

[table continued from previous page...](#)

Additional Photo 3



Image Added: 2022-09-05 14:20:51

Additional Photo 4



Image Added: 2022-09-05 14:20:51

Test: Near Source Air Test (538234-1) - Count Sheet

Lucion Report Number		Test Date		Sampled By		Counted By										
538234-1		Monday, 5th September, 2022		Oliver Dilley		Oliver Dilley										
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)		T Site (C)		T Pcal (hPa)												
293		20		1013												
Microscope & Calculation Detail																
P Site (hPa)	Correction Required	Micro No.	Graticule Dia (µm)	Test Slide Result (Grid No.)	Filter Dia. Exposed (mm)											
1014	1	1454	100	5	22.5											
Instrument Detail																
Thermometer, Barometer	Timepiece	Flow (Hi)	Flow (Low)	HSE/NPL	Graticule Slide											
N/A	503	286	387	1836	1702											
Sample Details																
Sample No.	Sample Location	Head No.	Pump No.	Time On (hh:mm)	Time Off (hh:mm)	Run Time (mins)	Start Flow (lmin-1)	Int Flow (lmin-1)	End Flow (lmin-1)	Calc. Volume (l)	Corr. Volume (l)	Fibres	Fields	Limit of Quantification (Fibres cm ⁻³)	Calc. Conc. (Fibres cm ⁻³)	Report. Conc. (Fibres cm ⁻³)
538234-1-1	Field Blank	2734														
538234-1-2	Positioned at the perimeter fence adjacent the excavation of made ground	6708	8151	09:47:12	10:47:54	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01
538234-1-3	Positioned adjacent the fenced off contaminated spoil prior to its removal from site	6708	3264	09:51:15	10:51:40	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01
538234-1-4	Positioned at the marked gas lines at the perimeter fence adjacent the excavation of made ground	6708	8151	11:07:10	12:07:59	60	8.0		8.0	480	480	4.0	200	0.01	0.002	<0.01
538234-1-5	Positioned adjacent the fenced off contaminated spoil prior to its removal from site	6709	3264	11:11:01	12:11:59	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01
538234-1-6	Positioned at the marked gas lines at the perimeter fence adjacent the excavation of made ground	6708	8151	12:42:33	13:42:54	60	8.0		8.0	480	480	3.5	200	0.01	0.002	<0.01
538234-1-7	Positioned adjacent the fenced off contaminated spoil prior to its removal from site	6709	3264	12:43:00	13:43:19	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01

table continued from previous page...

Sample Details																
538234-1-8	Positioned adjacent the fenced off contaminated spoil during the movement of potentially contaminated spoil	6709	8151	14:09:52	15:09:56	60	8.0		8.0	480	480	4.0	200	0.01	0.002	<0.01
538234-1-9	Positioned in the carpark during the movement of non contaminated spoil	6708	3264	14:11:16	15:11:25	60	8.0		8.0	480	480	4.5	200	0.01	0.002	<0.01

Asbestos Analyst's Certificate Report

Job Ref No: **538234**, Cert Ref No: **89608**, Account Ref No: **25660**, Contract Ref No: **85664**

First Street, Manchester City Centre, M15 4AA



on site photo



general works area photo

Building	Level	Works-Area	Enclosure Used?	Certificate Issue Date
First Street Plot 9a	0	Throughout the site during excavation works.	No	Monday, 5th September, 2022

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T: 0345 5040 303

Issuing Office:
North West & Yorkshire
Preston Brook - Lucion Services
Ltd, 5 Abbots Park, Preston Brook,
Runcorn, WA7 3GH

Intro

This certificate is for the attention of

Andrew Harris
Idom Merebrook Limited
Cromford Mills Mill Lane, Cromford, Matlock, Derbyshire, DE4 3RQ

Sampling & Evaluation Methods

In-house methods TOP02.08 & TOP02.09 in accordance with HSG 248 Asbestos - The Analyst's Guide to Sampling, Analysis and Clearance Procedures.

Notes: The samples referred to in this report will be retained for 6 months unless requested otherwise. Unless otherwise stated, there are no departures from the sampling and evaluation methods specified. Results detailed in this report relate only to the time, and corresponding conditions prevailing, when the sampling and examination were undertaken.

