



AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS

4-RAIL Services Ltd

CLIENT: [REDACTED] TEST DATE: 21/12/18
 ADDRESS: [REDACTED] PAGE NO.: 1 of 4
 [REDACTED] NUMBER: 183236
 SITE: ES6395b - HIGHGATE CERTIFICATE REF: C183236/211218/01
 TYPE OF TEST(S): Static: Background (B)/ Leak (L)/ Reassurance (R)/ Clearance (C); Personal (P) ISSUE NO: 01
 ANALYSIS LOCATION: 4-Rail AFM Lab, Unit 11, Neasden Office NO OF SAMPLES: 03
 REMOVAL OPERATION: Reassurance AFM during SOT trains on
 ASBESTOS REMOVAL CONTRACTOR (ARC): N/A TYPE OF ASBESTOS: Amphibole

SLIDE NO	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC ^N (f/ml)	FIBRE CONC ^N (f/ml)
243141	R	P1 - PLATFORM-2 SIB	0526	0606	12.3	442	2 1/2	145	0.01	0.007	<0.01
243142	R	P2 - PLATFORM-1 - N/S	0550	0630	12.3	442	1.0	145	0.01	0.007	<0.01
243143	FB	Field Blank Test	-	-	-	-	0	100	-	-	-

Flow rate correction made for temperature or pressure? Y/N

Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT

The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)

- HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)
- HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____
- All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY: [REDACTED] POSITION: Senior Technologist
 SLIDES COUNTED BY: [REDACTED] POSITION: Senior Technologist
 CERTIFICATE ISSUED BY: [REDACTED] POSITION: Senior Technologist
 SIGNATURE: [REDACTED] DATE: 21/12/18

SLIDE NO	HEAD/ PUMP NO.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
243141	VCI 402732	12.3	0526	12.3	0606								
243142	VCI 401843	12.3	0550	12.3	0630								
243143	VCI	-	-	-	-								

START PRESSURE 1000 mbar FINAL PRESSURE 1000 mbar PRESSURE MEASURED BY: NPL web site
 START TEMPERATURE 19.1°C FINAL TEMPERATURE: 19.1°C THERMOMETER REF: 402616

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE No. 400306	FOCUS CONDENSER SA-1	CENTRE CONDENSER SA-1	ALIGN PHASE RINGS SA-1
NPL TEST SLIDE No. 3520	NO OF VISIBLE BANDS 574	GRATICULE SLIDE No. 13877	GRATICULE DIAMETER 100 µm
NEXT CHECK DUE 28/03/19		NEXT CHECK DUE 28/03/19	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µm	1.2 µm	FILTER BATCH/ LOT NUMBER 16406-7DF-245
FLOW METER REFERENCE No 410287	CHECK DUE DATE 24/02/19	FLOW METER REFERENCE No	CHECK DUE DATE
TALLY COUNTER No.: 402847	DATE OF NEXT CHECK 25/03/19	TALLY COUNTER No.: 402463	DATE OF NEXT CHECK 25/03/19
TIMEPIECE 460034	CALIBRATION DUE DATE 25/03/19		

INSPECTION PRIOR TO WORK COMMENCING: YES NO N/A

ENCLOSURE / WORKSITE SIZE : _____ m²/m³ TIME OF VISUAL INSPECTION : _____

ENCLOSURE INTACT YES NO COMMENTS :

SMOKE TEST* CARRIED OUT IN ENCLOSURE YES NO RESULT : SATISFACTORY UNSATISFACTORY

INSPECTION RESULT SATISFACTORY UNSATISFACTORY

COMMENTS :

* WITNESSING THE SMOKE TEST LIES OUTSIDE THE SCOPE OF ACCREDITATION

INSPECTION DURING REMOVAL: YES NO N/A

ENCLOSURE INTACT YES NO COMMENTS :

AIR EXTRACTION UNIT(S) OPERATING YES NO COMMENTS :

CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.



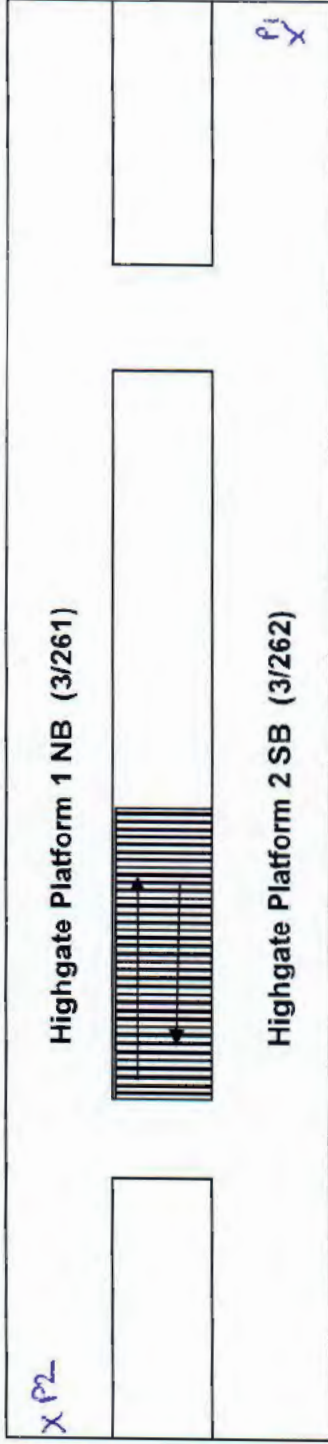
AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACIS TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

NOT TO SCALE

Northbound \longrightarrow To East Finchley



To Archway \longleftarrow Southbound

X	SAMPLE POSITION (APPROXIMATE)
NPU	NEGATIVE PRESSURE UNIT
AL	[REDACTED]
BL	[REDACTED]
DCU	DOWN UNIT
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS:

ARC'S REPRESENTATIVE ACKNOWLEDGEMENT
NAME _____ SIGNED _____ DATE _____ TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183236 CERTIFICATE NO C183236/211218 /01 PAGE NO 4 of 4

The opinions and interpretations expressed herein are outside the scope of the UKAS Accreditation.

TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 APP.1 7.0), IF APPROPRIATE: N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S): N/A

NPU FILTER AREA, IF REQUIRED (M²): N/A

0510 - ARRIVE ON SITE AND REPORTS TO SSO AT HIGHGATE STATION

0526 - AFMS (X 1) ACTIVATED ON PLATFORMS DURING SOT. Platform-2 SB

0550 AFM^(ix) ACTIVATED ON Platform-1 NB

0606 - AFMS (X 1) COLLECTED Platform-2 SB

0630 AFM^(ix) COLLECTED Platform-1 NB

0632 - 4-RAIL SIGN OUT WITH SSO

- RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

- AFMS COUNTED AND FOUND TO BE All satisfactory.

- PAPERWORK COMPLETED

* FIRST TRAIN PLATFORM-2 SB 0536 TNO 06

* FIRST TRAIN PLATFORM-1 NB 0600 TNO 110

Station Stamp:

STATION SUPERVISOR
HIGHGATE STATION

ψ NO VISIBLE DUST OBSERVED IN ANY OF THE PLATFORMS

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA.
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VAT Registration Number: 691 5975 82 Company Registration No.: 3256863



AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS

4-RAIL Services Ltd

CLIENT: [REDACTED] TEST DATE: 21/12/2018
 ADDRESS: [REDACTED] PAGE NO.: 1 of 4
 JOB NUMBER: 183236
 SITE: ES6395b - ARCHWAY PLATFORM 1&2 CERTIFICATE REF: C183236/211218/01x
 ISSUE NO: 001
 TYPE OF TEST(S): Static : Background (B)/ Leak (L)/ Reassurance (R)/ Clearance (C); Personal (P)
 ANALYSIS LOCATION: 4-Rail AFM Lab, Unit 11, Neasden Office NO OF SAMPLES: 3 / THREE
 REMOVAL OPERATION: Reassurance AFM during SOT trains on ARCHWAY PL 1&2
 ASBESTOS REMOVAL CONTRACTOR (ARC): N/A TYPE OF ASBESTOS: Amphibole

SLIDE NO	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC* (f/ml)	FIBRE CONC* (f/ml)
<u>246733</u>	<u>R</u>	<u>P1 PLATFORM 1 APPROACH END</u>	<u>05:50</u>	<u>06:35</u>	<u>12.3</u>	<u>553.5</u>	<u>0.5</u>	<u>174</u>	<u>0.01</u>	<u>0.001</u>	<u><0.01</u>
<u>246734</u>	<u>R</u>	<u>P2 PLATFORM 2 APPROACH END</u>	<u>05:28</u>	<u>06:13</u>	<u>12.5</u>	<u>553.5</u>	<u>1.0</u>	<u>174</u>	<u>0.01</u>	<u>0.001</u>	<u><0.01</u>
<u>246735</u>	<u>FB</u>	<u>Field Blank Test</u>	<u>05:50</u>	<u>05:31</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>100</u>	<u>-</u>	<u>-</u>	<u>-</u>

Flow rate correction made for temperature or pressure? Y/N
 Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT
 The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)
 HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)
 HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____
 All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY: [REDACTED] POSITION: TECHNICIAN
 SLIDES COUNTED BY: [REDACTED] POSITION: TECHNICIAN
 CERTIFICATE ISSUED BY: [REDACTED] POSITION: TECHNICIAN
 SIGNATURE: [REDACTED] DATE: 21/12/2018

SLIDE No	HEAD/ PUMP No.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
246793	B201 410611	12.5	05:30	12.3	06:35	12.3	06:05	-	-	-	-	-	-
246794	B202 410612	12.3	05:28	12.3	06:13	12.3	05:43	-	-	-	-	-	-
246795	B203	-	05:50	-	05:31	-	-	-	-	-	-	-	-

START PRESSURE 994 mbar FINAL PRESSURE 994 mbar PRESSURE MEASURED BY: NPL web site
 START TEMPERATURE 18 °C FINAL TEMPERATURE: 18 °C THERMOMETER REF: 460055

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE No. 401339	FOCUS CONDENSER SAT.	CENTRE CONDENSER SAT.	ALIGN PHASE RINGS SAT.
NPL TEST SLIDE No. 4654	NO OF VISIBLE BANDS 5TH	GRATICULE SLIDE No. 512-1	GRATICULE DIAMETER 100 µM
NEXT CHECK DUE 05/01/19		NEXT CHECK DUE 05/01/19	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µM <input checked="" type="checkbox"/>	1.2 µM	FILTER BATCH/BA 03218/01 LOT NUMBER 18903-452-157
FLOW METER REFERENCE No 402908	CHECK DUE DATE 07/02/19	FLOW METER REFERENCE No -	CHECK DUE DATE -
TALLY COUNTER No.: 410273	DATE OF NEXT CHECK 01/05/19	TALLY COUNTER No.: 441096	DATE OF NEXT CHECK 23/05/19
TIMEPIECE 460054	CALIBRATION DUE DATE 10/03/19		

INSPECTION PRIOR TO WORK COMMENCING: YES NO N/A

ENCLOSURE / WORKSITE SIZE : _____ M²/M³ TIME OF VISUAL INSPECTION : _____

ENCLOSURE INTACT YES NO COMMENTS :

SMOKE TEST* CARRIED OUT IN ENCLOSURE YES NO RESULT : SATISFACTORY UNSATISFACTORY

INSPECTION RESULT SATISFACTORY UNSATISFACTORY

COMMENTS :

* WITNESSING THE SMOKE TEST LIES OUTSIDE THE SCOPE OF ACCREDITATION

INSPECTION DURING REMOVAL: YES NO N/A

ENCLOSURE INTACT YES NO COMMENTS :

AIR EXTRACTION UNIT(S) OPERATING YES NO COMMENTS :

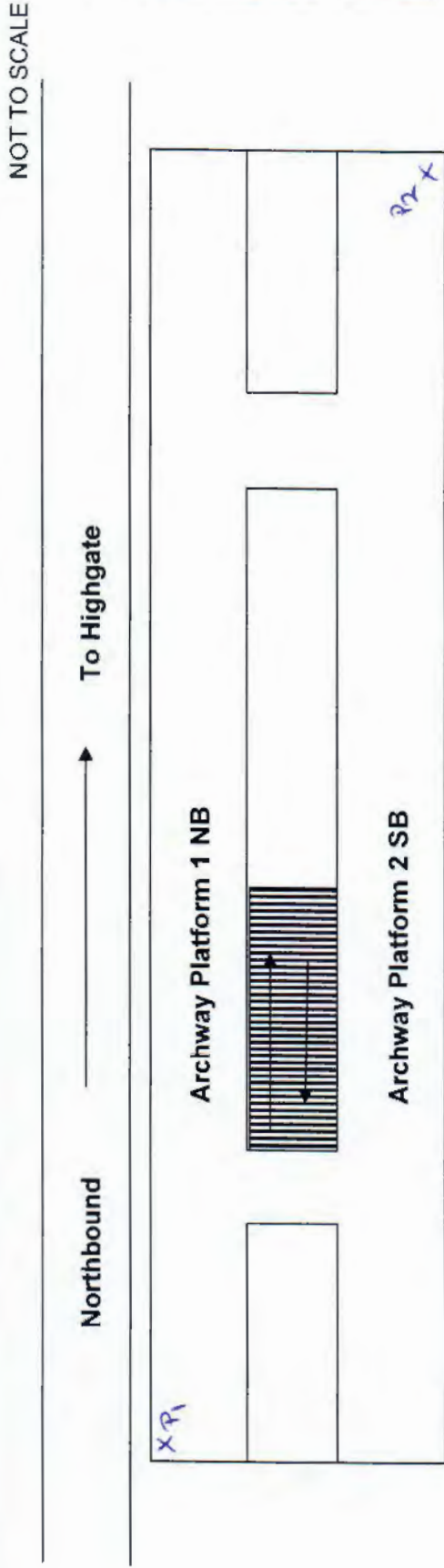
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AIRBORNE FIBRE MONITORING SITE DIAGRAM



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X	SAMPLE POSITION (APPROXIMATE)
NPU	NEGATIVE PRESSURE UNIT
AL	AIRLOCK
BL	BAGLOCK
DCU	DECONTAMINATION UNIT
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS:

ARC'S REPRESENTATIVE ACKNOWLEDGEMENT
 NAME _____ SIGNED _____ DATE _____ TIME _____

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 VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183236 CERTIFICATE NO C/183236/2112 18 /01X PAGE NO 4 of 4

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TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 APP.1 7.0), IF APPROPRIATE : N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S) : N/A

NPU FILTER AREA, IF REQUIRED (M²) : N/A

05:00 - ARRIVE ON SITE AND REPORTS TO SSO AT

05:28 - AFMS (x) ACTIVATED ON PLATFORMS DURING SOT.

06:35 - AFMS (x2) COLLECTED

06:45 - 4-RAIL SIGN OUT WITH SSO

07:20 - RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

07:40 - AFMS COUNTED AND FOUND TO BE

07:45 - PAPERWORK COMPLETED

Station Stamp:

ARCHWAY

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA.
Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
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VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

SLIDE No	HEAD/PUMP No.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
245022	SM 01 / 402730	12.3	05:41	12.3	06:22	12.3	05:56	-	-	-	-	-	-
245023	SM 07 / 402731	12.3	05:58	12.3	06:40	12.3	06:13	-	-	-	-	-	-
245024	SM 01 / -	-	-	-	-	-	-	-	-	-	-	-	-

START PRESSURE 1001 mbar FINAL PRESSURE 1001 mbar PRESSURE MEASURED BY: NPL web site
 START TEMPERATURE 14.1°C FINAL TEMPERATURE: 14.3°C THERMOMETER REF: 410780

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE No. 401329	FOCUS SATISFACTORY	CENTRE SATISFACTORY	ALIGN PHASE RINGS SATISFACTORY
NPL TEST SLIDE No. 3520	NO OF VISIBLE BANDS 5	GRATICULE SLIDE No. 13877	GRATICULE DIAMETER 100 µM
NEXT CHECK DUE 23/03/18		NEXT CHECK DUE 23/03/18	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µM <input checked="" type="checkbox"/>	1.2 µM	FILTER BATCH/ LOT NUMBER 17036-7E0-116 SIC190212/1
CALC. AREA OF EXPOSED FILTER 22.0 MM			
FLOW METER REFERENCE No 441045	CHECK DUE DATE 04/02/19	FLOW METER REFERENCE No 402356	CHECK DUE DATE 04/02/19
TALLY COUNTER No.: 402466	DATE OF NEXT CHECK 23/03/18	TALLY COUNTER No.: 402465	DATE OF NEXT CHECK 23/03/18
TIMEPIECE 460033	CALIBRATION DUE DATE 19/01/19		

INSPECTION PRIOR TO WORK COMMENCING: YES NO N/A

ENCLOSURE / WORKSITE SIZE: _____ M²/M³ TIME OF VISUAL INSPECTION: _____

ENCLOSURE INTACT YES NO COMMENTS:

SMOKE TEST* CARRIED OUT IN ENCLOSURE YES NO RESULT: SATISFACTORY UNSATISFACTORY

INSPECTION RESULT SATISFACTORY UNSATISFACTORY

COMMENTS:

* WITNESSING THE SMOKE TEST LIES OUTSIDE THE SCOPE OF ACCREDITATION

INSPECTION DURING REMOVAL: YES NO N/A

ENCLOSURE INTACT YES NO COMMENTS:

AIR EXTRACTION UNIT(S) OPERATING YES NO COMMENTS:

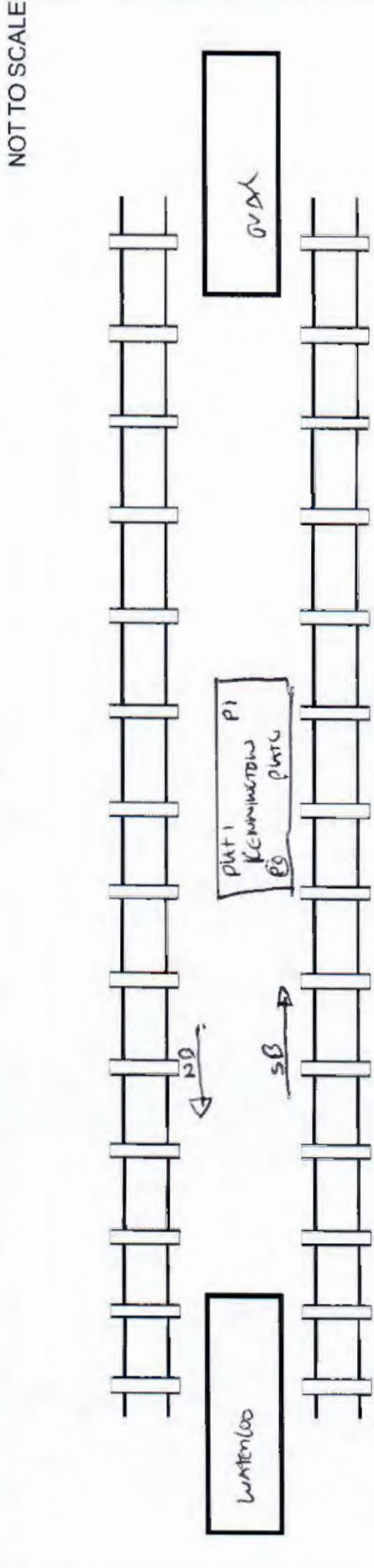
CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.



AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMS TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.



X	SAMPLE POSITION (APPROXIMATE)
NPU	NEGATIVE PRESSURE UNIT
AL	AIRLOCK
BL	BAGLOCK
DCU	DECONTAMINATION UNIT
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS: <u>WIMBOR TUNNEL - DUST</u>

ARC'S REPRESENTATIVE ACKNOWLEDGEMENT
NAME _____ SIGNED _____ DATE _____ TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

c/183236/211218103

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183236 CERTIFICATE NO C/183236/211218 103 PAGE NO 4 of 4

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TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 APP.1 7.0), IF APPROPRIATE: N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S): N/A

NPU FILTER AREA, IF REQUIRED (M²): N/A


05:40 - ARRIVE ON SITE AND REPORTS TO SSO AT 11ENNINGTON

05:41 - AFMS (x 2) ACTIVATED ON PLATFORMS DURING SOT.

06:40 - AFMS (x 2) COLLECTED

06:45 - 4-RAIL SIGN OUT WITH SSO

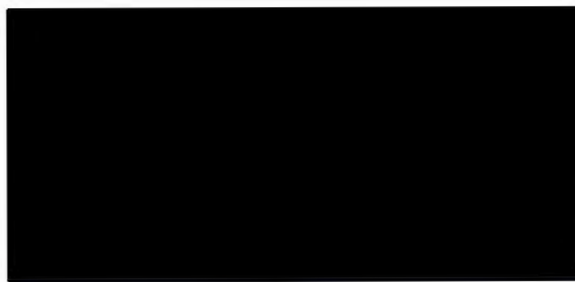
07:20 - RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

07:46 - AFMS COUNTED AND FOUND TO BE SATISFACTORY 20.01 

07:45 - PAPERWORK COMPLETED

Station Stamp:

No Stamp KIM SSO-





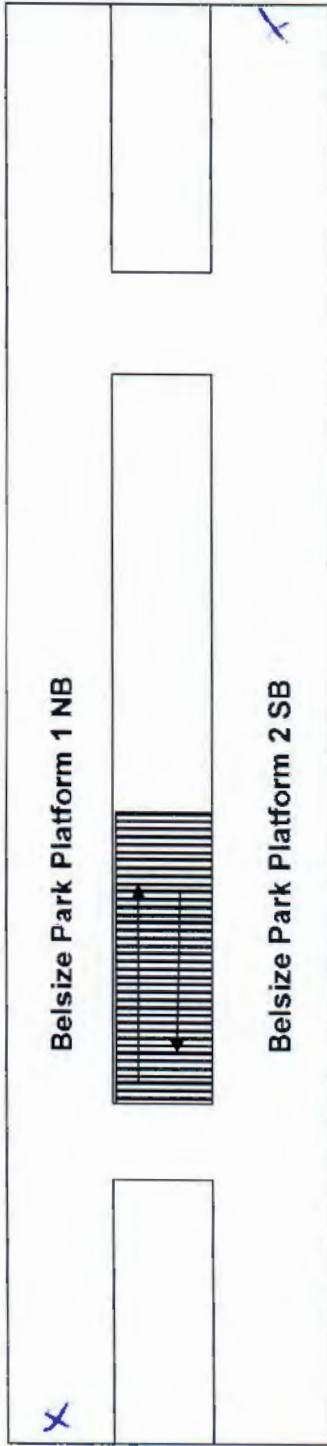
AIRBORNE FIBRE MONITORING SITE DIAGRAM



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NOT TO SCALE

Northbound → To Hampstead



← To Chalk Farm Southbound

X	SAMPLE POSITION (APPROXIMATE)
NPU	NEGATIVE PRESSURE UNIT
AL	AIRLOCK
BL	BAGLOCK
DCU	DECONTAMINATION UNIT
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS: —

ARC'S REPRESENTATIVE ACKNOWLEDGEMENT

NAME _____ SIGNED _____

DATE _____

TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183236 CERTIFICATE NO C/183236/24218/01 PAGE NO 4 of 4

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CONDITION OF SITE LABORATORY ASSESSED (E203 APP.1 7.0), IF APPROPRIATE: N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S): N/A

NPU FILTER AREA, IF REQUIRED (M²): N/A

- ARRIVE ON SITE AND REPORTS TO SSO AT 0525

- AFMs (x 7) ACTIVATED ON PLATFORMS DURING SOT. 0530

- AFMs (x 7) COLLECTED 0635

- 4-RAIL SIGN OUT WITH SSO 0640

- RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMs

- AFMs COUNTED AND FOUND TO BE SATISFACTORY (CO. OFFICE)

- PAPERWORK COMPLETED

Station Stamp:

BELSIZE PARK



1931

AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS

4-RAIL

Services Ltd

CLIENT: [REDACTED] TEST DATE: 24/12/2018
 ADDRESS: [REDACTED] PAGE NO.: 1 of 4
 SITE: ES6395b - HAMPSHIRE JOB NUMBER: 183236
 TYPE OF TEST(S): Static: Background (B)/ Leak (L)/ Reassurance (R)/ Clearance (C); Personal (P) CERTIFICATE REF: C183236/241218/02
 ANALYSIS LOCATION: 4-Rail AFM Lab, Unit 11, Neasden Office NO OF SAMPLES: 3 | THREE |
 REMOVAL OPERATION: Reassurance AFM during SOT trains on HAMPSHIRE PL 1 P 2
 ASBESTOS REMOVAL CONTRACTOR (ARC): N/A TYPE OF ASBESTOS: Amphibole

SLIDE NO	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC* (f/ml)	FIBRE CONC* (f/ml)
<u>246998</u>	<u>R</u>	<u>P1 - SOUTHBOUND PLATFORM APPROACH END</u>	<u>05:28</u>	<u>06:08</u>	<u>12.3</u>	<u>492</u>	<u>1.0</u>	<u>195</u>	<u>0.01</u>	<u>0.001</u>	<u><0.01</u>
<u>246799</u>	<u>R</u>	<u>P2 - NORTHBOUND PLATFORM APPROACH END</u>	<u>05:56</u>	<u>06:36</u>	<u>12.3</u>	<u>492</u>	<u>2.0</u>	<u>195</u>	<u>0.01</u>	<u>0.001</u>	<u><0.01</u>
<u>246800</u>	<u>FB</u>	<u>Field Blank Test</u>	<u>05:30</u>	<u>05:31</u>	<u>-</u>	<u>-</u>	<u>0</u>	<u>100</u>	<u>-</u>	<u>-</u>	<u>-</u>

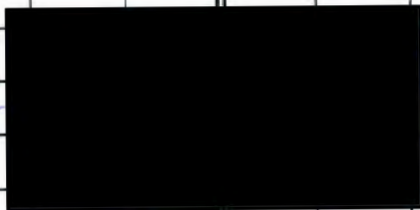
Flow rate correction made for temperature or pressure? Y/N
 Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT
 The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)
 HSE Recognised Clearance Indicator Limit: **<0.01 fibres/ml.** (applicable to static samples)
 HSE 4-hour Control Limit: **0.1 fibres/ml.** (applicable to personal samples) Respirator: _____
 All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY: [REDACTED] POSITION: TECHNICIAN
 SLIDES COUNTED BY: [REDACTED] POSITION: TECHNICIAN
 CERTIFICATE ISSUED BY: [REDACTED] POSITION: TECHNICIAN
 SIGNATURE: [REDACTED] DATE: 24/12/2018

SLIDE NO	HEAD/ PUMP No.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
246798	BLO1 410611	12.3	05:28	12.3	06:08	12.3	05:43	-	-	-	-	-	-
246799	BLO2 410612	12.3	05:56	12.3	06:36	12.3	06:11	-	-	-	-	-	-
246800	BLO3	-		-		-		-		-		-	



START PRESSURE 1022 mbar FINAL PRESSURE 1022 mbar PRESSURE MEASURED BY: NPL web site
 START TEMPERATURE 21 °C FINAL TEMPERATURE: 21 °C THERMOMETER REF: 460055

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE NO. 401339	FOCUS CONDENSER SAT	CENTRE CONDENSER SAT	ALIGN PHASE RINGS SAT
NPL TEST SLIDE NO. 4654	NO OF VISIBLE BANDS STA	GRATICULE SLIDE NO. S12-1	GRATICULE DIAMETER 100 µM
NEXT CHECK DUE 05/01/19		NEXT CHECK DUE 05/11/19	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µM ✓	1.2 µM -	FILTER BATCH/ LOT NUMBER BA031218/01 18903-#E2-157
CALC. AREA OF EXPOSED FILTER 22.0 MM			
FLOW METER REFERENCE NO 402908	CHECK DUE DATE 07/02/19	FLOW METER REFERENCE NO -	CHECK DUE DATE -
TALLY COUNTER NO.: 410273	DATE OF NEXT CHECK 01/05/18	TALLY COUNTER NO.: 441096	DATE OF NEXT CHECK 23/05/19
TIMEPIECE 460054	CALIBRATION DUE DATE 10/03/19		

INSPECTION PRIOR TO WORK COMMENCING: YES NO N/A

ENCLOSURE / WORKSITE SIZE : _____ M²/M³ TIME OF VISUAL INSPECTION : _____

ENCLOSURE INTACT YES NO COMMENTS :

SMOKE TEST* CARRIED OUT IN ENCLOSURE YES NO RESULT : SATISFACTORY UNSATISFACTORY

INSPECTION RESULT SATISFACTORY UNSATISFACTORY

COMMENTS :

* WITNESSING THE SMOKE TEST LIES OUTSIDE THE SCOPE OF ACCREDITATION

INSPECTION DURING REMOVAL: YES NO N/A

ENCLOSURE INTACT YES NO COMMENTS :

AIR EXTRACTION UNIT(S) OPERATING YES NO COMMENTS :

CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.



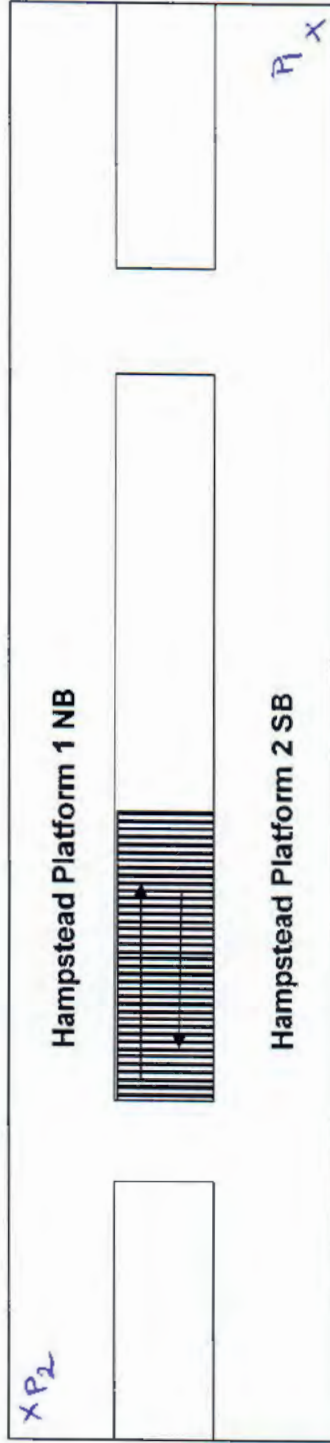
AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

NOT TO SCALE

Northbound \longrightarrow To Golders Green



To Belsize Park \longleftarrow Southbound

X	SAMPLE POSITION (APPROXIMATE)
NPU	NEGATIVE PRESSURE UNIT
AL	AIRLOCK
BL	BAGLOCK
DCU	DECONTAMINATION UNIT
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS:

ARC'S REPRESENTATIVE ACKNOWLEDGEMENT

NAME _____ SIGNED _____ DATE _____ TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB No 183236 CERTIFICATE No C/183236/24 12 18 /02 PAGE No 4 of 4

The opinions and interpretations expressed herein are outside the scope of the UKAS Accreditation.

TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 App.1 7.0), IF APPROPRIATE: N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S): N/A

NPU FILTER AREA, IF REQUIRED (M²): N/A

05:00 - ARRIVE ON SITE AND REPORTS TO SSO AT

05:28 - AFMs (x2) ACTIVATED ON PLATFORMS DURING SOT.

06:36 - AFMs (x 2) COLLECTED

06:45 - 4-RAIL SIGN OUT WITH SSO

07:20 - RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

07:30 - AFMS COUNTED AND FOUND TO BE

08:00 - PAPERWORK COMPLETED

Station Stamp:

HAINSTED



AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS

4-RAIL Services Ltd

CLIENT
ADDRESS



TEST DATE: 24/12/18
PAGE NO: 1 of 4
JOB NUMBER: 183236
CERTIFICATE REF: C183236/241218/3
ISSUE NO: 001

SITE: SUBSILVE LINE - ST. JOHN'S WOOD STATION
TYPE OF TEST(S): Static : Background (B)/ Leak (L)/ Reassurance (R) / Clearance (C); Personal (P)

ANALYSIS LOCATION: HRS - NEWSDESK OFFICE - 11TH FLOOR NO OF SAMPLES: 3 - THREE

REMOVAL OPERATION: AIR FIBRE MONITORING DURING TRAIN MOVEMENTS (START OF TRAFFIC)

ASBESTOS REMOVAL CONTRACTOR (ARC): N/A TYPE OF ASBESTOS: UNKNOWN

SLIDE NO	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC ^N (f/ml)	FIBRE CONC ^N (f/ml)
267421	R	SOUTHBOUND PLATFORM 2	05:19	06:00	12.3	504.3	0.5	190	0.01	0.001	0.01
267422	R	NORTHBOUND PLATFORM 1	05:39	06:20	12.3	504.3	0.5	190	0.01	0.001	0.01
267423	-	FIELD BLANK	05:40	05:41	-	-	0	100	-	-	-

Flow rate correction made for temperature or pressure? Y N
Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT
The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)
 HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)
 HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____
 All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY:		POSITION:	<u>SNR. TECHNOLOGIST</u>
SLIDES COUNTED BY:		POSITION:	<u>SNR. TECHNOLOGIST</u>
CERTIFICATE ISSUED BY:		POSITION:	<u>SNR. TECHNOLOGIST</u>
SIGNATURE:		DATE:	<u>24/12/18</u>

SLIDE NO	HEAD/PUMP NO.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
26421	410602	12.3	05:19	12.3	06:00	12.3	05:34	12.3	06:00	—	—	—	—
26422	410603	12.3	05:39	12.3	06:20	12.3	05:52	12.3	06:20	—	—	—	—
26423	—	—	05:40	—	05:41	—	—	—	—	—	—	—	—
[REDACTED]						[REDACTED]							

