos type				1	ı
Surface treatment				•	ı
Condition				0	
Product type				-	
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Chrysotile	
Extent				approx.	
Material Description , surface treatment and condition			VFT and adhesive	Black Thread nosings. Good condition.	
Sample No.			2027414	2027415	
Location or Functional Space	Basement Redundant stairway	Basement former stairway	Ground floor front stairway	Ground floor front stairway	
Building	37 Henry Street	37 Henry Street	37 Henry Street	37 Henry Street	
Ref No.	25	26	27	28	į

Confirmed Asbestos Presumed/Strongly presumed ACM Or Non Accessed Area	Material Assessment Score	1 Asbestos	5-6	7 - 9	y presumed ACM		and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interin	arrangements put in place,
--	---------------------------	------------	-----	-------	----------------	--	---	----------------------------

the Brieflett House							_	_	10.000
Photo					Risk	Very Low	Low	Medium	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
Recommendations									refurbishment and demolitions, then a material assessmen
Asbestos type Material assessment score					Material Assessment Score				lly necessary for a ore than 3 month
Surface treatment					ssessi	<b>4</b> × 1	5 6	> 10	ormal e.g. m
Condition					ial A				ent is n icant,
Product type					<u>fater</u>			ľ	sessme signifi ut in p
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	2				No condition assessment is and the event is significant arrangements put in place.			
Extent						SI	ĺ	ned ACM	ea.
Material Description , surface treatment and condition			Wall paint	Electric radiator		Confirmed Asbestos		Strongly presun	Or Non Accessed Area
Sample No.			2027416			ට		Presumed/	Or J
Location or Functional Space	1" floor back room	14 floor back room	1st floor back room	1st floor back room		ected	on board		uantifiable
Building	37 Henry Street	37 Henry Street	37 Henry Street	37 Henry Street		NAD = No asbestos detected NAA = Non Accessed Area	AIB = Aspestos insulation board	AC = Asbestos cement	VF i = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters
Ref No.	29	30	31	32	Key	A V	AIB	AC = ,	NO = SM = NO

Photo				
Recommendations	Investigate further prior to work likely to cause disturbance.			Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.
Material assessment score				7
Asbestos type				м
Surface treatment				7
Condition				-
Product type				7
Asbestos identified (presumed, strongly presumed or identified)	Presumed	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Amosite
Extent				1 SM approx
Material Description , surface treatment and condition	Roof felt	VFT and adhesive under, carpet	VFT and adhesive	Radiator heaf pad
Sample No.		2027417		2027420
Location or Functional Space	1st floor back room	14 floor front room	1st floor front room storage area	1" floor front room storage area
Building	37 Henry Street	37 Henry Street	37 Henry Street	37 Henry Street
Ref No.	33	34	35	36

Key NAD = No asbestos detected NAA = Non Accessed Area AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantifiad/Quantifiable SM = Square Meters	Material Assessment Score  ≤4  S - 6  Nety Low  7 - 9  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.	Risk Very Low Low Medium High and demolition surveys but, where the period between survial assessment should be conducted and interim manageme	
--	--	--	--

	THE PARTY OF THE P								
Photo					Risk	Very Low	Medium	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.			Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	ə			for refurbishment and demolition su	onths, then a material assessment sho
Material assessment score	2			4	Material Assessment Score			essarv	an 3 m
Asbestos type	_			6	ment			IIv nec	ore th
Surface treatment	•			-	ssess	5-6	6-1	> 10	e.g. m
Condition	0			•	al A			nt is n	cant,
Product type	-			-	ateri			essme	signifi rt in p
Asbestos identified (presumed, strongly presumed or identified)	Chrysotile	No visible asbestos containing materials identified.	No visible asbestos containing materials identified,	Amosite	M			No condition ass	and the event is significant arrangements put in place
Extent	Ŏ <sub>N</sub>					20		ned ACM rea	
Material Description , surface treatment and condition	Textured paint to miscellaneou s areas of walls	Ceramic tiles	•	Black Bakelite toilet cistern	Confirmed Achoetos	min med Asbest		Presumed/Strongly presumed ACM Or Non Accessed Area	
Sample No.	2027419					5		Presumed Or	
Location or Functional Space	14 floor front room	Stairway to 2 <sup>nd</sup> floor	2nd floor front room	2nd floor toilet	ected	rea	ion board		иаптивие
Building	37 Henry Street	37 Henry Street	37 Henry Street	37 Henry Street	Key NAD = No ashestos detected	NAA = Non Accessed Area	AIB = Asbestos insulation board	VFT = vinyl floor tile	NQ = Not Quantined/Quantinable SM = Square Meters LM = Linear Meters
Ref No.	37	38	39	40	Key	NAA	AIB =	AC =	SW I

Photo				
Recommendations				Investigate further prior to work likely to cause disturbance.
Material assessment score				
Asbestos type				
Surface treatment				
Condition				BESTAFARTS
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Presumed to contain asbestos.
Extent				
Material Description , surface treatment and condition				Roof felts
Sample No.				
Location or Functional Space	2nd floor toilet	3 <sup>rd</sup> floor stairway	3 <sup>rd</sup> floor front room	Building rear
Building	37 Henry Street	37 Henry Street	37 Henry Street	37 Henry Street
Ref No.	41	24	£4	44

Risk	Very Low	Low	Medium	High	and demolition surveys but, where the period between survey ial assessment should be conducted and interim management	
Material Assessment Score	≥4	9-6	7 - 9	> 10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	
Key	NAD = No asbestos detected	NAA = Non Accessed Area	AIB = Asbestos insulation board	AC = Asbestos cement	VF I = Vinyt thoor the NQ = Not Quantified/Quantifiable	SM = Square Meters M = Linear Meters



## **ABOUT SAFETY LTD.**

ASBESTOS | LEAD BASED PAINT | MOULD | SILICA DUST | HAZMAT SURVEYING & TESTING RISK MANAGEMENT | PROJECT MANAGEMENT

## **Refurbishment & Demolition Asbestos Survey**

Location:

9 Henry Place

Dublin

**Client:** 

**Dublin Central GP Ltd** 

**Instructing Party:** Certo Management Services

**Survey Date:** 

2<sup>nd</sup> October, 2020

Prepared by:

John Kelleher, About Safety Ltd.

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## **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out for the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to works likely to cause disturbance]
10	Asbestos containing woven rope gaskets identified to the rear inspection plates on the boiler in the basement.
14, 15, 17, 23	Asbestos containing vinyl floor tiles and adhesive identified throughout the 1st floor ad in the WC's on the 2nd floor. 300 Square meters approximately.

Ref:	Presumed/Strongly Presumed Asbestos & Non-Accessed Areas [Requires investigation by a competent contractor prior to works likely to cause disturbance]
1	The external roofs were not accessible and are presumed to contain asbestos roofing felts.
4	Some rooms were not accessible during the survey.
6, 8, 11, 16	Integral areas of fire doors are presumed to contain asbestos.
9	Integral areas of the old boiler are strongly presumed to contain asbestos. Industry standard at the time of manufacture.
12	Pipework flange gaskets in the boiler room are presumed to contain asbestos. Industry standard at the time of manufacture.
21	Man made slates visible internally in repaired areas of the roof are presumed to contain asbestos.

### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact: Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name: 9 Henry Place Dublin Report Author:
About Safety Limited
24 Oceancrest
Arklow
Co. Wicklow

Contact: John Kelleher Phone: 086 2208488

Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

## Objectives

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

## Scope of Works & Site Description

General	Scope of Works:	Proposed demolition
Information	Date of Construction:	Not known
External Aspects:	Roofs: Extensions:	Slates on main roof. Appears to be covered with felt externally.  Single storey flat roof extensions
	tesp Elethon separat	
Internal	Walls:	Solid concrete and block walls
Aspects:	Ceilings:	Concrete slab
	Floors:	Concrete throughout generally.
	Insulation:	n/a
Services:	M&E:	n/a
Reservations:	Access restrictions:	Roofs were not accessible.

## **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

### Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

## Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

Product Type

- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

## **Specific Notes**

## Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or

employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Guidelines on Working with Materials Containing Asbestos Cement".

### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## Appendix A - Asbestos Bulk Identification Report

### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

### 9 Henry Place Dublin 1

### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
S01	2027601	Basement boiler room, boiler	Woven rope gasket	chrysotile
S02	2027602	1st floor all areas	Common VFT	Chrysotile
S03	2027603	1st floor all areas	Common VFT adhesive	Chrysotile
S04	2027604	2 <sup>nd</sup> floor	sink pad	NADIS

### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B – Schedule of Survey Sheets

About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations	Investigation by a competent contractor prior to work likely to cause disturbance.			Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos felts.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Presumed to contain asbestos
Extent				
Material Description , surface treatment and condition	Pitched and flat roofs Not accessible	Concrete ceiling slab	Heaters	Inaccessible during the survey
Sample No.				
Location or Functional Space	Building front façade	Ground floor store	Ground floor store	Basement room
Building	9 Henry Place	9 Henry Place	9 Henry Place	9 Henry Place
Ref No.	1	7	en en	4

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SERVICE LINEAR SERVICES						
Photo					Risk Very Low	Nedium  7 - 9  Nedium  7 - 9  High No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management
Recommendations		Investigation by a competent contractor prior to work likely to cause disturbance.		Investigation by a competent contractor prior to work likely to cause disturbance.	a	for refurbishment and demolition su
Material assessment score					Material Assessment Score	ecessary han 3 mc
Asbestos type					sme	ally n
Surface treatment					\ssess	5-6 7-9 ≥10 norma e.g. m
Condition					√ lai	ent is
Product type					later	essme
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	Presumed to contain asbestos	No visible asbestos containing materials identified.	Presumed to contain asbestos	M	No condition assessment is and the event is significant
Extent					80	ned ACM
Material Description , surface treatment and condition		Old fire door	Hardboard fire break	Old fire door	Confirmed Asbestos	Presumed/Strongly presumed ACM Or Non Accessed Area
Sample No.					ေ	Presumed/ Or l
Location or Functional Space	Basement	Basement	Basement	Basement	xted	on board uantifiable
Building	9 Henry Place	9 Henry Place	9 Henry Place	9 Henry Place	Key NAD = No asbestos detected NAA = Non Accessed Area	AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters
No.	w	9	7	<b>∞</b>	Key NAD =	AC = 4  AC = 4  VFT =  NQ = 7  SM = 8

Photo				
Recommendations	Investigation by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score		9		
Asbestos type		<b>-</b>		
Surface treatment		2		
Condition		-		
Product type		~		
Asbestos identified (presumed, strongly presumed or identified)	Strongly Presumed to contain asbestos internally	Chrysotile	Presumed to contain asbestos	Presumed to contain asbestos
Extent		1 LM approx.		
Material Description , surface treatment and condition	Integral areas of old boiler	Woven rope gaskets to back plates of boiler	Old fire door	Pipework flange gaskets
Sample No.		2027601		
Location or Functional Space	Basement boiler room	Basement boiler room	Basement	Basement pipework
Building	9 Henry Place	9 Henry Place	9 Henry Place	9 Henry Place
Ref No.	6	10	11	12

		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	54	Very Low
NAA = Non Accessed Area		5-6	Low
AIB = Asbestos insulation board		7 - 9	Medium
AC = Asbestos cement	Presumed/Strongly presumed ACM	> 10	High
VFI = vinyl floor file NQ = Not Quantified/Quantifiable	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	and demolition surveys but, where the period between surveral assessment should be conducted and interim managemen
SM = Square Meters	(	arrangements put in place.	

	THE STATE OF THE S					
Photo					Risk Very Low	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	a.	for refurbishment and demolition su onths, then a material assessment she
Material assessment score	7	7		7	Material Assessment Score ≤4 5-6	sessary
Asbestos type	_	н		_	meni	lly ne
Surface treatment		0		0	ssess <4 5-6	7-9 > 10
Condition	0	•		•	al A	nt is r
Product type	-	_		_	ateri	essme ignifi
Asbestos identified (presumed, strongly presumed or identified)	Chrysotile	Chrysotile	Presumed to contain asbestos	Chrysotile	M	No condition assessment is and the event is significant, arrangements put in place.
Extent	280sm ap <b>prox.</b>				SO	ned ACM
Material Description , surface treatment and condition	Common VFT and adhesive. Intact	Common VFT and adhesive Intact	Integral areas of fire door	Common VFT and adhesive	Confirmed Asbestos	Presumed/Strongly presumed ACM Or Non Accessed Area
Sample No.	2027603 2027603				Ö	Presumed
Location or Functional Space	1st floor	1st floor office	1st floor	1st floor toilets	ected	ion board uantifiable
Building	9 Henry Place	9 Henry Place	9 Henry Place	9 Henry Place	Key NAD = No asbestos detected NAA = Non Accessed Area	AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters
Ref No.	14	115	16	17	Key NAD =	AIB = AC = . VFT = NQ = . SM = . LM = .

Photo				
Recommendations			Investigation by a competent contractor prior to work likely to cause disturbance.	
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	NAD	NAD	Presumed chrysotile	NAD
Extent				
Material Description , surface treatment and condition	Concrete floor throughout	Galvanized metal sheeting	Replacement asbestos slates to back roof	Sink pad
Sample No.				2027604
Location or Functional Space	2 <sup>nd</sup> floor	2nd floor	2nd floor roof	2 <sup>nd</sup> floor Kitchen
Building	9 Henry Place	9 Henry Place	9 Henry Place	9 Henry Place
Ref. No.	61	20	21	22

Key NAD = No asbestos detected NAA = Non Accessed Area AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantifiable SM = Square Meters NA = Non and the arrang	Material Assessment Score  ≤4
---	-------------------------------

Photo	
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.
Material assessment score	7
Asbestos type	-
Surface treatment	0
Product type Condition	0
	-
Asbestos identified (presumed, strongly presumed or identified)	Chrysotile
Extent	8sm approx.
Material Description , surface treatment and condition	Common VFT and adhesive
Sample No.	
Location or Functional Space	2nd floor toilets
Building	9 Henry Place 2ººº floor toilets
Ref No.	23

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7-9 Medium	≥10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	rrangements put in place.
Confirmed Asbestos Presumed/Strongly presumed ACM Or Non Accessed Area						
Key NAD = No asbestos detected NAA = Non Accessed Area AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters						





## **ABOUT SAFETY LTD.**

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# **Refurbishment & Demolition Asbestos Survey**

Location: Basement Car Park Only

13 Moore Lane

Dublin

Client: Dublin Central GP Ltd

**Instructing Party:** Certo Management Services

Survey Date: 30<sup>th</sup> September 2020

Prepared by: Lauren Kelleher

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out for the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to works likely to cause disturbance]
	No asbestos detected.

Ref:	Presumed/Strongly Presumed Asbestos & Non-Accessed Areas [Requires investigation by a competent contractor prior to works likely to cause disturbance]
1	Asbestos containing roofing felt presumed on the flat roofs of the building.
4, 7	Lead sealed cast iron downpipes to the rear and storage areas of the building are presumed to contain asbestos packing.
5, 6, 9	Private lockup areas were not accessible at the time of the survey.

### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name: 13 Moore Lane

Dublin

Report Author:
About Safety Limited
24 Oceancrest
Arklow
Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

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P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

# **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

# Scope of Works & Site Description

General	Scope of Works:	Proposed demolition
Information	Date of Construction:	Not known
External Aspects:	Roofs: Extensions: Other:	n/a
Internal Aspects:	Walls: Ceilings: Floors: Insulation:	Solid concrete solid concrete Concrete floors
Services:	M&E:	
Reservations:	Access restrictions:	Overhead premises were occupied and not accessed at the time of the survey.

## **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

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Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

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# Specific Notes

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employer working with or removing asbestos.

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It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

# Appendix A - Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### 13 Moore Lane Dublin

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
		No samples taken.		

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo	WIO OV			
Recommendations	Further inspection is required prior to any works likely to cause disturbance.			Further inspection is required prior to any works likely to cause disturbance.
Material assessment score	The separate services			
Asbestos Appe				
Surface treatment				
Condition				T-24-332-24-332
Product type				
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Presumed to contain asbestos
Extent				
Material Description , surface treatment and condition	Felt			Lead sealed cast iron pipework
Sample No.				
Location or Functional Space	Building flat roof	Rear loading bay ramp	Rear loading bay	Rear loading
Building	13 More Lane	13 Moore Lane	13 Moore Lane	13 Moore Lane
Ref No.	_	7	6	4

		Material Assessment Score	Risk	
NAD = No asbestos detected	Confirmed Asbestos	54	Very Low	
NAA = Non Accessed Area		5-6	Low	
AIB = Asbestos insulation board		7-9	Medium	_
AC = Asbestos cement	Presumed/Strongly presumed ACM	> 10	High	_
NQ = Not Quantified/Quantifiable	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period bet and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim r	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	
SM = Square Meters M = Linear Meters	(	arrangements put in place.		_

			0	The state of the s					rvey
Photo				CHOOS AND MINISTER OF THE PARTY	Risk	Very Low	Low	Medium High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
Recommendations	Further inspection is required prior to any works likely to cause disturbance.	Further inspection is required prior to any works likely to cause disturbance.	Further inspection is required prior to any works likely to cause disturbance.						farbishment and demolition sur then a material assessment sho
Material assessment score	Furd prior distu	Furd prior distu	Furd prior distu		Assessment Score				essary for re an 3 months,
Asbestos type					ment				lly nec
Surface treatment					sessi	> 4	9-5	7-9 ≥ 10	e.g. II
Condition					rial A			П	ent is ficant, place.
Product type					Material				sessm signif
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos	Presumed to contain asbestos	Presumed to contain asbestos	No visible asbestos containing materials identified.	N				No condition assessment is and the event is significant arrangements put in place.
Extent						Si	Ī	ned ACM	ea ea
Material Description , surface treatment and condition	Inaccessible	Inaccessible	pipework	Concrete flooring throughout		Confirmed Asbestos		Presumed/Strongly presumed ACM	Or Non Accessed Area
Sample No.						ට		Presumed/	5
Location or Functional Space	Basement private sfores	Basement room 21	Basement private store	Basement private store		ected	vrea	3	Quantifiable
Building	13 Moore Lane	13 Moore Lane	13 Moore Lane	13 Moore Lane		NAD = No asbestos detected	NAA = Non Accessed Area AIB = Ashestos insulation hoard	AC = Asbestos cement VET = viral floor file	NQ = Not Quantified/Quantifiable SM = Square Meters
Ref No.	w	9	1	<b>∞</b>	Key	NAD	AIR	AC =	NO = NS

Photo			
Recommendations	Further inspection is required prior to any works likely to cause disturbance.		
Material assessment			
Asbestos type			
Surface treatment			
Condition			
Product type			
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent			
Material Description , surface treatment and condition	Inaccessible	Concrete stairway	
Sample No.			
Location or Functional Space	Basement private store room 10	Basement stairway to Moore street shop	Mezzanine workshop
Building	13 Moore Lane	13 Moore Lane	13 Moore Lane
Ref No.	6	10	11

Material Assessment Score  ≤ 4  5-6  T-9  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between su arrangements put in place.
--



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# **Refurbishment & Demolition Asbestos Survey**

Location:

13 Moore Street

Dublin 1

**Client:** 

Dublin Central GP Ltd

**Instructing Party:** Certo Management Services

**Survey Date:** 

September, 2020

Prepared by:

John Kelleher, About Safety Ltd.

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
10	Asbestos containing adhesive to the vinyl floor tiles in the front and back rooms on the 1st floor. 42 Square meters approximately.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to demolition.]
8	The roofing felt on the main roof is presumed to contain asbestos. No access.

#### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Contact:

Peter Mcllhagger

Site Full Name: 13 Moore Street Dublin 1 Report Author:
About Safety Limited
24 Oceancrest
Arklow
Co. Wicklow

Contact: Phone: John Kelleher 086 2208488

Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)
 P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

## **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

# Scope of Works & Site Description

General Information	Scope of Works: Structural Details:	Proposed demolition 2 storey terraced building with flat roofs
External Aspects:	Roofs:	Felt to flat roofs.
Internal Aspects:	Walls Ceilings Floors Insulation	Original brick walls. Studded plasterboard partitions Plaster board ceilings. Original ceramic tiles and concrete. Timber on 1st floor. n/a
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	1st storey roof not accessible.

## **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

## Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

# **Competent Person**

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

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About Safety Ltd. Registered in Ireland: No. 422820

# Appendix A - Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 113 Moore Street Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
S01	2027801	1st floor back and front rooms	VFT	NADIS
S02	2027802	1st floor back and front rooms	VFT adhesive	Chrysotile
S03	2027803	Extension roof	Felt	NADIS

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B - Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie About Safety Ltd. Registered in Ireland: No. 422820

Photo		0		
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	Ceramic tiles and concrete	Plasterboard ceilings	Back of shop	Front of shop
Sample No.				
Location or Functional Space	Ground floor	Ground floor	Ground floor	Ground floor
Building or Area of Site	13 Moore Street	13 Moore Street	13 Moore Street	13 Moore Street
Ref No.	-	2	60	4

Photo				No. of the last of
Recommendations				Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Presumed to contain asbestos
Extent				
Material Description , surface treatment and condition			Modern felt to extension roof over plywood.	Roofing felts
Sample No.			2027803	
Location or Functional Space	Ground floor Kitchen	Ground floor Extension	Ground floor Extension roof	High roofs
Building or Area of Site	13 Moore Street	13 Moore Street	13 Moore Street	13 Moore Street
Ref.	w	9	7	<b>∞</b>

Risk     NaD = No asbestos detected     NaD = No asbestos detected     AlB = Asbestos insulation board     Ac = Asbestos cement     Ac = Asbestos insulation board     Ac = Asbestos cement     Ac = Asbestos cement	Risk Very Low Low Medium High nent and demolition surveys but, where the period b
--	---

Photo		
Recommendations		Removal and disposal as asbestos waste prior to work likely to cause disturbance.
Material assessment score		2
Asbestos type		-
Surface treatment		0
Condition		•
Product type		-
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	Chrysofile
Extent		42 SM approx.
Material Description , surface treatment and condition	Plasterboard to ceiling and walls	VFT adhesive under lino.
Sample No.		2027802
Location or Functional Space	1st Noor Kitchen	1st floor Front and back rooms
Building or Area of Site	13 Moore Street	13 Moore Street
Ref No.	6	10

(

Key       Material Assessment Score       Material Assessment Score       Risk         NAD = No asbestos detected       Confirmed Asbestos       S - 6       Low         AC = Asbestos insulation board       AC = Asbestos cement       Presumed/Strongly presumed ACM       Medium         VFT = vinyl floor tile       Do. Non Accessed Area       No condition assessment is normally necessary for refurblishment and demolition surveys but, where the period between surve         SM = Square Meters       and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management
---



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# **Refurbishment & Demolition Asbestos Survey**

Location: No. 1 & 2 Moore Street.

Dublin 1

Client: Dublin Central GP Ltd

Instructing

Party:

Certo Management Services

Survey Date: O

October 8th, 2020

Prepared by:

John Kelleher, About Safety Ltd.

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
	No asbestos containing materials identified.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
10	The roofs were not accessible during the investigation.

### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

Certo Management Services

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

No. 1 & 2 Moore Street.

Dublin 1

Report Author:

**About Safety Limited** 

24 Oceancrest

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

### Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

## **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

### Scope of Works & Site Description

General Information	Scope of Works: Structural Details: Date of Construction:	Proposed demolition 3 storey building of solid brick construction with flat roof Not known	
External Aspects:	Roofs:	Flat roof	
	Walls	Original brick construction with lime plaster render.	
Internal Aspects:	Ceilings Floors	Original lat and plaster and plasterboard.  timber on upper floors. Concrete on ground floor.	
Services:	Heating Systems:	n/a	
Reservations:	Access restrictions:	Roofs were not accessible.  The retail areas of the building were occupied during the inspection.	

