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**DEMOLITION ASBESTOS SURVEY
FINCHLEY CENTRAL ES7104C (REV 1)
SWITCH KIOSK AND UNDERSTAIRS SIGNAL CABIN
SPECIFIC AREAS ONLY**

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Issue Date: 22nd March 2017

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**DEMOLITION ASBESTOS SURVEY - FINCHLEY CENTRAL ES7104c (REV 1) - SWITCH KIOSK
AND UNDERSTAIRS SIGNAL CABIN - SPECIFIC AREAS ONLY**

CONDITIONS OF ISSUE OF REPORTS.

THIS REPORT IS ISSUED IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM 4-RAIL SERVICES.

FURTHER INFORMATION.

REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT OR OTHER QUERIES SHOULD BE ADDRESSED TO THE AUTHOR.

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0. Executive Summary

0.1 Survey Details

Reason for Survey: In order to comply with the Control of Asbestos Regulations 2012, the client Mr. Paul Hewitt, London Underground, HMU requested a demolition survey be carried out of Finchley Central ES7104c (Rev 1), Switch Kiosk and Understairs Signal Cabin.

Location: Finchley Central ES7104c (Rev 1), Switch Kiosk and Understairs Signal Cabin

Date of Survey: 5th/6th March 2017

Lead Surveyor: ██████████

0.2 Summary of Asbestos Containing Materials

- Switch Kiosk
 - Insulation board debris confirmed to contain Amosite asbestos, Figures 5 & 6 - Material assessment rating: Medium
 - Insulation board panels confirmed to contain Amosite asbestos, Figures 1 & 2 - Material assessment rating: Low
 - Cement troughing confirmed to contain Chrysotile asbestos, Figures 3 & 4 - Material assessment rating: Low
- Understairs Signal Cable
 - Cement panel confirmed to contain Chrysotile asbestos, Figures 7 & 8 - Material assessment rating: Very low

DEMOLITION ASBESTOS SURVEY - FINCHLEY CENTRAL ES7104c (REV 1) - SWITCH KIOSK AND UNDERSTAIRS SIGNAL CABIN - SPECIFIC AREAS ONLY

1. Introduction

4-RAIL Services were requested by Mr. Paul Hewitt, London Underground, HMU to undertake an asbestos survey of Finchley Central ES7104c (Rev 1), Switch Kiosk and Understairs Signal Cabin.

A Demolition survey of asbestos containing materials was undertaken in the switch kiosk at Finchley Central to determine the product type of the material used and carry out reassurance Airborne Fibre Monitoring (AFM) whilst Econ Construction removed a redundant switch and carry out an asbestos debris pick around the kiosk.

The survey was undertaken during engineering hours on 5th/6th March 2017. The lead surveyor was [REDACTED] with assistance from [REDACTED].

1.1 References

HSE (2013) Managing and working with asbestos. L143. Control of Asbestos Regulations 2012. Approved Code of Practice and guidance.

1.2 Document Issue

REPORT REVISION	ISSUE DATE	REVISION DETAILS
INITIAL	20 th March 2017	-

2. Sampling Strategy

- 2.1 Sampling for asbestos containing materials was carried out in accordance with the procedures described in HSE Document HSG264 *Asbestos, The Survey Guide* and 4-RAIL Services Ltd in-house procedure 4R-E200.
- 2.2 Each material suspected of containing asbestos was sampled and returned to the laboratory for analysis. The location where the sample was taken was labelled, and plans provided by the Client prior to the survey, were marked with the sampling location and approximate extent of asbestos.
- 2.3 Electrical equipment was not surveyed since it was considered live. However, assumptions may have been made as to possible asbestos containing materials within electrical units based on the experience of the surveyor. There is always the possibility that further asbestos containing materials may be present within live electrical equipment.
- 2.4 Where rooms were surveyed, walls were identified as follows : the first wall on the left on entrance into a room was identified as Wall 1, the next separate wall in a clockwise direction, was identified as Wall 2, and so on, with the final Wall number being that where the entrance door was located.

3. Limitations of Surveying

A Demolition survey is used to locate and describe, as far as reasonably practicable, all ACMs in a building or area, and may involve destructive inspection, as necessary, to gain access to all areas due for demolition, including those that may be difficult to reach. The quality of the intrusive survey is dependant upon the building or area being unoccupied and upon safe access.