START PRESSURE 124.5 mbar

FINAL PRESSURE 1028.8 mbar

PRESSURE MEASURED BY: NRL ONLINE THERMOMETER

START TEMPERATURE 12.0 °C

FINAL TEMPERATURE: 15.6 °C

THERMOMETER REF: 410289

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE No. 106	FOCUS <u>Satisfactory</u>		CENTRE <u>Satisfactory</u>		ALIGN PHASE RINGS <u>Satisfactory</u>
NPL TEST SLIDE No. 3950	NO OF VISIBLE BANDS <u>6</u>	GRATICULE SLIDE No. <u>52-1</u>		GRATICULE DIAMETER <u>101</u> μM	
NEXT CHECK DUE <u>7/5/19</u>		NEXT CHECK DUE <u>05/01/19</u>			
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 μM <input checked="" type="checkbox"/>	1.2 μM	FILTER BATCH/LOT NUMBER <u>291018/02 18058-7E1-226</u>	CALC. AREA OF EXPOSED FILTER 22.0 MM	
FLOW METER REFERENCE No. <u>410419</u>	CHECK DUE DATE <u>21/2/19</u>	FLOW METER REFERENCE No. <u>/</u>		CHECK DUE DATE <u>/</u>	
TALLY COUNTER No.: <u>441 098</u>	DATE OF NEXT CHECK <u>18/5/19</u>	TALLY COUNTER No.: <u>402435</u>		DATE OF NEXT CHECK <u>7/5/19</u>	
TIMEPIECE <u>460038</u>	CALIBRATION DUE DATE <u>13/2/19</u>				

INSPECTION PRIOR TO WORK COMMENCING: YES NO N/A

ENCLOSURE / WORKSITE SIZE: _____ M²/M³ TIME OF VISUAL INSPECTION: _____

ENCLOSURE INTACT YES NO COMMENTS: _____

SMOKE TEST* CARRIED OUT IN ENCLOSURE YES NO RESULT: SATISFACTORY UNSATISFACTORY

INSPECTION RESULT SATISFACTORY UNSATISFACTORY

COMMENTS: _____

* WITNESSING THE SMOKE TEST LIES OUTSIDE THE SCOPE OF ACCREDITATION

INSPECTION DURING REMOVAL: YES NO N/A

ENCLOSURE INTACT YES NO COMMENTS: _____

AIR EXTRACTION UNIT(S) OPERATING YES NO COMMENTS: _____

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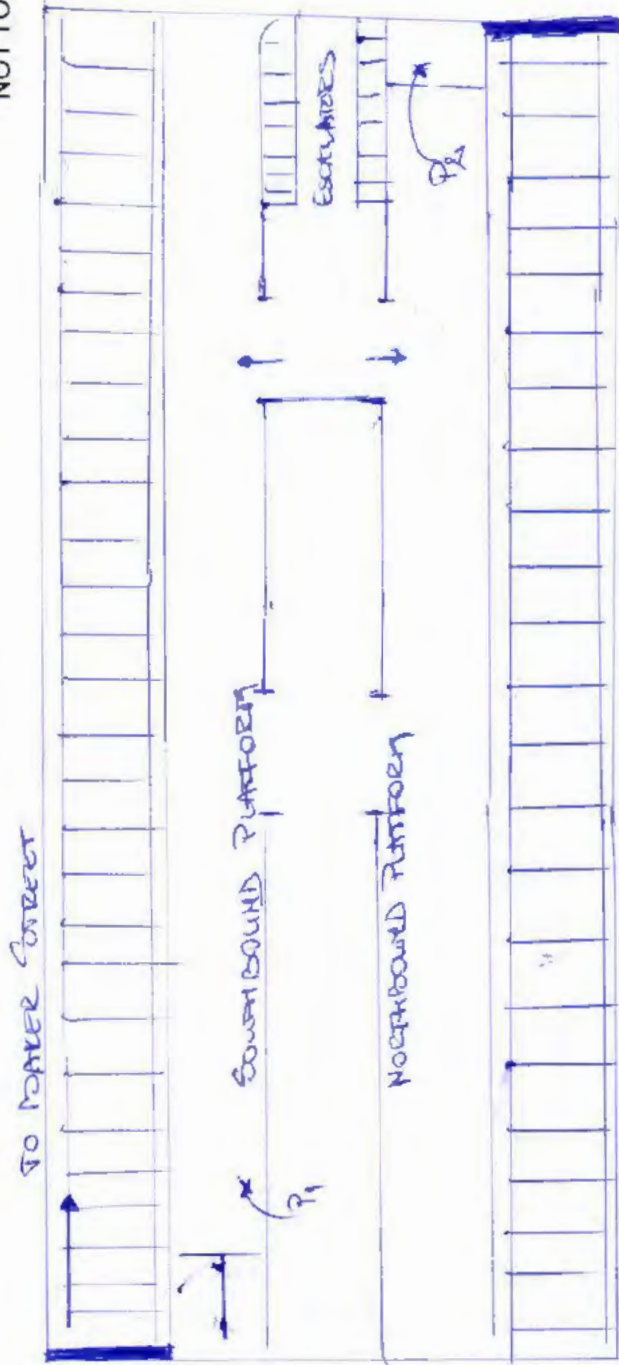
AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

ST. JOHN'S WOOD
(JURISDICTION LINE)

NOT TO SCALE



X	SAMPLE POSITION (APPROXIMATE)
NPU	NEGATIVE PRESSURE UNIT
AL	AIRLOCK
BL	BAGLOCK
DCU	DECONTAMINATION UNIT
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS. ACMS WITHIN NOISE-SHIELD SECTIONS. J.H
	CLUBSIDE LINE

ARC's REPRESENTATIVE ACKNOWLEDGEMENT
NAME N/A SIGNED N/A DATE 24/12/18 TIME 05:50

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

C180236/24/12/18/023
JP

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB No 183236 CERTIFICATE No C183236/241218/15 PAGE No 4 of 4

The opinions and interpretations expressed herein are outside the scope of the UKAS Accreditation.

TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 App.1 7.0), IF APPROPRIATE :

AIR VELOCITY OF NPU, IF REQUIRED (M/S) :

NPU FILTER AREA, IF REQUIRED (M²) :

05:10 [REDACTED] ON SITE. SIGNS IN WITH STATION SUPERVISOR AND INFORMS OF WORKS TO BE CARRIED OUT: AFM FOR REASSURANCE PURPOSES (POST-ENGINEERING WORKS) ON BOTH (JUBILEE LINE) PLATFORMS.

05:19 P₁ ACTIVATED ON SOUTH BOUND PLATFORM ON HEAD W/ATU

05:39 P₂ ACTIVATED ON NORTH BOUND PLATFORMS (HEAD *ATU)

06:00 P₁ COMPLETES AIR SAMPLING

06:20 P₂ COMPLETES AIR SAMPLING

06:30 All AFM COMPLETE.

[REDACTED] INFORMS STATION SUPERVISOR OF COMPLETION OF WORKS. [REDACTED] GOES OFF.

All slides from during this air sampling session were counted and the results were satisfactory (20.01 f/ml)

STATION'S WOODS

SLIDE NO	HEAD/ PUMP NO.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
245022	SM/01/402730	12.3	05:18	12.3	05:59	12.3	05:33	-	-	-	-	-	-
245023	SM/01/402731	12.3	05:42	12.3	06:22	12.3	05:57	-	-	-	-	-	-
245024	SM/03/---	-	-	-	-	-	-	-	-	-	-	-	-

START PRESSURE 1027.8 mbar FINAL PRESSURE 1027.6 mbar PRESSURE MEASURED BY: NPL web site
 START TEMPERATURE 18.4°C FINAL TEMPERATURE: 18.5°C THERMOMETER REF: 410780

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE No. 400306	FOCUS CONDENSER <i>unsatisfactory</i>	CENTRE CONDENSER <i>satisfactory</i>	ALIGN PHASE RINGS <i>satisfactory</i>
NPL TEST SLIDE No. 3950	NO OF VISIBLE BANDS <i>5</i>	GRATICULE SLIDE No. S12-1	GRATICULE DIAMETER 100 µm
NEXT CHECK DUE 07/05/19		NEXT CHECK DUE 05/01/19	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µm <input checked="" type="checkbox"/>	1.2 µm	FILTER BATCH/ LOT NUMBER 18900752-127 <i>AP0 1111601</i>
FLOW METER REFERENCE No 441045	CHECK DUE DATE 04/02/19	FLOW METER REFERENCE No 402356	CHECK DUE DATE
TALLY COUNTER No.: 44035	DATE OF NEXT CHECK 07/05/19	TALLY COUNTER No.: 441098	DATE OF NEXT CHECK 23/05/19
TIMEPIECE 460033	CALIBRATION DUE DATE 19/02/19		

INSPECTION PRIOR TO WORK COMMENCING: YES NO N/A

ENCLOSURE / WORKSITE SIZE: _____ M²/M³ TIME OF VISUAL INSPECTION: _____

ENCLOSURE INTACT YES NO COMMENTS:

SMOKE TEST* CARRIED OUT IN ENCLOSURE YES NO RESULT: SATISFACTORY UNSATISFACTORY

INSPECTION RESULT SATISFACTORY UNSATISFACTORY

COMMENTS:

* WITNESSING THE SMOKE TEST LIES OUTSIDE THE SCOPE OF ACCREDITATION

INSPECTION DURING REMOVAL: YES NO N/A

ENCLOSURE INTACT YES NO COMMENTS:

AIR EXTRACTION UNIT(S) OPERATING YES NO COMMENTS:

CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.

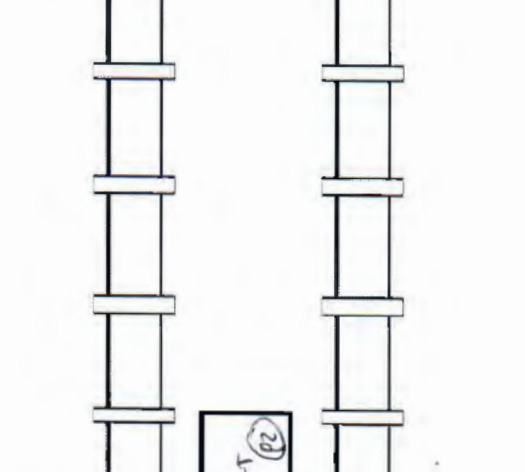


AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

NOT TO SCALE



X	SAMPLE POSITION (APPROXIMATE)
NPU	NEGATIVE PRESSURE UNIT
AL	AIRLOCK
BL	BAGLOCK
DCH	DECONTAMINATION UNIT
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS: <i>within 10m to lower pin of M</i>

ARC's REPRESENTATIVE ACKNOWLEDGEMENT

NAME _____ SIGNED _____ DATE _____ TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
 T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
 VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

d/188236/24/178/04

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183236 CERTIFICATE NO C/183236/241228 104 PAGE NO 4 of 4

The opinions and interpretations expressed herein are outside the scope of the UKAS Accreditation.

TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 App.1 7.0), IF APPROPRIATE: N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S) : N/A

NPU FILTER AREA, IF REQUIRED (M²) : N/A

05.00 - ARRIVE ON SITE AND REPORTS TO SSO AT BAKER STREET

05.18 - AFMs (x 2) ACTIVATED ON PLATFORMS DURING SOT.

06.22 - AFMs (x 2) COLLECTED

06.30 - 4-RAIL SIGN OUT WITH SSO

07.10 - RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

07.25 - AFMS COUNTED AND FOUND TO BE SATISFACTORY 20.0

07.30 - PAPERWORK COMPLETED

Station Stamp:

STATION SUPERVISOR
LONDON UNDERGROUND
BAKER STREET STATION
AUTOMATIC 1901

LONDON UNDERGROUND LIMITED

BAKER STREET VISITOR

Fire Precautions Act 1971 Section 12 Regulations

Pass No: **44**

Valid Date: 24.12.18

IN CASE OF EMERGENCY

- 1: Clear The Area Of People Who May Be In Danger
- 2: Do Not Touch Any Objects That Look Suspicious
- 3: Tell The Line Controller On 910, Station Supervisor On 41505 Or Any Other Member Of Staff And Obey Their Instructions
- 4: Tackle The Emergency Or Assist Staff But Do Not Endanger Yourself Or Others
- 5: In The Event Of An Evacuation, Go To The Assembly Point
- 6: IF YOU CAN'T REACH THE ASSEMBLY POINT, TELL THE LINE CONTROLLER ON: 0207 935 1500 Or 0800 616861
- 7: Do Not Re-Enter The Station Until Given The All Clear

CORNER OF STATION FORECOURT & ALLSOP PLACE

SMOKING IS NOT ALLOWED ANYWHERE ON THIS STATION



1931

AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS

4-RAIL Services Ltd

CLIENT
ADDRESS



TEST DATE 27/12/18
PAGE NO. 1 of 4
JOB NUMBER 183236
CERTIFICATE REF: C183236/271218/01
ISSUE NO: 001

SITE ES63956 - CAMDEN TOWN PLATFORMS 1,2
TYPE OF TEST(S) Static: Background (B) / Leak (L) / Reassurance (R) / Clearance (C) / Personal (P)

ANALYSIS LOCATION 4 RAIL OFFICES, UNIT 11, NEASDEN NO OF SAMPLES 3 - THREE

REMOVAL OPERATION REASSURANCE AFM DURING SOT TRAINS ON PLATFORMS 1 AND 2

ASBESTOS REMOVAL CONTRACTOR (ARC) N/A TYPE OF ASBESTOS AMPHIBOLE

SLIDE No	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC ^N (f/ml)	FIBRE CONC ^N (f/ml)
378536	R	P1-CAMDEN TOWN ST - N/S - PLATFORM 1	05:49	06:35	12.3	565.8	0.5	176	0.01	0.001	<0.01
378537	R	P2-CAMDEN TOWN ST - S/B PLATFORM 2	05:53	06:37	12.3	544.2	0.5	177	0.01	0.001	<0.01
378538	-	FIELD BLANK	06:01	06:02	-	-	0	100	-	-	-

Flow rate correction made for temperature or pressure? Y

Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT

The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)

- HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)
- HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____
- All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY:
SLIDES COUNTED BY:
CERTIFICATE ISSUED BY:
SIGNATURE:

POSITION: Senior Technician / Technologist
POSITION: Senior Technician
POSITION: Senior Technician
DATE: 27/12/18

SLIDE No	HEAD/PUMP No.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
348536	STH11/ 402730	12.3	0549	12.3	0635	12.3	0607	-	-	-	-	-	-
348537	STH07/ 402731	12.3	0553	12.3	0637	12.3	0611	-	-	-	-	-	-
348538	AR03	-	0601	-	0602	-	-	-	-	-	-	-	-

START PRESSURE 1023.2 mbar FINAL PRESSURE 1025.2 mbar PRESSURE MEASURED BY: NPL USB STR
 START TEMPERATURE 17.3 °C FINAL TEMPERATURE: 19.0 °C THERMOMETER REF: 41078

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE No. 401339	FOCUS SATISFACTORY CONDENSER	CENTRE SATISFACTORY CONDENSER	ALIGN PHASE RINGS SATISFACTORY
NPL TEST SLIDE No. 6053	NO OF VISIBLE BANDS 5+	GRATICULE SLIDE No. 6301	GRATICULE DIAMETER 100 µM
NEXT CHECK DUE 05/01/19		NEXT CHECK DUE 05/01/19	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µM <input checked="" type="checkbox"/>	1.2 µM	FILTER BATCH/ APO 190518/01 LOT NUMBER 18008-7E1-179
FLOW METER 402819 REFERENCE No	CHECK DUE DATE 5/03/19	FLOW METER REFERENCE No -	CHECK DUE DATE -
TALLY COUNTER No.: 410273	DATE OF NEXT CHECK 01/05/19	TALLY COUNTER No.: 441097	DATE OF NEXT CHECK 01/05/19
TIMEPIECE 460040	CALIBRATION DUE DATE 22/04/19		

INSPECTION PRIOR TO WORK COMMENCING: YES NO N/A

ENCLOSURE / WORKSITE SIZE: _____ M²/M³ TIME OF VISUAL INSPECTION: _____

ENCLOSURE INTACT YES NO COMMENTS:

SMOKE TEST* CARRIED OUT IN ENCLOSURE YES NO RESULT: SATISFACTORY UNSATISFACTORY

INSPECTION RESULT SATISFACTORY UNSATISFACTORY

COMMENTS:

* WITNESSING THE SMOKE TEST LIES OUTSIDE THE SCOPE OF ACCREDITATION

INSPECTION DURING REMOVAL: YES NO N/A

ENCLOSURE INTACT YES NO COMMENTS:

AIR EXTRACTION UNIT(S) OPERATING YES NO COMMENTS:

CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.