## Survey Limitations

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

# Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

## Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

# Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

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About Safety Ltd. Registered in Ireland: No. 422820

### Appendix A - Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 1 & 2 Moore St. Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
		No samples taken		

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo					
Recommendations					
9.1098					
Asbestos type Material assessment					l
Surface treatment					ı
Condition					
Product type					
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	
Extent					
Material Description , surface treatment and condition			Modern drop ceilings	,	
Sample No.					
Location or Functional Space	No 1 Ground floor retail outlet		No. 2 Shop	No. 2 Stairway	
Building or Area of Site	No. 1 &2 Moore St.	No. 1 &2 Moore St.	No. 1 & 2 Moore St.	No. 1 &2 Moore St.	
No.	-	7	m	4	

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	₹5	Very Low
AIB = Asbestos insulation board		5-6	Low
AC = Asbestos cement		7-9	Medium
VFT = vinyl floor tile	Presumed/Strongly presumed ACM	> 10	High
NQ = Not Quantified/Quantifiable	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	it and demolition surveys but, where the period between survey
SWI = Square Meters		and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim manage	erial assessment should be conducted and interim management
LM = Linear Meters		arrangements put in place.	

Photo				
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition				
Sample No.				
Location or Functional Space	No. 2 1st floor Store rooms	No. 2 1 <sup>st</sup> floor Store rooms	No. 2 1 <sup>st</sup> floor WC	No. 2 2nd floor Front rooms
Building or Area of Site	No. 1 & 2 Moore St.	No. 1 & 2 Moore St.	No. 1 &2 Moore St.	No. 1 &2 Moore St.
Ref No.	w	9	7	<b>∞</b>

Material Assessment Score	restos ≤ 4	5-6	7-9	ssumed ACM ≥ 10	d Area  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is confident to mare than 3 months then a material assessment should be conducted and interior	arrangements put in place.
	Confirmed Asbestos			resumed/Strongly presumed ACM	Or Non Accessed Area	(

Photo		
Recommendations		Investigation prior to work likely to cause disturbance.
Material assessment score		THE STATE OF
Asbestos type		
Surface treatment		
Condition		
Product type		
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	Presumed to contain asbestos felts
Extent		
Material Description , surface treatment and condition		Roof not accessible
Sample No.		
Location or Functional Space	No. 2 2 <sup>nd</sup> floor Back rooms	No. 2 2nd floor
Building or Area of Site	No. 1 & 2 Moore St.	No. 1 &2 Moore St.
Ref No.	6	10

Key       NAD = No asbestos detected       Confirmed Asbestos       Material Assessment Score       Risk         NAD = No asbestos detected       Confirmed Asbestos       S - 6       Low         AC = Asbestos cement       7 - 9       Medium         VFT = vinyl floor tile       Or Non Accessed Area       No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between stand the period between stand interim manage         LM = Linear Meters       Linear Meters	Risk Very Low Low Medium High ment and demolition surveys but, where the period between su	
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## **ABOUT SAFETY LTD.**

ASBESTOS | LEAD BASED PAINT | MOULD | SILICA DUST | HAZMAT SURVEYING & TESTING RISK MANAGEMENT | PROJECT MANAGEMENT

## **Refurbishment & Demolition Asbestos Survey**

Location:

No. 3 Moore Street

Dublin 1

Client:

Dublin Central GP Ltd

**Instructing Party:** Certo Management Services

**Survey Date:** 

October 8th, 2020

Prepared by:

John Kelleher, About Safety Ltd.

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## **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
9, 10	Asbestos containing textured paint was identified to the back of the stairway and in the 1st floor room and is presumed to be all other similar homogenous paints throughout the building. Removal of textured paint has a statutory notification of 14 day which is required to be given to the H.S.A. by the contractor appointed for the works.  Samples were only taken where the material was damaged and flaking.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
6	A section of the downpipe to the rear of the building is strongly presumed to contain asbestos.
7	Substrate roofing felts on the main and lower roofs are presumed to contain asbestos.
8	Integral areas of the old blue wall mounted air handling unit is presumed to contain asbestos.
11, 12, 13, 16, 17, 18	Textured paints in the rooms and areas on the 1st and 2nd floor are strongly presumed to contain asbestos based on the results of sampling carried out.

#### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

No. 3 Moore Street Parnell Street Dublin 1 **Report Author:** 

About Safety Limited

24 Oceancrest

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

## Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### Objectives

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

### Scope of Works & Site Description

General Information	Scope of Works: Structural Details: Date of Construction:	Proposed demolition.  3 storey building of solid construction with flat roof. Not known
External Aspects:	Roofs:	Flat roofs with roofing felts.
	Walls Ceilings	Original brick walls with lat and plaster render.  Original lime plaster and plasterboard.
Internal Aspects:	Floors	Concrete on ground floor and timber on upper floors.
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	Roofs were not accessed. Sampling was restricted due to occupancy. Ground floor was trading at time of the inspection.

### **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

### Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

### **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## **Competent Person**

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

## Appendix A – Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 3 Moore Street Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
S01	2028440	1st floor ceiling	Textured paint	Chrysotile
S02	2028441	1st floor floor debris	Textured paint	Chrysotile

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher



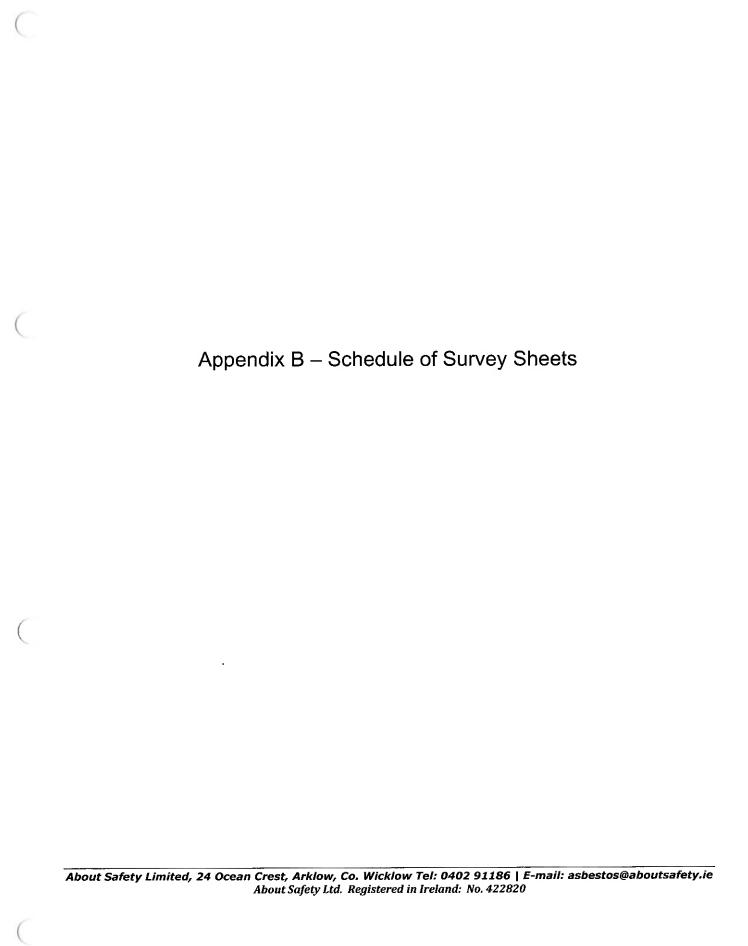


Photo				
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	Modern electrical board and assemblies.	Concrete and ceramic tiles to floors		
Sample No.				
Location or Functional Space	Ground floor Electrical panel in hall	Ground floor Front of shop	Ground floor Back of shop	Ground floor Kitchen
Building or Area of Site	No. 3 Moore Street	No. 3 Moore Street	No. 3 Moore Street	No. 3 Moore Street
Ref No.	1	7	6	4

会員

Photo				
Recommendations		Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.  The integrity of the roof was not compromised due to occupancy.	Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score				
Aspestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	Presumed asbestos	Presumed asbestos	Presumed asbestos
Extent		2 LM approx.		
Material Description , surface treatment and condition		Section of AC downpipe	Substrate roof felt.	Integral areas of AH unit.
Sample No.				
Location or Functional Space	Ground floor WC	Back elevation	Back roof	Under arch between No. 2 and 3
Building or Area of Site	No. 3 Moore Street	No.3 Moore Street	No. 3 Moore Street	No. 3 Moore Street
Ref. No.	w	9	7	<b>∞</b>

Material Assessment Score Risk	Confirmed Asbestos ≤ 4 Very Low	5-6 Low	7-9 Medium	Presumed/Strongly presumed ACM ≥ 10 High	Or Non Accessed Area No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveys	and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	arrangements but in place.
Key	NAD = No asbestos defected	AIB = Aspestos insulation board	AC = Asbestos cement	VFI = vinyl moor tale $NO = N_{ch} O_{ch} A_{ch} O_{ch} A_{ch} A_{ch} A_{ch}$	SM = Square Meters	I.M = I inear Meters	

Photo				
Recommendations	Removal and disposal as asbestos waste by a specialist asbestos contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a specialist asbestos contractor prior to work likely to cause disturbance.	Investigation and sampling when the premised is vacant.	Investigation and sampling when the premised is vacant.
Material assessment score	60			
Asbestos type	-1			SAME TO STATE OF THE
Surface treatment	•			Allegation
Condition	-			
Product type	-		a de maria esta esta	
Asbestos identified (presumed, strongly presumed or identified)	Chrysotile	Chrysotile	Strongly presumed asbestos	Strongly presumed asbestos
Extent				
Material Description , surface treatment and condition	Textured paint to back of stairway	Textured paint to back of stairway	Textured paint	Textured paint
Sample No.	2028440	2028441		
Location or Functional Space	Stairway to 1st floor	1st floor Store rooms	1st floor Store rooms	1st floor Store rooms
Building or Area of Site	No. 3 Moore Street	No.3 Moore Street	No. 3 Moore Street	No. 3 Moore Street
Ref No.	6	10	11	12

Material Assessment Score	54	9-9	7-9	>10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between s and the acoust is cignificant a a managed than 3 months than a managed assessment changed he conducted and interim managed.	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	(

Photo				
Recommendations	Investigation and sampling when the premised is vacant.			Investigation and sampling prior to work likely to cause disturbance.
Material assessment score				
Aspestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	Strongly presumed asbestos	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Presumed to contain textured paint
Extent				
Material Description , surface treatment and condition	Textured paint	AH ductwork with MMMF insulation	Old ceiling collapsed	Over PVC cladding
Sample No.				
Location or Functional Space	14 floor Store rooms	14 floor	2 <sup>nd</sup> floor	2nd floor Front room
Building or Area of Site	No.3 Moore Street	No. 3 Moore Street	No.3 Moore Street	No. 3 Moore Street
Ref.	13	14	15	16

Rey Net State       Material Assessment Score       Material Assessment Score       Risk         AIB = Asbestos insulation board AC = Asbestos cement NFT = vinyl floor tile       F-6       Low         NO = Not Juantified/Quantifiable SM = Square Meters       No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between the significant, e.g. more than 3 months, then a material assessment should be conducted and interim m
--

Photo		
Recommendations	Investigation and sampling prior to work likely to cause disturbance.	Investigation and sampling prior to work likely to cause disturbance.
Material assessment score		
Asbestos type		
Surface treatment		
Condition	THE WAS A	
Product type		
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain textured paint	Presumed to contain textured paint
Extent		
Material Description , surface treatment and condition	Over PVC cladding	Over PVC cladding
Sample No.		
Location or Functional Space	2nd floor Front room	2nd floor Front room
Building or Area of Site	No.3 Moore Street	No. 3 Moore Street
Ref No.	17	18

Confirmed Asbestos



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# **Refurbishment & Demolition Asbestos Survey**

Location:

No. 4 Moore Street

Dublin 1

**Client:** 

**Dublin Central GP Ltd** 

**Instructing Party:** Certo Management Services

**Survey Date:** 

October 8th, 2020

Prepared by:

John Kelleher, About Safety Ltd.

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## **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
	No asbestos containing materials were identified.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
2, 3, 4, 6 – 10, 12	Textured paints were identified in rooms and areas throughout the building are presumed to contain asbestos. Due to occupancy no samples were taken.

#### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name: No. 4 Moore Street

Parnell Street
Dublin 1

Report Author:

**About Safety Limited** 

24 Oceancrest

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

### Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

### Scope of Works & Site Description

General Information	Scope of Works: Structural Details: Date of Construction:	Proposed demolition.  3 storey building of solid construction with flat roof. Not known
External Aspects:	Roofs:	Flat roofs with roofing felts.
	Walls	Original brick walls with lat and plaster render.
	Ceilings	Original lime plaster and plasterboard.
Internal Aspects:	Floors	Concrete on ground floor and timber on upper floors.
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	Roofs were not accessed. Sampling was restricted due to occupancy.

### **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

### Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

### **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

## Appendix A - Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 4 Moore Street Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
	3.53	No samples taken		

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher



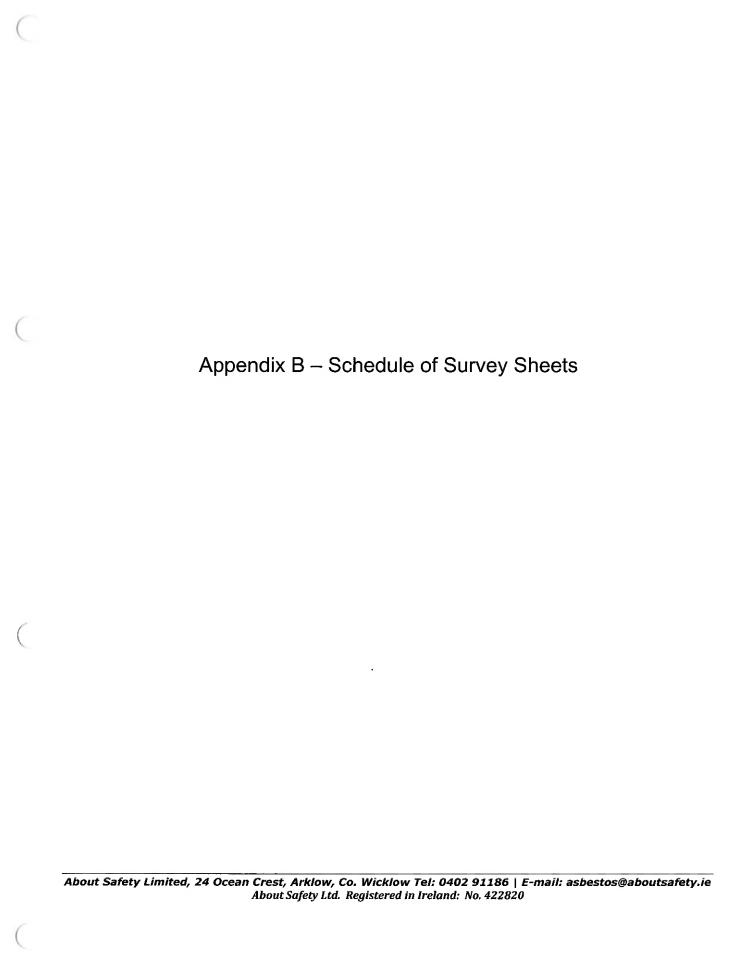


Photo				THE REPORT OF THE PERSON OF TH
Recommendations		Investigation and sampling prior to work likely to cause disturbance.	Investigation and sampling prior to work likely to cause disturbance.	Investigation and sampling prior to work likely to cause disturbance.
Material assessment score		TA TOWN THE DESIGNATION		
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	NAD	Presumed to contain VFT and adhesive	Presumed to contain asbestos	Presumed to contain asbestos
Extent				
Material Description , surface treatment and condition	Ceramic tiles to front of shop	Under existing lino at back of shop	Textured paint to back of shop	Textured paint to back of shop
Sample No.				
Location or Functional Space	Ground floor CE Fones outlet	Ground floor CE Fones outlet	Ground floor CE Fones outlet	Ground floor CE Fones outlet
Building or Area of Site	No. 4 Moore Street	No. 4 Moore Street	No. 4 Moore Street	No. 4 Moore Street
Ref.	1	72	ю	4

Confirmed Asbestos  Confirmed Asbestos  Confirmed Asbestos  Presumed/Strongly presumed ACM  Or Non Accessed Area  Or Non Accessed Area  and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
<u>8</u> <u>8</u> (

Photo		7		
Recommendations		Investigation and sampling prior to work likely to cause disturbance.	Investigation and sampling prior to work likely to cause disturbance.	Investigation and sampling prior to work likely to cause disturbance.
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	Presumed to contain asbestos	Presumed to contain asbestos	Presumed to contain asbestos
Extent				
Material Description , surface treatment and condition		Textured paint to ceiling	Textured paint to ceiling	Textured paint to ceiling
Sample No.				
Location or Functional Space	14 Noor CE Fones outlet stairway	1st floor CE Fones outlet Store rooms	1st floor CE Fones outlet Store rooms	14 floor CE Fones oudlet Store rooms
Building or Area of Site	No. 4 Moore Street	No. 4 Moore Street	No. 4 Moore Street	No. 4 Moore Street
Ref. No.	w	9	7	∞

Key NAD = No asbestos detected AIB = Asbestos insulation board	Confirmed Asbestos	Material Assessment Score	Risk Very Low
AC = Asbestos cement		7-9	Medium
VFT = vinyl 1100f tile	Presumed/Strongly presumed ACM	>10	High
NQ = Not Quantifiable SM = Square Meters LM = Linear Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, we and the event is significant, e.g. more than 3 months, then a material assessment should be cond arrangements put in place.	essment is normally necessary for refurbishment and demolition surveys but, where the period between surve significant, e.g. more than 3 months, <u>then a material assessment should be conducted and interim managemen</u> ut in place.

Photo				
Recommendations	Investigation and sampling prior to work likely to cause disturbance.	Investigation and sampling prior to work likely to cause disturbance.		Investigation and sampling prior to work likely to cause disturbance.
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos	Presumed to contain asbestos	No visible asbestos containing materials identified.	Presumed to contain asbestos
Extent				
Material Description , surface treatment and condition	Textured paint to ceiling	Textured paint to celling	Ceramic files to floors	Textured paint to ceiling
Sample No.				
Location or Functional Space	2nd floor CE Fones outlet Storerooms	2nd floor CE Fones outlet Storeeooms	Ground Floor Grocery Outlet	Ground Floor Grocery Outlet
Building or Area of Site	No. 4 Moore Street	No. 4 Moore Street	No. 4 Moore Street	No. 4 Moore Street
Ref No.	6	10	11	12

AIB = Asbestos detected  AIB = Asbestos insulation board  AC = Asbestos cement  VFT = vinyl floor cile  NO endition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey  SM = Square Meters  Low  Medium  7 - 9  Medium  High  Or Non Accessed Area  and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management  LM = Linear Meters	Key		Material Assessment Score	Risk	
to Presumed/Strongly presumed ACM Or Non Accessed Area	NAD = No asbestos detected	Confirmed Asbestos	≥4	Very Low	
Quantifiable Or Non Accessed Area	AIB = Asbestos insulation board		9-9	Low	
Quantifiable Or Non Accessed Area	AC = Aspestos cement		7-9	Medium	
Or Non Accessed Area	NO - Not Ought 5504 (Ought) 50 No	Presumed/Strongly presumed ACM	≥10	High	
	SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishme	it and demolition surveys but, where the period between survey	A
(	I M - I moon Motore		and the event is significant, e.g. more than 3 months, then a ma	erial assessment should be conducted and interim management	+
	Livi – Laucar ivieters		arrangements put in place.		

Photo		
Recommendations		
Material assessment score		
Asbestos type		
Surface treatment		
Condition		
Product type		
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent		
Material Description , surface treatment and condition	Ceramic tiles to floor	Ceilings
Sample No.		
Location or Functional Space	Groeny Grocery Outlet Back of shop	Ground Floor Grocery Outlet Back of shop
Building or Area of Site	No. 4 Moore Street	No. 4 Moore Street
Ref No.	13	14

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	<u>&lt;</u> 4	Very Low
AIB = Asbestos insulation board		5-6	Low
AC = Asbestos cement		7-9	Medium
VFT = vinyl floor tile	Presumed/Strongly presumed ACM	> 10	High
NQ = Not Quantified/Quantifiable	Or Non Accessed Area	No condition assessment is normally necessary for refurbishmen	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey
sivi = Square ivieters		and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interin	erial assessment should be conducted and interim management
LIM = Linear Weters		arrangements put in place.	





## **ABOUT SAFETY LTD.**

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# **Refurbishment & Demolition Asbestos Survey**

Location:

No. 5 Moore Street.

Dublin 1

**Client:** 

**Dublin Central GP Ltd** 

Instructing Party: Certo Management Services

**Survey Date:** 

October 8th, 2020

Prepared by:

John Kelleher, About Safety Ltd.

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## **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
4, 5	Asbestos containing Bakelite toilet cisterns in the WC's on the 1st floor.
7	Asbestos containing bitumen pads to the kitchen sink unit on the 1st floor.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
2	Asbestos containing textured paint is presumed over the drop ceilings in the shop area.
	Roofs were not accessible.

#### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

No. 5 Moore Street

Dublin 1

Report Author:
About Safety Limited

About Salety Limited

24 Oceancrest Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

## **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

## Scope of Works & Site Description

General Information	Scope of Works: Structural Details: Date of Construction:	Proposed demolition.  3 storey building of solid construction with flat roof.  Not known
External Aspects:	Roofs:	Flat roofs with roofing felts.
	Walls	Original brick walls with lat and plaster render.
	Ceilings	Original lime plaster and plasterboard.
Internal Aspects:	Floors	Concrete with ceramic tiles on ground floor and timber on upper floors.
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	Roofs were not accessed.

## **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

## Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

#### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

## **Specific Notes**

#### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

## Appendix A – Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 5 Moore Street. Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
S01	2028442	Stairway wall	Nap plaster	NADIS
S02	2028443	1st floor kitchen sink unit	Bitumen pads	Chrysotile

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher



Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations		Investigation prior to work likely to cause disturbance.		Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.
Material assessment score				4
Asbestos type				7
<b>Surface treatment</b>				_
Condition				0
Product type				-
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	Presumed to contain asbestos	NAD	Amosite
Extent				-
Material Description , surface treatment and condition	Ceramic tiles to floors	Possible textured paint	Painted nap plaster	Bakelite cistern
Sample No.			2028442	
Location or Functional Space	Ground floor retail outlet	Ground floor retail outlet Ceiling over drop ceilings	Stairway to 1st floor	1 <sup>st</sup> floor
Building or Area of Site	No.5 Moore Street	No. 5 Moore Street	No. 5 Moore Street	No. 5 Moore Street
Ref. No.	1	74	m	4

Confirmed Asbestos resumed/Strongly presumed ACM Or Non Accessed Area
---

Photo				
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.		Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	
Material assessment score	4		7	
Asbestos type	2		_	
Surface treatment	_		0	
Condition	0		0	
Product type	-		-	
Asbestos identified (presumed, strongly presumed or identified)	Amosite	No visible asbestos containing materials identified	Chrysotile	No visible asbestos containing materials identified
Extent	-		Small pads	
Material Description , surface treatment and condition	Bakelite cistern		Bitumen pads to sink unit	Plasterboard linings around door
Sample No.			2028443	
Location or Functional Space	1st floor	14 Rooms Rooms	1st floor	2nd floor Stairway
Building or Area of Site	No. 5 Moore Street	No. 5 Moore Street	No. 5 Moore Street	No. 5 Moore Street
Ref No.	w	9	1-	∞

Key NAD = No asbestos detected AIB = Asbestos insulation board AC = Asbestos cement VFT = viny floor tile NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters	Area  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveys and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangement in the conducted and interim management arrangements must in place.	Risk Very Low Low Medium High t and demolition surveys but, where the period between surveys erial assessment should be conducted and interim management	
--	---	--	--

Photo		
Recommendations		
Material assessment score		
Asbestos type	*	
Surface treatment		
Condition		
Product type		
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	No visible asbestos containing materials identified
Extent		
Material Description , surface treatment and condition	Old ceilings	Old ceilings
Sample No.		
Location or Functional Space	2nd floor Rooms	2nd floor Rooms
Building or Area of Site	No. 5 Moore Street	No. 5 Moore Street
Ref No.	6	10

Key NAD = No asbestos detected AIB = Asbestos insulation board	Confirmed Asbestos
AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters	Presumed/Strongly presumed ACM Or Non Accessed Area
Lim = Linear Meters	(

< 4	
	Very Low
5-6	Low
7-9	Medium
> 10	High
No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between s and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim manage arrangements put in place.	and demolition surveys but, where the period between surve ial assessment should be conducted and interim managemen



## **ABOUT SAFETY LTD.**

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# **Refurbishment & Demolition Asbestos Survey**

Location:

No. 8 & 9 Moore Street & 11/13 Henry Place

Dublin 1

**Client:** 

**Dublin Central GP Ltd** 

**Instructing Party:** Certo Management Services

Survey Date: October 8<sup>th</sup>, 2020

Prepared by:

John Kelleher, About Safety Ltd.