Notes to Test Accuracy

Airflow measured on site is recorded against a correction chart. Flow meters are calibrated against a UKAS certified master flow meter accurate to $\pm 0.5\%$. In accordance with HSG248, if the combined effect of ambient temperature and pressure between calibration and sampling location exceeds 5% a correction is applied to the air sample volume. The calculated fibre concentration is given for each air sample taken. Where the corresponding reported fibre concentration is preceded by "<", the lower limit of quantification (LOQ) of the method has not been reached. For a 480 litre air sample with 200 graticule areas counted, the (LOQ) of this method is 0.010 fibres per cubic centimetre of air; samples of less volume/graticules will be reported to a lower LOQ (refer count sheet, and for example, for personal sampling against the 4 hour control limit the LOQ is 0.04 fibres per cubic centimetre and against the 10 minute control limit the LOQ is 0.24 fibres per cubic centimetre). While counting randomly distributed fibres, an expected degree of variation of 1.5 standard deviations from the mean count may occur. At clearance indicator level (0.01 fibres per cubic centimetre of air) a 480-litre air sample yielding a count of 20 fibres over 200 fields would have an expected standard deviation of ± 8 fibres.

Note: the reported result is for respirable fibres and not solely asbestos fibres.

Sampling

When testing within an Enclosure and conducting a 4-Stage Clearance - the number of samples (Ns) is calculated by $A^{1/3-1}$. Where enclosure is less than 3m in height: A is denoted by area. Where enclosure is greater than 3m in height: A is denoted by volume/3. Refer air sampling and fibre counting sheet.

When testing within a decontamination unit (DCU) - where the combined floor area of shower and dirty areas is less than 10m²; 1 air test has been carried out. During this test the door between these areas has been propped open. For combined floor areas exceeding 10m² a sample in each area (i.e. shower and dirty end) will be taken.

For tests other than those associated with 4-Stage Clearance testing the analyst will apply the principles of current HSE guidance and experience combined with situational circumstances.

Where a photograph of the completed decontamination unit certificate appears in this report the analyst has completed an abridged report to be left inside the DCU; this abridged report should not be used in lieu of this comprehensive report.

Where sampling plans have been supplied; please note these are not to scale.

Where a sample filter has been deemed uncountable or biased the analyst will record this as "uncountable" in the count-sheet.

Field Blanks - Where site sampling and counting is carried out in a field laboratory a field blank is carried out by the analyst prior to the start of sampling and counting. The field blank constitutes a filter taken from a loaded but unused filter head that is mounted in the usual way and assigned a sample number which is recorded on the slide and the count sheet. Following sampling and analysis of the air tests, the results shall be assessed; where low counts ($<0.01 \text{ fcm}^{-3}$) are obtained from some of the field samples, analysis of the field blank will not be necessary. Where elevated counts ($>0.01 \text{ fcm}^{-3}$) are obtained on all field samples, then the field blank must be counted to exclude the possibility of contamination.

Disclaimers

Any opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This certificate is valid only when it bears the signature of an authorised member of Lucion personnel. Please note the witnessing of smoke tests is outwith the scope of UKAS accreditation.

Representatives Signature - The signatory on report acknowledgement agrees to findings of this report being accurate and correct and Lucion Services Ltd issuing this report to the email address held on record for the job and does not require a copy of this report to be left on site. Furthermore Lucion Services Ltd cannot be held responsible for any actions undertaken following the issue of this report.

This certificate *may* be part of a series of works and should be read in conjunction with the Asbestos Analyst's Job Summary Report.

Report Contents

Test: Near Source Air Test (538234-1)	5
Sample: Field Blank (538234-1-1)	7
Sample: Positioned at the perimeter fence adjacent the excavation of made ground (538234-1-2)	7
Sample: Positioned adjacent the fenced off contaminated spoil prior to its removal from site (538234-1-3)	7
Sample: Positioned at the marked gas lines at the perimeter fence adjacent the excavation of made ground (538234-1-4)	7
Sample: Positioned adjacent the fenced off contaminated spoil prior to its removal from site (538234-1-5)	7
Sample: Positioned at the marked gas lines at the perimeter fence adjacent the excavation of made ground (538234-1-6)	7
Sample: Positioned adjacent the fenced off contaminated spoil prior to its removal from site (538234-1-7)	7
Sample: Positioned adjacent the fenced off contaminated spoil during the movement of potentially contaminated spoil (538234-1-8)	7
Sample: Positioned in the carpark during the movement of non contaminated spoil (538234-1-9)	7
Test: Far Source Air Test (538234-2)	9
Sample: Adjacent potentially contaminated spoil during removal (538234-2-1)	11
Sample: Adjacent potentially contaminated spoil during removal (538234-2-2)	11
Sample: Adjacent potentially contaminated spoil during removal (538234-2-3)	11
Sample: Adjacent potentially contaminated spoil during removal (538234-2-4)	11
Sample: Field Blank (538234-2-5)	11