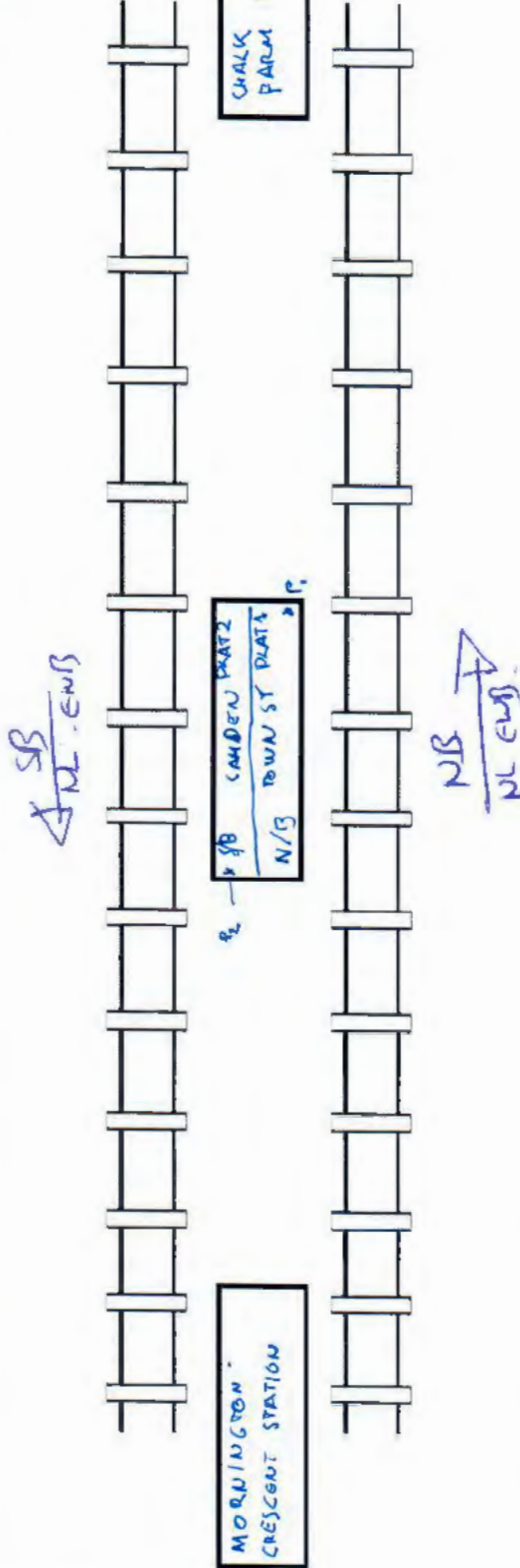
1931

AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

NOT TO SCALE



X	SAMPLE POSITION (APPROXIMATE)
NPU	NEGATIVE PRESSURE UNIT
AL	AIRLOCK
BL	BAGLOCK
DCU	DECONTAMINATION UNIT
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS: <i>see notes / my work</i>

ARC's REPRESENTATIVE ACKNOWLEDGEMENT

NAME *u/a*

SIGNED *N/A*

DATE *27/12/18*

TIME *06:31*

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
 T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
 VAT Registration Number: 691 5975 82 Company Registration No.: 32568663

c/183236/271218/01

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183236 CERTIFICATE NO C/183236/ /01 PAGE NO 4 of 4

The opinions and interpretations expressed herein are outside the scope of the UKAS Accreditation.

TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 APP.1 7.0), IF APPROPRIATE: N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S): N/A

NPU FILTER AREA, IF REQUIRED (M²): N/A

04:50 - ARRIVE ON SITE AND REPORTS TO SSO AT CAMDEN TOWN STATION

05:50 - AFMs (x 2) ACTIVATED ON PLATFORMS DURING SOT.

06:40 - AFMs (x 2) COLLECTED

06:45 - 4-RAIL SIGN OUT WITH SSO

07:30 RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMs

08:50 - AFMs COUNTED AND FOUND TO BE SATISFACTORY < 0.01



09:10 - PAPERWORK COMPLETED

Station Stamp:

Station Supervisor
Camden T





AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS

4-RAIL Services Ltd

CLIENT: [REDACTED] TEST DATE: 27/12/18
 ADDRESS: [REDACTED] PAGE NO.: 1 of 4
 JOB NUMBER: 183236
 SITE: ES6395b - CHAIL FARM NL CERTIFICATE REF: C183236/271218/02
 ISSUE NO: 01
 TYPE OF TEST(S): Static: Background (B) / Leak (L) / Reassurance (R) / Clearance (C) / Personal (P)
 ANALYSIS LOCATION: 4-Rail AFM Lab, Unit 11, Neasden Office NO OF SAMPLES: 3 - THREE
 REMOVAL OPERATION: Reassurance AFM during SOT trains on PLATFORMS 1 & 2 OF NL. EDWARE BRANCH.
 ASBESTOS REMOVAL CONTRACTOR (ARC): N/A TYPE OF ASBESTOS: Amphibole

SLIDE NO	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC ^N (f/ml)	FIBRE CONC ^N (f/ml)
204828	R	P1 - PLATFORM 2 - SB	05:41	06:22	12.3	504.3	✓2	141	0.01	0.01	<0.01
204829	R	P2 - PLATFORM 1 NB	05:56	06:39	12.3	528.9	✓2	182	0.01	0.01	<0.01
204830	FB	Field Blank Test	06:10	06:11	/	/	0	100	/	/	/
[REDACTED]											

Flow rate correction made for temperature or pressure? Y

Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT

The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)

HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)

HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____

All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY: [REDACTED] POSITION: Senior Technologist
 SLIDES COUNTED BY: [REDACTED] POSITION: Senior Technologist
 CERTIFICATE ISSUED BY: [REDACTED] POSITION: Senior Technologist
 SIGNATURE: [REDACTED] DATE: 27/12/18

SLIDE No	HEAD/ PUMP No.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
204825	SM 01/410609	12.3	05.41	12.3	06.22	12.3	05.57	-	-	-	-	-	-
204829	SM 02/410610	12.3	05.56	12.3	06.39	12.3	06.11	-	-	-	-	-	-
204830	SM 03/ -	-	-	-	-	-	-	-	-	-	-	-	-

START PRESSURE 1024.8 mbar FINAL PRESSURE 1024.6 mbar PRESSURE MEASURED BY: NPL web site
 START TEMPERATURE 18.9°C FINAL TEMPERATURE: 19.1°C THERMOMETER REF: 410780

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE NO. 400306	FOCUS SATISFACTORY CONDENSER	CENTRE SATISFACTORY CONDENSER	ALIGN PHASE RINGS SATISFACTORY
NPL TEST SLIDE NO. 3950	NO OF VISIBLE BANDS 5 th	GRATICULE SLIDE NO. 512-1	GRATICULE DIAMETER 100 µm
NEXT CHECK DUE 07/05/19		NEXT CHECK DUE 05/01/19.	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µm ✓	1.2 µm	FILTER BATCH/ LOT NUMBER 1224 941 4701 220/12121810
FLOW METER REFERENCE No 441045	CHECK DUE DATE 04/02/19	FLOW METER REFERENCE No 402356	CHECK DUE DATE 04/02/19
TALLY COUNTER No.: 441098	DATE OF NEXT CHECK 23/05/19	TALLY COUNTER No.: 402435	DATE OF NEXT CHECK 07/05/19.
TIMEPIECE 460033	CALIBRATION DUE DATE 19/01/19		

INSPECTION PRIOR TO WORK COMMENCING: YES NO N/A

ENCLOSURE / WORKSITE SIZE : _____ M²/M³ TIME OF VISUAL INSPECTION : _____

ENCLOSURE INTACT YES NO COMMENTS :

SMOKE TEST* CARRIED OUT IN ENCLOSURE YES NO RESULT : SATISFACTORY UNSATISFACTORY

INSPECTION RESULT SATISFACTORY UNSATISFACTORY

COMMENTS :

* WITNESSING THE SMOKE TEST LIES OUTSIDE THE SCOPE OF ACCREDITATION

INSPECTION DURING REMOVAL: YES NO N/A

ENCLOSURE INTACT YES NO COMMENTS :

AIR EXTRACTION UNIT(S) OPERATING YES NO COMMENTS :

CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.

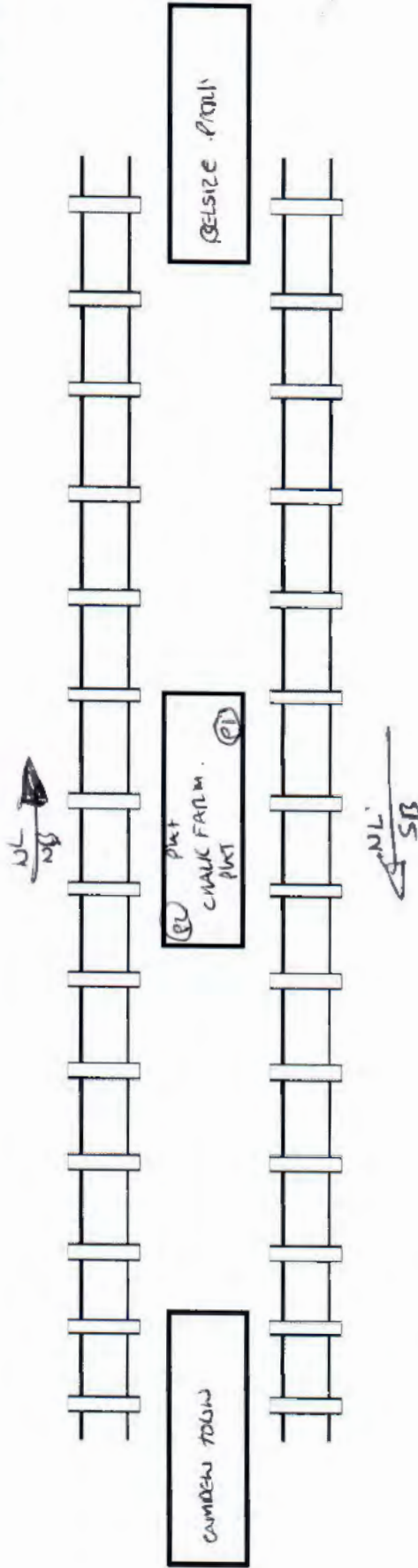


AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

NOT TO SCALE



X	SAMPLE POSITION (APPROXIMATE)
NPU	NEGATIVE PRESSURE UNIT
AL	AIRLOCK
BL	BAGLOCK
DCU	DECONTAMINATION UNIT
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS: 10 down pan of Tunnel used Th.

ARC'S REPRESENTATIVE ACKNOWLEDGEMENT
NAME _____ SIGNED _____ DATE _____ TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183236 CERTIFICATE NO C/183236/271218 10L PAGE NO 4 of 4

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TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 APP.1 7.0), IF APPROPRIATE: N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S): N/A

NPU FILTER AREA, IF REQUIRED (M²): N/A

05.20 - ARRIVE ON SITE AND REPORTS TO SSO AT CHALK FARM.

05.41 - AFMS (X 2) ACTIVATED ON PLATFORMS DURING SOT.

06.39 - AFMS (X 2) COLLECTED

06.50 - 4-RAIL SIGN OUT WITH SSO

07.20 - RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

07.50 - AFMS COUNTED AND FOUND TO BE SATISFACTORY 20.01

08.00 - PAPERWORK COMPLETED

Station Stamp:

STATION SUPERVISOR
CHALK FARM



AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS

4-RAIL Services Ltd

CLIENT: [REDACTED] TEST DATE: 28/12/18
 ADDRESS: [REDACTED] PAGE NO.: 1 of 4
 JOB NUMBER: 183236
 SITE: ES6395b - SWISS COTTAGE CERTIFICATE REF: C183236/281218/01
 ISSUE NO: 01
 TYPE OF TEST(S): Static (B) / Leak (L) / Reassurance (R) / Clearance (C) / Personal (P)
 ANALYSIS LOCATION: 4-Rail AFM Lab, Unit 11, Neasden Office NO OF SAMPLES: 3 - THREE
 REMOVAL OPERATION: Reassurance AFM during SOT trains on PLATFORM 1 AND 2
 ASBESTOS REMOVAL CONTRACTOR (ARC): N/A TYPE OF ASBESTOS: Amphibole

SLIDE NO	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC ⁿ (f/ml)	FIBRE CONC ⁿ (f/ml)
245030	R	P1 - PLATFORM 2 - S/B - SL	05:16	05:39	12.3	528.9	✓	182	0.01	0.001	<0.01
245031	R	P2 - PLATFORM 1 - N/B - SL	05:42	06:26	12.3	541.2	✓	177	0.01	0.001	<0.01
245032	FB	Field Blank Test	05:55	05:56	-	-	0	100	-	-	-
[REDACTED]											

Flow rate correction made for temperature or pressure? Y/N

Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

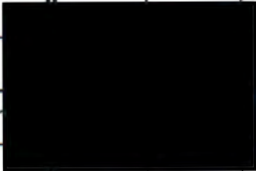
* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT

The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)

- HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)
- HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____
- All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY: [REDACTED] POSITION: Senior Technologist / TECHNOLOGIST
 SLIDES COUNTED BY: [REDACTED] POSITION: Senior Technologist
 CERTIFICATE ISSUED BY: [REDACTED] POSITION: Senior Technologist
 SIGNATURE: [REDACTED] DATE: 28/12/18

SLIDE No	HEAD/ PUMP No.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
245030	sm / 410609	12.3	05:16	12.3	05:59	12.3	05:31	-	-	-	-	-	-
245031	sm / 410610	12.3	05:42	12.3	06:26	12.3	05:57	-	-	-	-	-	-
245032	sm / -	-	-	-	-	-	-	-	-	-	-	-	-
													

START PRESSURE 1027.0 mbar FINAL PRESSURE 1026.9 mbar PRESSURE MEASURED BY: NPL web site
 START TEMPERATURE 19.3°C FINAL TEMPERATURE: 19.5°C THERMOMETER REF: 410780

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE No. 400306	FOCUS <i>Satisfactory</i>	CENTRE CONDENSER	<i>Satisfactory</i>	ALIGN PHASE RINGS	<i>Satisfactory</i>
NPL TEST SLIDE No. 3950	No OF VISIBLE BANDS <i>5ⁿ</i>	GRATICULE SLIDE No.	<i>S12-1</i>	GRATICULE DIAMETER	<i>100</i> μm
NEXT CHECK DUE <i>07/05/19</i>		NEXT CHECK DUE	<i>05/01/19</i>		
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 μm <input checked="" type="checkbox"/>	1.2 μm	FILTER BATCH/ LOT NUMBER <i>18900-7E2-127</i>	CALC. AREA OF EXPOSED FILTER	<i>22.0</i> MM
FLOW METER REFERENCE No 441045	CHECK DUE DATE <i>04/02/19</i>	FLOW METER REFERENCE No 402356	<i>04/02/19</i> ³	CHECK DUE DATE	<i>04/02/19</i>
TALLY COUNTER No.: <i>402417</i>	DATE OF NEXT CHECK <i>07/05/19</i>	TALLY COUNTER No.:	<i>401035</i>	DATE OF NEXT CHECK	<i>07/05/19</i>
TIMEPIECE 460033	CALIBRATION DUE DATE <i>19/01/19</i>				

INSPECTION PRIOR TO WORK COMMENCING: YES NO N/A

ENCLOSURE / WORKSITE SIZE : _____ M²/M³ TIME OF VISUAL INSPECTION : _____

ENCLOSURE INTACT YES NO COMMENTS :

SMOKE TEST* CARRIED OUT IN ENCLOSURE YES NO RESULT : SATISFACTORY UNSATISFACTORY

INSPECTION RESULT SATISFACTORY UNSATISFACTORY

COMMENTS :

* WITNESSING THE SMOKE TEST LIES OUTSIDE THE SCOPE OF ACCREDITATION

INSPECTION DURING REMOVAL: YES NO N/A

ENCLOSURE INTACT YES NO COMMENTS :

AIR EXTRACTION UNIT(S) OPERATING YES NO COMMENTS :

CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.

