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TYPE 2 ASBESTOS SURVEY OF WESTMINSTER STATION, PROPOSED CABLE ROUTE, LUL CONNECT PROJECT

Prepared for: Mr Steve Fleet

London Underground Limited

Connect Project



Issue Date: 27th May 2004

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Technologist

Signature:

Certified by:

Senior Consultant

Signature:

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СО	NTENTS	Page
COI	NTENTS PAGE	3
	INTRODUCTION	
1.1 2.	LEGAL REQUIREMENTSSAMPLING STRATEGY	
3.	LIMITATIONS OF SURVEYING	5
4.	ANALYSIS OF SAMPLES	5
5.	MATERIAL ASSESSMENT	5
6.	RISK ASSESSMENT	5
7.	PRIORITY ASSESSMENT	5
8.	RESULTS	5
9.	RECOMMENDATIONS	6
APF	PENDIX 1: OTHER AREAS OF POTENTIAL ASBESTOS	
APF	PENDIX 2: MATERIAL ASSESSMENT VARIABLES	
APF	PENDIX 3: RISK ASSESSMENT	
APF	PENDIX 4: PRIORITY ASSESSMENT	

APPENDIX 5: SURVEY SITE SHEETS

1. Introduction

4-RAIL Services Ltd were requested by Mr Steve Fleet, London Underground Limited, Connect Project, to survey Westminster Station along a proposed cable route, design package supplied by Fluor, Document No FGS/EBW/CMS/9694 Revision B for materials suspected of containing asbestos.

A Type 2 survey of selected areas was undertaken on the 9th & 13th February 2004 by a second areas was undertaken on the 9th & 13th February 2004.

1.1 Legal Requirements

The Control of Asbestos at Work Regulations, 2002 (CAWR) apply to the vast majority of work involving asbestos. Three Approved Codes of Practice (ACOP's) offer practical guidance.

Undertaking an asbestos survey of a building partly satisfies Regulation 4 which stipulates that prior to commencing work, materials should be identified as containing asbestos, presumed to contain asbestos, or proved otherwise. Recent changes in legislation have put the onus on landlords to implement and maintain asbestos registers as a means of preventing unnecessary exposure to asbestos. The requirement comes into force on 21st May 2004.

2. Sampling Strategy

- 2.1 Sampling for asbestos containing materials was carried out in accordance with the procedures described in HSE Document MDHS 100 Surveying, Sampling & Assessment of Asbestos Containing Materials and 4-Rail Services Ltd in-house procedure 4R-E200 Issue 4.
- 2.2 When surveying rooms, walls were numbered using the following system: wall1 was the first wall to the left of the main entrance door, wall 2 was the next wall in a clockwise direction, and wall 3 was the next wall in a clockwise direction and so on, finishing with the wall where the main entrance door was.
- 2.3 Each material suspected of containing asbestos was sampled and returned to the laboratory for analysis.
- 2.4 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.
- 2.5 When materials are sampled as asbestos, no further attempt is made to identify materials below those sampled since investigation would lead to unnecessary disturbance of the hazardous material.

3. Limitations of Surveying

Although assigned surveyors have extensive experience in locating and sampling asbestos containing materials, there may be occasions whereby asbestos is not identified due to its location within a building. For example, some asbestos containing materials may have been used in the construction of a building that has been sealed in with concrete. Hence, they will only be located during demolition or refurbishment of the premises. (Appendix 1)

4. Analysis of Samples

Samples taken were analysed in accordance with HSE Document MDHS 77 Asbestos in Bulk Materials: Sampling & Identification by Polarised Light Microscopy.

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. Risk Assessment

Each sample identified as containing asbestos was awarded a risk assessment score based on the potential for disturbance as perceived by the surveyor (Appendix 3). This value is provided *for information only* since different uses of the areas may significantly alter this value.

7. Priority Assessment

The priority assessment takes into account the material assessment score and the risk assessment score: the material assessment score is multiplied by the risk assessment score to give a priority score of between 2 and 48.

Appendix 4 classifies the priority assessment variables.

8. Results

Appendix 5 contains the site survey sheets detailing all areas surveyed and results of analysis of all samples taken.

9. Recommendations

The following recommendations are made in order of priority as calculated in Section 7. Priority Assessment.

As discussed in Section 6. Risk Assessment, the Client is advised to review the risk assessment and thus amend the priority assessment as required prior to the inclusion of actions within a management plan.

All areas requested by the client in accordance with document, FGS/EBW/CMS/9694 Revision B were surveyed.