Test: Near Source Air Test (538234-1)

Number of samples being taken	8
Samples prepared at	Van NA69RKX
Samples counted at	Van NA69RKX
Stage Warning?	No
Analyst Signature Signature Date	 Monday, 5th September, 2022 @ 15:32:41
Analyst Name	Oliver Dilley
Additional Photo 1	 Image Added: 2022-09-05 10:49:02
Additional Photo 2	 Image Added: 2022-09-05 10:49:02

[table continued from previous page...](#)

Additional Photo 3



Image Added: 2022-09-05 14:20:51

Additional Photo 4



Image Added: 2022-09-05 14:20:51

Test: Near Source Air Test (538234-1) - Count Sheet

Lucion Report Number		Test Date		Sampled By		Counted By										
538234-1		Monday, 5th September, 2022		Oliver Dilley		Oliver Dilley										
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)		T Site (C)		T Pcal (hPa)												
293		20		1013												
Microscope & Calculation Detail																
P Site (hPa)	Correction Required	Micro No.	Graticule Dia (µm)		Test Slide Result (Grid No.)		Filter Dia. Exposed (mm)									
1014	1	1454	100		5		22.5									
Instrument Detail																
Thermometer, Barometer	Timepiece	Flow (Hi)	Flow (Low)		HSE/NPL		Graticule Slide									
N/A	503	286	387		1836		1702									
Sample Details																
Sample No.	Sample Location	Head No.	Pump No.	Time On (hh:mm)	Time Off (hh:mm)	Run Time (mins)	Start Flow (lmin-1)	Int Flow (lmin-1)	End Flow (lmin-1)	Calc. Volume (l)	Corr. Volume (l)	Fibres	Fields	Limit of Quantification (Fibres cm ⁻³)	Calc. Conc. (Fibres cm ⁻³)	Report. Conc. (Fibres cm ⁻³)
538234-1-1	Field Blank	2734														
538234-1-2	Positioned at the perimeter fence adjacent the excavation of made ground	6708	8151	09:47:12	10:47:54	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01
538234-1-3	Positioned adjacent the fenced off contaminated spoil prior to its removal from site	6708	3264	09:51:15	10:51:40	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01
538234-1-4	Positioned at the marked gas lines at the perimeter fence adjacent the excavation of made ground	6708	8151	11:07:10	12:07:59	60	8.0		8.0	480	480	4.0	200	0.01	0.002	<0.01
538234-1-5	Positioned adjacent the fenced off contaminated spoil prior to its removal from site	6709	3264	11:11:01	12:11:59	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01
538234-1-6	Positioned at the marked gas lines at the perimeter fence adjacent the excavation of made ground	6708	8151	12:42:33	13:42:54	60	8.0		8.0	480	480	3.5	200	0.01	0.002	<0.01
538234-1-7	Positioned adjacent the fenced off contaminated spoil prior to its removal from site	6709	3264	12:43:00	13:43:19	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01

table continued from previous page...

Sample Details																
538234-1-8	Positioned adjacent the fenced off contaminated spoil during the movement of potentially contaminated spoil	6709	8151	14:09:52	15:09:56	60	8.0		8.0	480	480	4.0	200	0.01	0.002	<0.01
538234-1-9	Positioned in the carpark during the movement of non contaminated spoil	6708	3264	14:11:16	15:11:25	60	8.0		8.0	480	480	4.5	200	0.01	0.002	<0.01

Test: Far Source Air Test (538234-2)

Number of samples being taken	4
Samples prepared at	Van [NJ20JFE]
Samples counted at	Van [NJ20JFE]
Stage Warning?	No
Analyst Signature Signature Date	 Tuesday, 6th September, 2022 @ 14:52:11
Analyst Name	Matt Foster
Additional notes	Air tests adjacent potentially contaminated spoil during the removal as advised by Andrew Harris. Sample location diagram found in notes.
Additional Photo 1	 Image Added: 2022-09-06 14:25:11 Adjacent potentially contaminated spoil during removal

[table continued from previous page...](#)