Every effort will have been made to access all areas, but nonetheless there may be locations where asbestos remains undetected, such as within pipework. Further examples of locations where asbestos may remain undetected are listed in Appendix 1.

The client is informed that Asbestos Containing Materials (ACMs) were used in various forms as shuttering beneath concrete floor slabs. Access to which is only normally achieved via intrusive means. During the survey a visual inspection was made of the floor slab as agreed with client. As detailed in Appendix 1 the client is informed that ACMs could be present beneath the floor slab, and as visual inspections have only been made at this stage, additional control measures should be considered to be put in place for when the floor slab is to be disturbed e.g. the presence of a competent contractor.

4. Analysis of Samples

- 4.1 Samples taken were analysed in-house in accordance with HSE Document HSG 248 *Asbestos: The analysts' guide for sampling, analysis and clearance procedures* and 4-RAIL Services Ltd in-house procedure 4R-E220. 4-RAIL Services is accredited by the United Kingdom Accreditation Service (UKAS) for testing of asbestos in bulk materials (UKAS Testing Body 1931).
- 4.2 Samples will be retained for a period of six months unless otherwise requested by the Client.
- 4.3 Analysed samples will be disposed of by a licensed waste carrier in accordance with Hazardous Waste Regulations 2005 (Registration Number NAG680).

5. Material Assessment

Each sample identified as containing asbestos was awarded a material assessment score based on the following variables:

- Product Type;
- Current Condition;
- Surface Treatment; and
- Asbestos Type.

Appendix 2 classifies the material assessment variables.

6. Accessibility

Each material is given an accessibility rating for information only. This is a value based on how easily the suspect material can be accessed.

7. Results

A total of seven samples were taken for analysis. All samples were found to contain asbestos. An additional material was considered to be identical to materials sampled previously.

Figures 1 – 8 show materials confirmed of containing asbestos, together with their material assessment and accessibility ratings.

Appendix 3 contains the site survey sheets detailing all areas surveyed and results of analysis for all samples taken.

Appendix 4 contains site plans indicating the areas surveyed.

8. Conclusion

8.1 Switch Kiosk

Insulation board panels confirmed to contain Amosite asbestos, Figure 1 - Material assessment rating: Low

Insulation board panels confirmed to contain Amosite asbestos, Figure 2 - Material assessment rating: Low

Cement troughing confirmed to contain Chrysotile asbestos, Figure 3 - Material assessment rating: Low

Cement troughing confirmed to contain Chrysotile asbestos, Figure 4 - Material assessment rating: Low

Insulation board debris confirmed to contain Amosite asbestos, Figure 5 - Material assessment rating: Medium

Insulation board debris confirmed to contain Amosite asbestos, Figure 6 - Material assessment rating: Medium

8.2 Understairs Signal Cable

Cement panel confirmed to contain Chrysotile asbestos, Figure 7 - Material assessment rating: Very low

Cement panel confirmed to contain Chrysotile asbestos, Figure 8 - Material assessment rating: Very low

9. Recommendations

- 9.1 Maintain the condition of the materials confirmed to contain asbestos to prevent fibre release by implementing a full risk assessment and programme for re-inspection at periodic intervals. As discussed in Section 5 & 6. Material Assessment & Accessibility, the Client is advised to review and thus amend as required prior to the inclusion of actions within an asbestos management plan.
- 9.2 Work towards compiling more detailed information relating to asbestos components within the specific electrical equipment on site. Where electrical isolation has not been provided to allow internal inspections of such equipment, these items will require confirmation prior to any refurbishment/modernisation/demolition works commencing.
- 9.3 Undertake work involving asbestos containing materials in a controlled manner in accordance with the *Control of Asbestos Regulations 2012*. The licensing regulations do not apply to materials in which the asbestos fibres are firmly linked in a matrix, but nevertheless, all work must comply with HSE Approved Code of Practise L143 *Work with asbestos containing materials*. In accordance with London Underground policy, a licensed asbestos removal contractor must be used.
- 9.4 Asbestos materials are defined as hazardous waste under the *Hazardous Waste Regulations 2005*. A requirement of these regulations is that premises producing more than 200kg of hazardous waste are notified to the Environment Agency. This can be done on the Environment Agency website : <https://www.environment-agency.gov.uk/apps/hazwaste/registrationwelcome.jsp>, and will be a requirement prior to the disposal of removed asbestos waste by a licensed carrier.