No hazards were found during the survey. 4-Rail Services Ltd believe this to conform to LUL Connects definition of an Asbestos free route. Therefore the construction of the proposed cable management system at Westminster station can commence.

An asbestos register should be kept in an accessible location on site.

Node Point Summary Tables

<u>Table 1 – Direct Impact</u>

Node	Node Figure		Hazard		
N/A	N/A	N/A	N/A		

Table 2 - Hazards to Be Aware Of

Node	Figure	Location	Hazard		
N/A	N/A	N/A	N/A		

<u>Table 3 – Hazards Noted For Information Only</u>

Node	Node Figure N/A N/A		Hazard	
N/A			N/A	

Table 4 - Node Points Where No Asbestos Is Present

Node	Figure	Location	Hazard
1 to 115	N/A	As Per Node	N/A
		Schedule	

<u>Table 5 – Other Asbestos or Possible Asbestos that is Present in Areas External To the Proposed Route</u>

Node	Figure	Location	Hazard		
N/A	N/A	N/A	N/A		

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.

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. Trunking Gaskets

Generally, gaskets located in trunking are not visible unless the trunking is dismantled.

4. External Areas

Unless specifically requested as part of a survey, inaccessible external areas are not surveyed due to safe access being required.

5. Fire Breaks

While every effort is made to identify the full depth of materials used to construct fire breaks, there may, on occasion, be layers of asbestos containing materials beneath non-asbestos materials that remain undetected.

Ductwork

Ductwork that passes through the structure of buildings is not fully surveyed. This would require specialist equipment to access such small areas, and would then only maybe result in materials being identified as suspected asbestos, due to limitations of sampling.

7. Debris

There is a possibility that asbestos debris may have been left after previous asbestos removal works. The debris will generally be very small in size and therefore go unnoticed.

8. 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.

9. Machinery

For safety reasons, mechanical machinery can only be surveyed if isolated.

10. Columns

Asbestos located within columns may not become evident until refurbishment or demolition. Location would require a full intrusive survey which would result in severe damage to the columns.

11. Flange Gaskets

Flange gaskets generally remain obscured from view until pipework is taken apart.

12. Confined Spaces

Confined spaces will not normally be surveyed due to specialist equipment required in accordance with Confined Space Regulations. Such areas include floor voids or any inverts.

13. Fire Doors

Some fire doors have asbestos containing materials within their structure. Investigation into this would reduce the fire rating of the doors, and hence they are not fully surveyed.

14. Security Areas

Any areas where security clearance is required are not surveyed, unless arrangements have been made by the Client.

15. 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 the removal works under controlled conditions, that any such occurrences will become apparent.

16. Within the Building Structure

Asbestos containing materials may have been used as part of the structure of a building and since encapsulated. For example, there may asbestos within wall cavities or above plaster ceilings or it may have been used as shuttering. The presence of such materials may not become apparent until the area is undergoing refurbishment or demolition.

17. 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

Appendix 2: Material Assessment Variables

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

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

Type 1 & 2 surveys yield four parameters (product type, current condition, surface treatment & asbestos type) that are <u>added</u> to arrive at an overall material assessment score between 2 and 12.

Matarial	10+	High potential for release fibre	
Material Assessment	7-9	Medium potential for fibre release	Ţ,
Score	5-6	Low potential for fibre release	
00010	<4	Very low potential for fibre release	

Appendix 3: Risk Assessment

The one element of the risk assessment assessed by the surveyors is potential for disturbance. The value allocated by the surveyors is included in the report *for information only* since it may be different from the value considered by the Client due to an intended use of the surveyed area.

PARAMETER	METER DESCRIPTION		EXAMPLES
	Very Low	1	Roofs, Cellactite sheets
Potential for	Low	2	Ceiling tiles, soffits
disturbance	Medium	3	Cable insulation
	High	4	Public areas, intentional disturbance

It is recommended that the Client undertakes a more detailed risk assessment taking into consideration other specific risks such as:

- . The use to which the location is put
- · The occupancy of the area
- · The activities carried out in the area
- The likelihood/frequency with which the maintenance activities are likely to take place.

Appendix 4: Priority Assessment

A **priority assessment score** of between 2 and 48 is arrived at by **multiplying** the material assessment score with the potential for disturbance rating.

Dui a vita	28+	High risk
Priority Assessment	21-27	Medium risk
Score	5-20	Low risk
00010	<5	Very low risk

High risk: Urgent attention required. Until action can be taken, the area should be

sealed.

Medium risk: Consideration should be given to removal, or as an absolute minimum,

remedial work may be appropriate. Until action can be taken, the area should

be sealed.