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## **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
	No visible asbestos containing materials identified.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
7	Integral areas of the gas boiler on the 1st floor are presumed to contain asbestos.
15	The brake shoes on the dumb waiter lift motor are presumed to contain asbestos.
25	The flat roofs were not accessible and are presumed to contain asbestos roofing felts.

### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

8/9 Moore St. and 11/13 Henry St.

Dublin

Report Author:
About Safety Limited
24 Oceancrest
Arklow
Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

## Scope of Works & Site Description

General Information	Scope of Works: Structural Details: Date of Construction:	Proposed demolition.  3 storey building of solid construction with flat roofs. Building area covers No. 8/9 Moore St., and 11-13 Henry Street Not known
External Aspects:	Roofs:	Flat roofs with roofing felts.
Internal Aspects:	Walls Ceilings Floors	Original brick walls with lat and plaster render.  Original lime plaster and plasterboard.  Concrete with ceramic tiles on ground floor and timber on upper floors.
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	Roofs were not accessed. High and low roofs.

## **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

## Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

#### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

#### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## Analytical Techniques

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### Specific Notes

#### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## **Competent Person**

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

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About Safety Ltd. Registered in Ireland: No. 422820

## Appendix A - Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 8/9 Moore Street & 11/12 Henry Street Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
S01	2028444	1 <sup>st</sup> floor sink unit	Bitumen pad	NADIS
S02	2028445	1st floor ceiling	Textured coating	NADIS
S03	2028446	2 <sup>nd</sup> floor stairway	VFT	NADIS
S04	2028447	2 <sup>nd</sup> floor stairway	VFT adhesive	NADIS

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie About Safety Ltd. Registered in Ireland: No. 422820

Photo	C			
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strougly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition				
Sample No.				
Location or Functional Space	No. 8 Basement	No. 8 Basement Cold stores	No. 8 Basement	No. 8 Basement Storerooms
Building or Area of Site	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Heury St.
Ref No.	1	7	ю.	4

Material Assessment Score  ≤ 4  5 - 6  7 - 9  No condition assessment is normally necessary for refurbishment and demo and the event is significant, e.g. more than 3 months, then a material assess arrangements but in place.	Risk	Very Low	Low	Medium	High	nrt and demolition surveys but, where the period between survey ferial assessment should be conducted and interim management	
	Material Assessment Score	< 4	5-6	7-9	≥ 10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between and the event is sionificant, e.g. more than 3 months, then a material assessment should be conducted and interim managed.	arrangements put in place.
		NAD = No asbestos defected	AIB = Asbestos insulation board	AC = Asbestos cement	VFI = VIII)I IIOOF UIE NO = Not Ougastigod/Ougastigoble	SM = Square Meters	LM = Linear Meters

Photo				
Recommendations			Dismantling and investigation by a competent contractor prior work likely to cause disturbance.	
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Presumed asbestos	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition		Parquet flooring	Integral areas of the gas boiler	
Sample No.				
Location or Functional Space	Basement WC	Basement	14 floor Via spiral stairway	Upper floors over all areas
Building or Area of Site	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.
Ref No.	w	9	7	∞

Risk	Very Low	Low	Medium	High	o condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	en a material assessment should be conducted and interim management	
Material Assessment Score	< 4	5-6	7-9	> 10	No condition assessment is normally necessary for refur	and the event is significant, e.g. more than 3 months, then a material assessment s	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area		
Key	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VF1 = Vinyl Hoor tile	SM = Souge Meters		LIM - Linear intens

Photo				
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	Textured coating to ceiling.	Original ceilings over drop ceiling		
Sample No.	2028445			
Location or Functional Space	Upper floors over all areas	Upper floors over all areas	Upper floors over all areas	Upper floors over all areas
Building or Area of Site	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.
Ref No.	6	10	#	12

Material Assessment Score	≥4	2-6	7 - 9	Presumed/Strongly presumed ACM	No condition assessment is normally necessary for and the event is significant, e.g. more than 3 mont	arrangements put in place
e Risk	Very Low	Low	Medium	High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	

Photo				
Recommendations			Investigation by a competent contractor prior to work likely to cause disturbance.	
Material assessment score				
Asbestos type				
Condition Surface treatment				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Presumed asbestos	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition		Integral areas of dumb waiter	Brake shoes to dumb waiter motor	
Sample No.				
Location or Functional Space	Upper floors over all areas	14 floor	1 <sup>st</sup> floor	14 floor
Building or Area of Site	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.
Ref No.	13	41	15	16

Key NAD = No asbestos detected AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters
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Photo				
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition				
Sample No.				
Location or Functional Space	1st floor Ductwork	14 floor Kitchen	1st floor	Ground floor
Building or Area of Site	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.	No. 8/9 Moore St. No. 11/12 Henry St.
Ref No.	17	8	19	20

Confirmed Asbestos	AIB = Asbestos insulation board		Vol. 1 ving 1 from the Committee of the	Or Non Accessed Area	arrangements put in place.
Material Assessment Score	5-6	6	10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period betwe and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim ma	
Risk	Low	Medium	High	ys but, where the	

ween survey

Photo				
Recommendations				
SCORE				
Asbestos type Material assessment				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.			
Extent				
Material Description , surface treatment and condition				
Sample No.				
Location or Functional Space	Ground floor	Ground floor Shop	Ground floor Hairdressers	Ground floor
Building or Area of Site	No. 8/9 Moore St. No. 11/12 Henry St.			
Ref No.	21	22	23	24

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7-9 Medium	≥ 10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	n place,
	Confirmed Asbestos			resumed/Strongly presumed ACM	Or Non Accessed Area No condition assessmen and the event is signification.	arrangements put in pla
Key	NAD = No asbestos defected	ALB = Asbestos insulation board		NO - Not Ought 600f tile	SM = Square Meters	LM = Linear Meters

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Photo	
Recommendations	Investigation prior to work likely to cause disturbance.
Material assessment score	
Asbestos type	
Surface treatment	GO STATE FOR
Condition	
Product type	
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos
Extent	
Material Description , surface treatment and condition	Roofing felts
Sample No.	
Location or Functional Space	Roofs
Building or Area of Site	No. 8/9 Moore St. No. 11/12 Henry St.
Ref No.	25

Key       NaD = No asbestos detected       Confirmed Asbestos         AIB = Asbestos insulation board       AC = Asbestos cement       ≤ 4         AC = Asbestos cement       Fresumed/Strongly presumed ACM       5 - 6         NQ = Not Quantifiable       Presumed/Strongly presumed ACM       No condition assessment is normally necessary farea         SM = Square Meters       No condition assessment is normally necessary farea and the event is significant, e.g. more than 3	Material Assessment Score  ≤4  Very Low  5-6  T-9  Medium  ≥10  High  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveys and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management
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## **ABOUT SAFETY LTD.**

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# **Refurbishment & Demolition Asbestos Survey**

Location:

No. 10-12 Moore Street

Dublin 1

Client:

Dublin Central GP Ltd

**Instructing Party:** Certo Management Services

Survey Date: October 8<sup>th</sup>, 2020

Prepared by:

John Kelleher, About Safety Ltd.

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## **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
17	Asbestos containing roofing felt was identified on old discarded sections of roof on No. 12.
28	Small pieces of asbestos containing slates were identified on the 1st floor in rubble in No. 10

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
1	Repair slates in the valley on the roof of No. 10 are presumed to contain asbestos.
2, 14, 19, 20	Substrate roofing felts to all flat roofs are presumed to contain asbestos.
3, 4	The ceiling voids in the restaurant area of No. 10 are presumed to contain asbestos. Occupied and trading.
5	Beneath fixed laminate flooring is presumed to contain asbestos.
23, 34	Integral areas of old safes are presumed to contain asbestos linings and seals.
30	Textured paint in 1st floor store room presumed to contain asbestos.

#### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

Certo Management Services

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

No. 10-12 Moore Street

Dublin 1

Report Author:
About Safety Limited
24 Oceancrest
Arklow
Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

### Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)
P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

## **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

## Scope of Works & Site Description

General Information	Scope of Works: Structural Details: Date of Construction:	Proposed demolition 3 storey over basement building of solid brick construction with pitched and flat roofs. Not known
External Aspects:	Roofs:	Pitched roof on No. 10 with natural quarry slates. Flat roofs with roofing felt.
Internal Aspects:	Walls Ceilings Floors	Original brick walls with lime plaster render.  Original lat and plaster and plasterboard. Drop ceilings with plasterboard ceiling tiles in the restaurant areas.  Concrete floors in the basement ground floors and upper floors in No. 11/12. Timber floors in No. 10.
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	The integrity of flat roofs were not compromised as the building is occupied.

## **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

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Where the refurbishment or demolition works may not take place for a significant period after the survey

(e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## **Analytical Techniques**

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Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

## Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

# Appendix A - Asbestos Bulk Identification Report

### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 10-12 Moore Street

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
S01	2028448	1 <sup>st</sup> floor No. 11 ceiling	Nap plaster painted	NADIS
S02	2028449	1st floor No. 11 ceiling	Nap plaster painted	NADIS
S03	2028450	1st floor No. 10/11 Stairway	Black thread nosing	NADIS
S04	2028451	Roof	Felt debris	Chrysotile
S05	2028452	Basement ceiling	Nap plaster painted	NADIS
S06	2028453	Basement stairway	Black thread nosing	NADIS
S07	2028454	Basement old stair section	VFT	NADIS
S08	2028455	Basement old stair section	VFT adhesive	NADIS
S09	2028456	2 <sup>nd</sup> floor	VFT debris on floor	NADIS
S10	2028457	2 <sup>nd</sup> floor under existing floor	VFT adhesive	NADIS
S11	2028458	2 <sup>nd</sup> floor front room	Slate debris	Chrysotile

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations	Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score			Legal Con B XX	
Asbestos type				
Surface treatment				
Condition		MANAGE ENGINEE		
Product type				
Asbestos identified (presumed, strongly presumed or identified)	Presumed asbestos	Presumed	No access over ceiling. Presumed asbestos	No access over ceiling. Presumed asbestos
Extent				
Material Description , surface treatment and condition	Misc. repaired areas in the valley of natural quarry slates.	Felis to all flat	Plasterboard tiles in drop ceiling.	Plasterboard tiles in drop ceiling.
Sample No.				
Location or Functional Space	Roof of No.	Roofs to No.	No. 10 Ground floor	No. 10 Ground floor
Building or Area of Site	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street
Ref No.	1	7	ю	4

Risk	Very Low	Low	Medium	High	and demolition surveys but, where the period between survey is a seesament should be conducted and interim management	The second state of the se
Material Assessment Score	₹5 *	5-6	7-9	> 10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	
Key	ATR = Achaetoe inenlation board	AC = Achaetas comont	VFT = vinyl flage file	NO = Not Ouantified/Ouantifiable	SM = Square Meters	LM = Linear Meters

Photo				
Recommendations	Investigation by a competent contractor prior to work likely to cause disturbance.			
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	Presumed asbestos	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	Beneath laminate flooring			
Sample No.				
Location or Functional Space	No. 10 Ground floor	No. 10 Ground floor Pool room	No. 10 Ground floor Store room	No. 10 Ground floor Store room Freezer units
Building or Area of Site	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street
Ref No.	w	9	7	∞

Photo				
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	NAD	NAD
Extent				
Material Description , surface treatment and condition	Concrete ceilings		Nap plaster and paint	Nap plaster and paint
Sample No.			2028448	2028449
Location or Functional Space	No. 10 Ground floor Store rooms Prep rooms	No. 10 Ground floor Store rooms Prep rooms	No. 11/12 1st floor Rooms	No. 11/12 1st floor Rooms
Building or Area of Site	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street
Ref No.	6	91	11	12

Key NAD = No asbestos detected AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters	Confirmed Asbestos Presumed/Strongly presumed ACM Or Non Accessed Area	Material Assessment Score  ≤ 4  5 - 6  7 - 9  No condition assessment is normally necessary for refurbishment and to and the event is significant, e.g. more than 3 months, then a material as arrangements unt in place.	Material Assessment Score  ≤4  S-6  T-9  Medium  > 10  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey arrangements arrangements nut in place.	
---	--	---	--	--

Photo				
Recommendations		Investigation by a competent contractor prior to work likely to cause disturbance.		
Material assessment score		THE RESERVE		
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	Presumed to contain asbestos	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	ć	Substrate roofing back of No. 11.		Steel decking to flat roofs of No. 11
Sample No.				
Location or Functional Space	No. 11/12 I <sup>st</sup> floor Roems	No. 11/12 14 floor Rooms	No. 11/12 1" floor Rooms	No. 11/12 1st floor Rooms
Building or Area of Site	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street
Ref No.	13	14	15	16

Score Risk	Very Low	Low	Medium	High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant to a more than 3 martles than a material assessment chould be conducted and intoxing management.	a dividual, trent a mare na assessment snound de conducted and met mi management
Material Assessment Score	54	2-6	7-9	> 10	No condition assessment is normally necesand the event is cignificant to a more than	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	
Key	NAD = No asbestos detected	Alb = Aspestos institution board	AC = Aspestos cement	NO = Not Onentified/Onentifiehle	SM = Square Meters	LM = Linear Meters

Photo				
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score	2			
Aspestos type	-			
Surface treatment	0			
Condition	0			
Product type	-	RESIDENCE TO A		
Asbestos identified (presumed, strongly presumed or identified)	Chrysotile	presumed asbestos	Presumed asbestos	Presumed asbestos
Extent	Small amounts.			
Material Description , surface treatment and condition	Felt to old timber on stairway roof	Flange gaskets to galvanised tanks	Roofing felts	Roofing felts
Sample No.	2028451			
Location or Functional Space	No. 12 Roof	No. 12 Tank room	No. 12 All flat roofs	No. 11 All flat roofs
Building or Area of Site	No.s 10-12 Moore Street	No.s 10-12 Moore Street	Nose Street	No.s 10-12 Moore Street
Ref No.	17	18	119	20

Material Assessment Score Risk	≤4 Very Low	8-6 Low	7-9 Medium	>10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim managemen	ments put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area No co	arran
	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VFT = vinyt floor tile	NQ = Not Quantified/Quantifiable SM = Square Meters	LM = Linear Meters

Photo				
Recommendations			Dismantling and investigation by a competent contractor prior to work likely to cause disturbance.	
Material assessment score				
Asbestos type				
Surface treatment				
Condition			ALLE	
Product type				
Asbestos identified (presumed, strongly presumed or identified)	NAD	NAD	Presumed to contain asbestos linings.	NAD NAD
Extent				
Material Description , surface treatment and condition	Textured paint to nap plaster debris	Textured paint to nap plaster debris	Integral areas of old safe in side room	VFT and adhesive. Black thread nosing.
Sample No.	2028452			2028454 2028455 2028453
Location or Functional Space	No. 10 Basement	No. 10 Basement	No. 10 Basement	No. 10 Basement
Building or Area of Site	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street
No.	21	22	23	24

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7 - 9 Medium	≥ 10 High	lemolition	and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim manage	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area		
Key	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VFT = vinyl floor tile	SM = Square Meters	I M - I incon Motors	LIVI - LINCAL METERS

Photo				
Recommendations				Removal and disposal as asbestos waste prior to work likely to cause disturbance
Material assessment score				4
Asbestos type				_
Surface treatment				_
Condition				_
Product type				-
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	NAD	Chrysotile
Extent				Small amount
Material Description , surface treatment and condition			VFT and adhesive debris on floor	Slate debris in rubble on floor
Sample No.			2028457 2028457	2028458
Location or Functional Space	No. 10 1st floor	No. 10 1st floor	No. 10 1" floor	No. 10 1 <sup>st</sup> floor
Building or Area of Site	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street
Ref No.	25	26	27	28

Risk	Very Low	Low	Medium	High	out, where the period between	
					efurbishment and demolition surveys by then a material assessment should be	
Material Assessment Score	≥4	5-6	7-9	> 10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveys and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	arrangements nut in place
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	(
ey	NAD = No asbestos detected	AIB = Aspessos insulation noard	AC = Asbestos cement VET = vitari foca (ila	VF1 = VIII)1 11001 UIC NO = Not Ousntiffed/Ousntiffshle	SM = Square Meters	LM = Linear Weters

Photo				
Recommendations		Investigation by a competent contractor prior to work likely to cause disturbance.		
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	Presumed	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition		Textured paint to ceiling		
Sample No.				
Location or Functional Space	No. 10 1st floor	No. 10 1 <sup>st</sup> floor Store room	No. 10 1st floor Stairway to 2nd floor	2 <sup>nd</sup> floor Front room
Building or Area of Site	No.s 10-12 Moore Street	Noore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street
Ref.	29	30	31	32

Key NAD = No asbestos detected AIB = Asbestos insulation board	Presu	NC = Not Quantitied Area  Or Non Accessed Area  SM = Square Meters	Livi = Linear iveters
sbestos Material Assessment Score	ACM	4 8	arrangements put in place.
re Risk Very Low Low	Medium	io condition assessment is normally necessary for refurbishment and demolition surveys but, where the period betwee nd the event is significant, e.g., more than 3 months, then a material assessment should be conducted and interim man	

1 c

Photo			
Recommendations		Dismantling and investigation by a competent contractor prior to work likely to cause disturbance.	
Material assessment score			
Asbestos type			
Surface treatment			
Condition			
Product type			
Asbestos identified (presumed, strongly presumed or identified)	NAD	Presumed to contain asbestos linings.	No visible asbestos containing materials identified.
Extent			
Material Description , surface treatment and condition		Integral areas of old safe on floor	•
Sample No.			
Location or Functional Space	No. 10 2 <sup>nd</sup> floor Rooms	No. 10 2 <sup>nd</sup> floor	No. 10 2 <sup>nd</sup> floor WC's
Building or Area of Site	No.s 10-12 Moore Street	No.s 10-12 Moore Street	No.s 10-12 Moore Street
Ref No.	33	34	35

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	≥4	Very Low
AIB = Aspestos insulation board		2-6	Low
AC = Asbestos cement		7-9	Medium
VFI = Vinyl 1100r file	Presumed/Strongly presumed ACM	> 10	High
SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survand the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim manageme	and demolition surveys but, where the period between survial assessment should be conducted and interim manageme
L'M = Linear Meters		arrangements put in place.	



# **ABOUT SAFETY LTD.**

ASBESTOS | LEAD BASED PAINT | MOULD | SILICA DUST | HAZMAT SURVEYING & TESTING RISK MANAGEMENT | PROJECT MANAGEMENT

# **Refurbishment & Demolition Asbestos Survey**

Location:

No. 41 Henry Street

Dublin 1

**Client:** 

Dublin Central GP Ltd

**Instructing Party:** Certo Management Services

Survey Date: 14th and 16th October, 2020

Prepared by: John Kelleher, About Safety Ltd.

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
11	Asbestos containing grey thread nosing to the stairway from the 2 <sup>nd</sup> floor to the 3 <sup>rd</sup> floor.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
	Due to occupancy the existing fabric of the building was not disturbed. Floors are over-covered with new laminate flooring on the upper floors.
	The flat roof was not accessible and is presumed to contain asbestos roofing felts until proven otherwise.

#### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

No. 41 Henry Street Dublin 1 Report Author:

About Safety Limited

24 Oceancrest

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

### Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

## Scope of Works & Site Description

General Information	Scope of Works: Structural Details: Date of Construction:	Proposed structural alterations, refurbishment and/or demolition. 4 storey over basement corner property with flat roof Not known
External Aspects:	Roofs:	Flat roof.
	Walls	Original walls. PVC sheeting to basement areas.
	Ceilings	Plasterboard ceilings
Internal Aspects:	Floors	Timber floors on upper levels. Concrete in basement.
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	Flat roof. The internal fabric of the building was not disturbed

## **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

## Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

# Appendix A - Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 41 Henry Street Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
S01	2029113	Stairway 2 <sup>nd</sup> to 3 <sup>rd</sup> floor	Grey thread nosing	Chrysotile

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher



Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations				
9.0028				
Asbestos type Material assessment				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	Modern refurb. Occupied	Modern refurb. Occupied	Modern refurb. Occupied	Modern refurb. Occupied
Sample No.				
Location or Functional Space	Ice cream shop Ground floor	Ice cream shop Basement Store rooms	Ice cream shop Basement Store rooms	lce cream shop Basement WC's
Building or Area of Site	No. 41 Henry Street	No. 41 Henry Street	No. 41 Henry Street	No. 41 Henry Street
Ref No.	1	74	m	4

Material Assessment Score	Confirmed Asbestos	3-6	1.9	Presumed/Strongly presumed ACM ≥ 10	Or Non Accessed Area  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	arrangements put in place.
Bisk	Very Low	Low	Medium	High	furbishment and demolition surveys but, where the p then a material assessment should be conducted and	(

~ +1

Photo				
Recommendations				
score				
Asbestos type francessantent				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.			
Extent				
Material Description , surface treatment and condition	Modern refurb.	Modern refurb	Modern refurb.	Modern refurb.
Sample No.				
Location or Functional Space	Stairway to 1st floor.	1st floor. Reception and treatment room	2nd floor Treatment Room 4	2nd floor Treatment Room 3
Building or Area of Site	No. 41 Henry Street	No. 41 Henry Street	No. 41 Henry Street	No. 41 Henry Street
Ref.	ıv	9	7	œ

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	<u>≤4</u>	Very Low
AIB = Asbestos insulation board		5-6	Low
AC = Asbestos cement		7-9	Medium
VFI = Vinyl Hoor file	Presumed/Strongly presumed ACM	>10	High
SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demo and the event is significant, e.g. more than 3 months, then a material assess	essment is normally necessary for refurbishment and demolition surveys but, where the period between survey significant, e.g. more than 3 months, then a material assessment should be conducted and interim management
LM = Linear Meters		arrangements put in place.	

Photo		2		
Recommendations			Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	
Material assessment score			7	
Asbestos type			_	
Surface treatment			0	
Condition			0	
Product type			-	
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Chrysotile	No visible asbestos containing materials identified.
Extent			10 LM approx.	
Material Description , surface treatment and condition	Modern refurb.	Modern refurb.	Grey thread nosings	
Sample No.			20	
Location or Functional Space	2 <sup>nd</sup> floor Treatment Room 2	2 <sup>nd</sup> floor Treatment Room 1	Stairway from 2 <sup>nd</sup> to 3 <sup>rd</sup> floor	3rd floor WC
Building or Area of Site	No. 41 Henry Street	No. 41 Henry Street	No. 41 Henry Street	No. 41 Henry Street
Ref No.	6	10	Ξ	12

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7-9 Medium	≥ 10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surve and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim managemen	ut in place;
N .	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area No condition ass	arrangements p
Key	NAD = No asbestos detected	ALIS = ASDESTOS INSULATION DOARD	AC = Aspestos cement	VF1 = VIII) IIIOT IIIE NO = Not Onantified Onantified I	SM = Square Meters	LM = Linear Meters

Photo		
Recommendations		
SCOLG		
Asbestos type Material assessment		
Surface treatment		
Condition		
Product type		
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent		
Material Description , surface treatment and condition	Modern refurb.	Modern refurb.
Sample No.		
Location or Functional Space	3rd floor Bedrooms	3rd floor bedrooms
Building or Area of Site	No. 41 Henry Street	No. 41 Henry Street
No.	13	4

Restance   Confirmed Asbestos   Confirmed Asbesto	Risk Very Low Low Medium High and demolition surveys but, where the period between survicerial assessment should be conducted and interim manageme	A)
arrangements put in place.		

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## **ABOUT SAFETY LTD.**

ASBESTOS | LEAD BASED PAINT | MOULD | SILICA DUST | HAZMAT SURVEYING & TESTING RISK MANAGEMENT | PROJECT MANAGEMENT

# **Refurbishment & Demolition Asbestos Survey**

Location: 38 Henry Street (Diesel)

Dublin 1

Client: Dublin Central GP Ltd

**Instructing Party:** Certo Management Services

Survey Date: October 14th, 2020

Prepared by: John Kelleher, About Safety Ltd.