Additional Photo 2



Image Added: 2022-09-06 14:25:11

Adjacent potentially contaminated spoil during removal

Additional Photo 3



Image Added: 2022-09-06 14:25:11

Adjacent potentially contaminated spoil during removal

Additional Photo 4



Image Added: 2022-09-06 14:25:11

Adjacent potentially contaminated spoil during removal

Test: Far Source Air Test (538234-2) - Count Sheet

Lucion Report Number		Test Date		Sampled By		Counted By										
538234-2		Tuesday, 6th September, 2022		Matt Foster		Matt Foster										
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)		T Site (C)		T Pcal (hPa)												
293		18		1013												
Microscope & Calculation Detail																
P Site (hPa)	Correction Required	Micro No.	Graticule Dia (µm)	Test Slide Result (Grid No.)	Filter Dia. Exposed (mm)											
1010	1	1480	100	5	22.5											
Instrument Detail																
Thermometer, Barometer	Timepiece	Flow (Hi)	Flow (Low)	HSE/NPL	Graticule Slide											
N/A	455	296	350	1826	1719											
Sample Details																
Sample No.	Sample Location	Head No.	Pump No.	Time On (hh:mm)	Time Off (hh:mm)	Run Time (mins)	Start Flow (lmin-1)	Int Flow (lmin-1)	End Flow (lmin-1)	Calc. Volume (l)	Corr. Volume (l)	Fibres	Fields	Limit of Quantification (Fibres cm ⁻³)	Calc. Conc. (Fibres cm ⁻³)	Report. Conc. (Fibres cm ⁻³)
538234-2-1	Adjacent potentially contaminated spoil during removal	47	5804	13:19:38	13:51:50	32	15.0		15.0	480	480	0.0	200	0.01	<0.001	<0.01
538234-2-2	Adjacent potentially contaminated spoil during removal	53	1061	13:22:15	13:54:43	32	15.0		15.0	480	480	0.5	200	0.01	<0.001	<0.01
538234-2-3	Adjacent potentially contaminated spoil during removal	101	902	13:25:12	14:25:32	60	8.0		8.0	480	480	1.0	200	0.01	0.001	<0.01
538234-2-4	Adjacent potentially contaminated spoil during removal	111	903	13:29:17	14:29:36	60	8.0		8.0	480	480	0.5	200	0.01	<0.001	<0.01
538234-2-5	Field Blank	600														

Asbestos Analyst's Certificate Report

Job Ref No: **538234**, Cert Ref No: **89608**, Account Ref No: **25660**, Contract Ref No: **85664**

First Street, Manchester City Centre, M15 4AA



on site photo



general works area photo

Building	Level	Works-Area	Enclosure Used?	Certificate Issue Date
First Street Plot 9a	0	Throughout the site during excavation works.	No	Friday, 9th September, 2022

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T: 0345 5040 303

Issuing Office:
North West & Yorkshire
Preston Brook - Lucion Services
Ltd, 5 Abbots Park, Preston Brook,
Runcorn, WA7 3GH

Intro

This certificate is for the attention of

Andrew Harris
Idom Merebrook Limited
Cromford Mills Mill Lane, Cromford, Matlock, Derbyshire, DE4 3RQ

Sampling & Evaluation Methods

In-house methods TOP02.08 & TOP02.09 in accordance with HSG 248 Asbestos - The Analyst's Guide to Sampling, Analysis and Clearance Procedures.

Notes: The samples referred to in this report will be retained for 6 months unless requested otherwise. Unless otherwise stated, there are no departures from the sampling and evaluation methods specified. Results detailed in this report relate only to the time, and corresponding conditions prevailing, when the sampling and examination were undertaken.

Notes to Test Accuracy

Airflow measured on site is recorded against a correction chart. Flow meters are calibrated against a UKAS certified master flow meter accurate to $\pm 0.5\%$. In accordance with HSG248, if the combined effect of ambient temperature and pressure between calibration and sampling location exceeds 5% a correction is applied to the air sample volume. The calculated fibre concentration is given for each air sample taken. Where the corresponding reported fibre concentration is preceded by "<", the lower limit of quantification (LOQ) of the method has not been reached. For a 480 litre air sample with 200 graticule areas counted, the (LOQ) of this method is 0.010 fibres per cubic centimetre of air; samples of less volume/graticules will be reported to a lower LOQ (refer count sheet, and for example, for personal sampling against the 4 hour control limit the LOQ is 0.04 fibres per cubic centimetre and against the 10 minute control limit the LOQ is 0.24 fibres per cubic centimetre). While counting randomly distributed fibres, an expected degree of variation of 1.5 standard deviations from the mean count may occur. At clearance indicator level (0.01 fibres per cubic centimetre of air) a 480-litre air sample yielding a count of 20 fibres over 200 fields would have an expected standard deviation of ± 8 fibres.

Note: the reported result is for respirable fibres and not solely asbestos fibres.