Low risk: A limited amount of remedial work may be required. The material should be

protected from further damage occurring. If necessary, the area should be

sealed off.

Very low risk: No action is required. As with all asbestos containing materials present on a

site, records must be kept in an accessible location at the site, and regular checks implemented of the condition of the material to detect any

deterioration.

On the basis of the priority assessment score, remedial action may be scheduled and/or a maintenance or inspection programme planned.

The priority assessment score contained within this report refers to the combination of the material assessment score and the potential for disturbance rating. Clients are advised to review the provided information taking into consideration other specific risks such as:

- The use to which the location is put
- The occupancy of the area
- The activities carried out in the area
- The likelihood/frequency with which the maintenance activities are likely to take place.

Appendix 5: Survey Site Sheets

AREA: Westminster CLIENT: LUL Connect DATE OF SURVEY: 09/02/04 SURVEYOR (S):

		Area Surve	yed		A	Ħ	t E	a t	Potential for Disturbance	SC		
Sample No.	Node Point	Location	Room/ Plant No	Material Description	Quantity /m²	Cuantity /m² Product Type	Current	Current Condition Surface Treatment		Asbestos	Comments and Recommendations	Photo
Ž.	N1-6	Vent plant	5/788	All walls, ceiling and floor							Solid with durasteel panels. No asbestos detected	
		Vent plant		Cable at high level on new containment		100					No Hazards	
	N6-8	Fan Room	5/785	All walls, ceiling and floor							Solid with durasteel panels	
		Fan Room		Cable at high level on new containment through existing hole							No Hazards	
S	N8-10	Fan Room	5/776	All walls, ceiling and floor			5 S			68	Solid	
		Fan Room		Cable at high level to existing core				98		36 6	No Hazards	
	n-10	Lobby	5/083	All walls, ceiling and floor							Solid	
		Lobby		New containment and new cored hole at high level							No Hazards	
	N+10	Lobby	5/082	All walls, ceiling and floor							Solid	
		Lobby		New containment and cored holes							No Hazards	

Material Description	Product Type	Current Condition	Surface Treatment	Potential for Disturbance	Asbestos Type
W Wall PW Partition wall C Ceiling F Floor FC Faise ceiling AFC Above faise ceiling CA Cable	Composite Nedium density High mable	Good condition Sight damage Amoderate damage Extensive damage	Composite 1.Encapsulated medium density 1.Dencapsulated medium density or treated highly fitable 3.Untreated highly fitable	1.Very Low 2.Low 3.Medium 4.High	P presumed SP strongly presumed O.Non-asbesto t.Chrysotlie 2.Amphibole excluding Crocidolite 3. Crocidolite

Lead Surveyor: Analyst: Signed:...No Samples Taken.....

Job No:

AREA: Westminster	CLIENT: LUL Connect	DATE OF SURVEY: 09/02/04	SURVEYOR (S):
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		Area Surve	yed		2.	#	ᆵ	e	for	SC		
Sample No.	Node Point	Location	Room/ Plant No	Material Description	Quantity /m²	Product Type	Current	Surface Treatment	Potential for Disturbance	Asbestos Type	Comments and Recommendations	Photo
	N13- 25	Stairs	5/631	All walls, ceiling and floor							Solid	
*		Stairs		Cable at high containment using new containment and core holes		10.7h		, ch	4.0		No Hazards	
	N25- 30	Disused	5/901	All walls, ceiling and floor			5.0				Solid	
		Disused		Cable at high level down wall 3 into isolators on wall new cored holes and existing containment							No Hazards	
	N42- N20	Platform 1		Cable to run whole length of platform at high level using new containment on existing RSJ's on to solid wall at either end							No Hazards	
	N33- 36	Relay Room	3/773	New cored hole onto durasteel panels with new containment			***		1		No Hazards	
	N38- 45	ОТХ		Cable at high level on new on new containment attached to RSJ							No Hazards	
	N40	Platform 1		Cable at high level onto brick wall using containment					2		No Hazards	
	N19- N22	Platform 1		Cable attached to wall on new containment		38 .	_ 80	305 S		18	No Hazards	

Material Description	Product Type	Current Condition	Surface Treatment	Potential for Disturbance	Asbestos Type
W Wall PW Partition wall C Ceiling F Floor FC False ceiling AFC Above false ceiling CA Cable	Composite Nedium density High fitable	Good condition Signit damage Amoderate damage Extensive damage	D.Composite 1.Encapsulated medium density 2.Unencapsulated medium density or treated highly fitable 3.Untreated highly fitable	1.Very Low 2.Low 3.Medium 4.High	P presumed SP strongy presumed 0.Non-asbestos 1.Chrysotlie 2.Amphibole excluding Crocidolite 3. Crocidolite

Lead Surveyor : Analyst : Signed:No Samples Taken...