FIGURE 1: CONFIRMED ASBESTOS IN INSULATION BOARD PANELS IN SWITCH KIOSK - DESCRIPTION & RESULT OF ASSESSMENT (SAMPLE REF. 160000/050317/01)



Sample Number	160000/050317/01
Location	Switch Kiosk
Material Description	Insulation board panels
Material Comment	Inside and outside to walls 1, 2, 3, 4 and door (damage to wall 1)
Quantity	18m ²
Product Type	Medium density
Current Condition	Slight damage
Surface Treatment	Composite
Asbestos Type	Amosite
Material Assessment Rating	Low
Accessibility	High
Further Comment	Not applicable

FIGURE 2: CONFIRMED ASBESTOS IN INSULATION BOARD PANELS IN SWITCH KIOSK - DESCRIPTION & RESULT OF ASSESSMENT (SAMPLE REF. 160000/050317/02)



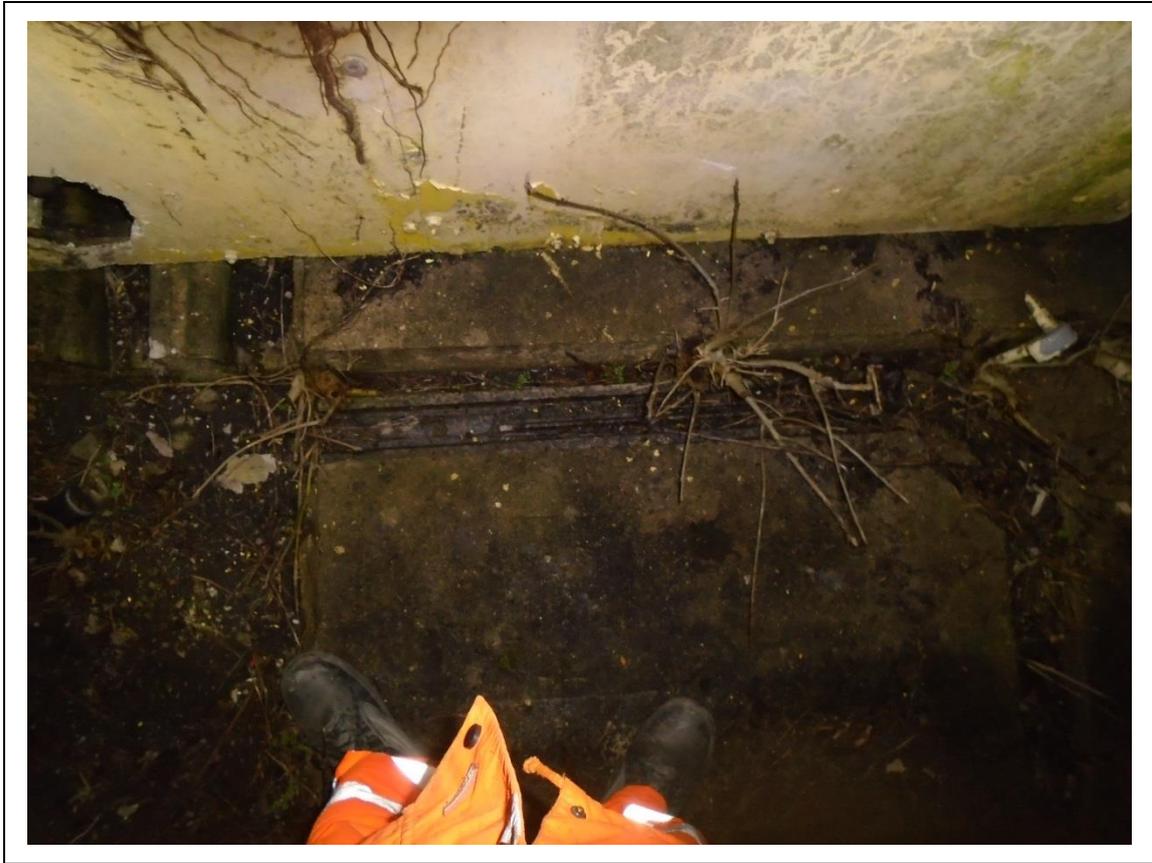
Sample Number	160000/050317/02
Location	Switch Kiosk
Material Description	Insulation board panels
Material Comment	To ceiling inside and outside
Quantity	3m ²
Product Type	Medium density
Current Condition	Moderate damage
Surface Treatment	Composite
Asbestos Type	Amosite
Material Assessment Rating	Low
Accessibility	Medium
Further Comment	Not applicable