Sampling

When testing within an Enclosure and conducting a 4-Stage Clearance - the number of samples (Ns) is calculated by $A^{1/3-1}$. Where enclosure is less than 3m in height: A is denoted by area. Where enclosure is greater than 3m in height: A is denoted by volume/3. Refer air sampling and fibre counting sheet.

When testing within a decontamination unit (DCU) - where the combined floor area of shower and dirty areas is less than 10m²; 1 air test has been carried out. During this test the door between these areas has been propped open. For combined floor areas exceeding 10m² a sample in each area (i.e. shower and dirty end) will be taken.

For tests other than those associated with 4-Stage Clearance testing the analyst will apply the principles of current HSE guidance and experience combined with situational circumstances.

Where a photograph of the completed decontamination unit certificate appears in this report the analyst has completed an abridged report to be left inside the DCU; this abridged report should not be used in lieu of this comprehensive report.

Where sampling plans have been supplied; please note these are not to scale.

Where a sample filter has been deemed uncountable or biased the analyst will record this as "uncountable" in the count-sheet.

Field Blanks - Where site sampling and counting is carried out in a field laboratory a field blank is carried out by the analyst prior to the start of sampling and counting. The field blank constitutes a filter taken from a loaded but unused filter head that is mounted in the usual way and assigned a sample number which is recorded on the slide and the count sheet. Following sampling and analysis of the air tests, the results shall be assessed; where low counts ($<0.01 \text{ fcm}^{-3}$) are obtained from some of the field samples, analysis of the field blank will not be necessary. Where elevated counts ($>0.01 \text{ fcm}^{-3}$) are obtained on all field samples, then the field blank must be counted to exclude the possibility of contamination.

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Any opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This certificate is valid only when it bears the signature of an authorised member of Lucion personnel. Please note the witnessing of smoke tests is outwith the scope of UKAS accreditation.

Representatives Signature - The signatory on report acknowledgement agrees to findings of this report being accurate and correct and Lucion Services Ltd issuing this report to the email address held on record for the job and does not require a copy of this report to be left on site. Furthermore Lucion Services Ltd cannot be held responsible for any actions undertaken following the issue of this report.

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Report Contents

Test: Near Source Air Test (538234-1)	6
Sample: Field Blank (538234-1-1)	8
Sample: Positioned at the perimeter fence adjacent the excavation of made ground (538234-1-2)	8
Sample: Positioned adjacent the fenced off contaminated spoil prior to its removal from site (538234-1-3)	8
Sample: Positioned at the marked gas lines at the perimeter fence adjacent the excavation of made ground (538234-1-4)	8
Sample: Positioned adjacent the fenced off contaminated spoil prior to its removal from site (538234-1-5)	8
Sample: Positioned at the marked gas lines at the perimeter fence adjacent the excavation of made ground (538234-1-6)	8
Sample: Positioned adjacent the fenced off contaminated spoil prior to its removal from site (538234-1-7)	8
Sample: Positioned adjacent the fenced off contaminated spoil during the movement of potentially contaminated spoil (538234-1-8)	8
Sample: Positioned in the carpark during the movement of non contaminated spoil (538234-1-9)	8
Test: Far Source Air Test (538234-2)	10
Sample: Adjacent potentially contaminated spoil during removal (538234-2-1)	12
Sample: Adjacent potentially contaminated spoil during removal (538234-2-2)	12
Sample: Adjacent potentially contaminated spoil during removal (538234-2-3)	12
Sample: Adjacent potentially contaminated spoil during removal (538234-2-4)	12
Sample: Field Blank (538234-2-5)	12
Test: Far Source Air Test (538234-3)	13
Sample: Field Blank (538234-3-1)	14
Sample: Adjacent potentially contaminated spoil during excavation (538234-3-2)	14
Sample: Adjacent potentially contaminated spoil during excavation (538234-3-3)	14
Sample: Adjacent potentially contaminated spoil during excavation (538234-3-4)	14
Sample: Adjacent potentially contaminated spoil during excavation (538234-3-5)	14
Sample: Adjacent potentially contaminated spoil during excavation (538234-3-6)	14
Sample: Adjacent potentially contaminated spoil during excavation (538234-3-7)	14
Test: Far Source Air Test (538234-4)	16
Sample: Far source air test adjacent north west corner of perimeter fence (538234-4-1)	18
Sample: Far source air test adjacent west perimeter fence (538234-4-2)	18
Sample: Far source air test adjacent south west corner of perimeter fence (538234-4-3)	18
Sample: Field Blank (538234-4-4)	18
Sample: Far source air test adjacent south perimeter fence (538234-4-5)	18
Sample: Far source air test adjacent south perimeter fence (538234-4-6)	18