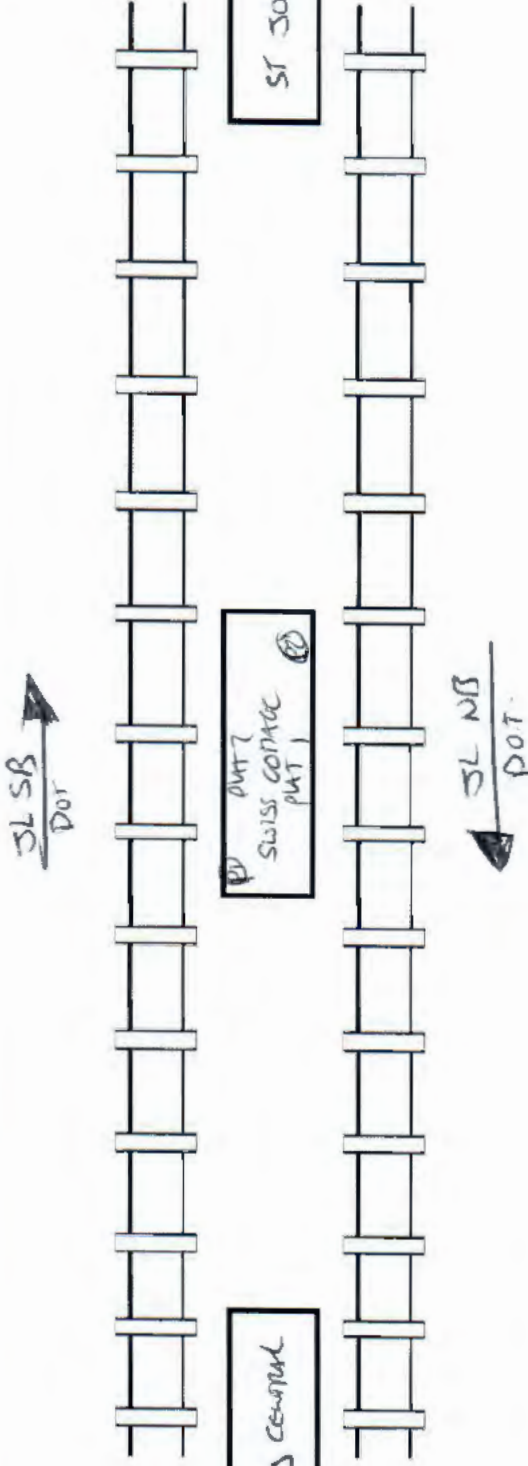


AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

NOT TO SCALE



X	SAMPLE POSITION (APPROXIMATE)
NPU	NEGATIVE PRESSURE UNIT
AL	AIRLOCK
BL	BAGLOCK
BCU	DECONTAMINATION UNIT
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS: NRS to location plan of units

ARC'S REPRESENTATIVE ACKNOWLEDGEMENT

NAME _____ SIGNED _____ DATE _____ TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
 T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
 VAT Registration Number: 691 5975 82 Company Registration No.: 32568663

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183236 CERTIFICATE NO C/183236/28/12/18 /01 PAGE NO 4 of 4

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TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 APP.1 7.0), IF APPROPRIATE: N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S): N/A

NPU FILTER AREA, IF REQUIRED (M²): N/A

05.10 - ARRIVE ON SITE AND REPORTS TO SSO AT SWISS COTTAGE

05.16 - AFMS (X²) ACTIVATED ON PLATFORMS DURING SOT.

05.26 - AFMS (X²) COLLECTED

06.40 - 4-RAIL SIGN OUT WITH SSO

07.05 - RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

07.20 - AFMS COUNTED AND FOUND TO BE SATISFACTORY 20.0

07.30 - PAPERWORK COMPLETED

Station Stamp:

SWISS COTTAGE

INSPECTION PRIOR TO WORK COMMENCING: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	TIME OF VISUAL INSPECTION: _____
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
SIZE OF RESPIRATOR ZONE / SIGNAGE AS PER ARC'S METHOD STATEMENT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
INSPECTION DURING WORK: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
AIR EXTRACTION UNIT(S) OPERATING	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
RESPIRATOR ZONE DESIGNATED & MAINTAINED	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____

SLIDE NO	HEAD/ PUMP NO.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
248779	B201 410611	12.3	22:10	12.3	22:50	12.3	22:25	-	-	-	-	-	-
248780	B202 410612	12.3	22:51	12.3	23:31	12.3	23:06	-	-	-	-	-	-
248781	B203	-	22:20	-	22:21	-	-	-	-	-	-	-	-

START PRESSURE 1012 mbar FINAL PRESSURE 1012 mbar PRESSURE MEASURED BY: NPL BAROMETER
 START TEMPERATURE 19 °C FINAL TEMPERATURE: 19 °C THERMOMETER REF: 46 0055

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE NO. 106	FOCUS CONDENSER SAT	CENTRE CONDENSER SAT	ALIGN PHASE RINGS SAT.
NPL TEST SLIDE NO. 3950	NO OF VISIBLE BANDS 5TH	GRATICULE SLIDE NO. 512-1	GRATICULE DIAMETER 100 µM
NEXT CHECK DUE 05/07/19		NEXT CHECK DUE 07/07/19	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µM	1.2 µM	CALC. AREA OF EXPOSED FILTER 22.0 MM
	✓	-	
FILTER BATCH/ LOT NUMBER BA051218/01 18303-7E2-157			
FLOW METER REFERENCE NO -	CHECK DUE DATE -	FLOW METER REFERENCE NO 402908	CHECK DUE DATE 07/02/19
TALLY COUNTER NO.: 402435	DATE OF NEXT CHECK 02/05/19	TALLY COUNTER NO.: 441098	DATE OF NEXT CHECK 23/05/19
TIMEPIECE 460054		CALIBRATION DUE DATE 10/03/19	

CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.

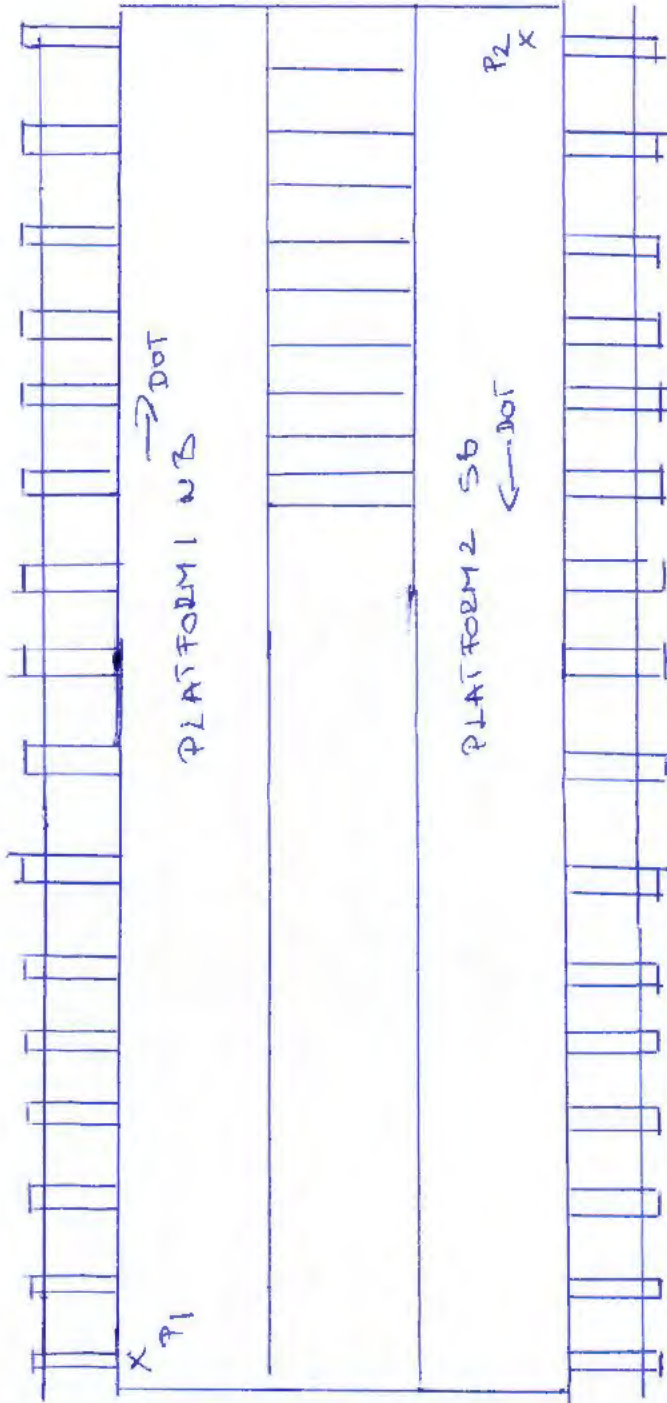


AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACM'S TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES.
IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

NOT TO SCALE



X		DIMENSIONS OF ENCLOSURE			
NPU	NEGATIVE PRESSURE UNIT	LENGTH / M	HEIGHT / M	WIDTH / M	TOTAL / M ³
AL	AIRLOCK				
BL	BAGLOCK				
DCU	DECONTAMINATION UNIT				
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS:				

ARC'S REPRESENTATIVE ACKNOWLEDGEMENT
NAME _____ SIGNED _____ DATE 13/01/19 TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0JF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183247 CERTIFICATE No C/183247/130119 /01 PAGE NO 4 of 4

The opinions and interpretations expressed herein are outside the scope of the UKAS Accreditation.

TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 App.1 7.0), IF APPROPRIATE: N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S): N/A

NPU FILTER AREA, IF REQUIRED (M²): N/A

22:00 - ARRIVE ON SITE AND REPORTS TO SSO AT

22:10 - AFMs (x 2) ACTIVATED ON PLATFORMS DURING SOT.

23:31 - AFMs (x 2) COLLECTED

23:35 - 4-RAIL SIGN OUT WITH SSO

04:00 - RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

06:00 - AFMS COUNTED AND FOUND TO BE SATISFACTORY 20.01 fml

06:00 - PAPERWORK COMPLETED

Station Stamp:

ARCHWAY



AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS



CLIENT: [REDACTED] TEST DATE: 14 /01/19
 ADDRESS: [REDACTED] PAGE NO: 1 of 4
 JOB NUMBER: 183247
 SITE: Camden Town Platform 1 & 2 CERTIFICATE REF: C183247/140119/01
 ISSUE NO: 001
 TYPE OF TEST(S): Static: Background (B) / Leak (L) / Reassurance (R) / Clearance (C) / Personal (P)
 ANALYSIS LOCATION: 4-Rail QC Lab NO OF SAMPLES: 02
 REMOVAL OPERATION: COT AFM During
 ASBESTOS REMOVAL CONTRACTOR (ARC): NA TYPE OF ASBESTOS: Amphibole

SLIDE NO	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC ^N (f/ml)	FIBRE CONC ^N (f/ml)
243172	B	P1 - PLATFORM-1 ARRIVAL SW	2101	2133	15.4	492	1/2	195	0.01	0.007	<0.01
243173	B	P2 - PLATFORM-2 ARRIVAL SW	2058	2130	15.4	492	1.0	195	0.01	0.007	<0.01
[REDACTED]											

Flow rate correction made for temperature or pressure? Y/N

Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT

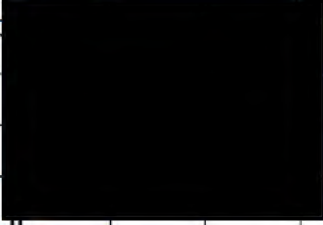
The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)

- HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)
- HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____
- All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY: [REDACTED] POSITION: Senior Technologist
 SLIDES COUNTED BY: [REDACTED] POSITION: Senior Technologist
 CERTIFICATE ISSUED BY: [REDACTED] POSITION: Senior Technologist
 SIGNATURE: [REDACTED] DATE: 14/01/19

INSPECTION PRIOR TO WORK COMMENCING: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	TIME OF VISUAL INSPECTION: _____
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
SIZE OF RESPIRATOR ZONE / SIGNAGE AS PER ARC'S METHOD STATEMENT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
INSPECTION DURING WORK: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
AIR EXTRACTION UNIT(S) OPERATING	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
RESPIRATOR ZONE DESIGNATED & MAINTAINED	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____

SLIDE NO	HEAD/PUMP NO.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
243172	VC1 410608	15.4	21.01	15.4	2132								
243173	VC3 410607	15.4	20.58	15.4	2130								
													

START PRESSURE 1023 mbar FINAL PRESSURE 1023 mbar PRESSURE MEASURED BY: NPL WEBSITE
 START TEMPERATURE 19.1 °C FINAL TEMPERATURE: 19.1 °C THERMOMETER REF: 402616

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE NO. 106	FOCUS CONDENSER SAT	CENTRE CONDENSER SAT.	ALIGN PHASE RINGS SAT.
NPL TEST SLIDE NO. <u>A42C</u>	NO OF VISIBLE BANDS 0.8 µm 1.2 µm ✓ -	GRATICULE SLIDE NO. <u>A407</u>	GRATICULE DIAMETER µM
NEXT CHECK DUE <u>5/5/19</u>		NEXT CHECK DUE <u>5/5/19</u>	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED		FILTER BATCH/ LOT NUMBER 16406-7DF-245	CALC. AREA OF EXPOSED FILTER 22.0 MM
FLOW METER REFERENCE NO 410287	CHECK DUE DATE 24/02/19	FLOW METER REFERENCE NO -	CHECK DUE DATE -
TALLY COUNTER NO.: <u>401264</u>	DATE OF NEXT CHECK <u>5/5/19</u>	TALLY COUNTER NO.: <u>401266</u>	DATE OF NEXT CHECK <u>5/5/19</u>
TIMEPIECE 460034		CALIBRATION DUE DATE	18/01/19

CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.

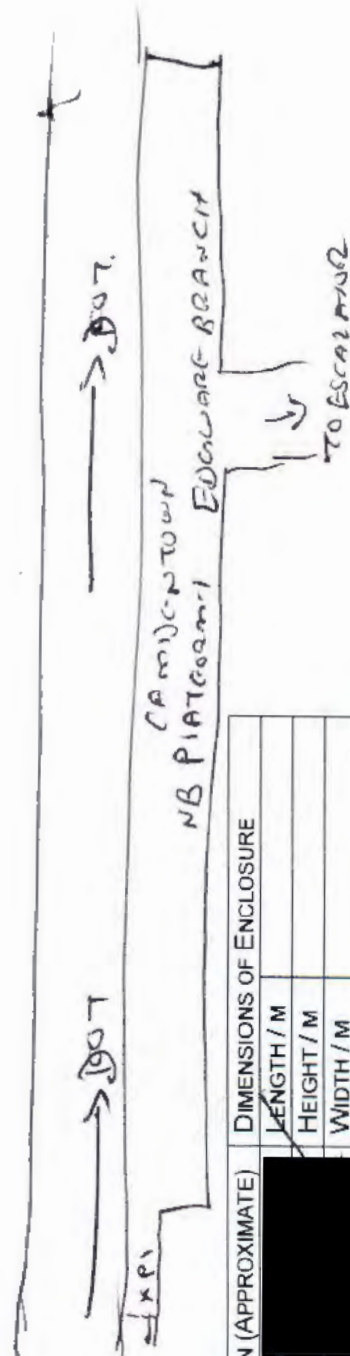
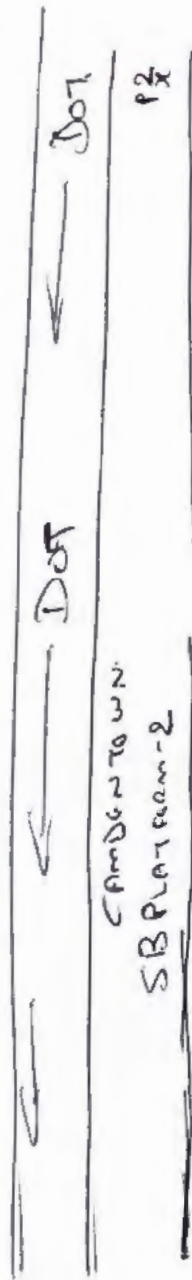


AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES.
IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

NOT TO SCALE



X	SAMPLE POSITION (APPROXIMATE)	DIMENSIONS OF ENCLOSURE
NPU	NEGATIVE PRESSURE	LENGTH / M
AL	AIRLOCK	HEIGHT / M
BL	BAGLOCK	WIDTH / M
DCU	DECONTAMINATION	TOTAL / M ³
ACM	LOCATION OF ASBESTOS	

ACM MATERIAL TO BE REMEDIATED. GIVE DETAILS:

ARC's REPRESENTATIVE ACKNOWLEDGEMENT

NAME _____ SIGNED _____

DATE _____ TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
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VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183241 CERTIFICATE NO C183241/140119/0 PAGE NO 2 of 4

The opinions and interpretations expressed herein are outside the scope of the UKAS Accreditation.

TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 APP.1 7.0), IF APPROPRIATE:

AIR VELOCITY OF NPU, IF REQUIRED (M/S): NA

NPU FILTER AREA, IF REQUIRED (M²): NA

2055 SIGN IN AT CAMDEN TOWN SUPERVISOR
2058 AFM ACTIVATING PLATFORM (CSB) SQUARE BRANCH &
PLATFORM 2 CSB J

2133 AFM COLLECTED

2139 SIGN OUT & LEAVE SITE

0300 AFM RESULTS FOUND SATISFACTORY < 0.01 fibres

Station Supervisor
Camden Town Station

Station Supervisor
Camden Town Station

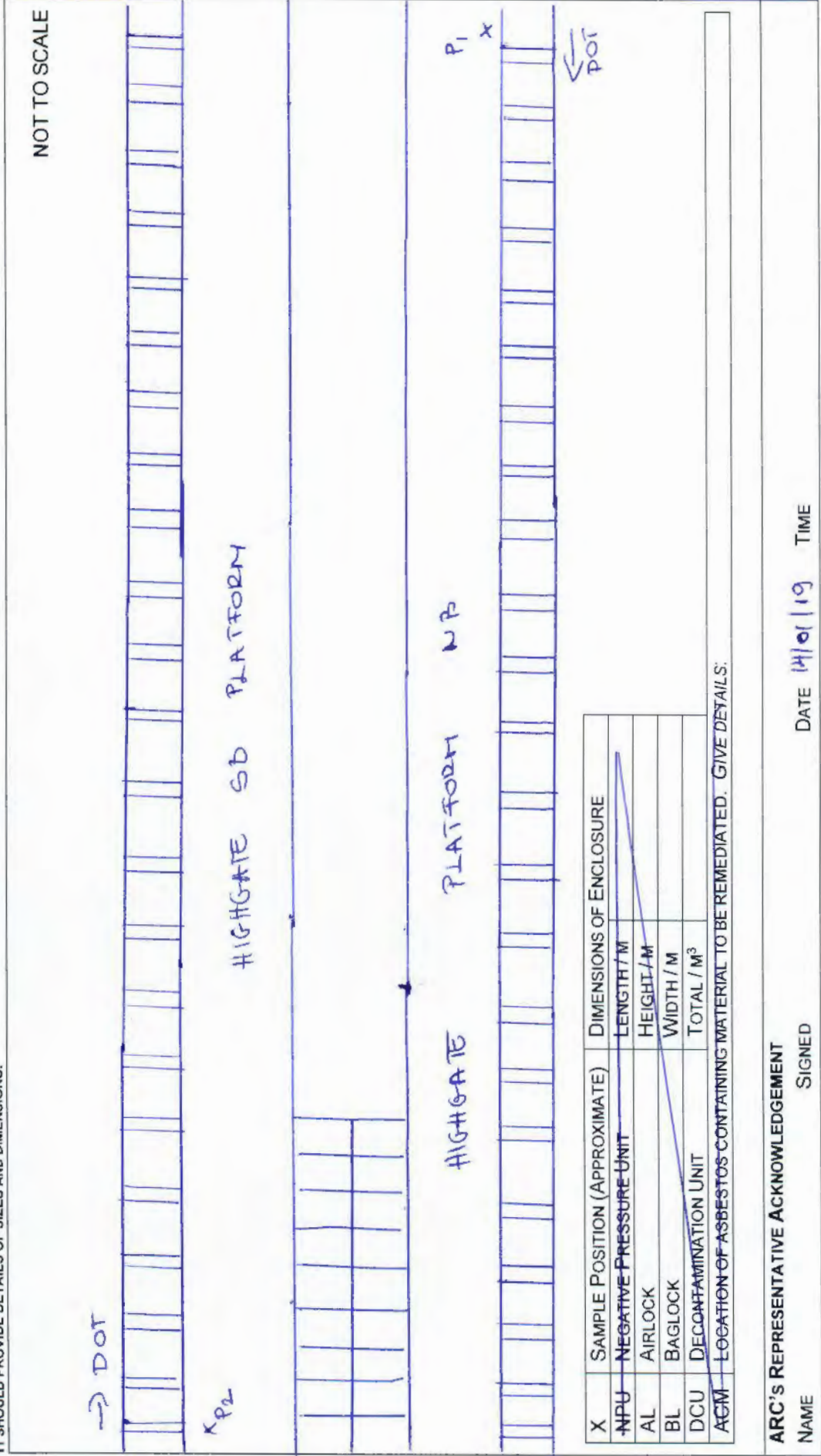


1931



AIRBORNE FIBRE MONITORING SITE DIAGRAM

THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES.
IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.



Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
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 VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183247 CERTIFICATE NO C/183247/14 019 /02 PAGE NO 4 of 4

The opinions and interpretations expressed herein are outside the scope of the UKAS Accreditation.

TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 App.1 7.0), IF APPROPRIATE : N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S) : N/A

NPU FILTER AREA, IF REQUIRED (M²) : N/A

22:30 - ARRIVE ON SITE AND REPORTS TO SSO AT

22:40 - AFMS (x2) ACTIVATED ON PLATFORMS DURING SOT.

23:30 - AFMS (x2) COLLECTED

23:35 - 4-RAIL SIGN OUT WITH SSO

04:30 - RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

06:00 AFMS COUNTED AND FOUND TO BE SATISFACTORY, < 0.01 fibre

06:00 PAPERWORK COMPLETED

Station Stamp:



C SM HIGHWAY



AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS

4-RAIL Services Ltd

CLIENT: [REDACTED] TEST DATE: 15/01/2019
 ADDRESS: [REDACTED] PAGE NO: 1 of 4
 SITE: SWISS COTTAGE SB&NB ES6395C JOB NUMBER: 183247
 TYPE OF TEST(S): Static : Background (B)/ Leak (L)/ Reassurance (R)/ Clearance (C); Personal (P) CERTIFICATE REF: C183247/150119/01
 ANALYSIS LOCATION: 425 QC LAB1, WEAVERDEN NO OF SAMPLES: THREE (3)
 REMOVAL OPERATION: AFM DURING TRAFFIC HOURS SWISS COTTAGE SB&NB PLATFORMS
 ASBESTOS REMOVAL CONTRACTOR (ARC): _____ TYPE OF ASBESTOS: CROSYDOLITE / AMOSITE

SLIDE NO	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC** (f/ml)	FIBRE CONC** (f/ml)
SA8788	R	P1 NB PLATFORM 1	23:05	23:45	12.3	492	0.5	195	0.01	0.001	20.01
SA8789	R	P2 SB PLATFORM 2	23:05	23:45	12.3	492	0.5	195	0.01	0.001	20.01
SA8790	FB	FIELD BLANK	23:10	23:11	-	-	0	100	-	-	-

Flow rate correction made for temperature or pressure? Y/N
 Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT
 The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)
 HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)
 HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____
 All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY: [REDACTED] POSITION: TECHNICIAN
 SLIDES COUNTED BY: [REDACTED] POSITION: TECHNICIAN
 CERTIFICATE ISSUED BY: [REDACTED] POSITION: TECHNICIAN
 SIGNATURE: [REDACTED] DATE: 15/01/2019

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 Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
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 VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

INSPECTION PRIOR TO WORK COMMENCING: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	TIME OF VISUAL INSPECTION: _____
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
SIZE OF RESPIRATOR ZONE / SIGNAGE AS PER ARC'S METHOD STATEMENT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
INSPECTION DURING WORK: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
AIR EXTRACTION UNIT(S) OPERATING	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
RESPIRATOR ZONE DESIGNATED & MAINTAINED	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____

SLIDE NO	HEAD/ PUMP NO.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
BA8788	BLO1 410611	12.5	23:05	12.3	23:45	12.3	23:20	-	-	-	-	-	-
BA8789	BLO2 410612	12.3	23:05	12.3	23:45	12.3	23:20	-	-	-	-	-	-
BA8790	BLO3	-	23:10	-	23:11	-	-	-	-	-	-	-	-

START PRESSURE 1011 mbar FINAL PRESSURE 1011 mbar PRESSURE MEASURED BY: UPL BAROMETER
 START TEMPERATURE 17 °C FINAL TEMPERATURE: 17 °C THERMOMETER REF: A60055

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE No. 106	FOCUS CONDENSER SAT	CENTRE CONDENSER SAT	ALIGN PHASE RINGS SAT
NPL TEST SLIDE No. 3950	NO OF VISIBLE BANDS 5th	GRATICULE SLIDE No. S12-1	GRATICULE DIAMETER 100 µM
NEXT CHECK DUE 05/07/19		NEXT CHECK DUE 07/07/19	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µM	1.2 µM	CALC. AREA OF EXPOSED FILTER 22.0 MM
	✓	-	
FILTER BATCH/ LOT NUMBER BA031218/01 18903-782-157			
FLOW METER REFERENCE No -	CHECK DUE DATE -	FLOW METER REFERENCE No 402908	CHECK DUE DATE 07/02/19
TALLY COUNTER No.: 402435	DATE OF NEXT CHECK 07/05/19	TALLY COUNTER No.: 441098	DATE OF NEXT CHECK 23/05/19
TIMEPIECE 460054		CALIBRATION DUE DATE 10/03/19	

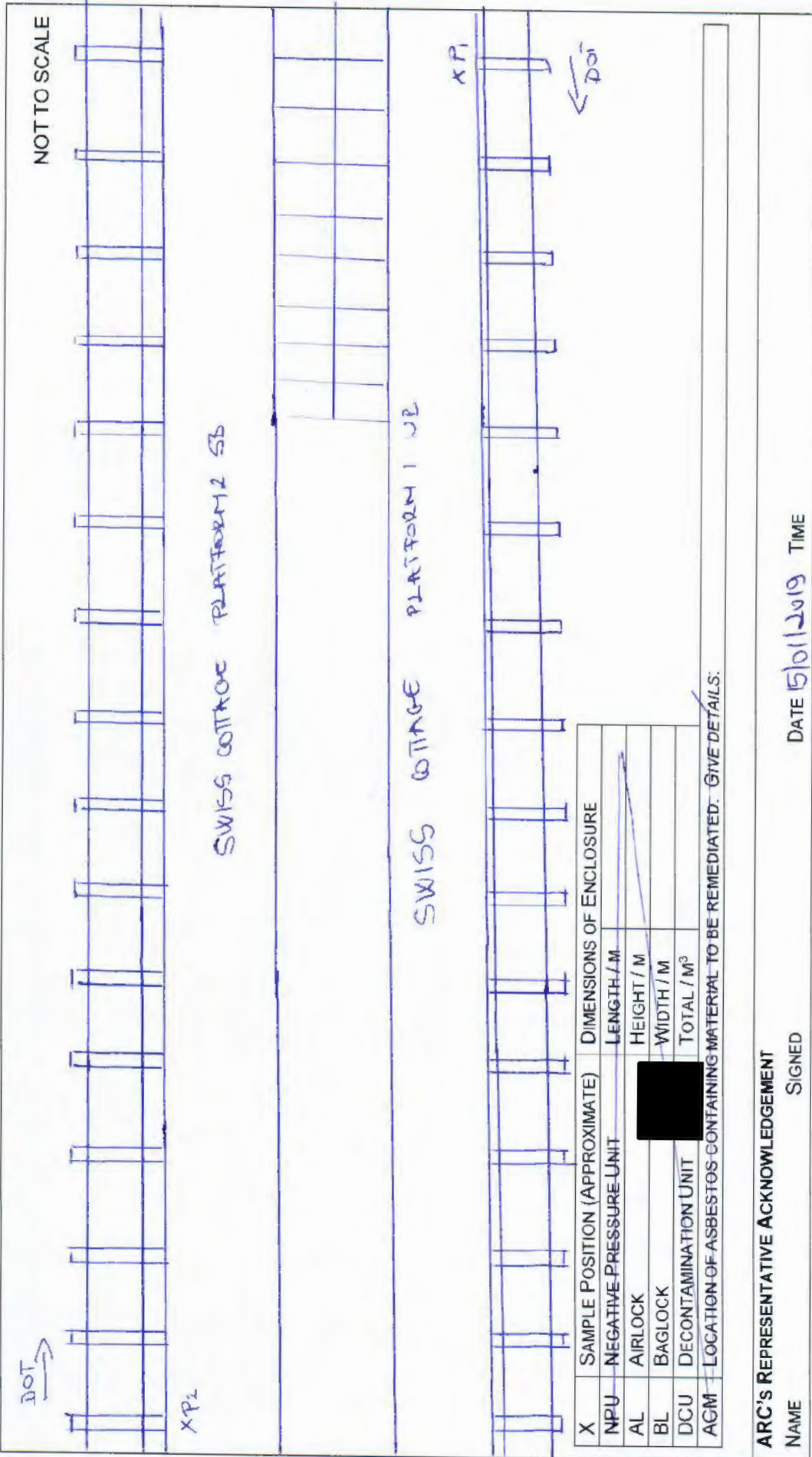
CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.



AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.



ARC'S REPRESENTATIVE ACKNOWLEDGEMENT
NAME _____ SIGNED _____

DATE 5/01/2019 TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183247 CERTIFICATE NO C/183247/15/19 /01 PAGE NO 4 of 4

The opinions and interpretations expressed herein are outside the scope of the UKAS Accreditation.

TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 APP.1 7.0), IF APPROPRIATE : N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S) : N/A

NPU FILTER AREA, IF REQUIRED (M²) : N/A

23:00 - ARRIVE ON SITE AND REPORTS TO SSO AT

23:05 - AFMS (x2) ACTIVATED ON PLATFORMS DURING SOT.

23:45 - AFMS (x2) COLLECTED

23:55 - 4-RAIL SIGN OUT WITH SSO

03:40 - RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

06:00 - AFMS COUNTED AND FOUND TO BE SATISFACTORY 10.01 fml

06:00 - PAPERWORK COMPLETED

Station Stamp:

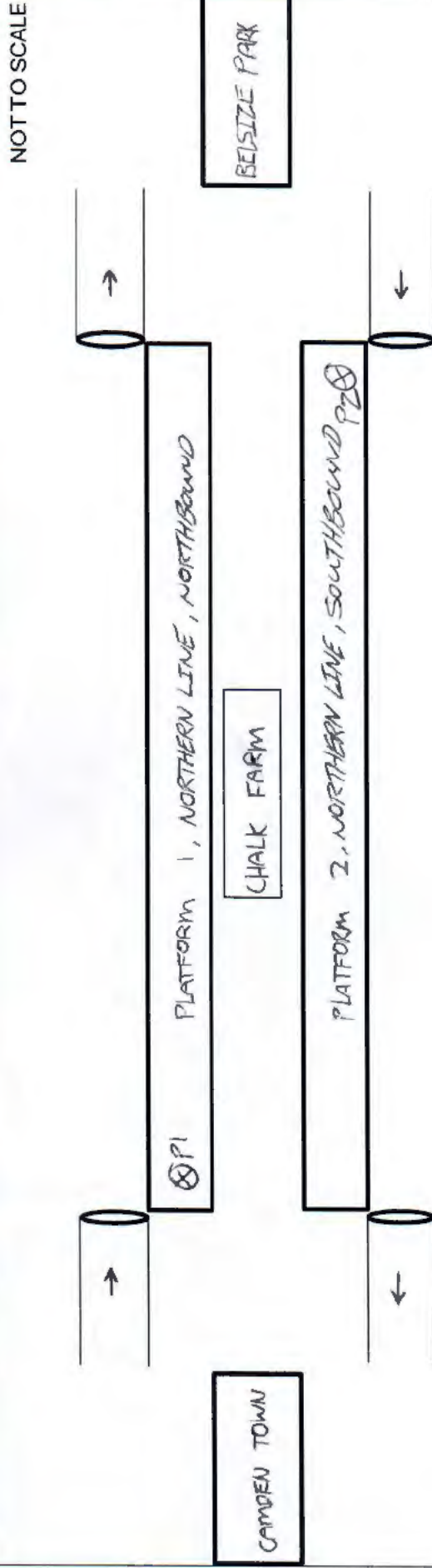




1931

AIRBORNE FIBRE MONITORING SITE DIAGRAM

THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACM'S TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES.
IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.



X	SAMPLE POSITION (APPROXIMATE)	DIMENSIONS OF ENCLOSURE			
		LENG	HEIG	WIDT	TOTAL / m ³
NPU	NEGATIVE PRESSURE UNIT				
AL	AIR LOCK				
BL	BAG LOCK				
DC	CONTAMINATION UNIT				
AG	AGGREGATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS:				

ARC'S REPRESENTATIVE ACKNOWLEDGEMENT

NAME _____ SIGNED _____ DATE _____ TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 3256863



AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS

4-RAIL Services Ltd

CLIENT: [REDACTED] TEST DATE: 25-26/01/2019
 ADDRESS: [REDACTED] PAGE NO: 1 of 4
 SITE: KENNINGTON JOB NUMBER: 183247
 TYPE OF TEST(S): Static: Background (B)/ Leak (L)/ (Reassurance (R)) Clearance (C); Personal (P) CERTIFICATE REF: C183247/250119/01
 ANALYSIS LOCATION: 4-RAIL LABORATORY, NEASDEN NO OF SAMPLES: 3-THREE ISSUE NO: 001
 REMOVAL OPERATION: AFM DURING COT ON PLATFORMS (CHARING CROSS BRANCH
 ASBESTOS REMOVAL CONTRACTOR (ARC): - TYPE OF ASBESTOS: -

SLIDE NO	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC ^N (f/ml)	FIBRE CONC ^N (f/ml)
246446	R	P ₁ - PLATF. A, ARRIVAL END	2222	2254	15.4	493	2.5	195	0.01	0.001	<0.01
246447	R	P ₂ - PLATF. 2, ARRIVAL END	2256	2328	15.4	493	2.0	195	0.01	0.001	<0.01
246448	-	FIELD BLANK	2224	2225	-	-	0	100	-	-	-

Flow rate correction made for temperature or pressure? **Y/N**
 Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT
 The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)
 HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)
 HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____
 All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY: [REDACTED] POSITION: Technician
 SLIDES COUNTED BY: [REDACTED] POSITION: Technician
 CERTIFICATE ISSUED BY: [REDACTED] POSITION: Technician
 SIGNATURE: [REDACTED] DATE: 25.01.19

INSPECTION PRIOR TO WORK COMMENCING: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	TIME OF VISUAL INSPECTION: _____
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
SIZE OF RESPIRATOR ZONE / SIGNAGE AS PER ARC'S METHOD STATEMENT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
INSPECTION DURING WORK: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
AIR EXTRACTION UNIT(S) OPERATING	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
RESPIRATOR ZONE DESIGNATED & MAINTAINED	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____

SLIDE NO	HEAD/ PUMP NO.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
246446	091/402231	15.4	2222	15.4	2254	15.4	2237						
246447	092/402231	15.4	2256	15.4	2328	15.4	2311						
246448	0912/ -	-	2224	-	2225								

START PRESSURE 1012 mbar FINAL PRESSURE 1012 mbar PRESSURE MEASURED BY: NPL Website
 START TEMPERATURE 22 °C FINAL TEMPERATURE: 22 °C THERMOMETER REF: 410787

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE NO. 106	FOCUS CONDENSER Sat.	CENTRE CONDENSER Sat.	ALIGN PHASE RINGS Sat.
NPL TEST SLIDE NO. 3950	NO OF VISIBLE BANDS 5	GRATICULE SLIDE NO. A402	GRATICULE DIAMETER 100µM
NEXT CHECK DUE 02.05.19		NEXT CHECK DUE 05.05.19	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µM ✓	1.2 µM	CALC. AREA OF EXPOSED FILTER 22.0 MM
FLOW METER REFERENCE NO: 410509	CHECK DUE DATE: 28.01.19	FLOW METER REFERENCE NO: 410486	CHECK DUE DATE: 28.01.19
TALLY COUNTER NO.: 402417	DATE OF NEXT CHECK 02.05.19	TALLY COUNTER NO.: 402435	DATE OF NEXT CHECK 02.05.19
TIMEPIECE: 460056		CALIBRATION DUE DATE: 15.06.19	

CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.