FIGURE 3: CONFIRMED ASBESTOS IN CEMENT TROUGHING IN SWITCH KIOSK - DESCRIPTION & RESULT OF ASSESSMENT (SAMPLE REF. 160000/050317/03)



Sample Number	160000/050317/03
Location	Switch Kiosk
Material Description	Cement troughing
Material Comment	To floor inside and outside
Quantity	2 x 0.25m ²
Product Type	Composite
Current Condition	Slight damage
Surface Treatment	Unencapsulated medium density
Asbestos Type	Chrysotile
Material Assessment Rating	Low
Accessibility	Medium
Further Comment	Not applicable

FIGURE 4: CONFIRMED ASBESTOS IN CEMENT TROUGHING IN SWITCH KIOSK - DESCRIPTION & RESULT OF ASSESSMENT (SAMPLE REF. 160000/050317/04)



Sample Number	160000/050317/04
Location	Switch Kiosk
Material Description	Cement troughing
Material Comment	To floor outside
Quantity	1 x 2m
Product Type	Composite
Current Condition	Slight damage
Surface Treatment	Unencapsulated medium density
Asbestos Type	Chrysotile
Material Assessment Rating	Low
Accessibility	Medium
Further Comment	Not applicable

FIGURE 5: CONFIRMED ASBESTOS IN INSULATION BOARD DEBRIS IN SWITCH KIOSK - DESCRIPTION & RESULT OF ASSESSMENT (SAMPLE REF. 160000/050317/05)



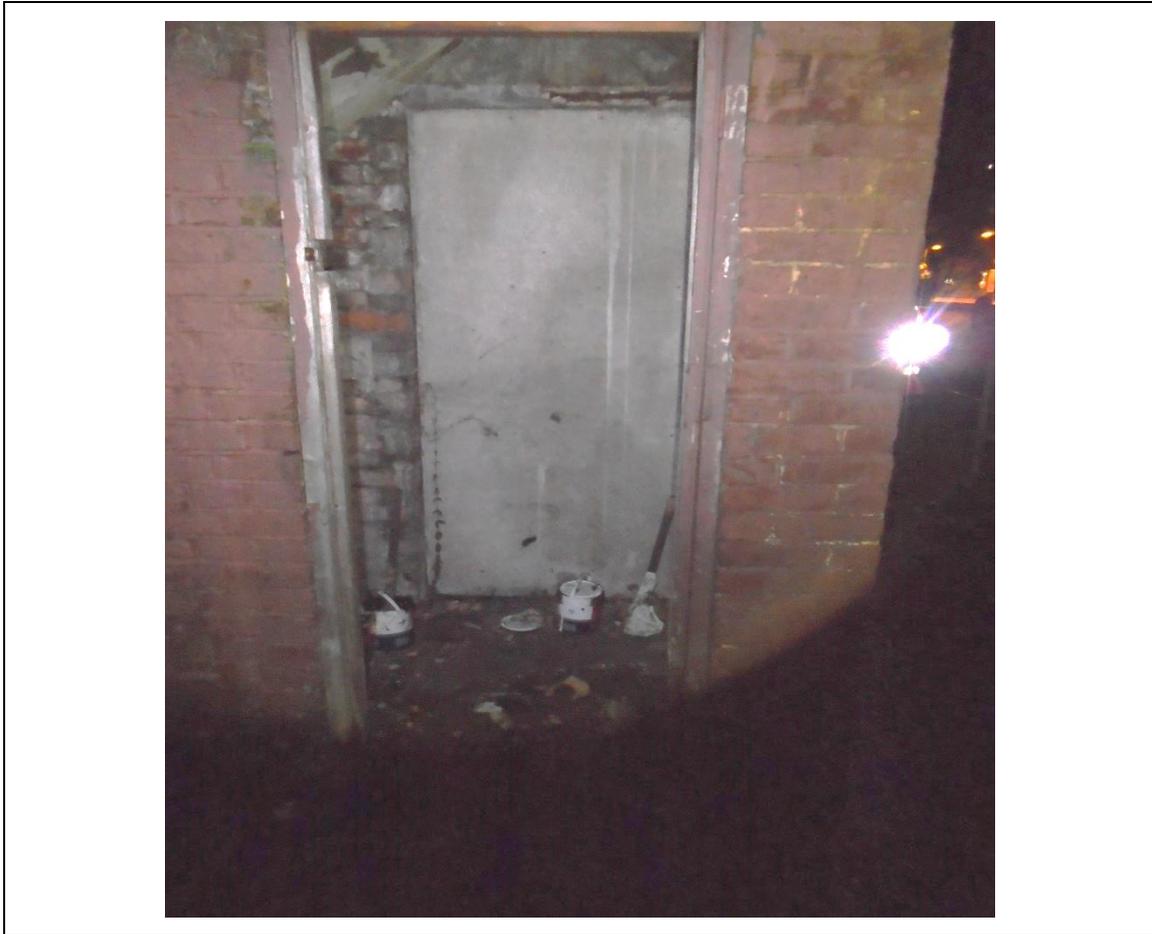
Sample Number	160000/050317/05
Location	Switch Kiosk
Material Description	Insulation board debris
Material Comment	Inside to floor
Quantity	<1m ²
Product Type	Medium density
Current Condition	Extensive damage
Surface Treatment	Composite
Asbestos Type	Amosite
Material Assessment Rating	Medium
Accessibility	Medium
Further Comment	Not applicable