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
11	Asbestos containing grey thread nosings to 1st floor steps. 14 threads.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
15	Integral areas of the wall mounted safe is presumed to contain asbestos.
18	The lead sealed collars on the cast-iron downpipes are presumed to contain asbestos woven rope packing. Often used to prevent molten lead running through joint.
23 - 27	Substrate roofing felts are presumed to contain asbestos until proven otherwise.

### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

Certo Management Services

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name: No. 38 Henry Street

Dublin 1

Report Author:
About Safety Limited

24 Oceancrest
Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)
 P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

## **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

# Scope of Works & Site Description

General Information	Scope of Works: Structural Details: Date of Construction:	Structural alterations, refurbishment and/or demolition. 4 storey over basement building of solid construction with flat roofs Not known
External Aspects:	Roofs:	Flat roofs.
Internal Aspects:	Walls Ceilings Floors	Original walls with plasterboard in studded partitions.  Original ceilings exposed in areas. Plasterboard generally.  Concrete floors in the basement and 1st floor. Timber floors.
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	Roofs were not disturbed or were inaccessible.

# **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

# Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

# **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

## **Specific Notes**

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

# Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

# Appendix A – Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 38 Henry Street Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
S01	2029114	1st floor walls	Textured paint	NADIS
S02	2029115	1st floor	White VFT & Evode	NADIS
S03	2029116	1st floor stairway	Grey thread nosings X14	Chrysotile
<del>S04</del>	2029117	Stairway wall	Nap plaster paint	NAD
S05	2029118	1st floor half landing	Red lino	NADIS
S06	2029119	2 <sup>nd</sup> floor sink unit	Heat pads	NADIS

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher



Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations				
Material assessment score		-		
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	No visible asbestos containing materials identified	No visible asbestos containing materials identified	No visible asbestos containing materials identified
Extent				
Material Description , surface treatment and condition		·		
Sample No.				
Location or Functional Space	Ground Shop	Ground Shop	Basement	Basement Under footpath
Building or Area of Site	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street
Ref No.	1	7	m	4

Risk	Very Low	Low	Medium	High	nt and demolition surveys but, where the period between erial assessment should be conducted and interim mana	
Material Assessment Score	54	9-9	7-9	≥ 10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	(
Key	NAD = No asbestos detected	Alls = Aspestos insulation board	AC = Aspestos cement	NO = Not Operatification of the Not Operation of th	SM = Square Meters	LIM = Linear Meters

Photo				
Recommendations				
Material assessment score				
Asherial assessor				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	No visible asbestos containing materials identified	No visible asbestos containing materials identified	No visible asbestos containing materials identified
Extent				
Material Description , surface treatment and condition	Ceramic tiles to wall and floors in old WC.'s			Textured paint
Sample No.				2029114
Location or Functional Space	Basement Under footpath	Basement Changing rooms	Stairway to 1st floor	14 floor Wall at back of store
Building or Area of Site	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street
Ref No.	w	9	7	<b>∞</b>

à ti

Photo				
Recommendations			Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	
Material assessment score			7	
Asbestos type			_	
Surface treatment			0	
Condition			0	
Product type			-	
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	No visible asbestos containing materials identified	Chrysotile	No visible asbestos containing materials identified
Extent			14 threads	
Material Description , surface treatment and condition	White VFT and Evode		Old grey thread nosings. Intact	Nap plaster painted wall
Sample No.	2029115		2029116	2029117
Location or Functional Space	1st floor Storeroom	14 floor Storeroom	1st floor Stairway	2 <sup>nd</sup> floor stairway
Building or Area of Site	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street
Ref No.	6	10	=	12

Ssment Score Risk	Very Low	S-6 Low	9 Medium	0 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	
Material Assessment Score	VI	5-	7	ACM ≥ 10	No condition assessment is norranged and the event is significant, e.g.	arrangements put in place
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	(
	NAD = No asbestos detected	AIB = ASDESTOS INSUIATION DOAFD	AC = Asbestos cement	vinyi noof tile Vot Onondifod/Onondifoble	SM = Square Meters	LM = Linear Meters

Photo			3	
Recommendations			Investigation by a competent asbestos contractor prior to work likely to cause disturbance.	
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	No visible asbestos containing materials identified	Presumed to contain asbestos	No visible asbestos containing materials identified
Extent				
Material Description , surface treatment and condition	Red lino	,	Integral areas of wall mounted	
Sample No.	2029118			
Location or Functional Space	Stairway to 2 <sup>nd</sup> floor	2nd floor Store rooms	2nd floor Store room	2nd floor Storage areas
Building or Area of Site	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street
Ref No.	13	14	15	16

Kev		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	45	Very Low
AIB = Asbestos insulation board	THE RESIDENCE OF THE PERSON OF	5-6	Low
AC = Asbestos cement		7-9	Medium
VFT = vinyl floor tile	Presumed/Strongly presumed ACM	> 10	High
NQ = Not Quantified/Quantifiable	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	t and demolition surveys but, where the period between surve
SM = Square Meters		and the event is significant, e.g. more than 3 months, then a materia	erial assessment should be conducted and interim managemen
LM = Linear Meters		arrangements put in place.	

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Photo				F
Recommendations		Investigation by a competent asbestos contractor prior to work likely to cause disturbance.		
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	Presumed to contain asbestos woven rope packing	No visible asbestos containing materials identified	No visible asbestos containing materials identified
Extent				
Material Description , surface treatment and condition		Lead sealed cast-iron collars to downpipes		Heat pads to sink unit
Sample No.				2029119
Location or Functional Space	2 <sup>nd</sup> floor WC	3rd floor	3rd floor Old	3rd floor
Building or Area of Site	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street
Ref No.	17	81	19	20

Presu	Confirmed Asbestos Assessment Score Risk			No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material accessment change the conducted and interior	arrendomments and in allows
	Confirmed Asbestos	a de la companya de l	Or Non Accessed Area	Date December 1001	(

Photo			The second secon	
Recommendations			Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score				
Aspestos type				
Surface treatment				THE TOTAL TOTAL
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	No visible asbestos containing materials identified	Presumed asbestos	Presumed asbestos
Extent				
Material Description , surface treatment and condition			Substrate roofing felts	Substrate roofing felts
Sample No.				
Location or Functional Space	3rd floor Front room	Stairway to roof	Stairway Cover	Main flat roof
Building or Area of Site	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street
Ref No.	21	22	23	24

Material Assessment Score Risk	≤4 Very Low	S-6 Low	7 - 9 Medium	> 10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveand the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area
Key NAD = No asbestos detected AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters					

Photo			
Recommendations	Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score			
Asbestos type			
Surface treatment			
Condition			
Product type			
Asbestos identified (presumed, strongly presumed or identified)	Presumed asbestos	Presumed asbestos	Presumed asbestos
Extent			
Material Description , surface treatment and condition	Substrate roofing felts	Substrate roofing felts	Substrate roofing felts
Sample No.			
Location or Functional Space	Lower flat roof	Flat roofs over windows	Flat roofs over windows
Building or Area of Site	No. 38 Henry Street	No. 38 Henry Street	No. 38 Henry Street
Ref No.	25	26	7.2

Confirmed Asbestos	Presumed/Strongly presumed ACM Or Non Accessed Area	(
NAD = No asbestos detected AFB = Asbestos insulation board	AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters	Livi = Linear ivieters

Key

					2 21
Risk	Very Low	Low	Medium	High	nt and demolition surveys but, where the period between surve erial assessment should be conducted and interim managemer
Material Assessment Score	45	5-6	7-9	> 10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.



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# **Refurbishment & Demolition Asbestos Survey**

Location: 39 Henry Street (Starbucks)

Dublin 1

Client: Dublin Central GP Ltd

**Instructing Party:** Certo Management Services

Survey Date: October 8th, 2020

Prepared by: John Kelleher, About Safety Ltd.

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General Caveat	Error! Bookmark not defined.
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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
13	Asbestos containing green thread nosings on the stairway between the 1st and 2nd floors. 40 threads approximately. Good condition and intact.
14	Asbestos containing black Bakelite Shires cistern in the 2nd floor WC.
17	The second floor safe contains asbestos containing webbing to the safe and door closure points. Worn and fibrous.  It is recommended that the seals are either removed, encapsulated with a polymeric bond or the safe closed and sealed.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
1	The pitched roof on the access room contains slates are strongly presumed to contain asbestos – no access -razor wire between 38 and 39.
	Substrate roofing felts on all of the flat roofs to the bulding are presumed to contain asbestos.

### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

39 Henry Street (Starbucks)

Dublin 1

Report Author:

**About Safety Limited** 

24 Oceancrest

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

### Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

## Scope of Works & Site Description

General Information	Scope of Works: Structural Details: Date of Construction:	Structural alterations, refurbishment and/or demolition. 4 storey over basement building of solid construction with flat roofs Not known
External Aspects:	Roofs:	Flat roofs. Small building (access) on roof has slates. Observed form No. 38
Internal Aspects:	Walls Ceilings Floors	Original walls with plasterboard in studded partitions.  Original ceilings exposed in areas. Plasterboard generally.  Concrete floors in the basement and 1st floor. Timber floors.
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	Roofs were not disturbed or were inaccessible.

### **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

# Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

# Analytical Techniques

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

# Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

# Appendix A - Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 39 Henry Street Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID NADIS	
S01	2029120	Basement WC	Grey VFT and Evode		
S02	2029121	Basement under grey floor paint	Black paint	NADIS	
S03	2029122	1st floor WC	VFT and Evode	NADIS	
S04	2029123	1st to 2nd floor stairway	Green thread nosings	Chrysotile	
S05	2029124	2nd floor back room cabinet safe	Webbing seals	Chrysotile	
S06	2029125	3rd floor sink unit	Heat pads	NADIS	

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher



Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations	Investigation by a competent contractor prior to work likely to cause disturbance.			
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	Presumed asbestos	No visible asbestos containing materials identified.	No visible asbestos containing materials identified	No visible asbestos containing materials identified
Extent				
Material Description , surface treatment and condition	AC slates to roof access. Substrate roofing felts	Modern refurb.		
Sample No.				
Location or Functional Space	Roofs (no access)	Ground floor Shop (Trading)	Basement Stairway	Basement Storerooms
Building or Area of Site	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street
Ref No.	_	7	т.	4

Material Assessment Score Risk	≤4 Very Low	S-6 Low	7-9 Medium	≥ 10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	ents put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area No condition	arrangem
	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement		NQ = Not Quantinable SM = Square Meters	LM = Linear Meters

Photo				
Recommendations				
score				
Asbestos type Material assessment				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	No visible asbestos containing materials identified	No visible asbestos containing materials identified	No visible asbestos containing materials identified
Extent				
Material Description , surface treatment and condition			Grey VFT and Evode	Black paint to floor under grey paint.
Sample No.			2029120	2029121
Location or Functional Space	Basement Canteen	Basement	Basement	Basement
Building or Area of Site	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street
Ref No.	w	9	7	<b>∞</b>

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	≥4	Very Low
AIB = Asbestos insulation board		5-6	Low
AC = Asbestos cement		7-9	Medium
VFI = Vinyl floor tile	Presumed/Strongly presumed ACM	> 10	High
SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment	s normally necessary for refurbishment and demolition surveys but, where the period between survey
LM = Linear Meters		arrangements put in place.	rai assessment should be conducted and interim management

Photo				
Recommendations				
91098	_			
Asbestos type Material assessment				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	No visible asbestos containing materials identified	No visible asbestos containing materials identified	No visible asbestos containing materials identified
Extent				
Material Description , surface treatment and condition	Plastic threads	Modern refurb in this area.	Modern refurb in this area.	Modern refurb in this area.
Sample No.				
Location or Functional Space	Stairway to	14 floor Half landing WC	1st floor Restaurant	1st floor
Building or Area of Site	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street
Ref No.	6	01	=	12

Confirmed Asbestos       Material Assessment Score       Risk         Presumed/Strongly presumed ACM Or Non Accessed Area and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.       S-6       No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey arrangements put in place.
Material Assessment Score  ≤4  5-6  T-9  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between s arrangements put in place.  arrangements put in place.
Nery Low Low Medium High and demolition surveys but, where the period between strerial assessment should be conducted and interim manage

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Photo				
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.		
Material assessment score	2	4		
Asbestos type	-	74		
Surface treatment	0	- 3		
Condition	•	•		
Product type	-			
Asbestos identified (presumed, strongly presumed or identified)	Chrysotile	Amosite	No visible asbestos containing materials identified	No visible asbestos containing materials identified
Extent	40 threads	1 unit		
Material Description , surface treatment and condition	Green thread nosings. Intact	Black Bakelite cistern. Intact.		
Sample No.	2029123			
Location or Functional Space	Stairway 1st to 2sd floor	2 <sup>nd</sup> Roor WC	2 <sup>nd</sup> floor Board room	2 <sup>nd</sup> floor Back room
Building or Area of Site	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street
Ref No.	13	14	15	16

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7 - 9 Medium	> 10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, <u>then a material assessment should be conducted and interim managementary arrangements put in place.</u>
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area
	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VF I = Vinyl Hoof file $N = N = 0$	NÇ = Not Quantinable SM = Square Meters LM = Linear Meters

Photo				
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance. is recommended that the seals are removed, encapsulated or the safe closed and sealed.			
Material assessment score	7			
Asbestos type	_			
Surface treatment	7			
Condition	74			
Product type	7			
Asbestos identified (presumed, strongly presumed or identified)	Chrysotile	No visible asbestos containing materials identified	No visible asbestos containing materials identified	No visible asbestos containing materials identified
Extent	4 LM approx.			
Material Description , surface treatment and condition	Asbestos containing webbing to the door and safe. Fibrous, Not sealed.	·		
Sample No.	2029124			
Location or Functional Space	2nd floor Back room	3 <sup>rd</sup> floor WC	3rd floor	3rd floor Rooms
Building or Area of Site	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street
Ref No.	17	18	19	20

Material Assessment Score  ≤4  S-6  T-9  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements but in place.
Risk Very Low Low Medium High and demolition surveys but, where the period between survial assessment should be conducted and interim manageme
nr.v

N TI

Photo				
Recommendations				
SCOT'C				
Asbestos type Material assessment				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	NAD	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition			Sink pad	Plastic water tanks in cupboard over stairway.
Sample No.			2029125	
Location or Functional Space	3rd floor Rooms	3rd floor Rooms	3rd floor Rooms	3rd floor landing
Building or Area of Site	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street	No. 39 Henry Street
Ref.	21	22	23	24

Key       Material Assessment Score       Risk         NAD = No asbestos detected       Confirmed Asbestos       Very Low         AIB = Asbestos insulation board       AC = Asbestos cement       7 - 9       Medium         VFT = vinyl floor tile       Or Non Accessed Area       No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveys but where the per
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# **ABOUT SAFETY LTD.**

ASBESTOS | LEAD BASED PAINT | MOULD | SILICA DUST | HAZMAT SURVEYING & TESTING RISK MANAGEMENT | PROJECT MANAGEMENT

# **Refurbishment & Demolition Asbestos Survey**

Location: 22-23 Moore Street

Dublin 1

Client: Dublin Central GP Ltd

**Instructing Party:** Certo Management Services

Survey Date: October, 2020

Prepared by: John Kelleher, About Safety Ltd.

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
	No visible asbestos containing materials identified.

Ref:	Presumed/Strongly Presumed Asbestos [Requires investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
7	The room at the back exit mezzanine floor was not accessible due to storage.
18	Roofs were not accessible during the inspection.

### Names and Addresses

**Client Name:** 

Dublin Central GP Ltd

**Instructing Party:** 

Certo Management Services

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

22/23 Moore Street

Dublin 1

**Report Author:** 

**About Safety Limited** 

24 Oceancrest

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

### Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

## Scope of Works & Site Description

General	Scope of Works:	Proposed demolition
Information	Structural Details: Date of Construction:	3 storey Circa 1960's
External Aspects:	Roofs:	Flat roofs.
Internal Aspects:	Walls Ceilings Floors	Solid block walls Concrete slab. concrete
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	The roofs were not accessed. The fabric of the building was not disturbed.

## **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

## Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

## Specific Notes

#### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

## Appendix A – Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### 22/23 Moore Street Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB, REF,	SAMPLE LOCATION	MATERIAL DESCRIPTION	N ASBESTOS TYPE IDENTIFIEID	
		No samples taken			

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B - Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.le
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	Ceramic tiles to floors.	Exposed concrete blocks to celling.	Modern freezer units.	
Sample No.				
Location or Functional Space	Ground floor Oriental Pantry	Ground floor Oriental Pantry Supermarket	Ground floor Oriental Pantry Cold stores	Ground floor Oriental Pantry Office
Building or Area of Site	Moore Street	22-23 Moore Street	22-23 Moore Street	22-23 Moore Street
No.	-	7	m	4

Confirmed Asbestos Presumed/Strongly presumed ACM Or Non Accessed Area

Photo				
Recommendations			Investigation by a competent contractor prior to work likely to cause disturbance.	
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Presumed to contain asbestos	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition			No access due to storage	
Sample No.				
Location or Functional Space	Street Oriental Pantry	Street Oriental Pantry Back fire exit	Street Oriental Pantry Back fire exit	Gymnasium Entrance stairway
Building or Area of Site	22-23 Moore Street	22-23 Moore Street	Moore Street	22-23 Moore Street
Ref No.	w	9	7	<b>∞</b>

Key NAD = No asbestos detected AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters	Confirmed Asbestos Presumed/Strongly presumed ACM Or Non Accessed Area	Material Assessment Score  ≤4  5-6  7-9  No condition assessment is normally necessary for refurbishment and demolition surveys but, we and the event is significant to a more than 3 months, then a material assessment should be condition.	Material Assessment Score    S4	
LM = Linear Meters		arrangements put in place.		

Photo				
Recommendations				
SCOTE				
Asbestos type Material assessment				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.			
Extent				
Material Description , surface treatment and condition				
Sample No.				
Location or Functional Space	Gymnasium 14 floor Reception	14 floor Gymnasium	1st floor Gymnasium	1st floor Gymnasium
Building or Area of Site	12-23 Moore Street	22-23 Moore Street	12-23 Moore Street	12-23 Moore Street
Ref No.	6	10	11	12

ATB = Asbestos defected  ATB = Asbestos insulation board  AC = Asbestos cement  VFT = vinyl floor tile  NO = Not Quantifiable  SM = Square Meters  LM = Linear Meters  ATB = Asbestos defected  Fresumed/Strongly presumed ACM  Or Non Accessed Area  and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim managem arrangements put in place.	Key		Material Assessment Score	Risk
ton board  Presumed/Strongly presumed ACM Or Non Accessed Area	NAD = No asbestos defected	Confirmed Asbestos	≥4	Very Low
Quantifiable Or Non Accessed Area	AIB = Aspestos insulation board		9-9	Low
Quantifiable Or Non Accessed Area	AC = Aspestos cement		7-9	Medium
Or Non Accessed Area	NO - Not Overtified/Overtifiekle	Presumed/Strongly presumed ACM	> 10	High
	SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishmen and the event is significant, e.g. more than 3 months, then a mat	nt and demolition surveys but, where the period between sur erial assessment should be conducted and interim managem
	LM = Linear Meters		arrangements put in place.	

urvey

Photo				
Recommendations				
SCOPE				
Asbestos type Asterial assessment				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition				
Sample No.				
Location or Functional Space	14 floor Gymnasium Changing rooms	14 floor Gymnasium WC's	2nd floor Gymnasium	2nd floor Gymnasium Store room
Building or Area of Site	Moore Street	22-23 Moore Street	Moore Street	22-23 Moore Street
Ref No.	13	4	15	16

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7 - 9 Medium	≥10 High	o condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	acc.
Material	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area No condition assessment	and the event is significan	arrangements put in place
Key	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VF1 = vinyl floor tile	SM = Some Meters	Sivi — Square ivieters	LIVI = Linear ivieters

Photo		
Recommendations		Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score		
Asbestos type		
Surface treatment		
Condition		
Product type		
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	Presumed to contain asbestos roofing felts.
Extent		
Material Description , surface treatment and condition	Modern heating and storage equipment.	No access
Sample No.		
Location or Functional Space	2 <sup>nd</sup> floor Gymnasium Plantroom	Flat roofs
Building or Area of Site	22-23 Moore Street	22-23 Moore Street
Ref No.	17	81

	Confirmed Asbestos	Presumed/Strongly presumed ACM Or Non Accessed Area	(
V	NAD = No asbestos detected AIB = Asbestos insulation board	AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantifiable SM = Square Meters	LIM = Linear Meters

k	wor		mm	h	ere the period between survey	ted and interim management	(
Risk	Very Low	Low	Medium	High	and demolition surveys but, who	ial assessment should be conducted and	
Material Assessment Score	<u>&lt;</u> 4	9-9	7-9	> 10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	and the event is significant, e.g. more than 3 months, then a material assess	irrangements put in place.



## **ABOUT SAFETY LTD.**

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## **Refurbishment & Demolition Asbestos Survey**

Location:

No. 20-21 Moore Street

Dublin 1

Client:

Dublin Central GP Ltd

**Instructing Party:** Certo Management Services

**Survey Date:** 

October, 2020

Prepared by:

John Kelleher, About Safety Ltd.

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## **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
9, 17	Red and black asbestos containing slates to the roofs of No. 20 and 21 with the exception of the inside pitch of No. 21 which has natural quarry slates. Slate debris from the damaged roof on the floor.
10	Asbestos containing black Bakelite cistern in a WC on the 1st floor.
12	Asbestos containing adhesive to vinyl floors under the raised floor in the big room on the $1^{\rm st}$ floor.
16	Grey asbestos containing thread nosings to the stairway between the $1^{\text{st}}$ and $2^{\text{nd}}$ floors.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
6, 7, 13	Various roofs over the supermarket including the canopy are presumed to contain asbestos.
8, 20	Lead sealed cast-iron pipe collars are presumed to contain asbestos woven rope packing.
21	Integral areas of the wall mounted safe and the electric storage heater on the 1st floor are presumed to contain asbestos.

#### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

20-21 Moore Street

Dublin 1

Report Author:

**About Safety Limited** 

24 Oceancrest

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

### Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

## **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

## Scope of Works & Site Description

General	Scope of Works:	Proposed demolition
Information	Structural Details:	Original 3 storey building of solid construction with pitched roofs. Brick facades. Extension to rear over supermarket.
	Date of Construction:	Not known.
External	Roofs:	Pitched roofs with slates to front pitched roofs with metal sheeting
Aspects:		and flat roof with roofing felt to back of main building.
	Walls	Brick with lime plaster
Yes downson T	Ceilings	Plasterboard and original lat and plaster.
Internal Aspects:	Floors	Timber floors on 1st and 2nd floors.
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	The back overclad roofs were not accessible.

## **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

## Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

#### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

#### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### Specific Notes

#### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

## Appendix A - Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### 20-21 Moore Street Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
S01	2029208	Stairway	Grey thread nosings	Chrysotile
S02	2029209	1st floor under raised floor	Grey VFT	NADIS
S03	2029210	1st floor under raised floor	Grey VFT adhesive	Chrysotile
S04	2029211	2 <sup>nd</sup> floor	Red lino and felt	NADIS
S05	2029212	2 <sup>nd</sup> floor	Red lino and felt	NADIS
S06	2029213	2 <sup>nd</sup> floor	Slate debris from roof	Chrysotile

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B - Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	No visible asbestos containing materials identified	No visible asbestos containing materials identified	No visible asbestos containing materials identified
Extent				
Material Description , surface treatment and condition				
Sample No.				
Location or Functional Space	Ground floor Supermarket	Ground floor Supermarket	Ground floor Supermarket	Ground floor Supermarket
Building or Area of Site	No. 20/21 Moore Street	No. 20/21 Moore Street	No. 20/21 Moore Street	No. 20/21 Moore Street
Ref No.	-	7	е п	4

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	≥4	Very Low
AIB = Asbestos insulation board	•	5-6	Low
AC = Asbestos cement		7-9	Medium
VFT = vinyl floor tile	Presumed/Strongly presumed ACM	>10	High
NQ = Not Quantified/Quantifiable SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	t and demolition surveys but, where the period between surverial assessment should be conducted and interim manageme
LM = Linear Meters	(	arrangements put in place.	