AREA: Westminster	CLIENT: LUL Connect	DATE OF SURVEY: 09/02/04	SURVEYOR (S):
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		Area Survey	ed		ty (5	# 5	aut e	for	so	
Sample No.	Node Point	Location	Room/ Plant No	Material Description	Quantity /m²	Product Type	Condition	Surface Treatment	Potential for Disturbance	Asbestos Type	Comments and Recommendations Photo
	N23	Stairs	3/086	Cable on existing containment on solid wall up stairs	2						No Hazards
	N17- N18	OTX Platform 1		Cable on new containment attached to RSJ to Platform 2				208	9 9	0.08	No Hazards
	N55- N58	Platform 2		All cables PVC utilise any J hanger							No Hazards
	N46	Platform 2		Cable in existing containment through false ceiling on new containment to 3/788				50			No Hazards
	N61- N77	Platform 2		All walls, ceiling and floor							No Hazards
		Platform 2		Cable using new containment and cored holes attached to solid walls							No Hazards
		Platform 2		All wall, ceiling and floor							solid
		Platform 2		All cables				4.00			PVC
		Platform 2		Any J hangers can be utilised for route	5. 5.		31	59		0.08	No Hazards
	N82- 83		5/631	All walls, ceiling and floor				100 m			New containment new cored holes. Solid with durasteel panels

Material Description	Product Type	Current Condition	Surface Treatment	Potential for Disturbance	Asbestos Type
W Wall PW Partition wall C Ceiling F Floor FC Faice ceiling AFC Above faise ceiling CA Cable	1.Composite 2.Medium density 3.High triable	Good condition Silph damage Moderate damage Sizidensive damage	Composite 1.Enapsulated medium density 2.Unenapsulated medium density or treated highly friable 3.Untreated highly friable	1.Very Low 2.Low 3.Medium 4.High	P presumed SP strongy presumed LNon-asbestib 1.Chrysotlle 2.Amphibole excluding crocidotte 3. Crocidotte

Lead Surveyor : Signed: Analyst : Signed:No Samples Taken..........

AREA: Westminster	CLIENT: LUL Connect	DATE OF SURVEY: 13/02/04	SURVEYOR (S):
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		Area Survey	yed		2:	#	t E	a t	for	SC		
Sample No.	Node Point	Location	Room/ Plant No	Material Description	Quantity /m²	Product Type	Current	Surface Treatment	Potential for Disturbance	Asbestos Type	Comments and Recommendations	Photo
	N115- N97	Platform 3		All walls, ceiling and floor	0.	79	8.	000	30	100	Solid	
	è	Platform 3		All cables							PVC	
		Platform 3		Existing cable through to station areas							No Hazards	
	N94	Cable route	8/781	All walls, ceiling and floor							Solid	
		Cable route		Cable to use new and existing containment at high level with new cored holes							No Hazards	
	N112- N111	Switch Room	8/663	All walls, ceiling and floor							Solid	
		Switch Room		New cored hole from wall cable to run at high level using new containment							No Hazards	
	N92	Corridor	8/236	All walls, ceiling and floor							Solid	
		Corridor		Cable run at high level on new and existing containment with new cored holes							No Hazards	
	N88	Service Area	8/773	All walls, ceiling and floor							Solid	

Material Description	Product Type	Current Condition	Surface Treatment	Potential for Disturbance	Asbestos Type
W Wall PW Partition wall C Ceiling F Floor FC False ceiling AFC Above false ceiling CA Cable	Composite Medium density High frable	Good condition Silph damage Amoderate damage Amoderate damage Amoderate damage	Composite Conspeciate medium density Consequence medium density or treated highly fitable Consequence medium density or treated highly fitable Consequence medium density or treated highly fitable	1.Very Low 2.Low 3.Medium 4.High	P presumed SP strongy presumed O.Non-abbestos 1.Chrysotile 2.Amphibole excluding Crocidolite 3. Crocidolite

Lead Surveyor : Signed:pp......... Analyst : Signed:No Samples Taken..........