FIGURE 6: CONFIRMED ASBESTOS IN INSULATION BOARD DEBRIS IN SWITCH KIOSK - DESCRIPTION & RESULT OF ASSESSMENT (SAMPLE REF. 160000/050317/06)



Sample Number	160000/050317/06
Location	Switch Kiosk
Material Description	Insulation board debris
Material Comment	Outside to by adjacent to cable run
Quantity	<1m ²
Product Type	Medium density
Current Condition	Extensive damage
Surface Treatment	Composite
Asbestos Type	Amosite
Material Assessment Rating	Medium
Accessibility	Medium
Further Comment	Not applicable

FIGURE 7: CONFIRMED ASBESTOS IN CEMENT PANEL IN UNDERSTAIRS SIGNAL CABLE - DESCRIPTION & RESULT OF ASSESSMENT (SAMPLE REF. 160000/050317/07)



Sample Number	160000/050317/07
Location	Understairs Signal Cable
Material Description	Cement panel
Material Comment	To door
Quantity	2m ²
Product Type	Composite
Current Condition	Slight damage
Surface Treatment	Composite
Asbestos Type	Chrysotile
Material Assessment Rating	Very low
Accessibility	Medium
Further Comment	Not applicable

FIGURE 8: CONFIRMED ASBESTOS IN CEMENT PANEL IN UNDERSTAIRS SIGNAL CABLE - DESCRIPTION & RESULT OF ASSESSMENT (SAMPLE REF. AS 160000/050317/07)



Sample Number	As 160000/050317/07
Location	Understairs Signal Cable
Material Description	Cement panel
Material Comment	To floor inside downstairs
Quantity	<1m ²
Product Type	Composite
Current Condition	Moderate damage
Surface Treatment	Composite
Asbestos Type	Chrysotile
Material Assessment Rating	Very low
Accessibility	Medium
Further Comment	Not applicable

Appendix 1: Other Areas of Potential Asbestos

Every possible effort is made by all surveyors to ensure the contents of each survey report are as comprehensive as possible. However, there may be occasions when asbestos containing materials are overlooked due to their location within the building structure or due to restricted access.

1. Beneath Non Asbestos Lagging

Where non-asbestos lagging has been identified, but the pipework was previously lagged in asbestos containing insulation material, there may be residual asbestos located underneath the replacement lagging, especially around gaskets and by valves.

2. Electrical Boxes

Visual assessments will be made if possible, but a full survey inclusive of sampling can only be undertaken if electrical equipment is isolated.