Photo				
Recommendations		Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified	Presumed asbestos	Presumed	Presumed asbestos woven rope packing.
Extent				
Material Description , surface treatment and condition		No access to ceiling void	Substrate roofing felts	Lead sealed cast-iron collars to downpipes
Sample No.				
Location or Functional Space	Ground floor Supermarket Back service alley	Supermarket Centre pitched roof roof	Supermarket Centre flat roof roof	Rear façade to main building
Building or Area of Site	No. 20/21 Moore Street	No. 20/21 Moore Street	No. 20/21 Moore Street	No. 20/21 Moore Street
Ref No.	w	9	1	<b>∞</b>

Key		Material Assessment Score	Risk	
NAD = No asbestos detected	Confirmed Asbestos	4≥	Very Low	
ALB = Asbestos insulation board		5-6	Low	
AC = Asbestos cement		7 - 9	Medium	
VFI = Vinyl   Hoof   He	Presumed/Strongly presumed ACM	>10	High	
SM = Souare Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishme	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	
I.M = Linear Meters		and the event is significant, e.g. more than 3 months, then a material assessment should be conducted an	erial assessment should be conducted and interim management	
		arrangements out in place.		

Photo				
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.		Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.
Material assessment score	4	3		7
Asbestos type	_	2		-
Surface treatment	-1	0		•
Condition		e		0
Product type	1	1		-
Asbestos identified (presumed, strongly presumed or identified)	Chrysotile	Amosite	No visible asbestos containing materials identified	Chrysotile
Extent	approx.			60 SM approx.
Material Description , surface treatment and condition	Slates to main roofs. Black slates on No. 21 and red slates on No. 22.	Black Bakelite cistern	Ceramic cistern.	Adhesive to VFT under raised floor in big room
Sample No.				2029209 2029210
Location or Functional Space	1st floor	1st floor WC 1	1st floor WC 2	14 Noor
Building or Area of Site	No. 20/21 Moore Street	No. 20/21 Moore Street	No. 20/21 Moore Street	No. 20/21 Moore Street
Ref No.	6	10	11	12

Material Assessment Score	Confirmed Asbestos	2.6	7-9	resumed/Strongly presumed ACM	Or Non Accessed Area  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant. e.g. more than 3 months, then a material assessment should be conducted and interim management	arrangements put in place.
Risk	Very Low	Low	Medium	High	furbishment and demolition surveys but, where the then a material assessment should be conducted an	(

Photo				
Recommendations	Investigation by a competent contractor prior to work likely to cause disturbance.			Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.
Material assessment score				7
Asbestos type				_
Surface treatment	TO THE P			0
Condition				0
Product type				-
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos felts	No visible asbestos containing materials identified	No visible asbestos containing materials identified	Chrysotile
Extent				16 steps
Material Description , surface treatment and condition	Roof canopy	Box storage heater		Grey threads to stairway
Sample No.				2029208
Location or Functional Space	14 floor	14 floor	1st floor	Stairway
Building or Area of Site	No. 20/21 Moore Street	No. 20/21 Moore Street	No. 20/21 Moore Street	No. 20/21 Moore Street
Ref No.	13	41	15	16

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7-9 Medium	≥ 10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g., more than 3 months, then a material assessment should be conducted and interim management	rrangements put in place.
	Confirmed Ashestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	
Key	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VFI = vinyl floor tile	NQ = Not Quantined/Quantinable SM = Square Meters	LM = Linear Meters

a Ti

Photo				
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.			Investigation by a competent contractor prior to work likely to cause disturbance
Material assessment score	w			
Asbestos type	-			
Surface treatment	-			A CONTRACTOR OF THE PARTY OF TH
Condition	7			
Product type	-			
Asbestos identified (presumed, strongly presumed or identified)	Chrysotile	NAD	No visible asbestos containing materials identified	Presumed asbestos woven rope packing.
Extent				
Material Description , surface treatment and condition	Roof slate debris on floor	Red lin0 and felt backing under floor coverings	Original lat and plaster ceilings.	Lead sealed cast-iron collars to downpipes
Sample No.	2029213	2029211		
Location or Functional Space	2nd floor	2nd floor Room flooring,	2nd floor Ceiling s	2nd floor
Building or Area of Site	No. 20/21 Moore Street	No. 20/21 Moore Street	No. 20/21 Moore Street	No. 20/21 Moore Street
Ref No.	17	18	19	20

Key NAD = No asbestos detected AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters
---

Photo	
Recommendations	Dismantling and investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment store	
Asbestos type	
Surface treatment	
Product type Condition	
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos
Extent	
Material Description , surface treatment and condition	Integral areas of the storage heater and the wall mounted safe
Sample No.	
Location or Functional Space	14 floor
Building or Area of Site	No. 20/21 Moore Street
Ref No.	21

Risk	Very Low	Low	Medium	High	to condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is cionificant, or more than 3 months, then a material assessment should be conducted and interim management.	600
Material Assessment Score	54	5-6	7 - 9	> 10	No condition assessment is normally necessary for refurbishment and demol and the event is significant to a more than 3 months, then a material assessm	arrangements put in place,
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	
Key	NAD = No asbestos detected	AIB = Aspestos insulation board	AC = Aspestos cement	VFI = VIRYI 10067 Lise NO = Not Ouentified/Ouentifiethle	SM = Square Meters	LM = Linear Meters



## **ABOUT SAFETY LTD.**

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# **Refurbishment & Demolition Asbestos Survey**

Location: No. 36 Henry Street (Apple Shop)

(includes No. 3 Henry Place)

Dublin 1

Client: Dublin Central GP Ltd

**Instructing Party:** Certo Management Services

Survey Date: October, 2020

Prepared by: John Kelleher, About Safety Ltd.

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## **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos
	[Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
3, 4, 5	Orange asbestos containing vinyl floor tile and adhesive to the basement floors.  Good condition and intact. 80 square meters approximately.
23	Asbestos containing adhesive identified under the carpet on the 1st floor landing. Extent not determined.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
6	Integral areas of fireproof filing cabinets are presumed to contain asbestos.
21, 22, 24, 25, 26, 27	Asbestos containing adhesive presumed under the existing fixed carpets and flooring in No. 3 Henry Place, upper floors.
28	The orange vinyl floor tile and adhesive under the carpet in the office is strongly presumed to contain asbestos (areas occupied).

#### Names and Addresses

**Client Name:** 

Dublin Central GP Ltd

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

No. 36 Henry Street

**Dublin 1** 

**Report Author:** 

**About Safety Limited** 

24 Oceancrest

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

#### Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

## **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

## Scope of Works & Site Description

General	Scope of Works:	Proposed structural alterations, refurbishment and/or demolition.
Information	Structural Details:	4 storey over basement retail outlet of brick construction with flat roof.
	Date of Construction:	Not known
External	Roofs:	Flat roofs
Aspects:		
	Walls	Original walls with lime plaster render.
	Ceilings	Plasterboard and lat and plaster
Internal Aspects:	Floors	Concrete on ground floor and basement. Timber in upper areas. Concrete floors in No. 3 Henry Place.
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	Roofs.
		Occupied areas were not disturbed.

## Survey Limitations

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

## Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

### **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

### **Competent Person**

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

# Appendix A - Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 36 Henry Street Dublin 1

#### TEST RESULT

			CEI	
SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
S01	2029214	1st floor back room fire place - hearth	Black VFT and Evode	NADIS
S02	2029215	Basement stairway	Grey lino	NADIS
S03	2029216	Basement floor	Orange VFT	Chrysotile
S04	2029217	Basement floor	Orange VFT adhesive	Chrysotile
S05	2029218	Service Department stairway	Adhesive under carpet	Chrysotile

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher



Appendix B - Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations			Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.
Material assessment score			7	7
Asbestos type			_	_
Surface treatment			•	0
Condition			•	0
Product type			-	-
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	NAD	Chrysotile	Chrysotile
Extent			30 SM approx.	10 SM approx.
Material Description , surface treatment and condition	·	Grey lino	Orange VFT and adhesive. Intact	Orange VFT and adhesive. Intact
Sample No.		2029215		
Location or Functional Space	Ground floor Shop retail areas.	Basement	Basement Office	Basement corridor
Building or Area of Site	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street
Ref No.	-	7	ю	4

ore Risk	Very Low	Low	Medium	High	o condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surv	and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim mana	
Material Assessment Score	<u>≤4</u>	9-9	6-1	> 10	No condition assessment is normally necess	and the event is significant, e.g. more than	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area		(
Key	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VFT = vinyt floor tile	NQ = Not Quantified/Quantifiable	II — Square Meters	LM = Linear Meters

Photo	DIFFERENCE			
Recommendations	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.		
Material assessment score	7			
Asbestos type	-			
Surface treatment	•			
Condition	•			
Product type	-			
Asbestos identified (presumed, strongly presumed or identified)	Chrysotile	Presumed to contain asbestos	NAD	No visible asbestos containing materials identified.
Extent	40 SM approx.			
Material Description , surface treatment and condition	Orange VFT and adhesive	Integral areas of fireproof cabinets.	Black files on hearth	Modern drop ceiling with lay-in ceiling tiles over drop ceilings.
Sample No.	2029216 2029217		2029214	
Location or Functional Space	Basement	Basement	1st floor	2nd floor Front room
Building or Area of Site	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street
Ref No.	vo	9	7	<b>∞</b>

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	< 4	Very Low
AIB = Aspestos insulation poard		5-6	Low
AC = Asbestos cement		7-9	Medium
VFI = VIII) HOOF LIE  NO - Not Overtified/Overtifiekle	Presumed/Strongly presumed ACM	>10	High
SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between surveys and the event is storificant a common than 3 months then a material assessment should be conducted and interim management	nt and demolition surveys but, where the period between survey fortal accessment should be conducted and interim management
LM = Linear Meters		arrangements put in place,	ter an assessment should be conducted and meeting management

Photo			200	
Recommendations	9			
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified,
Extent				
Material Description , surface treatment and condition	Modern drop ceiling with lay-in ceiling tiles over drop ceilings.			
Sample No.				
Location or Functional Space	2nd floor Backroom	3rd floor Front room	3rd floor Gents WC	3rd floor Ladies WC
Building or Area of Site	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street
Ref No.	6	01	11	12

Presumed/Strongly presumed ACM Or Non Accessed Area and the event	arrangeme
Material Assessment Score  ≤ 4  5 - 6  7 - 9  No condition assessment is normally necessary for refurbishment and the event is significant, e.g. more than 3 months, then a material as	ents put in place.
Material Assessment Score  ≤4  5-6  7-9  Medium  ≥10  High  o condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	

. =

Photo				
Recommendations				
Material assessment score				
Asbestes type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	·			
Sample No.				
Location or Functional Space	4 <sup>th</sup> floor Kitchen	4th floor Front room	4th floor Store room	4th floor Storage tank.
Building or Area of Site	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street
Ref No.	13	14	15	16

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7-9 Medium	≥10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	s put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area No condi	arrangen
Key	NAD = No aspestos detected	A1B = Aspestos insulation board	AC = Asbestos cement	NO = Not Occurring Allo	SM = Square Meters LM = Linear Meters	

Photo	A. C.			Story Control of the
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition	Laminate Nooring	Rear door block up.	Concrete floor under lino	Modern electrical panels
Sample No.				
Location or Functional Space	Ground floor No. 3 Henry Place	Ground floor No. 3 Henry Place	Ground floor No. 3 Henry Place	Ground floor No. 3 Henry Place
Building or Area of Site	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street
No.	17	18	19	20

Risk	Very Low	Low	Medium	High	slition surveys but, where the period between survenent should be conducted and interim management	
Material Assessment Score	<u>≤</u> 4	9-9	7-9	>10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim manag	arrangements put in place.
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	(
Key	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VFT = vinyl floor file	NQ = Not Quantined/Quantinable SM = Square Meters	LM = Linear Meters

Photo				
Recommendations	Investigation and sampling prior to work likely to cause disturbance.	Investigation and sampling prior to work likely to cause disturbance.	Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Investigation and sampling prior to work likely to cause disturbance.
Material assessment score			7	
Asbestos type			qual .	
Surface treatment			•	
Condition			•	
Product type			-	
Asbestos identified (presumed, strongly presumed or identified)	Presumed asbestos	Presumed asbestos	Chrysotile	Presumed asbestos
Extent				
Material Description , surface treatment and condition	Adhesive under floor coverings	VFT and/or adhesive under floor coverings.	Adhesive under carpet	VFT and/or adhesive under floor coverings.
Sample No.			2029218	
Location or Functional Space	No. 3 Henry Place Stairway to I* floor.	No. 3 Henry Place 1* floor	No. 3 Henry Place Stairway landing	No. 3 Henry Place 1st floor WC
Building or Area of Site	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street
Ref No.	21	22	23	24

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7-9 Medium	≥10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	arrangements put in place.
Confirmed Asbestos				Presumed/Strongly presumed ACM	Or Non Accessed Area	
Key	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Aspestos cement	NO = Not Ougatified/Ougatifieble	SM = Square Meters	LIM = Linear Meters

Photo				
Recommendations	Investigation and sampling prior to work likely to cause disturbance.	Investigation and sampling prior to work likely to cause disturbance.	Investigation and sampling prior to work likely to cause disturbance.	Investigation and sampling prior to work likely to cause disturbance.
Material assessment score				
Asbestos type				
Surface treatment	TE STREET			
Condition				
Product type	de Verence de la Company			
Asbestos identified (presumed, strongly presumed or identified)	Presumed asbestos	Presumed aspestos	Presumed asbestos	Strongly presumed asbestos.
Extent				
Material Description , surface treatment and condition	VFT and/or adhesive under floor coverings.	VFT and/or adhesive under floor coverings.	VFT and/or adhesive under floor coverings.	Orange VFT
Sample No.				
Location or Functional Space	No. 3 Henry Place Stairway to 2 <sup>nd</sup> floor. (occupied)	No. 3 Henry Place Store room 2 <sup>nd</sup> floor.	2nd Floor No. 3 Henry Place (occupied)	No. 3 Henry Place 2 <sup>nd</sup> floor Office (occupied)
Building or Area of Site	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street	No. 36 Henry Street
Ref No.	25	26	27	28

Kev		Material Assessment Score	Rick
		The contract of the contract o	
NAD = No asbestos detected	Confirmed Asbestos	<u>\$4</u>	Very Low
AIB = Asbestos insulation board		5-6	Low
AC = Asbestos cement		6 ° L	Medium
VFI = vinyl 110or tile	Presumed/Strongly presumed ACM	> 10	High
SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between sur and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim managen	tt and demolition surveys but, where the period between sur erial assessment should be conducted and interim managen
LM = Linear Meters		arrangements put in place.	

urvey



## **ABOUT SAFETY LTD.**

ASBESTOS | LEAD BASED PAINT | MOULD | SILICA DUST | HAZMAT SURVEYING & TESTING RISK MANAGEMENT | PROJECT MANAGEMENT

# **Refurbishment & Demolition Asbestos Survey**

Location:

6 Moore Street

Dublin

**Client:** 

**Dublin Central GP Ltd** 

**Instructing Party:** Certo Management Services

**Survey Date:** 

14th October 2020

Prepared by:

John Kelleher, About Safety Ltd.

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out for the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to works likely to cause disturbance]
	No asbestos containing materials found.

Ref:	Presumed/Strongly Presumed Asbestos & Non-Accessed Areas [Requires investigation by a competent contractor prior to works likely to cause disturbance]
14	Immersion flange gasket to the 1 <sup>st</sup> floor toilet is presumed to contain asbestos. further inspection is required by a competent contractor prior to disposal.
21	Internal linings of the Chubb safe to the ground floor stairway to basement areas is presumed to contain asbestos. further inspection is required by a competent contractor prior to disposal.
24, 25	Some basement areas were inaccessible during the inspection.

### Names and Addresses

Client Name:

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Contact:

Peter Mcllhagger

Phone: Phone:

Site Full Name: 6 Moore Street Dublin Report Author:
About Safety Limited
24 Oceancrest
Arklow
Co. Wicklow

Contact: John Kelleher Phone: 086 2208488

Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

# Scope of Works & Site Description

General	Scope of Works:	Planned demolition of part of the above dwelling.
Information	Date of Construction:	Not known
External	Roofs:	Flat roofs
Aspects:	Extensions:	Not known
	Other:	
Internal	Walls:	Plasterboard
Aspects:	Ceilings:	Drop ceiling with lay-in ceilings in areas.
	Floors:	Concrete on ground floor and timber on upper floors
	Insulation:	
Services:	M&E:	
Reservations:	Access restrictions:	Roofs were not accessible. Small lock up outlets were trading and not accessible.

### **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

### Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

### Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

Product Type

- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

### **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

### **Specific Notes**

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or

employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Guidelines on Working with Materials Containing Asbestos Cement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

# Appendix A – Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### 6 Moore Street Dublin

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
		No samples taken		

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@eircom.net About Safety Ltd. Registered in Ireland: No. 422820

Photo	No photo taken			
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition				
Sample No.				
Location or Functional Space	Front of shop Trading	Lycamobile ground floor Back of shop	Basement store rooms	Basement
Building	No. 6 Moore Street	No. 6 Moore Street	No. 6 Moore Street	No. 6 Moore Street
Ref No.		2	ю	4

	Material Assessment Score	≥4	5-6	7 - 9	≥10	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between s	and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interii	ements put in place.
<b>7</b> 25 3		Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	and the e	arrangen

Photo					Risk	Very Low	Low	Medium	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
Surface treatment Asbestos type Material assessment score  Reo					l Assessment Score		5.6	7-9	is normally necessary for refurbishment and den int, e.g. more than 3 months, then a material asse ce,
Asbestos identified (presumed, strongly presumed or identified)	No visible containing materials identified	No visible containing materials identified	No visible containing materials identified	No visible containing materials identified	Material				No condition assessment is and the event is significant arrangements put in place.
Sample surface Extent No. and condition	Ceramic tiles in corridor	Plasterboard ceiling tiles in drop ceilings	•	Occupied outlets		Confirmed Asbestos		resumed/Strongly presumed ACM	Or Non Accessed Area
Location or Sa Functional Space	Ground floor (outlets occupied)	Ground floor	Ceiling void	Ground floor back of shop		detected	d Area		Quantifiable
Ref Building	No. 6 Moore Street	No. 6 Moore Street 6	No. 6 Moore Street	No. 6 Moore Street	Kev	NAD = No asbestos detected	NAA = Non Accessed Area	AIB = Asbestos insulation board   AC = Asbestos cement	VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters

	A STATE OF THE STA								à:	빔
Photo					Risk	Very Low	Low	Medium	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	uld be conducted and interim manageme
Recommendations									r refurbishment and demolition sur	ths, then a material assessment sho
Material assessment score					Material Assessment Score				cessary fo	an 3 mon
Asbestos type					men				ılly ne	ore th
Surface treatment					sses	۸ 4	9-5	6-7	> 10 norma	e.g. n
Condition					rial A				ent is	ficant, place.
Product type					Tater				sessm	signin
Asbestos identified (presumed, strongly presumed or identified)	No visible containing materials identified	No visible containing materials identified	No visible containing materials identified	No visible containing materials identified	4				No condition as	and the event is significant, arrangements put in place.
Extent								But 1		
Material Description , surface treatment and condition	Original ceilings	Timber floorboards througbout				Confirmed Asbestos			rresumed/Strongly presumed ACM Or Non Accessed Area	(
Sample No.						Co		D	Or N	
Location or Functional Space	1 <sup>st</sup> floor	1st floor	1st floor front room	room		cted	rea	JII DOBLU	uantifiable	
Building	6 Moore Street	6 Moore Street	6 Moore Street	Street		NAD = No asbestos detected $NAA = Non$	NAA = Non Accessed Area ATR = Ashestos insulation board	ALD - ASDESTOS IIISUIATRO AC = Asbestos cement	VFT = vinyl floor tile NQ = Not Quantified/Quantifiable	SM = Square Meters
Ref No.		10		12	Key	AD=	44 = 74 =	_ = 3 C = ₹	FT = 0	A = A

							Ţ		ië vë
Photo		20 1			Risk	Very Low	Low	Medium	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place,
Recommendations		Further inspection is required by a competent contractor prior to disposal.							or refurbishment and demolition sur nths, then a material assessment sho
Material assessment score		T # 0			Assessment Score				essary f
Asbestos type					ment				lly nec
Surface treatment					ssess	> 4	9-5	> 10	norma e.g. m
Condition					rial A				ent is ficant, place.
Product type					Material			Н	ssessn s signi put in
Asbestos identified (presumed, strongly presumed or identified)	No visible containing materials identified	Presumed asbestos	No visible containing materials identified	No visible containing materials identified					No condition assessment is and the event is significant, arrangements put in place.
Extent						S		ned ACM	Ra
Material Description , surface treatment and condition		Immersion flange gasket				Confirmed Asbestos		Presumed/Strongly presumed ACM	Or Non Accessed Area
Sample No.						ప		Presumed	50
Location or Functional Space	1st floor toilet	1st floor toilet	Stairway to 2nd floor	2nd floor stairway		tected	Area ion board		<b>Juantifiable</b>
Building	6 Moore Street	6 Moore Street	6 Moore Street	6 Moore Street		NAD = No asbestos detected	INAA = Mon Accessed Afea AIR = Asbestos insulation board	AC = Asbestos cement VFT = vinyl floor tile	NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters
Ref.	13	14	15	16	Key	QV :	NAA AIR	AC =	NO = SM = LM =

	- Anna Marie Control								rey ent	
Photo					Risk	Very Low	Low	Medium	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	(
Recommendations									or refurbishment and demolition su	
Material assessment score					Material Assessment Score				ssary fo	
Ashesial esessent					nent (				y nece	
Surface treatment					sessn	₹ <	9-5	7-9	g. mo	0
Condition					I As				t is no ant, e.	ace.
Product type					ateria				ssmen	t in pl
Asbestos identified (presumed, strongly presumed or identified)	No visible containing materials identified	M				No condition asse and the event is si	arrangements put in place.			
Extent						<b>10</b>		od ACM	ea ea	,
Material Description , surface treatment and condition						Confirmed Asbestos	ŀ	Stronoly presum	Or Non Accessed Area	(
Sample No.						S S		Presumed/	Or	
Location or Functional Space	2nd floor front room	2nd floor corridor	2nd floor front room ceiling	2nd floor		ected	on board		uantifiable	
Building	6 Moore Street	6 Moore Street	6 Moore Street	6 Moore Street		NAD = No asbestos detected	NAA = Non Accessed Area AIB = Ashestos insulation hoard	AC = Asbestos cement	VFT = vinyl floor tile NQ = Not Quantified/Quantifiable	SM = Square Meters
Ref No.	17	<b>2</b>	61	20	Key	QV.	AA H	C	E 0	I W

		AND ASSESSMENT				_	Complete Com
Photo	0-12				Risk Very Low	Low	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
Recommendations	Further inspection is required by a competent contractor prior to disposal.			Investigation by a competent contractor prior to works likely to cause disturbance	a		for refurbishment and demolition sur onths, then a material assessment sho
Material assessment score					Assessment Score		essary an 3 m
Asbestos type					ment		illy nec
Surface treatment					ssess < 4	5-6	> 10 norma e.g. m
Condition					rial A		ent is ficant, place.
Product type					Material		sessm signi
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos linings	No visible containing materials identified	No visible containing materials identified	Presumed to contain asbestos	~		No condition assessment is and the event is significant arrangements put in place
Extent					SO		ned ACM
Material Description , surface treatment and condition	Old Chubb safe		Concrete walls and ceiling	Inaccessible	Confirmed Asbestos		Presumed/Strongly presumed ACM Or Non Accessed Area
Sample No.					Col		Presumed/.
Location or Functional Space	Ground floor stairway to basement	Basement stairway	Вазетеп	Basement back room	xted	on board	uantifiable
Building	6 Moore Street	6 Moore Street	6 Moore Street	6 Moore Street	Key NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asuestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters I M = I incor Motors
Ref No.	21	22	23	24	Key NAD	AIB	VFT = NQ = I

Photo	
Recommendations	Investigation by a competent contractor prior to works likely to cause disturbance
Material assessment score	
Asbestos type	15.00
Surface treatment	PER KALLATSA
Condition	
Product type	
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos
Extent	
Material Description , surface treatment and condition	Inaccessible
Sample No.	
Location or Functional Space	Basement back room
Building	6 Moore Street
Ref No.	25

NAD = No asbestos detected  NAA = Non Accessed Area  AIB = Asbestos insulation board  AC = Asbestos cement  VFT = vinyl floor tile  NO endition assessment  Or Non Accessed Area  and the event is significable  SM = Square Meters	Material Assessment Score  ≤4  5-6  T-9  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between s arrangements put in place.	s is
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## **ABOUT SAFETY LTD.**

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# **Refurbishment & Demolition Asbestos Survey**

Location:

No. 7 Moore Street

Dublin 1

**Client:** 

Dublin Central GP Ltd

**Instructing** 

Certo Management Services

Party:

**Survey Date:** 

October, 2020

Prepared by:

John Kelleher, About Safety Ltd.