AREA: Westminster	CLIENT: LUL Connect	DATE OF SURVEY: 13/02/04	SURVEYOR (S):
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		Area Surve	yed		E.	#	nt Sn	e	for	SC		
Sample No.	Node Point	Location	Room/ Plant No	Material Description	Quantity /m²	Product Type	Current	Surface Treatment	Potential for Disturbance	Asbestos Type	Comments and Recommendations Pr	Photo
		Service Area		Cable at high level using new containment and new cored holes	2						No Hazards	
	N84- N83	Access Shaft	9/482	All walls, ceiling and floor	50		0.00	106	2 22	0.6	Solid	
		Access Shaft		Cable to use new and existing containment with new cored holes							No Hazards	
	N99- N101	CER	8/731	All walls, ceiling and floor							Solid	
		CER		Cable to use new and existing containment with new cored holes							No Hazards	
	N109	Scada	7/481	All walls, ceiling and floor				144			Solid	
		Scada		Cable to use new and existing containment with new cored holes							No Hazards	
	N27- N31	CER	2/731	All walls, ceiling and floor							Solid	
		CER		Cable to use new and existing containment with new cored holes		No.				10	All cables PVC	
	N25	Corridor	2/236	All walls, ceiling and floor						33	Solid	

Material Description	Product Type	Current Condition	Surface Treatment	Potential for Disturbance	Asbestos Type
W Wall PW Partition wall C Ceiling F Floor FC Faise ceiling AFC Above faise ceiling CA Cabbe	Composite Nedium density High fitable	Good condition All walls, sei ing and floor Sight damage Moderate damage Extensive damage	Composite 1.Encapsulated medium density 2.Unencapsulated medium density or treated highly fitable 3.Untreated highly fitable	1.Very Low 2.Low 3.Medium 4.High	P presumed SP strongy presumed 0.Non-asbestos 1.Chrysottle 2.Amphibote excluding Crocidottle 3. Crocidottle

Lead Surveyor Signed:pp........ Analyst : Signed:No Samples Taken.........

AREA: Westminster	CLIENT: LUL Connect	DATE OF SURVEY: 13/02/04	SURVEYOR (S):
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		Area Surve	yed		2	#	ᆵ	art e	for	SC		
Sample No.	Node Point	Location	Room/ Plant No	Material Description	Quantity /m²	Product Type	Current	Surface Treatment	Potential for Disturbance	Asbestos Type	Comments and Recommendations	Photo
		Corridor		False ceiling							No Hazards	
		Corridor		Cable to run at high level new cored hole and containment		100) 1	33		92	No Hazards	
20	N25- N24	Stairs	3/631	All walls, ceiling and floor						×	Solid	
		Stairs		Cable to run at high level using new containment							No Hazards	
	N71- N73	Stairs	3/633	All walls, ceiling and floor							Solid	
		Stairs		Cable to run at high level using new containment							No Hazards	
		Passage	2/201	All walls, ceiling and floor							Solid	
×	N16- 18	Fan Room	4/776	All walls, ceiling and floor							Solid	
-		Fan Room		Cable using new containment		100					No Hazards	
	N22	DIR Shaft	4/792	All walls, ceiling and floor							Solid	

Material Description	Product Type	Current Condition	Surface Treatment	Potential for Disturbance	Asbestos Type
W Wall PW Partition wall C Celling F Floor FC Faise celling AFC Above faise celling CA Cable	Composite Medium density High friable	Good condition Sight damage Active damage Extensive damage	Composite I.Encapsulated medium density Linencapsulated medium density or treated highly fitable Juritreated highly fitable	1.Very Low 2.Low 3.Medium 4.High	P presumed SP strongly presumed O.Non-abbestos 1.Chrysotile 2.Amphibole excluding Crocidolite 3. Crocidolite

AREA: Westminster		CLIENT: LUL Connect					DATE OF SUF	RVEY: 13/02/04	SURVEYOR (S):	
							- 0			

		Area Surveye	ed		4	t	늘등	e	for	so		
Sample No.	Node Point	Location	Room/ Plant No	Material Description	Quantit /m²	Produc	Condition	Surfac Treatme	Potentia Disturba	Asbest Type	Comments and Recommendations	Photo
		DIR Shaft		Existing containment new cored holes								

Material Description	Product Type	Current Condition	Surface Treatment	Potential for Disturbance	Asbestos Type
W Wall PW Partition wall C Ceiling F Floor FC Faice ceiling AFC Above faice ceiling CA Cable	Composite Medium density High friable	Good condition Sight damage Amoderate damage Extensive damage	O.Composite 1.Encapsulated medium density 2.Unencapsulated medium density or treated highly friable 3.Untreated highly friable	1.Very Low 2.Low 3.Medium 4.High	P presumed SP strongy presumed 0.Non-asbestos 1.Chrysotlie 2.Amphibole excluding crockfolite 3. Crockfolite

Lead Surveyor: Signed:pp..... Analyst:

Signed:No Samples Taken.....