3. Evidence of Poorly Undertaken Removal Works

While every effort is made to identify asbestos residue and/or debris present following a poorly undertaken previous removal, it may not be possible to identify residue and/or debris if no evidence of a previous removal job is present.

4. Encapsulated Debris

If for example, during asbestos removal, small amounts of asbestos containing material could not be removed from some areas due to insufficient access, the residual asbestos would have been encapsulated. It therefore would be very difficult to locate.

5. Asbestos Materials Behind Known Asbestos

When a material is suspected of containing asbestos, and sampled accordingly, further investigation is not undertaken to identify what is behind it. It is only as part of a refurbishment/demolition survey or removal works under controlled conditions, that any such occurrences will become apparent.

6. Representative Sampling

When considering large areas, a representative number of samples are taken. There is always a possibility that a material that may resemble all other materials which have not been found to contain asbestos, may contain asbestos.

7. Concrete Floor Slabs

Historically asbestos has been used as shuttering beneath concrete floor slabs. Positive identification of which can only be determined by intrusive means, normally concrete coring. If only a visual assessment has been agreed with the client, additional control measures should be considered when the floor slab is due to be disturbed e.g. Attendance via a competent contractor.

DEMOLITION ASBESTOS SURVEY - FINCHLEY CENTRAL ES7104c (REV 1) - SWITCH KIOSK AND UNDERSTAIRS SIGNAL CABIN - SPECIFIC AREAS ONLY

Appendix 2: Material Assessment & Accessibility Variables

PARAMETER	DESCRIPTION	RATING	EXAMPLES
Product Type	Asbestos reinforced composites	1	Plastics, resins, mastics, roofing felt, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement.
	Medium density insulating materials	2	Asbestos insulating boards, mill boards, other low density insulation boards, asbestos textiles, gaskets, ropes or woven textiles, asbestos paper and felt.
	High density insulating materials	3	Thermal insulation e.g. pipe and boiler lagging, sprayed asbestos, loose asbestos, asbestos mattresses and packing.
Current Condition	Good condition	0	No visible damage.
	Slight damage	1	A few scratches or surface marks, broken edges on boards, tiles, etc.
	Moderate damage	2	Significant breakage or several small areas of damage revealing loose fibres.
	Extensive damage	3	High levels of damage. Visible asbestos debris.
Surface Treatment	Asbestos reinforced composites	0	Plastics, resins, mastics, roofing felt, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement, bituminous Cellactite.
	Encapsulated medium density materials	1	Encapsulated asbestos insulation board (AIB).
	Unencapsulated medium density or encapsulated highly friable materials	2	Untreated AIB, encapsulated lagging/spray.
	Unencapsulated highly friable materials	3	Untreated lagging/spray.
Asbestos Type	Chrysotile	1	Cable insulation, fuse backing material
	Amphibole excluding crocidolite	2	Ceiling Tiles, Soffits
	Containing Crocidolite *	3	Cable Insulation
Accessibility	Very Low	0	Usually inaccessible areas
	Low	1	High level areas, difficult to access
	Medium	2	Mid level areas, with varying degrees of possible access
	High	3	Low level areas, easy to access

* Presumed or strongly presumed asbestos containing materials are recorded as Crocidolite unless there is reasoned argument to suggest otherwise.

Four parameters (product type, current condition, surface treatment & asbestos type) are **added** to arrive at an overall **material assessment factor** between 2 and 12. Accessibility is not required to be used in this calculation.

Material Assessment Score	10+	High potential for release fibre
	7-9	Medium potential for fibre release
	5-6	Low potential for fibre release
	<4	Very low potential for fibre release

DEMOLITION ASBESTOS SURVEY - FINCHLEY CENTRAL ES7104c (REV 1) - SWITCH KIOSK AND UNDERSTAIRS SIGNAL CABIN - SPECIFIC AREAS ONLY

Appendix 3: Survey Site Sheets

SURVEY DATE	LEAD SURVEYOR	ANALYST	ANALYSIS DATE
5 th /6 th March 2017	Name: [REDACTED]	Name: [REDACTED]	7 th March 2017
	Signed: [REDACTED]	Signed: [REDACTED]	