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
	No asbestos containing materials found

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]			
13	The flat roof was not accessible and is presumed to contain asbestos substrate roofing felt.			

### Names and Addresses

Client Name:

**Dublin Central GP Ltd** 

**Instructing Party:** 

Certo Management Services

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

No. 7 Moore Street

Dublin 1

Report Author:

**About Safety Limited** 

24 Oceancrest

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

### Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

### **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

### Scope of Works & Site Description

Structural Details:	3 storey over basement brick building of solid construction with flat roof.
ate of Construction:	Not known
Roofs:	Flat roofs
Walls	Original walls with retail areas partitioned off.
Ceilings	Original ceilings in the upper floors.
Floors	Timber in the upper floors.
Heating Systems:	n/a
Access restrictions:	Ground floor retail areas were occupied and trading at the time of the inspection.  Roofs were not accessible.
	Walls Ceilings Floors Heating Systems:

### **Survey Limitations**

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

### Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

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About Safety Ltd. Registered in Ireland: No. 422820

## Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

## Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

## Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

# Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

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#### Appendix A - Asbestos Bulk Identification Report

### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 7 Moore Street Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
		No samples taken		

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher



Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
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Photo	No photo taken			
Recommendations				
Material assessment score				
Asbestos type	_			
Surface treatment				
Condition	_			
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	NAD	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition			Red lino	
Sample No.				
Location or Functional Space	Ground floor areas Retail areas trading at time of visit.	Stairway to 1st floor	1st floor landing	1st floor Kitchen
Building or Area of Site	No. 7 Moore Street	No. 7 Moore Street	No. 7 Moore Street	No. 7 Moore Street
Ref No.	1	7	m	4

Material Assessment Score  ≤4  ≤4  Low  Low  7-9  No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between aurangements put in place.
Risk Very Low Low Low Medium High and demolition surveys but, where the period betwee
n su

e H

Photo		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Recommendations				
score				
Asbestos type Material assessment				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition			Polystyrene over lat and plaster ceilng	
Sample No.				
Location or Functional Space	1" floor WC	14 floor Front room	14 floor Front room	14 floor Back rooms
Building or Area of Site	No. 7 Moore Street	No. 7 Moore Street	No. 7 Moore Street	No. 7 Moore Street
Ref No.	S.	9	7	∞

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7-9 Medium	M E10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.
	Confirmed Ashestos			Presumed/Strongly presumed ACM	Or Non Accessed Area
	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	$VF_{\perp} = V_{\parallel} V$	NQ = Not Quanting Quanting SM = Square Meters LM = Linear Meters

Photo				
Recommendations				
Score				
Asbestos type Material assessment				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.			
Extent				
Material Description , surface treatment and condition	Guano from stairway to upper floors	·		
Sample No.				
Location or Functional Space	Stairway to 2nd floor	2nd floor Rooms and areas	2nd floor Rooms and areas	2nd floor Rooms and areas
Building or Area of Site	No. 7 Moore Street	No. 7 Moore Street	No. 7 Moore Street	No. 7 Moore Street
Ref. No.	6	01	=	12

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7-9 Medium	≥ 10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management	ancements but in place
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	(
Key	NAD = No asbestos detected	AIB = Aspestos insulation board	AC = Asbestos cement	NO - Not Occasional	SM = Square Meters	LM = Linear Meters

Photo	
Recommendations	Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score	7
Asbestos type	
Surface treatment	
Condition	
Product type	
Asbestos identified (presumed, strongly presumed or identified)	Presumed to contain asbestos roofing felts.
Extent	
Material Description , surface treatment and condition	No access to flat roof.
Sample No.	
Location or Functional Space	2nd floor Roof hatch
Building or Area of Site	No. 7 Moore Street
Ref No.	13

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	< <	Very Low
AIB = Aspestos insulation board		5-6	Low
AC = Asbestos cement		7-9	Medium
VF1 = Vinyl 1600 fills	Presumed/Strongly presumed ACM	> 10	High
SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey	and demolition surveys but, where the period between survey
I.M = Linear Meters		and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim in	Trai assessment should be conducted and interim management
		arrangements put in place.	



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# **Refurbishment & Demolition Asbestos Survey**

Location: 24-25 Moore Street & 14 Moore Lane

Dublin 1

Client: Dublin Central GP Ltd

Instructing

Party:

Certo Management Services

Survey Date: 21<sup>st</sup> October, 2020

Prepared by: John Kelleher, About Safety Ltd.

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
19	Asbestos containing sheeting sections over the old brick wall next to No. 23.  Presumed to be from an original asbestos sheeted roof on the site.

Ref:	Presumed/Strongly Presumed Asbestos [Requires dismantling and investigation by a competent asbestos contractor prior to work likely to cause disturbance.]
20	Asbestos containing cement sheeting debris is presumed under the car park hard stand as a consequence of a corrugated roof being present previously.  May have been used as aggregate in the foundation.

### Names and Addresses

**Client Name:** 

**Dublin Central GP Ltd** 

**Instructing Party:** 

**Certo Management Services** 

Contact:

Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

No. 24/25 Moore Street & 14 Moore Lane Dublin 1

**Report Author:** 

**About Safety Limited** 

24 Oceancrest

Arklow

Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

## Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

S301: Asbestos and other Fibres

P401: Identification of Asbestos in Bulk Samples (PLM)

P402: Building Surveys and Bulk Sampling for Asbestos

P403: Asbestos Fibre Counting

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

## Objectives

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

## Scope of Works & Site Description

Scope of Works:	Proposed demolition
Structural Details:	3 storey building of solid concrete construction with pitched roof.
Date of Construction:	Circa 1980's.
Roofs:	Man made mineral fibre slates to roof.
Walls	Concrete block
Ceilings	Plasterboard
Floors	Concrete with ceramic tiles and carpet generally.
Heating Systems:	
Access restrictions:	The main roof was not accessed.  Miscellaneous store rooms were not accessible.
	Structural Details:  Date of Construction:  Roofs:  Walls Ceilings Floors  Heating Systems:

## Survey Limitations

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

## Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

## Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

## Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### General Caveat

This report is based on a Refurbishment & Demolition survey of an occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

## Specific Notes

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

# Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

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# Appendix A – Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 24-25 Moore Street Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB, REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
S01	2029501	Attic	Slate on floor	NADIS
S02	2029502	Roof	Slate at Velux window	NADIS

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

vi i – vinyi riooi i ne

Analyst: John Kelleher

Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations				
Material assessment score				
odył sorsodsy				
Surface treatment				
Condition				
Product type				
Asbestos identificd (presumed, strongly presumed or identified)	NAD	NAD	No visible asbestos containing materials identified.	NAD
Extent				
Material Description , surface treatment and condition	Slates on main roof	Slates on attic floor	MMMF insulation between joists	Roof slate under Velux window
Sample No.	2029501	202950		
Location or Functional Space	Roof	Attic floor	Affic	Attic
Building or Area of Site	No. 24/25 Moore Street	No. 24/25 Moore Street	No. 24/25 Moore Street	No. 24/25 Moore Street
Ref No.		7	6	4

eriod between survey interim management

Photo		S	A STATE OF THE STA	
Recommendations				
SCOTE				
Material assessment				
Surface treatment Asbestos type				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition				Ceramic tiles to floors
Sample No.				
Location or Functional Space	Ground floor Store room	Ground floor Store room WC	Garage	Ground floor
Building or Area of Site	No. 24/25 Moore Street	No. 24/25 Moore Street	No. 24/25 Moore Street	No. 24/25 Moore Street
Ref No.	w	9	7	∞

	Onfirmed Asbestos S4 Very Low	Insulation Doard	7-9 Medium	Presun	Or Non Accessed Area	arrangements put in place.
Key	NAD = No asbestos detected	AIB = Aspestos insulation board	AC = Asbestos cement	VFI = VIMYI 1100F UIE NO = Not Quantified/Quantifieklo	NQ = Not Quantilled/Quantillable SM = Square Meters	LM = Linear Meters

Photo	TO MAN TO SERVICE OF THE PARTY			
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition				
Sample No.				
Location or Functional Space	Ground floor Hallway	1st floor Canteen	1st floor Canteen Kitchen	1" floor Office
Building or Area of Site	No. 24/25 Moore Street	No. 24/25 Moore Street	No. 24/25 Moore Street	No. 24/25 Moore Street
Ref No.	6	01	11	12

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	> ₹	Very Low
AIB = Asbestos insulation board		9-9	Low
AC = Asbestos cement		7-9	Medium
VFI = VIDYI 1100F THE	Presumed/Strongly presumed ACM	≥10	High
SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between su and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim manager	t and demolition surveys but, where the period between su rrial assessment should be conducted and interim manager
LM = Linear Meters		arrangements put in place.	

urvey

Photo				
Recommendations				
SCOTE				
Material assessment				
Surface treatment Asbestos type				
Condition Condition				
Product type				
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.
Extent				
Material Description , surface treatment and condition				
Sample No.				
Location or Functional Space	14 Noor Store rooms	1⁴ floor Ladies WC	2 <sup>nd</sup> floor Inspectors office	2 <sup>nd</sup> floor WC
Building or Area of Site	No. 24/25 Moore Street	No. 24/25 Moore Street	No. 24/25 Moore Street	No. 24/25 Moore Street
Ref No.	13	14	15	16

Material Assessment Score Risk	≤4 Very Low	5-6 Low	7-9 Medium	≥ 10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.	
Confirmed Asbestos Presumed/Strongly presumed ACM Or Non Accessed Area						
Key NAD = No asbestos detected AIB = Asbestos insulation board AC = Asbestos cement VFT = vinyl floor tile NQ = Not Quantified/Quantifiable SM = Square Meters LM = Linear Meters						

Photo				
Recommendations			Removal and disposal as asbestos waste by a competent contractor prior to work likely to cause disturbance.	Investigation by a competent contractor prior to work likely to cause disturbance.
Material assessment score			w	
Asbestos type			- 6	
Surface treatment			_	
Condition			7	
Product type			-	
Asbestos identified (presumed, strongly presumed or identified)	No visible asbestos containing materials identified.	No visible asbestos containing materials identified.	Crocidolite and/or chrysotile	AC sheeting and/or debris presumed under the hardstand.
Extent			Small amounts	
Material Description , surface treatment and condition			AC corrugated sheeting debris sections over old wall	Under carpark hardstand
Sample No.				
Location or Functional Space	2nd floor Showers	2nd floor Locker room	Party wall	Yard
Building or Area of Site	No. 24/25 Moore Street	No. 24/25 Moore Street	14 Moore Lane Yard	14 Moore Lane Yard
No.	17	18	19	20

Key		Material Assessment Score	Risk
NAD = No asbestos detected	Confirmed Asbestos	<u> </u>	Very Low
AIB = Asbestos insulation board		9-9	Low
AC = Asbestos cement		7-9	Medium
VFI = VID) 1100r UR	Presumed/Strongly presumed ACM	> 10	High
SM = Square Meters	Or Non Accessed Area	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between sur and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim managem	and demolition surveys but, where the period between su terial assessment should be conducted and interim manager
LM = Linear Meters		arrangements put in place,	



# **ABOUT SAFETY LTD.**

ASBESTOS | LEAD BASED PAINT | MOULD | SILICA DUST | HAZMAT SURVEYING & TESTING RISK MANAGEMENT | PROJECT MANAGEMENT

# **Refurbishment & Demolition Asbestos Survey**

Location: 17 Henry Place

Dublin 1

Client: Dublin Central GP Ltd

**Instructing** 

Party:

Certo Management Services

Survey Date: October, 2020

Prepared by: John Kelleher, About Safety Ltd

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# **Executive Summary**

A Refurbishment and Demolition Asbestos Survey was carried out of the above property. Below is a summary of the survey.

Ref:	Confirmed Asbestos [Requires removal and disposal as asbestos waste by a competent asbestos contractor prior to demolition.]
	No asbestos containing materials found.

### Names and Addresses

Client Name:

**Dublin Central GP Ltd** 

**Instructing Party:** 

Certo Management Services

Contact: Phone:

Contact:

Peter Mcllhagger

Phone:

Site Full Name:

No. 17 Henry Place

Dublin 1

Report Author: **About Safety Limited** 24 Oceancrest

Arklow Co. Wicklow

Contact:

John Kelleher

Phone:

086 2208488

## Asbestos Surveyor: John Kelleher

British Occupational Hygiene Society (BOHS) Asbestos Proficiency Certification

Asbestos and other Fibres S301:

P401: Identification of Asbestos in Bulk Samples (PLM) P402: **Building Surveys and Bulk Sampling for Asbestos** 

P403: **Asbestos Fibre Counting** 

P404: Air Sampling and Clearance Testing of Asbestos

P405: Management of Asbestos in Buildings (Safe Removal & Disposal)



#### Introduction

About Safety Ltd. was instructed to carry out a Refurbishment and Demolition Asbestos Survey of the above property. The survey and sampling was carried out taking cognizance of the requirements of the Health and Safety Executive (UK) document, HSG 264, Asbestos: The Survey Guide.

## **Objectives**

The objectives of this survey were to:

To carry out a survey to ascertain the presence of asbestos based materials.

To carry out a survey to locate and describe, as far as reasonably practicable, all asbestos containing materials prior to refurbishment/demolition.

To gain access to all areas, as necessary, to determine the extent of any asbestos that may be present.

To sample and estimate the extent and volume of any asbestos materials that may be present.

To generate asbestos material assessments where the period between the survey and event is significant i.e. more that 3 months.

To produce a report identifying areas containing asbestos to be used as a basis for tendering their removal.

To instigate asbestos removal works prior to refurbishment/demolition.

NB: The extent of asbestos containing materials if identified in this report are only approximate and should not be relied upon as a basis for tendering removal works. Contractors tendering works are expected to satisfy themselves by site visit and measurement the exact nature and extent of any works which is proposed.

## Scope of Works & Site Description

General	Scope of Works:	Proposed demolition
Information	Structural Details: Date of Construction:	Single storey building with flat roof
External Aspects:	Roofs:	Galvanised sheeting
	Walls	Brick walls
	Ceilings	n/a
Internal Aspects:	Floors	Concrete floors
Services:	Heating Systems:	n/a
Reservations:	Access restrictions:	n/a

## Survey Limitations

All areas accessed for proposed refurbishment works were subjected to a survey taking cognisance of the requirements of HSG 264, Asbestos: The Survey Guide. The investigation consisted of an inspection of each room and area to be impacted by the works.

No report has been made on any concealed spaces, which may exist within the fabric of the building where the extent and presence of these is not evident due to inaccessibility, lack of building drawings or insufficient knowledge of the structure of the building at the time of the survey.

Inaccessible Areas: Electrical equipment such as, boiler units, water heaters, storage heaters, fuse or switch boards. Within floor or wall structures, behind wall or ceiling cladding or within blocked up chimneys. Within internal areas of fire doors unless asbestos observed from keyhole or other damaged areas. Care should always be exercised when working on any electrical equipment in particular the older styles as asbestos-containing materials may be present.

## Asbestos Refurbishment & Demolition Survey: Definition

A refurbishment and demolition survey is needed before any refurbishment or demolition works is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACM's in the area where the refurbishment works will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, e.g. when more intrusive and maintenance and repair work will be carried out or for plant removal and dismantling.

Where the refurbishment or demolition works may not take place for a significant period after the survey (e.g. three months), then the information required for a management survey should be obtained.

## Asbestos Contaminated Soils (ACS)

The first point of contact with soil or ground contaminated with asbestos will be during site

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investigations and exploratory ground works. This may be defined as asbestos operative related work and applies where there is a potential for sporadic or low intensity exposure. People directly involved in these preliminary works, geotechnical engineers and ground workers, should receive formal training enabling them to work safely where asbestos could be present in the ground as a consequence of legacy use issues with the land. In principle, the general tiered approach to the assessment and management of potential risks posed by ACS is the same as that for any other contaminant. However, the unique nature of asbestos means that different methods of analysis, exposure estimation and risk estimation are required. Importantly, soil and air analysis methods need to be more detailed than those currently and commonly used to demonstrate compliance with the Asbestos Regulations.

#### Material Assessment

No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period between survey and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim management arrangements put in place.

### Material Assessment Algorithm

In the material assessment process, the main factors influencing fibre release are given a score which can then be added together to obtain a material assessment rating. The four main parameters which determine the amount of fibre released from an ACM when subject to disturbance are:

- Product Type
- Extent of damage or deterioration
- Surface Treatment; and
- Asbestos type

Each parameter is scored between 1 and 3. A score of 1 equivalent to a low potential for fibre release, 2 = medium and 3 = high. Two parameters can also be given a nil score (equivalent to a very low potential for fibre release). The value assigned to each of the four parameters is added together to give a total score of between 2 and 12. Presumed or strongly presumed ACM's are scored as Crocidolite (i.e. score = 3) unless there is strong evidence to show otherwise.

Materials with assessment scores of 10 or more are rated as having a high potential to release fibres, if disturbed. Scores of between 7 and 9 are regarded as having a medium potential, and between 5 and 6 a low potential. Scores of 4 or less have a very low potential to release fibres.

## **Analytical Techniques**

Asbestos Bulk Sample Analysis is conducted by using Polarised Light and Dispersion Staining Techniques. Dispersion Staining is used to describe the colour effects produced when a transparent colourless particle or fibre is immersed in a liquid having a refractive index near to that of the particle or fibre, and is viewed under a microscope using transmitted white light (based on HSE Publication, HSG 248).

Samples were returned to About Safety Ltd. Laboratory for Analysis. Photographs were taken at all of the sample locations (unless otherwise stated).

Materials of a similar type were only occasionally sampled and it was assumed that other materials visually inspected to where the sample was taken, were of a similar composition.

Each area was viewed for suspect materials thought or known to contain asbestos and samples taken where it was considered necessary.

#### **General Caveat**

This report is based on a Refurbishment & Demolition survey of an un-occupied building.

During the course of the survey all reasonable efforts were made to identify the physical presence of materials containing asbestos. It is known that asbestos materials are frequently concealed within the fabric of buildings or within sealed building voids so that it is not possible to regard the findings of any survey as being definite. It must remain a possibility that asbestos containing materials may be found during demolition activities. For reasons set out in this report, the results cannot give an assurance that all asbestos materials have been found and must not be thought to do so.

It should be noted that the term "No visible asbestos containing materials identified" was used in retail and other parts of properties which were occupied or partially occupied during the inspection. It must remain a possibility that asbestos containing materials may be entombed under existing floors, above ceilings or behind walls, fixtures and fittings. Therefore, any future works in these areas should be preceded by an invasive investigation.

This report has been written with reference to the various Guidance Notes etc, issued, and current at the date of this report and describes circumstances at the site on the date the survey took place.

## **Specific Notes**

### Legislation and Codes of Practice

The Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 to 2010, apply to work where there is or may be asbestos fibres present. These regulations apply in particular to any person or employer working with or removing asbestos.

In addition, Safety, Health and Welfare at Work (Construction) Regulations 2013 (SI 291 of 2013) also apply to any building, installation, repair, demolition and asbestos removal work.

Information about working with material containing asbestos cement is containing in Health and Safety Authority's document "Asbestos-containing materials (ACM's) in Workplaces – Practical Guidelines on ACM Management and Abatement".

#### Provision of information

It is recommended that this report is brought to the attention of any person likely to be involved in refurbishment/demolition works.

Once asbestos materials have been identified it is essential that appropriate remedial measures be introduced prior to any structural alterations, refurbishment or demolition works commencing. All the asbestos removal works should be carried out by a competent asbestos removal contractor in accordance with Asbestos at Work Regulations 2006 to 2010. Statutory notification requirements of 14 days are required under the provisions of the Asbestos Regulations for certain works involving asbestos. The contractor appointed for removal works is responsible for deciding if a 14 day notification is required and for drawing up a plan of work for any removal works.

## Competent Person

Person provided with adequate information, instruction and training for the task being undertaken and capable of demonstrating adequate and up-to-date understanding of the work being undertaken, the required control measures, the applicable legislation, and having sufficient practicable experience to apply these effectively. There are two categories of competent person, 1) competent asbestos operative and 2) specialist asbestos operative.

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#### Appendix A - Asbestos Bulk Identification Report

#### ASBESTOS BULK IDENTIFICATION REPORT

Report on:

Identification of asbestos content of suspected asbestos containing materials (ACM's) sampled from the following location/site:

#### No. 17 Henry Place Dublin 1

#### **TEST RESULT**

SAMPLE NO	LAB. REF.	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS TYPE IDENTIFIEID
		No sample taken.		

#### Glossary

\*NADIS = No Asbestos Detected in Sample VFT = Vinyl Floor Tile

Chrysotile (white asbestos)

Amosite (brown asbestos)

Crocidolite (blue asbestos)

Analyst: John Kelleher

Appendix B – Schedule of Survey Sheets About Safety Limited, 24 Ocean Crest, Arklow, Co. Wicklow Tel: 0402 91186 | E-mail: asbestos@aboutsafety.ie
About Safety Ltd. Registered in Ireland: No. 422820

Photo				
Recommendations				
Material assessment score				
Asbestos type				
Surface treatment				
Condition				-
Product type				
Asbestos identified (presumed, strongly presumed or identified)	NAD	NAD	NAD	NAD
Extent				
Material Description , surface treatment and condition	Galvanised sheeting	Flue from adjoining premises	Plasterboard to partitions	Plasterboard to partitions
Sample No.				
Location or Functional Space	Roof	Wall	Internal walls	Internal walls
Building or Area of Site	No. 17 Henry Place	No. 17 Henry Place	No. 17 Henry Place	No. 17 Henry Place
Ref No.	-	7	60	4

Material Assessment Score Risk	\$4 Very Low	5-6 Low	7-9 Medium	ACM > 10 High	No condition assessment is normally necessary for refurbishment and demolition surveys but, where the period betwee and the event is significant, e.g. more than 3 months, then a material assessment should be conducted and interim man	arrangements unt in place
	Confirmed Asbestos			Presumed/Strongly presumed ACM	Or Non Accessed Area	(
Key	NAD = No asbestos detected	AIB = Asbestos insulation board	AC = Asbestos cement	VFT = vinyl floor tile	NQ = Not Quantined/Quantinable SM = Square Meters	LM = Linear Meters

# APPENDIX 14.2 OPERATIONAL WASTE MANAGEMENT PLAN

STEPHEN LITTLE & ASSOCIATES



MANAGEMENT PLAN FOR PROPOSED RESIDENTIAL DEVELOPMENT

MASTERPLAN, SITE 3, SITE 4 AND SITE 5.

# **APPENDIX 14.2**

Report Prepared For

Dublin Central GP Limited or shortened to DCGP Ltd.

Report Prepared By

Chonaill Bradley, Senior Environmental Consultant

Our Reference

CB/20/11784WMR02

Date of Issue

30 April 2021

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AWN Consulting Ltd.

# **Document History**

Document Reference		Original Issue Date			
CB/19/11304WMR01		30 April 2021		30 April 2021	
Revision Level	Revision Date	Description	Sections Affected		

# **Record of Approval**

Details	Written by	Approved by
Signature	(tel)	fal Celfi
Name	Chonaill Bradley	Fergal Callaghan
Title	Senior Environmental Consultant	Director Callaghan
Date	30 April 2021	30 April 2021

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#### 1.0 INTRODUCTION

AWN Consulting Ltd. (AWN) has prepared this Operational Waste Management Plan (OWMP) on behalf of Dublin Central GP Limited or shortened to DCGP Ltd. The Dublin Central project is an expansive (c.2.3 Ha) and complex regeneration project. It needs to be delivered in stages to overcome site and project constraints. A site wide cumulative masterplan has been prepared by 'the Applicant' to set out the overall development vision for the Dublin Central project. 'The Masterplan' area encompasses almost entirely three urban blocks. The area is bounded generally by O'Connell Street Upper and Henry Place to the east, Henry Street to the south, Moore Street to the west, and O'Rahilly Parade and Parnell Street to the north. Moore Lane extends south from Parnell Street through the centre of the masterplan area, as far as its junction with Henry Place.