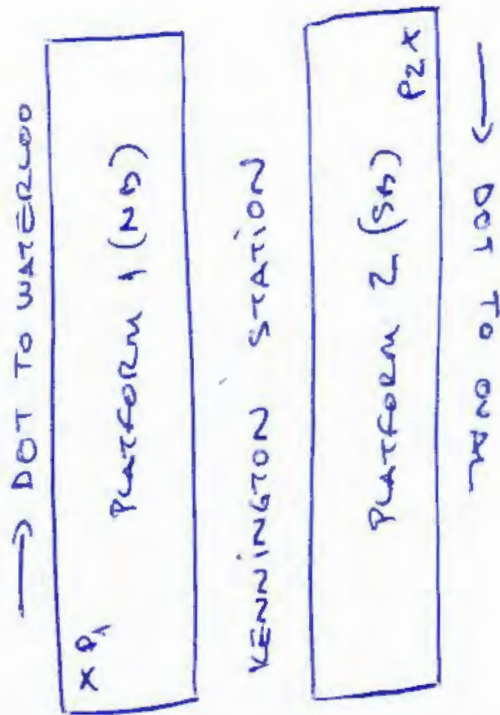


AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

NOT TO SCALE



X	SAMPLE POSITION (APPROXIMATE)	DIMENSIONS OF ENCLOSURE			
		LENGTH / M	HEIGHT / M	WIDTH / M	TOTAL / M ³
NPU	NEGATIVE PRESSURE UNIT				
AL	AIRLOCK				
BL	BAGLOCK				
DCU	DECONTAMINATION UNIT				
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS:				

ARC'S REPRESENTATIVE ACKNOWLEDGEMENT

NAME _____ SIGNED _____ DATE _____ TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 32568663

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183247 CERTIFICATE NO C183242/25019/0 PAGE NO 4 of 4

The opinions and interpretations expressed herein are outside the scope of the UKAS Accreditation.

TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 APP.1 7.0), IF APPROPRIATE :

AIR VELOCITY OF NPU, IF REQUIRED (M/S) :

NPU FILTER AREA, IF REQUIRED (M²) :

2220 SIGN IN WITH SSO AT KENNINGTON STATION
2222 AFM COMMENCED AT THE ARRIVAL END OF PLATFORM 1 MB
2254 AFM CEASED ON PLATFORM 1
2256 AFM COMMENCED ON PLATFORM 2 S/B - ARRIVAL END
2328 AFM CEASED ON PLATFORM 2
2330 SIGN OUT WITH SSO
RETURN TO 4-RAIL OFFICE

ALL AFM RESULTS WERE FOUND
TO BE SATISFACTORY (CO. 0.1 μ m)

Customer Service Manager
Kennington Area



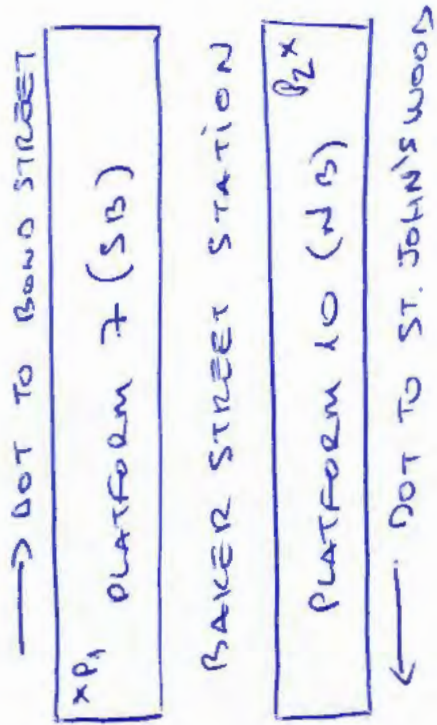
1931

AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES.
IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

NOT TO SCALE



X	SAMPLE POSITION (APPROXIMATE)	DIMENSIONS OF ENCLOSURE		
		LENGTH / M	HEIGHT / M	WIDTH / M
NPU	NEGATIVE PRESSURE UNIT			
AL	AIRLOCK			
BL	BAGLOCK			
DCU	DECONTAMINATION UNIT			
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS: —			

ARC's REPRESENTATIVE ACKNOWLEDGEMENT

NAME _____ SIGNED _____ DATE _____ TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183242 CERTIFICATE NO C183242/20119/02 PAGE NO 4 of 4

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TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 APP.1 7.0), IF APPROPRIATE :

AIR VELOCITY OF NPU, IF REQUIRED (M/S) :

NPU FILTER AREA, IF REQUIRED (M²) :

0010 SIGN IN WITH SSO AT BAKER ST. STATION
0014 AFM COMMENCED ON PLATFORM 7 (SB) - P1
0046 AFM CEASED ON PLATF. 7
0048 AFM COMMENCED ON PLATFORM 10 (NB) - P2
0120 AFM CEASED ON PLATFORM 10
0125 SIGN OUT WITH SSO
RETURN TO 4-RAIL OFFICE

ALL AFM RESULTS WERE FOUND TO
BE SATISFACTORY (CO.01/16)

STATION SUPERVISOR
LONDON UNDERGROUND
BAKER STREET STATION
[REDACTED]



AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS

4-RAIL Services Ltd

CLIENT: [REDACTED] TEST DATE: 27/02/2019
 ADDRESS: [REDACTED] PAGE NO: 1 of 4
 JOB NUMBER: 183247
 SITE: Hampstead station : **ES6395c** CERTIFICATE REF: C183247/270219/01
 ISSUE No: 001
 TYPE OF TEST(S): Static : Background (B)/ Leak (L)/ Reassurance (R)/ Clearance (C)/ Personal (P)
 ANALYSIS LOCATION: 4 - Rail Laboratory : Neasden NO OF SAMPLES: 5 - FIVE
 REMOVAL OPERATION: AFM on station platforms before close of traffic.
 ASBESTOS REMOVAL CONTRACTOR (ARC): _____ TYPE OF ASBESTOS: Amosite/Chrysotile

SLIDE NO	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC** (f/ml)	FIBRE CONC** (f/ml)
347540	FB	Field Blank	23:02	23:03	-	-	0	100	-	-	-
347541	R	P1/ See diagram	23:01	23:41	6.2	248	1	194	} POOLED SAMPLES	0.01	0.001 <0.01
347542	R	P2/ See diagram	23:01	23:41	6.2	248	1.5	194		0.01	0.001 <0.01
347543	R	P3/ See diagram	23:42	00:22	6.2	248	0.5	194		0.01	0.001 <0.01
347544	R	P4/ See diagram	23:42	00:22	6.2	248	0.5	194		0.01	0.001 <0.01

Flow rate correction made for temperature or pressure? **Y**
 Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT
 The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)
 HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)
 HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____
 All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY: [REDACTED] POSITION: Technician
 SLIDES COUNTED BY: [REDACTED] POSITION: Technician
 CERTIFICATE ISSUED BY: [REDACTED] POSITION: Technician
 SIGNATURE: [REDACTED] DATE: 27/01/2019

INSPECTION PRIOR TO WORK COMMENCING: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	TIME OF VISUAL INSPECTION: _____
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
SIZE OF RESPIRATOR ZONE / SIGNAGE AS PER ARC'S METHOD STATEMENT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
INSPECTION DURING WORK: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
AIR EXTRACTION UNIT(S) OPERATING	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
RESPIRATOR ZONE DESIGNATED & MAINTAINED	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____

SLIDE NO	HEAD/ PUMP NO.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
347540	IS6/ -----	-	23:02	-	23:03	-	-	-	-	-	-	-	-
347541	IS7/ 410599	6.2	23:01	6.2	23:41	6.2	23:16	-	-	-	-	-	-
347542	IS8/ 410600	6.2	23:01	6.2	23:41	6.2	23:16	-	-	-	-	-	-
347543	IS9/ 410599	6.2	23:42	6.2	00:22	6.2	23:57	-	-	-	-	-	-
347544	IS10/ 410600	6.2	23:42	6.2	00:22	6.2	23:57	-	-	-	-	-	-

START PRESSURE 198 mbar FINAL PRESSURE 198 mbar PRESSURE MEASURED BY: NPL Website
 START TEMPERATURE 22.9 °C FINAL TEMPERATURE: 22.7 °C THERMOMETER REF: 410256

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE NO. 106	FOCUS CONDENSER SAT	CENTRE CONDENSER SAT	ALIGN PHASE RINGS SAT
NPL TEST SLIDE NO. 3950	NO OF VISIBLE BANDS 5	GRATICULE SLIDE NO. 512-1	GRATICULE DIAMETER 100 µM
NEXT CHECK DUE 05/07/19		NEXT CHECK DUE 07/07/19	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µM	1.2 µM	CALC. AREA OF EXPOSED FILTER 22.0 MM
	✓	-	
FLOW METER REFERENCE NO 402362	CHECK DUE DATE 21/05/19	FLOW METER REFERENCE NO -	CHECK DUE DATE -
TALLY COUNTER NO.: 441098	DATE OF NEXT CHECK 23/05/19	TALLY COUNTER NO.: 402435	DATE OF NEXT CHECK 07/05/19
TIMEPIECE 460043		CALIBRATION DUE DATE	23/03/19

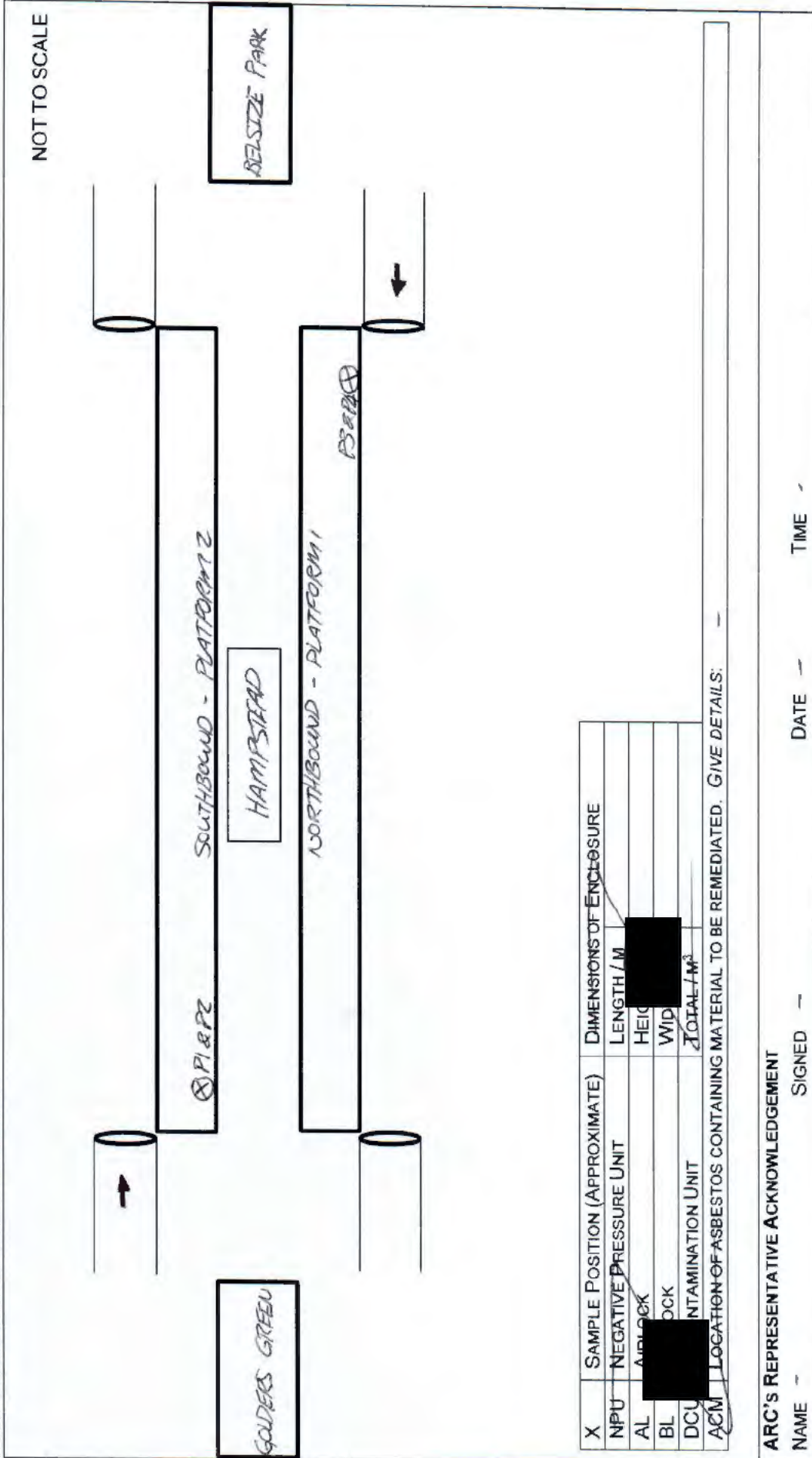
CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.



AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES.
IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.



Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0UF
T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquires@4-rail.com
VAT Registration Number: 691 5975 82 Company Registration No.: 3256663

ARC'S REPRESENTATIVE ACKNOWLEDGEMENT

NAME - SIGNED - DATE - TIME -

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183247 CERTIFICATE No C/183247/270219/01 PAGE No 4 of 4

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TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 App.1 7.0), IF APPROPRIATE : N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S) : N/A

NPU FILTER AREA, IF REQUIRED (M²) : N/A

22:57 - ARRIVE ON SITE AND REPORTS TO SSO AT

23:01 - AFMs (x4) ACTIVATED ON PLATFORMS DURING COT.

00:22 - AFMs (x4) COLLECTED

00:25 - 4-RAIL SIGN OUT WITH SSO

04:06 - RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMs

05:00 - AFMs COUNTED AND FOUND TO BE SATISFACTORY. <0.01 f/cm³

05:00 PAPERWORK COMPLETED

Station Stamp:

HAMPSTEAD



AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS

4-RAIL Services Ltd

CLIENT: [REDACTED] TEST DATE: 27/02/2019
 ADDRESS: [REDACTED] PAGE NO: 1 of 4
 JOB NUMBER: 183247
 SITE: ST. JOHN'S WOOD - ES6395C CERTIFICATE REF: C183247/270219/02
 TYPE OF TEST(S): Static: Background (B)/ Leak (L)/ Reassurance (R)/ Clearance (C); Personal (P) ISSUE NO: 001
 ANALYSIS LOCATION: ARS QC LAB, NERSDEN NO OF SAMPLES: FIVE
 REMOVAL OPERATION: AFM ON STATION PLATFORMS BEFORE USE OF TRAFFIC
 ASBESTOS REMOVAL CONTRACTOR (ARC): - TYPE OF ASBESTOS: AMOSITE/CARDYSOTILE

SLIDE NO	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC* (f/ml)	FIBRE CONC* (f/ml)
348963	FB	FIELD BLANK	22:45	22:46	-	-	0	100	-	-	-
348964	R	P1 NORTHBOUND PL	22:40	23:20	6.2	248	0.5	194	0.01	0.001	0.01
348965	R	P2 NORTHBOUND PL	22:40	23:20	6.2	248	0.5	194			
348966	R	P3 SOUTHBOUND PL	23:25	00:05	6.2	248	0.5	194	0.01	0.001	0.01
348967	R	P4 SOUTHBOUND PL	23:25	00:05	6.2	248	0.5	194			

Flow rate correction made for temperature or pressure? Y
 Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT
 The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)
 HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)
 HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____
 All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY: [REDACTED] POSITION: TECHNICIAN
 SLIDES COUNTED BY: [REDACTED] POSITION: TECHNICIAN
 CERTIFICATE ISSUED BY: [REDACTED] POSITION: TECHNICIAN
 SIGNATURE: [REDACTED] DATE: 27/02/2019

INSPECTION PRIOR TO WORK COMMENCING: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	TIME OF VISUAL INSPECTION: _____
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
SIZE OF RESPIRATOR ZONE / SIGNAGE AS PER ARC'S METHOD STATEMENT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
INSPECTION DURING WORK: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
AIR EXTRACTION UNIT(S) OPERATING	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
RESPIRATOR ZONE DESIGNATED & MAINTAINED	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____

SLIDE NO	HEAD/ PUMP No.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
348963	BLO3	-	22:45	-	22:46	-	-	-	-	-	-	-	-
348964	BLO1 410611	6.2	22:40	6.2	23:20	6.2	22:55						
348965	BLO2 401849	6.2	22:40	6.2	23:20	6.2	22:55						
348966	BLO4 402736	6.2	23:25	6.2	00:05	6.2	23:40						
348967	BLO5 402728	6.2	23:25	6.2	00:05	6.2	23:40						

START PRESSURE 1018.7 mbar FINAL PRESSURE 1018.7 mbar PRESSURE MEASURED BY: NPL BAROMETER
 START TEMPERATURE 17.5 °C FINAL TEMPERATURE: 17.5 °C THERMOMETER REF: 460055

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE No. 106	FOCUS CONDENSER SATISFACTORY	CENTRE CONDENSER SATISFACTORY	ALIGN PHASE RINGS SATISFACTORY
NPL TEST SLIDE No. 3950	NO OF VISIBLE BANDS 57	GRATICULE SLIDE No. 912-1	GRATICULE DIAMETER 100µM
NEXT CHECK DUE 05/07/19		NEXT CHECK DUE 07/07/19	
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	0.8 µM ✓	1.2 µM -	CALC. AREA OF EXPOSED FILTER 22.0 MM
	FILTER BATCH/ LOT NUMBER DA140219/01 18900-7E2-127		
FLOW METER REFERENCE NO	CHECK DUE DATE	FLOW METER REFERENCE NO 402908	CHECK DUE DATE 09/05/19
TALLY COUNTER No.: 402435	DATE OF NEXT CHECK 07/05/19	TALLY COUNTER No.: 441098	DATE OF NEXT CHECK 23/05/19
TIMEPIECE 460054	CALIBRATION DUE DATE 10/03/19		

CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.