DEMOLITION ASBESTOS SURVEY - FINCHLEY CENTRAL ES7104c (REV 1) - SWITCH KIOSK AND UNDERSTAIRS SIGNAL CABIN - SPECIFIC AREAS ONLY

Ref No.	Area Surveyed		Material Description	Quantity (m ²)	Product Type	Current Condition	Surface Treatment	Accessibility	Asbestos Type	Comments and Recommendations	Figure
	Location	Room/Plant No									
160000/050317/01	Switch Kiosk	-	Insulation board panels	18m ²	2	1	0	3	2	Inside and outside to walls 1, 2, 3, 4 and door (damage to wall 1)	Figure 1
160000/050317/02	Switch Kiosk	-	Insulation board panels	3m ²	2	2	0	2	2	To ceiling inside and outside	Figure 2
160000/050317/03	Switch Kiosk	-	Cement troughing	2 x 0.25m ²	1	1	2	2	1	To floor inside and outside	Figure 3
160000/050317/04	Switch Kiosk	-	Cement troughing	1 x 2m	1	1	2	2	1	To floor outside	Figure 4
160000/050317/05	Switch Kiosk	-	Insulation board debris	<1m ²	2	3	0	2	2	Inside to floor	Figure 5
160000/050317/06	Switch Kiosk	-	Insulation board debris	<1m ²	2	3	0	2	2	Outside to by adjacent to cable run	Figure 6
	Switch Kiosk	-	Plastic cables and metal conduits	-	-	-	-	-	-	Throughout	-
	Switch Kiosk	-	Metal panel	-	-	-	-	-	-	To bottom of wall 2	-
	Switch Kiosk	-	Junction box- plastic composite within - non acm	-	-	-	-	-	-	To wall 1	-
	Switch Kiosk	-	Metal framework	-	-	-	-	-	-	Throughout to structure	-
	Switch Kiosk	-	Note	-	-	-	-	-	-	40m off platform 1 towards East Finchley behind cable run - access track via cable run stile	-
160000/050317/07	Understairs Signal Cable	-	Cement panel	2m ²	1	1	0	2	1	To door	Figure 7

Material Description	Product Type	Current Condition	Surface Treatment	Accessibility	Asbestos Type
W = Wall PW = Partition wall C= Ceiling F = Floor FC = False ceiling AFC = Above false ceiling CA = Cable	1.Composite 2.Medium density 3.Highly friable	0.Good condition 1.Slight damage 2.Moderate damage 3.Extensive damage	0.Composite 1.Encapsulated medium density 2.Unencapsulated medium density or treated highly friable 3.Untreated highly friable	0.Very Low 1.Low 2.Medium 3.High	P = presumed SP = strongly presumed K = known 0.Non-asbestos 1.Chrysotile 2.Amphibole excluding Crocidolite 3.Crocidolite

DEMOLITION ASBESTOS SURVEY - FINCHLEY CENTRAL ES7104c (REV 1) - SWITCH KIOSK AND UNDERSTAIRS SIGNAL CABIN - SPECIFIC AREAS ONLY

Ref No.	Area Surveyed		Material Description	Quantity (m ²)	Product Type	Current Condition	Surface Treatment	Accessibility	Asbestos Type	Comments and Recommendations	Figure
	Location	Room/Plant No									
As 160000/050317/ 07	Understairs Signal Cable	-	Cement panel	<1m ²	1	2	0	2	1	To floor inside understairs	Figure 8
	Understairs Signal Cable	-	Brickwork	-	-	-	-	-	-	To walls	-
	Understairs Signal Cable	-	Concrete slab	-	-	-	-	-	-	To walls	-
	Understairs Signal Cable	-	Plastic cables and metal conduits	-	-	-	-	-	-	-	-