This OWMP has been prepared to ensure that the management of waste during the operational phase of the proposed development is undertaken in accordance with the current legal and industry standards including, the *Waste Management Act 1996 – 2011* as amended and associated Regulations <sup>1</sup>, *Protection of the Environment Act 2003* as amended <sup>2</sup>, *Litter Pollution Act 2003* as amended <sup>3</sup>, the 'Eastern-Midlands Region (EMR) Waste Management Plan 2015 – 2021' <sup>4</sup> and Dublin City Council (DCC) 'Dublin City Council (Storage, Presentation and Segregation of Household and Commercial Waste) Bye-Laws' 2018 <sup>5</sup>. In particular, this OWMP aims to provide a robust strategy for storing, handling, collection and transport of the wastes generated at site.

This OWMP aims to ensure maximum recycling, reuse and recovery of waste with diversion from landfill, wherever possible. The OWMP also seeks to provide guidance on the appropriate collection and transport of waste to prevent issues associated with litter or more serious environmental pollution (e.g. contamination of soil or water resources). The plan estimates the type and quantity of waste to be generated from the proposed development during the operational phase and provides a strategy for managing the different waste streams.

At present, there are no specific guidelines in Ireland for the preparation of OWMPs. Therefore, in preparing this document, consideration has been given to the requirements of national and regional waste policy, legislation and other guidelines.

#### 2.0 OVERVIEW OF WASTE MANAGEMENT IN IRELAND

# 2.1 National Level

The Government issued a policy statement in September 1998 titled as 'Changing Our Ways' <sup>6</sup> which identified objectives for the prevention, minimisation, reuse, recycling, recovery and disposal of waste in Ireland. A heavy emphasis was placed on reducing reliance on landfill and finding alternative methods for managing waste. Amongst other things, Changing Our Ways stated a target of at least 35% recycling of municipal (i.e. household, commercial and non-process industrial) waste.

A further policy document 'Preventing and Recycling Waste – Delivering Change' was published in 2002 <sup>7</sup>. This document proposed a number of programmes to increase recycling of waste and allow diversion from landfill. The need for waste minimisation at source was considered a priority.

This view was also supported by a review of sustainable development policy in Ireland and achievements to date, which was conducted in 2002, entitled 'Making Irelands Development Sustainable – Review, Assessment and Future Action' 8. This

document also stressed the need to break the link between economic growth and waste generation, again through waste minimisation and reuse of discarded material.

In order to establish the progress of the Government policy document *Changing Our Ways*, a review document was published in April 2004 entitled *'Taking Stock and Moving Forward'* <sup>9</sup>. Covering the period 1998 – 2003, the aim of this document was to assess progress to date with regard to waste management in Ireland, to consider developments since the policy framework and the local authority waste management plans were put in place, and to identify measures that could be undertaken to further support progress towards the objectives outlined in *Changing Our Ways*.

In particular, Taking Stock and Moving Forward noted a significant increase in the amount of waste being brought to local authority landfills. The report noted that one of the significant challenges in the coming years was the extension of the dry recyclable collection services.

In September 2020 the government released a new policy document outlining a new action plan for Ireland to cover the period of 2020-2025. This plan 'A Waste Action Plan for a Circular Economy' 10 was prepared in response to the 'European Green Deal' which sets a roadmap for a transition to a new economy, where climate and environmental challenges are turned into opportunities. Replacing the previous national waste management plan "A Resource Opportunity (2012).

It aims to fulfil the commitment in the Programme for Government to publish and start implementing a new National Waste Action Plan. It is intended that this new national waste policy will inform and give direction to waste planning and management in Ireland over the coming years. It will be followed later this year by an All of Government Circular Economy Strategy. The policy document shifts focus away from waste disposal and moves it back up the production chain. To support the policy, regulation is already being used (Circular Economy Legislative Package) or in the pipeline (Single Use Plastics Directive). The policy document contains over 200 measures across various waste areas including Circular Economy, Municipal Waste, Consumer Protection & Citizen Engagement, Plastics and Packaging, Construction and Demolition, Textiles, Green Public Procurement and Waste Enforcement.

Since 1998, the Environmental Protection Agency (EPA) has produced periodic 'National Waste (Database) Reports' <sup>11</sup> detailing among other things estimates for household and commercial (municipal) waste generation in Ireland and the level of recycling, recovery and disposal of these materials. The 2018 National Waste Statistics, which is the most recent study published, along with national waste statistics web resource (August 2020) reported the following key statistics for 2018:

- Generated Ireland produced 2,912,353 t of municipal waste in 2018, this is almost a five percent increase since 2017. This means that each person living in Ireland generated 600kg of municipal waste in 2018;
- Managed Waste collected and treated by the waste industry. In 2018, a total of 2,865,207 t of municipal waste was managed and treated;
- Unmanaged –Waste that is not collected or brought to a waste facility and is therefore likely to cause pollution in the environment because it is burned, buried or dumped. The EPA estimates that 47,546 t was unmanaged in 2018;
- Recovered the amount of waste recycled, used as a fuel in incinerators, or used to cover landfilled waste. In 2018, around 85% of municipal waste was recovered, this is an increase from 77% in 2017;
- Recycled the waste broken down and used to make new items. Recycling also includes the breakdown of food and garden waste to make compost. The recycling rate in 2018 was 38%, which is down from 41% in 2017; and
- **Disposed** Less than a quarter (15%) of municipal waste was landfilled in 2018, this is a decrease from 23% in 2017.

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### 2.2 Regional Level

The proposed development is located in the Local Authority area of Dublin City Council (DCC).

The EMR Waste Management Plan 2015 – 2021 is the regional waste management plan for the DCC area which was published in May 2015.

The regional plan sets out the following strategic targets for waste management in the region that are relevant to the proposed development:

- Achieve a recycling rate of 50% of managed municipal waste by 2020; and
- Reduce to 0% the direct disposal of unprocessed residual municipal waste to landfill (from 2016 onwards) in favour of higher value pre-treatment processes and indigenous recovery practices.

Municipal landfill charges in Ireland are based on the weight of waste disposed. In the Leinster Region, charges are approximately €130-150 per tonne of waste which includes a €75 per tonne landfill levy introduced under the *Waste Management* (Landfill Levy) (Amendment) Regulations 2013.

The *Dublin City Development Plan 2016 – 2022* <sup>13</sup> sets out a number of policies and objectives for Dublin City in line with the objectives of the regional waste management plan. The plan identifies a need to further reduce the role of landfilling in favour of higher value recovery options.

Waste policies and objectives with a particular relevance to this development are:

#### Policies:

- SI19: To support the principles of good waste management and the implementation of best international practice in relation to waste management in order for Dublin city and the region to become self-reliant in terms of waste management.
- SI20: To prevent and minimise waste and to encourage and support material sorting and recycling.
- SI21: To minimise the amount of waste which cannot be prevented and ensure it is managed and treated without causing environmental pollution.
- SI22: To ensure that effect is given as far as possible to the "polluter pays" principle.

#### Objectives:

- SIO16: To require the provision of adequately-sized-recycling facilities in new commercial and large scale residential developments, where appropriate.
- SIO18: To implement the current Litter Management Plan through enforcement of the litter laws, street cleaning and education and awareness campaigns.
- SIO19: To implement the Eastern-Midlands Waste Management Plan 2015 -2021 and achieve the plan targets and objectives.

# 2.3 Legislative Requirements

The primary legislative instruments that govern waste management in Ireland and applicable to the project are:

 Waste Management Act 1996 (No. 10 of 1996) as amended 2001 (No. 36 of 2001), 2003 (No. 27 of 2003) and 2011 (No 20 of 2011). Sub-ordinate and associated legislation includes:

- European Communities (Waste Directive) Regulations 2011 (S.I. No. 126 of 2011) as amended
- Waste Management (Collection Permit) Regulations 2007 (S.I. No. 820 of 2007) as amended
- Waste Management (Facility Permit and Registration) Regulation 2007
   (S.I No. 821 of 2007) as amended
- Waste Management (Licensing) Regulations 2000 (S.I No. 185 of 2000) as amended
- European Union (Packaging) Regulations 2014 (S.I. No. 282 of 2014) as amended.
- Waste Management (Planning) Regulations 1997 (S.I. No. 137 of 1997)
   as amended
- Waste Management (Landfill Levy) Regulations 2015 (S.I. No. 189 of 2015)
- European Communities (Waste Electrical and Electronic Equipment)
   Regulations 2014 (S.I. No. 149 of 2014)
- Waste Management (Batteries and Accumulators) Regulations 2014
   (S.I. No. 283 of 2014) as amended
- Waste Management (Food Waste) Regulations 2009 (S.I. No. 508 of 2009) as amended
- European Union (Household Food Waste and Bio-waste) Regulations 2015 (S.I. No. 191 of 2015)
- Waste Management (Hazardous Waste) Regulations 1998 (S.I. No. 163 of 1998) as amended
- Waste Management (Shipments of Waste) Regulations 2007 (S.I. No. 419 of 2007) as amended
- European Communities (Transfrontier Shipment of Waste) Regulations 1994 (SI 121 of 1994)
- European Union (Properties of Waste Which Render it Hazardous)
   Regulations 2015 (S.I. No. 233 of 2015) as amended
- Environmental Protection Act 1992 (S.I. No. 7 of 1992) as amended;
- Litter Pollution Act 1997 (Act No. 12 of 1997) as amended and
- Planning and Development Act 2000 (S.I. No. 30 of 2000) as amended <sup>13</sup>

These Acts and subordinate Regulations enable the transposition of relevant European Union Policy and Directives into Irish law.

One of the guiding principles of European waste legislation, which has in turn been incorporated into the *Waste Management Act 1996 - 2011* and subsequent Irish legislation, is the principle of "*Duty of Care*". This implies that the waste producer is responsible for waste from the time it is generated through until its legal disposal (including its method of disposal.) As it is not practical in most cases for the waste producer to physically transfer all waste from where it is produced to the final disposal area, waste contractors will be employed to physically transport waste to the final waste disposal site.

It is therefore imperative that the residents and the proposed building management company undertake on-site management of waste in accordance with all legal requirements and employ suitably permitted/licenced contractors to undertake off-site management of their waste in accordance with all legal requirements. This includes the requirement that a waste contactor handle, transport and reuse/recover/recycle/dispose of waste in a manner that ensures that no adverse environmental impacts occur as a result of any of these activities.

A collection permit to transport waste must be held by each waste contractor which is issued by the National Waste Collection Permit Office (NWCPO). Waste receiving facilities must also be appropriately permitted or licensed. Operators of such facilities cannot receive any waste, unless in possession of a Certificate of Registration (COR)

or waste permit granted by the relevant Local Authority under the *Waste Management (Facility Permit & Registration) Regulations 2007* as amended or a waste or IE (Industrial Emissions Directive) licence granted by the EPA. The COR/permit/licence held will specify the type and quantity of waste able to be received, stored, sorted, recovered and/or disposed of at the specified site.

# 2.3.1 Dublin City Council Waste Bye-Laws

The DCC "Dublin City Council (Storage, Presentation and Segregation of Household and Commercial Waste) Bye-Laws (2018)" were bought into force in May 2019. These bye-laws repeal the previous 'Bye-Laws for the Storage, Presentation and Collection of Household and Commercial". The bye-Laws set a number of enforceable requirements on waste holders with regard to storage, separation and presentation of waste within the DCC functional area. Key requirements under these bye-Laws of relevance to the proposed development include the following

- Kerbside waste presented for collection shall not be presented for collection earlier than 5.00 pm on the day immediately preceding the designated waste collection day;
- All containers used for the presentation of kerbside waste and any uncollected waste shall be removed from any roadway, footway, footpath or any other public place no later than 10:00am on the day following the designated waste collection day, unless an alternative arrangement has been approved in accordance with bye-law 2.3;
- Documentation, including receipts, is obtained and retained for a period of no less than one year to provide proof that any waste removed from the premises has been managed in a manner that conforms to these bye-laws, to the Waste Management Act and, where such legislation is applicable to that person, to the European Union (Household Food Waste and Bio-Waste) Regulations 2015; and
- Adequate access and egress onto and from the premises by waste collection vehicles is maintained.

The full text of the Waste Bye-Laws is available from the DCC website.

# 2.4 Regional Waste Management Service Providers and Facilities

Various contractors offer waste collection services for the residential sector in the DCC region. Details of waste collection permits (granted, pending and withdrawn) for the region are available from the NWCPO.

As outlined in the regional waste management plan, there is a decreasing number of landfills available in the region. Only three municipal solid waste landfills remain operational and are all operated by the private sector. There are a number of other licensed and permitted facilities in operation in the region including waste transfer stations, hazardous waste facilities and integrated waste management facilities. There are two existing thermal treatment facilities, one in Duleek, Co. Meath and a second facility in Poolbeg in Dublin.

There is a DCC North Strand Recycling Centre at Shamrock Terrace, North Strand located c.1.2km to the north east of the development, which can be utilised by the residents of the development for other household waste streams while a bottle and textile bank can be found c. 800m m to the south west at St Mary's church carpark.

A copy of all CORs and waste permits issued by the Local Authorities are available from the NWCPO website and all waste/IE licenses issued are available from the EPA.

### 3.0 DESCRIPTION OF THE PROJECT

# 3.1 Location, Size and Scale of the Development

# Master Plan

The Dublin Central project is an expansive (c.2.2 Ha) and complex regeneration project. It needs to be delivered in stages to overcome site and project constraints.

A site wide cumulative masterplan has been prepared by 'the Applicant' to set out the overall development vision for the Dublin Central project.

'The Masterplan' area encompasses almost entirely three urban blocks. The area is bounded generally by O'Connell Street Upper and Henry Place to the east, Henry Street to the south, Moore Street to the west, and O'Rahilly Parade and Parnell Street to the north. Moore Lane extends south from Parnell Street through the centre of the masterplan area, as far as its junction with Henry Place.

### Site 3

Located in the south west corner of 'the Masterplan' area, Site 3 is bounded by Henry Street to the south, Moore Street to the west and Henry Place to the north and east. Site 3 includes Nos. 36-41 Henry Street, Nos. 1-9 Moore Street and Nos. 3-13 Henry Place.

Site 3 lies within the O'Connell Street ACA.

The proposed development generally comprises a mixed-use scheme accommodating a hotel, residential units and associated amenities, cultural, retail and café / restaurant uses in 2no. blocks ranging in height from 1-9 storeys over existing and new single storey basements. Provision of a new Passageway linking Henry Street with Henry Place / Moore Lane.

# Site 4

Located in the west of 'the Masterplan' area, Site 4 is bounded by Moore Street to the west, Moore Lane to the east, Henry Place to the south and Site 5 to the north. Site 4 includes Nos. 10 - 13 and Nos. 18 - 21 Moore Street, Nos. 5 - 8 and Nos. 10 - 12 Moore Lane.

Site 4 excludes the site of the National Monument and its protection zone at Nos. 14-17 Moore Street (protected structures) and the open area to the rear at Nos. 8 & 9 Moore Lane.

The proposed development generally comprises a mixed-use scheme accommodating residential units and associated amenities, retail and café / restaurant uses, in two parts located north and south of the Nos. 14-17 Moore Street (National Monument / Protected Structures). Building height ranges from 1-3 storeys, including retained independent single storey basements. Provision of part of the proposed new public plaza and an archway onto the proposed new public plaza.

# <u>Site 5</u>

Located in the west of 'the Masterplan' area, Site 5 is bounded by Moore Street to the west, Moore Lane to the east, O'Rahilly Parade to the north and Site 4 to the south. Site 5 includes Nos. 22 - 25 Moore Street, Nos. 1 - 8 O'Rahilly Parade and Nos. 13 - 15 Moore Lane.

The proposed development generally comprises a mixed-use scheme accommodating office and café / restaurant uses in a single building ranging in height from 2 – 6 storeys (top floor set back) over new single storey localised basement. Provision of a part of the new public plaza.

# 3.2 Typical Waste Categories

The typical non-hazardous and hazardous wastes that will be generated at the proposed development will include the following:

- Dry Mixed Recyclables (DMR) includes waste paper (including newspapers, magazines, brochures, catalogues, leaflets), cardboard and plastic packaging, metal cans, plastic bottles, aluminium cans, tins and Tetra Pak cartons;
- Organic waste food waste and green waste generated from internal plants/flowers;
- Glass; and
- Mixed Non-Recyclable (MNR)/General Waste.

In addition to the typical waste materials that will be generated at the development on a daily basis, there will be some additional waste types generated in small quantities which will need to be managed separately including:

- Green/garden waste may be generated from external landscaping;
- Batteries (both hazardous and non-hazardous);
- Waste electrical and electronic equipment (WEEE) (both hazardous and nonhazardous);
- Printer cartridges/toners;
- Chemicals (paints, adhesives, resins, detergents, etc.);
- Lightbulbs;
- Textiles (rags);
- Waste cooking oil (if any generated by the residents);
- Furniture (and from time to time other bulky wastes); and
- Abandoned bicycles.

Wastes should be segregated into the above waste types to ensure compliance with waste legislation and guidance while maximising the re-use, recycling and recovery of waste with diversion from landfill wherever possible.

#### 3.3 European Waste Codes

In 1994, the *European Waste Catalogue* <sup>14</sup> and *Hazardous Waste List* <sup>15</sup> were published by the European Commission. In 2002, the EPA published a document titled the *European Waste Catalogue and Hazardous Waste List* <sup>16</sup>, which was a condensed version of the original two documents and their subsequent amendments. This document has recently been replaced by the EPA 'Waste Classification – List of Waste & Determining if Waste is Hazardous or Non-Hazardous' <sup>17</sup> which became valid from the 1st June 2015. This waste classification system applies across the EU and is the basis for all national and international waste reporting, such as those associated with waste collection permits, COR's, permits and licences and EPA National Waste Database.

Under the classification system, different types of wastes are fully defined by a code. The List of Waste (LoW) code (also referred to as European Waste Code or EWC) for typical waste materials expected to be generated during the operation of the proposed development are provided in Table 3.1 below

Waste Material	LoW/EWC Code
Paper and Cardboard	20 01 01
Plastics	20 01 39
Metals	20 01 40
Mixed Non-Recyclable Waste	20 03 01
Glass	20 01 02
Biodegradable Kitchen Waste	20 01 08
Oils and Fats	20 01 25
Textiles	20 01 11
Batteries and Accumulators*	20 01 33* - 34
Printer Toner/Cartridges*	20 01 27* - 28
Green Waste	20 02 01
WEEE*	20 01 35*-36
Chemicals (solvents, pesticides, paints & adhesives, detergents, etc.) *	20 01 13*/19*/27*/28/29*30
Fluorescent tubes and other mercury containing waste*	20 01 21*
Bulky Wastes	20 03 07

<sup>\*</sup> Individual waste type may contain hazardous materials

Table 3.1 Typical Waste Types Generated and LoW Codes

# 4.0 ESTIMATED WASTE ARISINGS

A waste generation model (WGM) developed by AWN, has been used to predict waste types, weights and volumes arising from operations within the proposed development. The WGM incorporates building area and use and combines these with other data including Irish and US EPA waste generation rates.

The estimated quantum/volume of waste that will be generated from the residential units and hotel rooms has been determined based on the predicted occupancy of the units. While the floor area usage (m²) has been used to estimate the waste arising from the office, retail and F&B units.

The estimated waste generation for the development for the main waste types is presented in Table 4.1, 4.2, 4.3 & 4.4.

# Masterplan

	Waste Volume (m³/week)					
Waste Type	Residential Units (combined)	Retail and F&B Units (combined)	Hotel Units (Combined)	Office Units (Combined)		
Organic Waste	1.14	5.28	2.49	2.81		
Dry Mixed Recyclables	8.06	27.23	5.08	22.06		
Glass	0.22	2.88	3.52	0.51		
Mixed Non-Recyclables	4.24	42.09	5.95	26.77		
Confidential Paper	-	-	-	4.19		
Cardboard (For Baling)	-	55.65	-	21.34		
Plastic (For Baling)	-	18.97	_	18.22		
Total	13.66	152.10	14.55	95.90		

Table 4.1 Estimated waste generation for the Masterplan Site Units

# Site 3

	Waste Volume (m³/week)				
Waste Type	Residential Units (combined)	Retail and F&B Units (combined)	Hotel Unit		
Organic Waste	0.98	0.58	1.04		
Dry Mixed Recyclables	6.93	3.06	2.00		
Glass	0.19	0.32	2.39		
Mixed Non-Recyclables	3.64	4.48	2.02		
Confidential Paper	-	-	-		
Cardboard (For Baling)	-	6.43	-		
Plastic (For Baling)	-	2.11	-		
Total	11.74	16.97	6.41		

Table 4.2 Estimated waste generation for the Site 3 Units

# Site 4

	Waste Volume (m³/week)				
Waste Type	Residential Units (combined)	Retail and F&B Units (combined)	Office Unit		
Organic Waste	0.11	0.47	0.02		
Dry Mixed Recyclables	0.80	1.83	0.16		
Glass	0.02	0.24	0.01		
Mixed Non-Recyclables	0.42	4.82	0.20		
Confidential Paper	_	-	0.03		
Cardboard (For Baling)	-	3.28	0.16		
Plastic (For Baling)	-	1.72	0.14		
Total	1.35	12.36	0.73		

Table 4.3 Estimated waste generation for the Site 4 Units

# Site 5

	Waste Volume (m³/week)			
Waste Type	F&B Units (combined)	Office Units		
Organic Waste	0.20	0.87		
Dry Mixed Recyclables	1.29	4.06		
Glass	0.11	0.09		
Mixed Non-Recyclables	2.73	4.69		
Confidential Paper	-	3.27		
Cardboard (For Baling)	2.16	3.79		
Plastic (For Baling)	0.69	3.70		
Total	4.33	20.46		

Table 4.4 Estimated waste generation for the Site 5 Units

# 5.0 WASTE STORAGE AND COLLECTION

This section provides information on how waste generated within the development will be stored and how the waste will be collected from the development. This has been prepared with due consideration of the proposed site layout as well as best

practice standards, local and national waste management requirements including those of DCC. In particular, consideration has been given to the following documents:

- BS 5906:2005 Waste Management in Buildings Code of Practice,
- EMR Waste Management Plan 2015 2021;
- Dublin City Council Development Plan 2016 2022 (Appendix 10);
- DCC Dublin City Council (Storage, Presentation and Segregation of Household and Commercial Waste) Bye-Laws (2018); and
- DoEHLG, Sustainable Urban Housing: Design Standards for New Apartments, Guidelines for Planning Authorities (Section 4.8-4.9) (2020) 19.

Dedicated communal Waste Storage Areas (WSA) have been allocated within the development design at basement and ground floor levels for the residential units and can be viewed in the drawings submitted with the application.

### **Masterplan**

Dedicated shared Waste Storage Areas (WSA) have been allocated within the development design at ground floor level for the residential and commercial tenants and can be viewed in the drawings submitted with the application.

#### Commercial Waste

Using the estimated figures in Tables 4.1 it is anticipated that glass waste will be collected on a weekly basis. Organic, cardboard and plastic waste will be collected on a twice weekly basis, while MNR and DMR will be collected between two and three times per week.

#### Residential Waste

It is anticipated that DMR, MNR, glass and organic waste will be collected on a weekly basis.

#### Site 3

#### Commercial Waste

Using the estimated figures in Tables 4.2 it is anticipated that glass waste will be collected on a weekly basis, while DMR, MNR, organic, cardboard and plastic waste will be collected on a twice weekly basis.

#### Residential Waste

It is anticipated that DMR, MNR, glass and organic waste will be collected on a weekly basis.

#### Site 4

#### Commercial Waste

Using the estimated figures in Tables 4.3 it is anticipated that glass waste will be collected on a weekly basis, while DMR, MNR, organic, cardboard and plastic waste will be collected on a twice weekly basis.

#### Residential Waste

It is anticipated that DMR, MNR, glass and organic waste will be collected on a weekly basis.