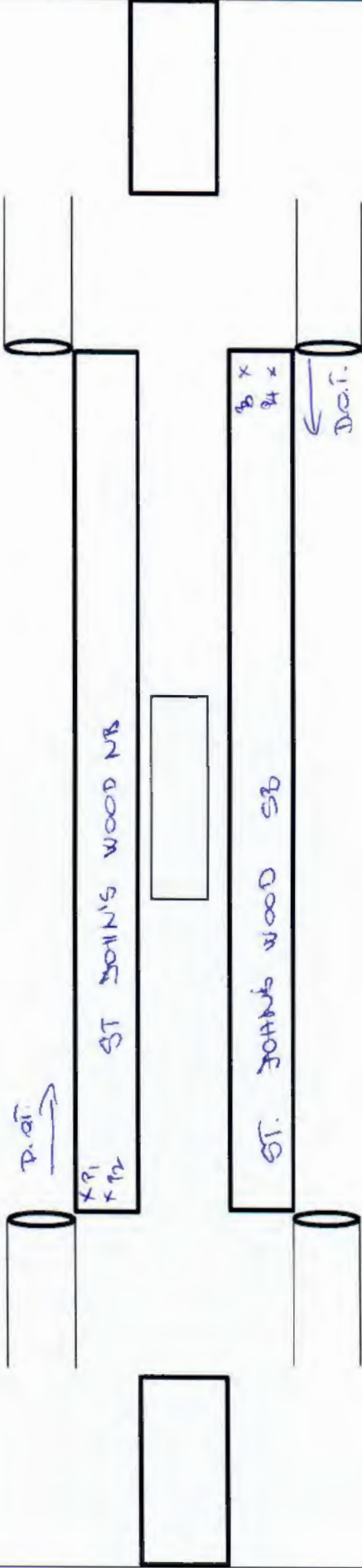
1931

AIRBORNE FIBRE MONITORING SITE DIAGRAM



THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.

NOT TO SCALE



X	SAMPLE POSITION (APPROXIMATE)	DIMENSIONS OF ENCLOSURE			
		LENGTH / M	HEIGHT / M	WIDTH / M	TOTAL / M ³
NPU	NEGATIVE PRESSURE UNIT				
AL	AIR LOCK				
BL	BAG LOCK				
DCU	DUST COLLECTOR UNIT				
ACM	ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS.				

ARC's REPRESENTATIVE ACKNOWLEDGEMENT

NAME _____ SIGNED _____

DATE 27/02/19 TIME _____

Head Office: Unit 3, Metro Centre, Britannia Way, London, NW10 7PA. Laboratory: Unit 11, Ironbridge Close, Great Central Way, London, NW10 0JF
 T: +44(0)20 8955 9680 F: +44(0)20 8955 9689 E-mail: enquiries@4-rail.com
 VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO 183247 CERTIFICATE NO C/183247/270218/02 PAGE NO 4 of 4

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TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 App.1 7.0), IF APPROPRIATE: N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S): N/A

NPU FILTER AREA, IF REQUIRED (M²): N/A

21:35 - ARRIVE ON SITE AND REPORTS TO SSO AT ST. JOHN'S WOOD

22:40 - AFMS (x 4) ACTIVATED ON PLATFORMS DURING COT.

00:05 - AFMS (x 4) COLLECTED

- 4-RAIL SIGN OUT WITH SSO

04:50 - RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

05:00 - AFMS COUNTED AND FOUND TO BE SATISFACTORY 20.01 fml

05:00 - PAPERWORK COMPLETED

Station Stamp:

ST JOHN'S WOOD



AIRBORNE FIBRE MONITORING CERTIFICATE OF ANALYSIS



CLIENT
ADDRESS



TEST DATE: 27.02.19
PAGE NO.: 1 of 4
JOB NUMBER: 183247
CERTIFICATE REF: C183247/270219/03
ISSUE NO.: 001

SITE: Belsize Park : ES6395c

TYPE OF TEST(S): Static : Background (B)/ Leak (L)/ Reassurance (R) / Clearance (C); Personal (P)

ANALYSIS LOCATION: 4 - Rail Laboratory : Neasden NO OF SAMPLES: 5 (FIVE)

REMOVAL OPERATION: AFM on station platforms before close of traffic.

ASBESTOS REMOVAL CONTRACTOR (ARC): _____ TYPE OF ASBESTOS: Amosite/Chrysotile

SLIDE No	TEST	LOCATION / OPERATION	START TIME	FINISH TIME	FLOW RATE (l/min)	VOL. OF AIR (litres)	FIBRES	FIELDS	LOQ* (f/ml)	CALC FIBRE CONC ^N (f/ml)	FIBRE CONC ^N (f/ml)
269944	FB	Field Blank	2231	2232	.	-	0	100	-	-	-
269945	R	P1 SEE DIAGRAM	2230	2310	6.2	248	1.0	194	} POOLED SAMPLE 0.01 0.001 < 0.01		
269946	R	P2 SEE DIAGRAM	2230	2310	6.2	248	1.5	194			
269947	R	P3 SEE DIAGRAM	2315	2355	6.2	248	0.5	194			
269948	R	P4 SEE DIAGRAM	2315	2355	6.2	248	2.0	194			

Flow rate correction made for temperature or pressure? Y/N


Test Method carried out in accordance with HSG248 and in-house test procedure 4R-E203. Fibres referred to may or may not be asbestos fibres. Samples taken will be held in the main laboratory and disposed of after a *minimum* period of six months.

* LOQ (LIMIT OF QUANTIFICATION) / UNCERTAINTY OF MEASUREMENT

The lower limit of accurate measurement (fibre level, f/ml) of the above method is stated in HSG248 as 0.01 fibres/ml. When the sample volume is 480 litres and 200 graticule fields are examined the result is expressed as <0.01 fibres/ml. For sample volumes different to 480 litres and 200 graticule fields, the limit of accurate measurement will be different, as detailed in the table above.

LIMITS (limits, published in HSE documents, that are applicable to the above samples are ticked)

- HSE Recognised Clearance Indicator Limit: <0.01 fibres/ml. (applicable to static samples)
- HSE 4-hour Control Limit: 0.1 fibres/ml. (applicable to personal samples) Respirator: _____
- All the above results were below the applicable limits. Comments: _____

SAMPLING UNDERTAKEN BY:  POSITION: TECHNOLOGIST

SLIDES COUNTED BY: _____ POSITION: TECHNICIAN

CERTIFICATE ISSUED BY: _____ POSITION: _____

SIGNATURE: _____ DATE: 28.02.19

INSPECTION PRIOR TO WORK COMMENCING: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	TIME OF VISUAL INSPECTION: _____
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
SIZE OF RESPIRATOR ZONE / SIGNAGE AS PER ARC'S METHOD STATEMENT	YES <input type="checkbox"/> NO <input type="checkbox"/> COMMENTS: _____
INSPECTION DURING WORK: N/A <input checked="" type="checkbox"/>	
ENCLOSURE <input type="checkbox"/> / WORKSITE <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
ENCLOSURE INTACT	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
AIR EXTRACTION UNIT(S) OPERATING	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____
RESPIRATOR ZONE DESIGNATED & MAINTAINED	YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> COMMENTS: _____

SLIDE NO	HEAD/PUMP No.	START FLOW RATE (l/min)	START TIME	FINAL FLOW RATE (l/min)	FINISH TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME	FLOW RATE CHECK (l/min)	TIME
269944	56701 / Field Blank	—	2231	—	2232	—	—	—	—	—	—	—	—
269945	IK10 / 402719	6.2 2230 (SD)	2230	6.2	2310	6.2	2245	—	—	—	—	—	—
269946	IK13 / 402724	6.2 2230 (SD)	2230	6.2	2310	6.2	2245	—	—	—	—	—	—
269947	56705 / 402719	6.2	2315	6.2	2355	6.2	2330	—	—	—	—	—	—
269948	56707 / 402724	6.2	2315	6.2	2355	6.2	2330	—	—	—	—	—	—



START PRESSURE 1020 mbar FINAL PRESSURE 1020 mbar PRESSURE MEASURED BY: NPL Website
 START TEMPERATURE 23 °C FINAL TEMPERATURE: 23 °C THERMOMETER REF: 402612

MICROSCOPE & OTHER EQUIPMENT

MICROSCOPE NO. <u>410261</u>	FOCUS CONDENSER <u>SAT</u>	CENTRE CONDENSER <u>SAT</u>	ALIGN PHASE RINGS <u>SAT</u>
NPL TEST SLIDE NO. <u>6053</u>	NO OF VISIBLE BANDS <u>5</u>	GRATICULE SLIDE NO. <u>2315</u>	GRATICULE DIAMETER <u>100</u> µM
NEXT CHECK DUE <u>01.05.19</u>	0.8 µM <input checked="" type="checkbox"/> 1.2 µM <input type="checkbox"/>	NEXT CHECK DUE <u>01.05.19</u>	FILTER BATCH/ LOT NUMBER <u>18900-7E2-127</u>
FILTER TYPE: MIXED CELLULOSE ESTERS/NITRATE, 25MM, WHITE GRIDDED	✓	—	CALC. AREA OF EXPOSED FILTER <u>22.0</u> MM
FLOW METER REFERENCE NO <u>402362</u>	CHECK DUE DATE <u>21/05/19</u>	FLOW METER REFERENCE NO	CHECK DUE DATE
TALLY COUNTER No.: <u>402417</u>	DATE OF NEXT CHECK <u>07.05.19</u>	TALLY COUNTER No.: <u>402435</u>	DATE OF NEXT CHECK <u>07.05.19</u>
TIMEPIECE <u>460043</u> (SD)	<u>460044</u>	CALIBRATION DUE DATE	<u>23/03/19</u> (SD) <u>18.05.19</u>

CONDITIONS OF ISSUE : THIS CERTIFICATE IS ISSUED TO THE CLIENT IN CONFIDENCE AND SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 4-RAIL SERVICES. ANY QUERIES OR REQUESTS FOR ADDITIONAL INFORMATION ON THE SUBJECT OF THIS REPORT SHOULD BE ADDRESSED TO A CONSULTANT WHO MAY BE CONTACTED AT THE ADDRESS GIVEN ON THE FOOTER OF THIS PAGE.



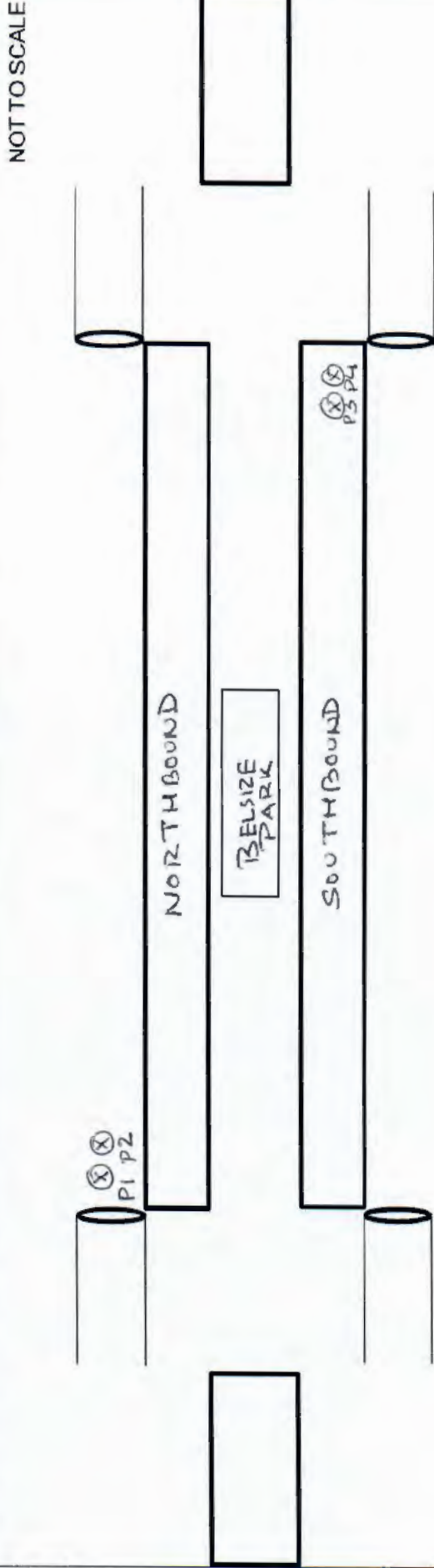
1931

AIRBORNE FIBRE MONITORING SITE DIAGRAM

4-RAIL

Services Ltd

THE SITE DIAGRAM SHOULD INCLUDE THE LOCATION OF ACMs TO BE REMEDIATED, ENCLOSURE / WORK AREA INCLUDING AIRLOCKS AND BAGLOCKS, TRANSIT AND WASTE ROUTES, SKIP AND HYGIENE FACILITIES. IT SHOULD PROVIDE DETAILS OF SIZES AND DIMENSIONS.



X	SAMPLE POSITION (APPROXIMATE)	DIMENSIONS OF ENCLOSURE			
		LENGTH / M	HEIGHT / M	WIDTH / M	TOTAL / M ³
NPU	NEGATIVE PRESSURE UNIT				
AL	AIRLOCK				
BL	BAGLOCK				
DCU	DECONTAMINATION UNIT				
ACM	LOCATION OF ASBESTOS CONTAINING MATERIAL TO BE REMEDIATED. GIVE DETAILS.				

ARC's REPRESENTATIVE ACKNOWLEDGEMENT

NAME _____ SIGNED _____ DATE _____ TIME _____

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VAT Registration Number: 691 5975 82 Company Registration No.: 3256863

AIRBORNE FIBRE MONITORING REMARKS & OBSERVATIONS

JOB NO

183247

CERTIFICATE NO

C183247/270214/03

PAGE NO

4 of 4

The opinions and interpretations expressed herein are outside the scope of the UKAS Accreditation.

TO INCLUDE SPECIFIC ACTIVITIES OR EVENTS TAKING PLACE DURING SAMPLING, ANY RELEVANT ENVIRONMENTAL CONDITIONS

CONDITION OF SITE LABORATORY ASSESSED (E203 App.1 7.0), IF APPROPRIATE: N/A

AIR VELOCITY OF NPU, IF REQUIRED (M/S): N/A

NPU FILTER AREA, IF REQUIRED (M²): N/A

2222 - ARRIVE ON SITE AND REPORTS TO SSO AT BELSIZE PARK

2230 - AFMs ⁽⁵⁾ (x~~7~~) ACTIVATED ON PLATFORMS DURING COT.

2355 - AFMs ⁽⁵⁾ (x~~7~~) COLLECTED

2000 - 4-RAIL SIGN OUT WITH SSO

- RETURN TO 4-RAIL AFM LAB TO COUNT ALL AFMS

05:01 - AFMS COUNTED AND FOUND TO BE SATISFACTORY < 0.01f/cm³

05:02 - PAPERWORK COMPLETED

Station Stamp:

BELSIZE PARK