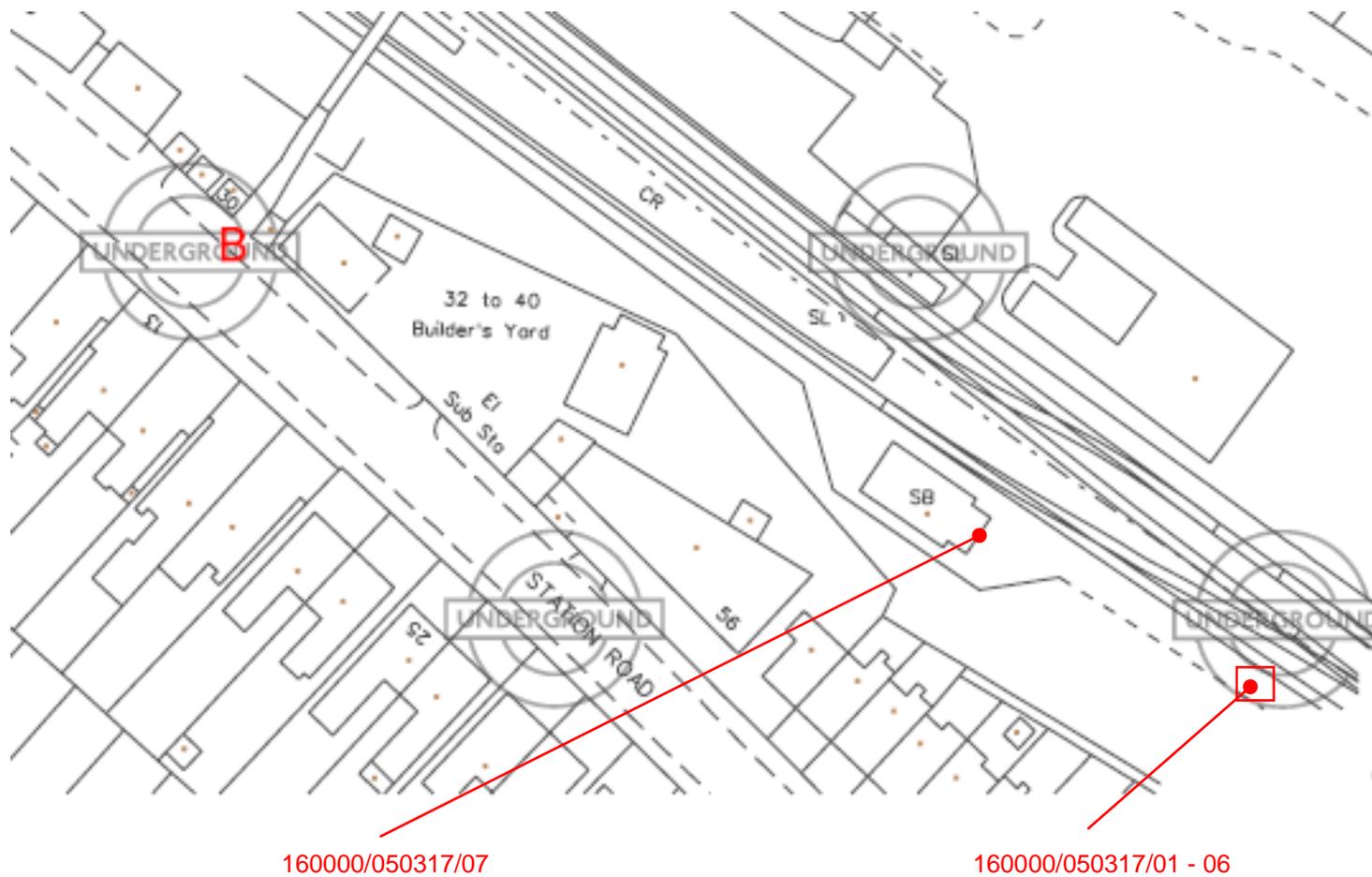
Material Description	Product Type	Current Condition	Surface Treatment	Accessibility	Asbestos Type
W = Wall PW = Partition wall C= Ceiling F = Floor FC = False ceiling AFC = Above false ceiling CA = Cable	1.Composite 2.Medium density 3.Highly friable	0.Good condition 1.Slight damage 2.Moderate damage 3.Extensive damage	0.Composite 1.Encapsulated medium density 2.Unencapsulated medium density or treated highly friable 3.Untreated highly friable	0.Very Low 1.Low 2.Medium 3.High	P = presumed SP = strongly presumed K = known 0.Non-asbestos 1.Chrysotile 2.Amphibole excluding Crocidolite 3.Crocidolite

Appendix 4: Site Plans

KEY

-  Asbestos identified in sample taken
-  Extent of asbestos
-  No asbestos detected in sample taken
-  Equipment suspected of containing asbestos

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