Sample: Far source air test adjacent south perimeter fence (538234-4-7)	18
Sample: Far source air test adjacent east perimeter fence (538234-4-8)	18
Sample: Far source air test adjacent east perimeter fence (538234-4-9)	18
Sample: Far source air test adjacent north east perimeter fence (538234-4-10)	18

Test: Near Source Air Test (538234-1)

Number of samples being taken	8
Samples prepared at	Van NA69RKX
Samples counted at	Van NA69RKX
Stage Warning?	No
Analyst Signature Signature Date	 Monday, 5th September, 2022 @ 15:32:41
Analyst Name	Oliver Dilley
Additional Photo 1	 Image Added: 2022-09-05 10:49:02
Additional Photo 2	 Image Added: 2022-09-05 10:49:02

[table continued from previous page...](#)

Additional Photo 3



Image Added: 2022-09-05 14:20:51

Additional Photo 4



Image Added: 2022-09-05 14:20:51

Test: Near Source Air Test (538234-1) - Count Sheet

Lucion Report Number		Test Date		Sampled By		Counted By										
538234-1		Monday, 5th September, 2022		Oliver Dilley		Oliver Dilley										
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)		T Site (C)		T Pcal (hPa)												
293		20		1013												
Microscope & Calculation Detail																
P Site (hPa)	Correction Required	Micro No.	Graticule Dia (µm)	Test Slide Result (Grid No.)	Filter Dia. Exposed (mm)											
1014	1	1454	100	5	22.5											
Instrument Detail																
Thermometer, Barometer	Timepiece	Flow (Hi)	Flow (Low)	HSE/NPL	Graticule Slide											
N/A	503	286	387	1836	1702											
Sample Details																
Sample No.	Sample Location	Head No.	Pump No.	Time On (hh:mm)	Time Off (hh:mm)	Run Time (mins)	Start Flow (lmin-1)	Int Flow (lmin-1)	End Flow (lmin-1)	Calc. Volume (l)	Corr. Volume (l)	Fibres	Fields	Limit of Quantification (Fibres cm ⁻³)	Calc. Conc. (Fibres cm ⁻³)	Report. Conc. (Fibres cm ⁻³)
538234-1-1	Field Blank	2734														
538234-1-2	Positioned at the perimeter fence adjacent the excavation of made ground	6708	8151	09:47:12	10:47:54	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01
538234-1-3	Positioned adjacent the fenced off contaminated spoil prior to its removal from site	6708	3264	09:51:15	10:51:40	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01
538234-1-4	Positioned at the marked gas lines at the perimeter fence adjacent the excavation of made ground	6708	8151	11:07:10	12:07:59	60	8.0		8.0	480	480	4.0	200	0.01	0.002	<0.01
538234-1-5	Positioned adjacent the fenced off contaminated spoil prior to its removal from site	6709	3264	11:11:01	12:11:59	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01
538234-1-6	Positioned at the marked gas lines at the perimeter fence adjacent the excavation of made ground	6708	8151	12:42:33	13:42:54	60	8.0		8.0	480	480	3.5	200	0.01	0.002	<0.01
538234-1-7	Positioned adjacent the fenced off contaminated spoil prior to its removal from site	6709	3264	12:43:00	13:43:19	60	8.0		8.0	480	480	3.0	200	0.01	0.002	<0.01

table continued from previous page...

Sample Details																
538234-1-8	Positioned adjacent the fenced off contaminated spoil during the movement of potentially contaminated spoil	6709	8151	14:09:52	15:09:56	60	8.0		8.0	480	480	4.0	200	0.01	0.002	<0.01
538234-1-9	Positioned in the carpark during the movement of non contaminated spoil	6708	3264	14:11:16	15:11:25	60	8.0		8.0	480	480	4.5	200	0.01	0.002	<0.01

Test: Far Source Air Test (538234-2)

Number of samples being taken	4
Samples prepared at	Van [NJ20JFE]
Samples counted at	Van [NJ20JFE]
Stage Warning?	No
Analyst Signature Signature Date	 Tuesday, 6th September, 2022 @ 14:52:11
Analyst Name	Matt Foster
Additional notes	Air tests adjacent potentially contaminated spoil during the removal as advised by Andrew Harris. Sample location diagram found in notes.
Additional Photo 1	 Image Added: 2022-09-06 14:25:11 Adjacent potentially contaminated spoil during removal

[table continued from previous page...](#)