# Site 5

# Commercial Waste

Using the estimated figures in Tables 4.4 it is anticipated that glass waste will be collected on a weekly basis, while DMR, MNR, organic, cardboard and plastic waste will be collected on a thrice weekly basis.

Using the estimated waste generation volumes in Tables 4.2, 4.3 & 4.4 the waste receptacle requirements for MNR, DMR, organic waste, glass, cardboard and plastic have been established for the WSA. These are presented in Table 5.1.

STATE OF THE PARTY		Bins Required				
Area/Use	MNR <sup>1</sup>	DMR <sup>2</sup>	Glass	Organic	Carboard/ Plastic (Bales)	Required
Site 3 Hotel WSA (Block 3A)	1 no. 1100L & 1 no. 240L	1 no. 1100L	9 no. 240L	3 no. 240L	-	-
Site 3 Commercial WSA (Block 3B)	2 no. 1100L	2 no. 1100L	2 no. 240L	2 no. 240L	5	Baler
Site 3 Residential WSA (Block 3B)	4 no. 1100L	7 no. 1100L	2 no. 240L	5 no. 240L	-	-
Site 4 Residential WSA 1	1 no. 240L	2 no. 240L	1 no. 120L	1 no. 240L	-	-
Site 4 Residential WSA 2	2 no. 240L	1 no. 1100L	1 no. 120L	1 no. 240L		-
Site 4 Commercial WSA 1	1 no. 1100L	1 no. 1100L	1 no. 120L	1 no. 240L	-	-
Site 4 Commercial WSA 2	2 no. 1100L	4 no. 1100L	1 no. 240L	3 no. 240L	3	Baler
Site 5 Commercial WSA	2 no. 1100L 1 no. 240L	2 no. 1100L	1 no. 240L	2 no. 240L	4	Baler

Table 5.1 Waste storage requirements for the proposed development

Note: 1 = Mixed Non-Recyclables

2 = Dry Mixed Recyclables

The waste receptacle requirements have been established from distribution of the total weekly waste generation estimate into the holding capacity of each receptacle type.

Waste storage receptacles as per Table 5.1 above (or similar appropriate approved containers) will be provided by the building management company in the residential WSA.

As outlined in the current *Dublin City Development Plan*, it is preferable to use 1,100 litre wheelie bins for waste storage, where practical. However, in the case of organic and glass waste, it is considered more suitable to use smaller waste receptacles due to the weight of bins when filled with organic and glass waste. The use of 240 & 120 litre bins as recommended in Table 5.1 will reduce the manual handling impacts on the building management personnel and waste contractor employees.

The types of bins used will vary in size, design and colour dependent on the appointed waste contractor. However, examples of typical receptacles to be provided in the WSAs are shown in Figure 5.1. All waste receptacles used will comply with the IS EN 840 2012 standard for performance requirements of mobile waste containers, where appropriate.



Figure 5.1 Typical waste receptacles of varying size (240L and 1100L)

# 5.1 Waste Storage - Residential Units

Residents will be required to segregate waste into the following main waste streams:

- DMR;
- MNR;
- Glass and
- Organic Waste.

Residents will be required to take their segregated waste materials to their designated WSA of their segregated waste into the appropriate bins. The location of the WSAs are illustrated in the drawings submitted with the planning application.

Space will be provided in the residential units to accommodate 3 no. bin types to facilitate waste segregation at source.

Each bin/container in the WSAs will be clearly labelled and colour coded to avoid cross contamination of the different waste streams. Signage will be posted above or on the bins to show exactly which waste types can be placed in each bin.

Access to the residential WSAs will be restricted to authorised residents, facilities management and waste contractors by means of a key or electronic fob access.

Other waste materials such as textiles, batteries, lightbulbs, printer toner/cartridges, cooking oil and WEEE may be generated infrequently by the residents. Residents will be required to identify suitable temporary storage areas for these waste items within

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their own units and dispose of them appropriately. Further details on additional waste types can be found in Section 5.6.

# 5.2 Waste Storage – Retail and F&B Units

The retail and F&B tenants will be required to segregate waste within their own unit into the following main waste types:

- DMR:
- MNR;
- Organic waste;
- Glass:
- Plastic; and
- Carboard.

Tenants will be required to take their segregated waste materials to their designated commercial WSA and dispose of their segregated waste into the appropriate bins. Locations of all WSAs can found on the plans submitted with the application.

Suppliers for the tenants should be requested by the tenants to make deliveries in reusable containers, minimize packaging or to remove any packaging after delivery where possible, to reduce waste generated by the development.

If any kitchens are allocated in unit areas, this will contribute a significant portion of the volume of waste generated on a daily basis, and as such it is important that adequate provision is made for the storage and transfer of waste from these areas to the WSA.

If kitchens are required it is anticipated that waste will be generated in kitchens throughout the day, primarily at the following locations:

- Food Storage Areas (i.e. cold stores, dry store, freezer stores and stores for decanting of deliveries);
- Meat Preparation Area;
- Vegetable Preparation Area;
- Cooking Area;
- Dish-wash and Glass-wash Area; and
- Bar Area.

Small bins will be placed adjacent to each of these areas for temporary storage of waste generated during the day. Waste will then be transferred from each of these areas to the appropriate waste store within their unit.

A trolley/tug or suitable vehicle may be required to convey the bins to/from the WSAs.

All bins/containers in the tenants areas as well as in the WSAs will be clearly labelled and colour coded to avoid cross contamination of the different waste streams. Signage will be posted above or on the bins to show exactly which wastes can be put in each.

Other waste materials such as textiles, batteries, lightbulbs, printer toner/cartridges, cooking oil and WEEE may be generated infrequently by the tenants. Tenants will be required to identify suitable temporary storage areas for these waste items within their own units and dispose of them appropriately. Further details on additional waste types can be found in Section 5.6

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### 5.3 Waste Storage – Hotel

The operator(s) will be required to segregate their waste within the development into the following main waste types:

- DMR;
- MNR;
- Organic waste; and
- Glass.

Tenants will be required to take their segregated waste materials to their designated WSAs and dispose of their segregated waste into the appropriate bins. Locations of all WSAs can found on the plans submitted with the application.

Suppliers for the development should be requested by the hotel operator to make deliveries in reusable containers, minimize packaging or to remove any packaging after delivery where possible, to reduce waste generated by the development.

Signage should be erected above internal bins and in the WSA to identify what waste types should be placed into each bin as appropriate. Bins/containers should be labelled, and colour coded to avoid cross contamination of the different waste streams.

The majority of waste materials collected in bins in the hotel rooms, common areas etc. will not be segregated and will be managed as MNR waste. Housekeeping and hotel cleaning staff will segregate waste, where possible, during cleaning by using segregated containers on their cleaning trolleys. Waste will be transferred from the cleaning carts to the appropriate bins in the WSA via the lifts and corridors.

The kitchen in the restaurant area will contribute a significant portion of the volume of waste generated on a daily basis, and as such it is important that adequate provision is made for the storage and transfer of waste from these areas to the WSA.

It is anticipated that waste will be generated in the kitchen throughout the day, primarily at the following locations:

- Food Storage Areas (i.e. cold stores, dry store, freezer stores and stores for decanting of deliveries);
- Meat Preparation Area;
- Vegetable Preparation Area;
- Cooking Area; and
- Dish-wash and Glass-wash Area;

Small bins will be placed adjacent to each of these areas as required for temporary storage of waste generated during the day. Waste will then be transferred from each of these areas to the WSA and placed into the segregated bins as detailed in Table 5.1.

All bins/containers in the kitchen, restaurant, bar and dining areas as well as in the WSAs will be clearly labelled and colour coded to avoid cross contamination of the different waste streams. Signage will be posted above or on the bins to show exactly which wastes can be put in each.

Other waste materials such as textiles, batteries, lightbulbs, printer toner/cartridges, cooking oil and WEEE may be generated infrequently by the tenants. Tenants will be required to identify suitable temporary storage areas for these waste items within their own units and dispose of them appropriately. Further details on additional waste types can be found in Section 5.6

# 5.4 Waste Storage - Office

The office tenant(s) will segregate waste into the following main waste streams:

- DMR;
- MNR;
- Organic waste;
- Glass:
- Plastic; and
- Carboard.

Personnel nominated by the office tenants will empty the bins in the AWSs, as required, and bring the segregated waste using trolleys/carts/bins to their allocated WSA. Locations of all WSAs can found on the plans submitted with the application.

The office unit(s) may be occupied by a single tenant or multiple tenants. It is recommended that the office tenants implement the 'binless office' concept where employees do not have bins located under desks and instead bring their waste to Area Waste Stations (AWSs) located strategically on the office floors, at print stations/rooms and at any canteens, micro kitchens or tea stations which may be provided within the tenant's office space. Experience has shown that the maximum travel distance should be no more than 15m from the employee's desk to the AWS. This 'best in class' concept achieves maximum segregation of waste in an office setting.

Typically, an AWS would include a bin for DMR and a bin for MNR. It is recommended that a confidential paper bin with a locked lid/door should also be provided for at each AWS and/or adjacent to photocopy/printing stations, as required. In addition, it is recommended that organic and glass bins should be provided at any canteens or micro kitchens or tea stations, where appropriate.

A printer cartridge/toner bin should be provided at the print/copy stations, where appropriate.

It is recommended that all bins/containers should be clearly labelled and colour coded to avoid cross contamination of the different waste streams. Signage should be posted on or above the bins to show which wastes can be put in each bin.

The binless office concept, in addition to assisting in maximising recycling rates and minimising associated landfill disposal costs, also has the advantage of substantially reducing cleaning costs, as cleaners visit only the AWSs on each floor, as opposed to each desk.

Suppliers for the tenants should be requested by the tenants to make deliveries in reusable containers, minimize packaging and/or to remove any packaging after delivery where possible, to reduce waste generated by the development.

It is proposed that confidential paper waste will be managed separately to non-confidential paper waste. Tenants will be required to engage with an appropriately permitted/licenced confidential waste management contractor for collection and shredding of confidential paper. It is anticipated that tenants will place locked confidential waste paper bins as required throughout their office areas. The confidential waste company will typically collect bins directly from the office areas, under agreement with the tenant, and bring the locked bin or bags of confidential waste via the lifts to their collection truck.

Other waste materials such as textiles, batteries, lightbulbs, printer toner/cartridges, cooking oil and WEEE may be generated infrequently by the tenants. Tenants will be required to identify suitable temporary storage areas for these waste items within their own units and dispose of them appropriately. Further details on additional waste types can be found in Section 5.6

#### 5.5 Waste Collection

There are numerous private contractors that provide waste collection services in the Dublin City area. All waste contractors servicing the proposed development must hold a valid waste collection permit for the specific waste types collected. All waste collected must be transported to registered/permitted/licensed facilities only.

A servicing management strategy prepared in conjunction with the design team by SWECO and has been provided for this development to cover 'the Masterplan' and the individual Sites. This plan can be viewed as part of the planning application and provides the location of all temporary waste collection areas.

A trolley/tug or suitable vehicle may be required to convey the bins to/from the collection area.

The facilities management team or the waste contractor will ensure that empty bins are promptly returned to the WSAs after collection/emptying.

Bin collection times/days will be staggered to reduce the number of bins required to be emptied at once and the time the waste vehicle is onsite. This will be determined during the process of appointment of a waste contractor.

It is currently envisaged that the below collection locations will be used so that each site can act independently of each other site prior to the completion of the Dublin Central Masterplan. The Dublin Central Masterplan includes the introduction of the Metrolink Station, which prevents vehicles from accessing basement waste stores. In addition, all WSAs which are at basement level have insufficient height clearance for a standard waste truck to access. Therefore, all waste will be collected at grade. Upon completion of the Dublin Central Masterplan, additional loading bays will be provided off the carriageway to improve access for service and waste collection vehicles. In addition, the Estate Management Company will manage all site-wide waste operations to ensure smooth transition during collections and ensure waste bins are not left idle on the street. Suitably sized vehicles will be procured to serve the site, typically smaller refuse vehicles, less than 8m in length. The private waste contractors will have fob access to the bin stores. This prevents bins from being left on street for collection.

The Dublin Central Masterplan proposes all bins will be collected and returned directly to the waste storage areas by the waste contractor or by the Estate Management Company. At no stage will bins be stored within the public realm.

### Masterplan

#### Site 1

Waste collections at Site 1 are proposed to occur via the proposed loading area on Moore Lane (north of O'Rahilly Parade).

#### Site 2AB

Waste collections at Site 2AB are proposed to occur via the proposed loading areas to the rear of 59 and 60 O'Connell St and via the proposed link between O'Connell Street Upper / Moore Lane.

### Site 2C

Waste collections at Site 2C are proposed to occur via the proposed loading area on Moore Lane (north of O'Rahilly Parade).

### This Application

### Site 3

Bins from the residential WSA will be collected from the existing loading area on Moore Street, while The waste truck will enter the passageway between block 3A & 3B to collect the commercial and hotel waste directly from the shared commercial and the hotel WSAs.

### Site 4

All commercial and residential bins from this development will be brought to a temporary collection point on Moore Street, from the WSAs by the waste contractor or facilities management company, immediately prior to collection. There are two bin stores in Site 4 – one in the north, the other in the south.

South: The waste vehicle will utilise the existing loading provision on Moore Street to access the southern bin store within Site 4, as existing. This bin store is approximately 20m from Moore Street. The commercial operator will collect the bins before emptying them and returning the empty bins to the bin store.

North: The waste vehicle will utilise the existing loading provision on Moore Street to access the northern bin store within Site 4, as existing. This bin store is approximately 22m from Moore Street. The commercial operator will collect the bins before emptying them and returning the empty bins to the bin store.

### Site 5

Waste vehicles will utilise the proposed loading area on O'Rahilly Parade to access the proposed Site 5 bin store directly. The waste contractor will return the bins to the bin store immediately after collection.

#### 5.6 Additional Waste Materials

In addition to the typical waste materials that are generated on a daily basis, there will be some additional waste types generated from time to time that will need to be managed separately. A non-exhaustive list is presented below.

#### Green waste

Green waste may be generated from external landscaping and internal plants/flowers. Green waste generated from landscaping of external areas will be removed by external landscape contractors. Green waste generated from gardens internal plants/flowers can be placed in the organic waste bins.

#### **Batteries**

A take-back service for waste batteries and accumulators (e.g. rechargeable batteries) is in place in order to comply with the Waste Management Batteries and Accumulators Regulations 2014 as amended. In accordance with these regulations consumers are able to bring their waste batteries to their local civic amenity centre or can return them free of charge to retailers which supply the equivalent type of battery, regardless of whether or not the batteries were purchased at the retail outlet

and regardless of whether or not the person depositing the waste battery purchases any product or products from the retail outlet.

The commercial tenants cannot use the civic amenity centre. They must segregate their waste batteries and either avail of the take-back service provided by retailers or arrange for recycling/recovery of their waste batteries by a suitably permited/licenced contractor. Facilties management may arrange collection depending on the agreement.

# Waste Electrical and Electronic Equipment (WEEE)

The WEEE Directive 2002/96/EC and associated Waste Management (WEEE) Regulations have been enacted to ensure a high level of recycling of electronic and electrical equipment. In accordance with the regulations, consumers can bring their waste electrical and electronic equipment to their local recycling centre. In addition consumers can bring back WEEE within 15 days to retailers when they purchase new equipment on a like for like basis. Retailers are also obliged to collect WEEE within 15 days of delivery of a new item, provided the item is disconnected from all mains, does not pose a health and safety risk and is readily available for collection.

As noted above, the commercial tenants cannot use the civic amenity centre. They must segregate their WEEE and either avail of the take-back/collection service provided by retailers or arrange for recycling/recovery of their WEEE by a suitably permited/licenced contractor. Facilties management may arrange collection depending on the agreement.

### Printer Cartridge/Toners

It is recommended that a printer cartridge/toner bin is provided in the commercial units, where appropriate. The commercial tenants will be required to store this waste within their unit and arrange for return to retailers or collection by an authorised waste contractor, as required.

Waste printer cartridge/toners generated by residents can usually be returned to the supplier free of charge or can be brought to a civic amenity centre.

# Chemicals (solvents, paints, adhesives, resins, detergents etc)

Chemicals (such as solvents, paints etc) are largely generated from building maintenance works. Such works are usually completed by external contractors who are responsible for the off-site removal and appropriate recovery/recycling/disposal of any waste materials generated.

Any waste cleaning products or waste packaging from cleaning products generated in the commercial units that are classed as hazardous (if they arise) will be appropriately stored within the tenants own space. Facilties management may arrange collection depending on the agreement.

Any waste cleaning products or waste packaging from cleaning products that are classed as hazardous (if they arise) generated by the residents should be brought to a civic amenity centre.

# Light Bulbs (Fluorescent Tubes, Long Life, LED and Lilament bulbs)

Waste light bulbs may be generated by lighting at the commercial tenants. It is anticipated that commercial tenants will be responsible for the off-site removal and appropriate recovery/disposal of these wastes. Facilties management may arrange collection depending on the agreement.

Light bulbs generated by residents should be taken to the nearest civic amenity centre for appropriate storage and recovery/disposal.

#### **Textiles**

Where possible, waste textiles should be recycled or donated to a charity organisation for reuse.

### Waste Cooking Oil

If the commercial tenants use cooking oil, waste cooking oil will need to be stored within the individual units on a bunded area or spill pallet and regular collections by a dedicated waste contractor will need to be organised as required. Under sink grease traps will be installed in any cooking space.

If the residents generate waste cooking oil, this can be brought to a civic amenity centre.

### Furniture (and other bulky wastes)

Furniture and other bulky waste items (such as carpet etc.) may occasionally be generated by the commercial tenants. The collection of bulky waste will be arranged as required by the tenants. If residents wish to dispose of furniture, this can be brought a civic amenity centre.

### **Abandoned Bicycles**

Bicycle parking areas are planned for the development. As happens in other developments, residents sometimes abandon faulty or unused bicycles and it can be difficult to determine their ownership. Abandoned bicycles should be donated to charity if they arise.

# Covid-19 Waste

Any waste generated by residential and commercial tenants that have tested positive for Covid-19 should be manged in accordance with the current Covid-19 HSE Guidelines at the time that that waste arises. At the time this report was prepared, the HSE Guidelines require the following procedure for any waste from a person that tests positive for Covid-19:

- Put all waste (gloves, tissues, wipes, masks) from that person in a bin bag and tie when almost full;
- Put this bin bag into a second bin bag and tie a knot;
- Store this bag safely for 3 days, then put the bag into the non-recyclable waste/general waste wheelie bin for collection/emptying.

Please note that this guidance is likely to be updated by the time the development is open and occupied and the relevant guidance at the time will need to be reviewed.

#### 5.7 Waste Storage Area Design

The WSAs should be designed and fitted-out to meet the requirements of relevant design Standards, including:

- Be fitted with a non-slip floor surface;
- Provide ventilation to reduce the potential for generation of odours with a recommended 6-10 air changes per hour for a mechanical system for internal WSAs:
- Provide suitable lighting a minimum Lux rating of 220 is recommended;
- Be easily accessible for people with limited mobility;
- Be restricted to access by nominated personnel only;
- Be supplied with hot or cold water for disinfection and washing of bins;
- Be fitted with suitable power supply for power washers;
- Have a sloped floor to a central foul drain for bins washing run-off;

- Have appropriate signage placed above and on bins indicating correct use;
- Have access for potential control of vermin, if required; and
- Be fitted with CCTV for monitoring.

The facilties management company, residents and tenants will be required to maintain the WSAs in good condition as required by the DCC Waste Bye-Laws.

# 6.0 CONCLUSIONS

In summary, this OWMP presents a waste strategy that addresses all legal requirements, waste policies and best practice guidelines and demonstrates that the required storage areas have been incorporated into the design of the development.

Implementation of this OWMP will ensure a high level of recycling, reuse and recovery at the development. All recyclable materials will be segregated at source to reduce waste contractor costs and ensure maximum diversion of materials from landfill, thus achieving the targets set out in the *EMR Waste Management Plan 2015 – 2021*.

Adherence to this plan will also ensure that waste management at the development is carried out in accordance with the requirements of the *DCC Waste Bye-Laws*.

The waste strategy presented in this document will provide sufficient storage capacity for the estimated quantity of segregated waste. The designated areas for waste storage will provide sufficient room for the required receptacles in accordance with the details of this strategy.

# 7.0 REFERENCES

- Waste Management Act 1996 (S.I. No. 10 of 1996) as amended 2001 (S.I. No. 36 of 2001), 2003 (S.I. No. 27 of 2003) and 2011 (S.I. No. 20 of 2011). Sub-ordinate and associated legislation includes:
  - European Communities (Waste Directive) Regulations 2011 (S.I. No. 126 of 2011) as amended
  - Waste Management (Collection Permit) Regulations 2007 (S.I. No. 820 of 2007) as amended
  - Waste Management (Facility Permit and Registration) Regulations 2007 (S.I No. 821 of 2007) as amended
  - Waste Management (Licensing) Regulations 2000 (S.I No. 185 of 2000) as amended
  - European Union (Packaging) Regulations 2014 (S.I. No. 282 of 2014)
  - Waste Management (Planning) Regulations 1997 (S.I. No. 137 of 1997)
  - Waste Management (Landfill Levy) Regulations 2015 (S.I. No. 189 of 2015)
  - European Communities (Waste Electrical and Electronic Equipment)
     Regulations 2014 (S.I. No. 149 of 2014)
  - Waste Management (Batteries and Accumulators) Regulations 2014 (S.I. No. 283 of 2014) as amended
  - Waste Management (Food Waste) Regulations 2009 (S.I. No. 508 of 2009) as amended 2015 (S.I. No. 190 of 2015)
  - European Union (Household Food Waste and Bio-waste) Regulations 2015
     (S.I. No. 191 of 2015)
  - Waste Management (Hazardous Waste) Regulations 1998 (S.I. No. 163 of 1998) as amended 2000 (S.I. No. 73 of 2000)
  - Waste Management (Shipments of Waste) Regulations 2007 (S.I. No. 419 of 2007) as amended
  - European Communities (Transfrontier Shipment of Waste) Regulations 1994
     (SI 121 of 1994)
  - European Union (Properties of Waste which Render it Hazardous)
     Regulations 2015 (S.I. No. 233 of 2015) as amended
- 2. Environmental Protection Act 1992 (Act No. 7 of 1992) as amended;
- 3. Litter Pollution Act 1997 (Act No. 12 of 1997) as amended;
- 4. Eastern-Midlands Waste Region, Eastern-Midlands Region (EMR) Waste Management Plan 2015 2021 (2015)
- 5. DCC Dublin City Council (Storage, Presentation and Segregation of Household and Commercial Waste) Bye-Laws (2018)
- 6. Department of Environment and Local Government (DoELG) Waste Management Changing Our Ways, A Policy Statement (1998)
- 7. Department of Environment, Heritage and Local Government (DoEHLG) *Preventing and Recycling Waste Delivering Change* (2002)
- 8. DoELG, Making Ireland's Development Sustainable Review, Assessment and Future Action (World Summit on Sustainable Development) (2002)
- 9. DoEHLG, Taking Stock and Moving Forward (2004)
- 10. Department of Communications, Climate Action and Environment (DCCAE), Waste Action Plan for the Circular Economy Ireland's National Waste Policy 2020-2025 (2020).
- 11. Environmental Protection Agency (EPA), *National Waste Database Reports* 1998 2012.
- 12. DCC, Dublin City Development Plan 2016 2022 (2016)
- 13. Planning and Development Act 2000 (S.I. No. 30 of 2000) as amended 2010 (S.I. No. 30 of 2010) and 2015 (S.I. No. 310 of 2015).
- 14. European Waste Catalogue Council Decision 94/3/EC (as per Council Directive 75/442/EC).
- 15. Hazardous Waste List Council Decision 94/904/EC (as per Council Directive 91/689/EEC).

- 16. EPA, European Waste Catalogue and Hazardous Waste List (2002)
- EPA, Waste Classification List of Waste & Determining if Waste is Hazardous or 17. Non-Hazardous (2015)
- 18.
- BS 5906:2005 Waste Management in Buildings Code of Practice.

  DoEHLG, Sustainable Urban Housing: Design Standards for New Apartments, 19. Guidelines for Planning Authorities (2020).