Additional Photo 2



Image Added: 2022-09-06 14:25:11

Adjacent potentially contaminated spoil during removal

Additional Photo 3



Image Added: 2022-09-06 14:25:11

Adjacent potentially contaminated spoil during removal

Additional Photo 4



Image Added: 2022-09-06 14:25:11

Adjacent potentially contaminated spoil during removal

Test: Far Source Air Test (538234-2) - Count Sheet

Lucion Report Number		Test Date		Sampled By		Counted By										
538234-2		Tuesday, 6th September, 2022		Matt Foster		Matt Foster										
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)		T Site (C)		T Pcal (hPa)												
293		18		1013												
Microscope & Calculation Detail																
P Site (hPa)	Correction Required	Micro No.	Graticule Dia (µm)	Test Slide Result (Grid No.)	Filter Dia. Exposed (mm)											
1010	1	1480	100	5	22.5											
Instrument Detail																
Thermometer, Barometer	Timepiece	Flow (Hi)	Flow (Low)	HSE/NPL	Graticule Slide											
N/A	455	296	350	1826	1719											
Sample Details																
Sample No.	Sample Location	Head No.	Pump No.	Time On (hh:mm)	Time Off (hh:mm)	Run Time (mins)	Start Flow (lmin-1)	Int Flow (lmin-1)	End Flow (lmin-1)	Calc. Volume (l)	Corr. Volume (l)	Fibres	Fields	Limit of Quantification (Fibres cm ⁻³)	Calc. Conc. (Fibres cm ⁻³)	Report. Conc. (Fibres cm ⁻³)
538234-2-1	Adjacent potentially contaminated spoil during removal	47	5804	13:19:38	13:51:50	32	15.0		15.0	480	480	0.0	200	0.01	<0.001	<0.01
538234-2-2	Adjacent potentially contaminated spoil during removal	53	1061	13:22:15	13:54:43	32	15.0		15.0	480	480	0.5	200	0.01	<0.001	<0.01
538234-2-3	Adjacent potentially contaminated spoil during removal	101	902	13:25:12	14:25:32	60	8.0		8.0	480	480	1.0	200	0.01	0.001	<0.01
538234-2-4	Adjacent potentially contaminated spoil during removal	111	903	13:29:17	14:29:36	60	8.0		8.0	480	480	0.5	200	0.01	<0.001	<0.01
538234-2-5	Field Blank	600														

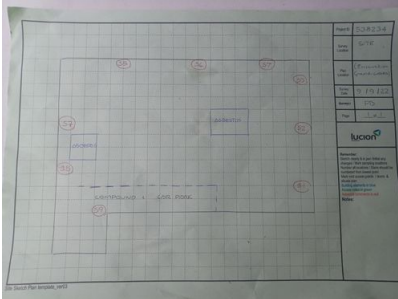
Test: Far Source Air Test (538234-3)

Samples prepared at	NJ69HGN
Samples counted at	NJ69HGN
Stage Warning?	No
Analyst Signature Signature Date	 Thursday, 8th September, 2022 @ 14:25:47
Additional Photo 1	 Image Added: 2022-09-08 13:28:16 position of pump
Additional Photo 2	 Image Added: 2022-09-08 13:28:43 Position of pump

Test: Far Source Air Test (538234-3) - Count Sheet

Lucion Report Number		Test Date		Sampled By		Counted By										
538234-3		Thursday, 8th September, 2022		Luke Walker		Luke Walker										
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)		T Site (C)		T Pcal (hPa)												
293		20		1013												
Microscope & Calculation Detail																
P Site (hPa)	Correction Required	Micro No.		Graticule Dia (µm)		Test Slide Result (Grid No.)	Filter Dia. Exposed (mm)									
998	1			100		5	22.5									
Instrument Detail																
Thermometer, Barometer	Timepiece	Flow (Hi)		Flow (Low)		HSE/NPL	Graticule Slide									
N/A	180	33		34		309	773									
Sample Details																
Sample No.	Sample Location	Head No.	Pump No.	Time On (hh:mm)	Time Off (hh:mm)	Run Time (mins)	Start Flow (lmin-1)	Int Flow (lmin-1)	End Flow (lmin-1)	Calc. Volume (l)	Corr. Volume (l)	Fibres	Fields	Limit of Quantification (Fibres cm ⁻³)	Calc. Conc. (Fibres cm ⁻³)	Report. Conc. (Fibres cm ⁻³)
538234-3-1	Field Blank	5894														
538234-3-2	Adjacent potentially contaminated spoil during excavation	115	729	12:31:15	13:03:18	32	15.0		15.0	480	480	1.5	200	0.01	0.001	<0.01
538234-3-3	Adjacent potentially contaminated spoil during excavation	116	583	12:34:55	13:07:59	33	15.0		15.0	495	495	2.0	200	0.01	0.001	<0.01
538234-3-4	Adjacent potentially contaminated spoil during excavation	117	830	12:41:28	13:16:29	35	15.0		15.0	525	525	0.5	200	0.009	<0.001	<0.01
538234-3-5	Adjacent potentially contaminated spoil during excavation	118	729	12:49:48	13:21:51	32	15.0		15.0	480	480	2.0	200	0.01	0.001	<0.01
538234-3-6	Adjacent potentially contaminated spoil during excavation	5896	583	12:54:47	13:26:48	32	15.0		15.0	480	480	0.5	200	0.01	<0.001	<0.01
538234-3-7	Adjacent potentially contaminated spoil during excavation	5895	830	12:58:07	13:30:10	32	15.0		15.0	480	480	1.0	200	0.01	0.001	<0.01

Test: Far Source Air Test (538234-4)

Number of samples being taken	9
Samples prepared at	Van [NJ69HRE]
Samples counted at	Van [NJ69HRE]
Stage Warning?	No
Analyst Signature Signature Date	 Friday, 9th September, 2022 @ 12:40:51
Analyst Name	Paul Backhouse
Additional Photo 1	 Image Added: 2022-09-09 12:05:18
Additional Photo 2	 Image Added: 2022-09-09 12:21:08

[table continued from previous page...](#)

Additional Photo 3

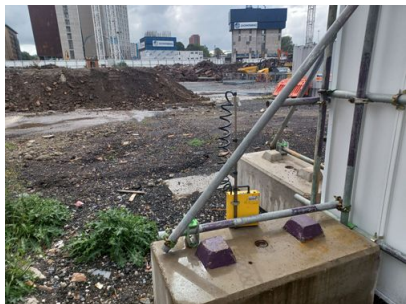


Image Added: 2022-09-09 12:21:08

Test: Far Source Air Test (538234-4) - Count Sheet

Lucion Report Number		Test Date		Sampled By		Counted By										
538234-4		Friday, 9th September, 2022		Paul Backhouse		Paul Backhouse										
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)		T Site (C)		T Pcal (hPa)												
293		17		1013												
Microscope & Calculation Detail																
P Site (hPa)	Correction Required	Micro No.		Graticule Dia (µm)		Test Slide Result (Grid No.)	Filter Dia. Exposed (mm)									
1001	1	1475		100		5	22.5									
Instrument Detail																
Thermometer, Barometer	Timepiece	Flow (Hi)		Flow (Low)		HSE/NPL	Graticule Slide									
N/A	7180	2896		402		3131	1757									
Sample Details																
Sample No.	Sample Location	Head No.	Pump No.	Time On (hh:mm)	Time Off (hh:mm)	Run Time (mins)	Start Flow (lmin-1)	Int Flow (lmin-1)	End Flow (lmin-1)	Calc. Volume (l)	Corr. Volume (l)	Fibres	Fields	Limit of Quantification (Fibres cm ⁻³)	Calc. Conc. (Fibres cm ⁻³)	Report. Conc. (Fibres cm ⁻³)
538234-4-1	Far source air test adjacent north west corner of perimeter fence	8221	828	08:41:50	09:19:50	38	15.0		15.0	570	570	2.5	200	0.008	0.001	<0.01
538234-4-2	Far source air test adjacent west perimeter fence	8222	861	08:44:57	09:22:57	38	15.0		15.0	570	570	2.0	200	0.008	0.001	<0.01
538234-4-3	Far source air test adjacent south west corner of perimeter fence	1901	869	08:45:24	09:23:24	38	15.0		15.0	570	570	2.5	200	0.008	0.001	<0.01
538234-4-4	Field Blank	5285														
538234-4-5	Far source air test adjacent south perimeter fence	8221	828	10:14:06	10:52:06	38	15.0		15.0	570	570	2.0	200	0.008	0.001	<0.01
538234-4-6	Far source air test adjacent south perimeter fence	1901	869	10:16:25	10:56:25	40	15.0		15.0	600	600	4.5	200	0.008	0.002	<0.01
538234-4-7	Far source air test adjacent south perimeter fence	8222	861	10:17:36	10:57:36	40	15.0		15.0	600	600	2.5	200	0.008	0.001	<0.01
538234-4-8	Far source air test adjacent east perimeter fence	8222	828	11:43:53	12:18:53	35	15.0		15.0	525	525	2.0	200	0.009	0.001	<0.01

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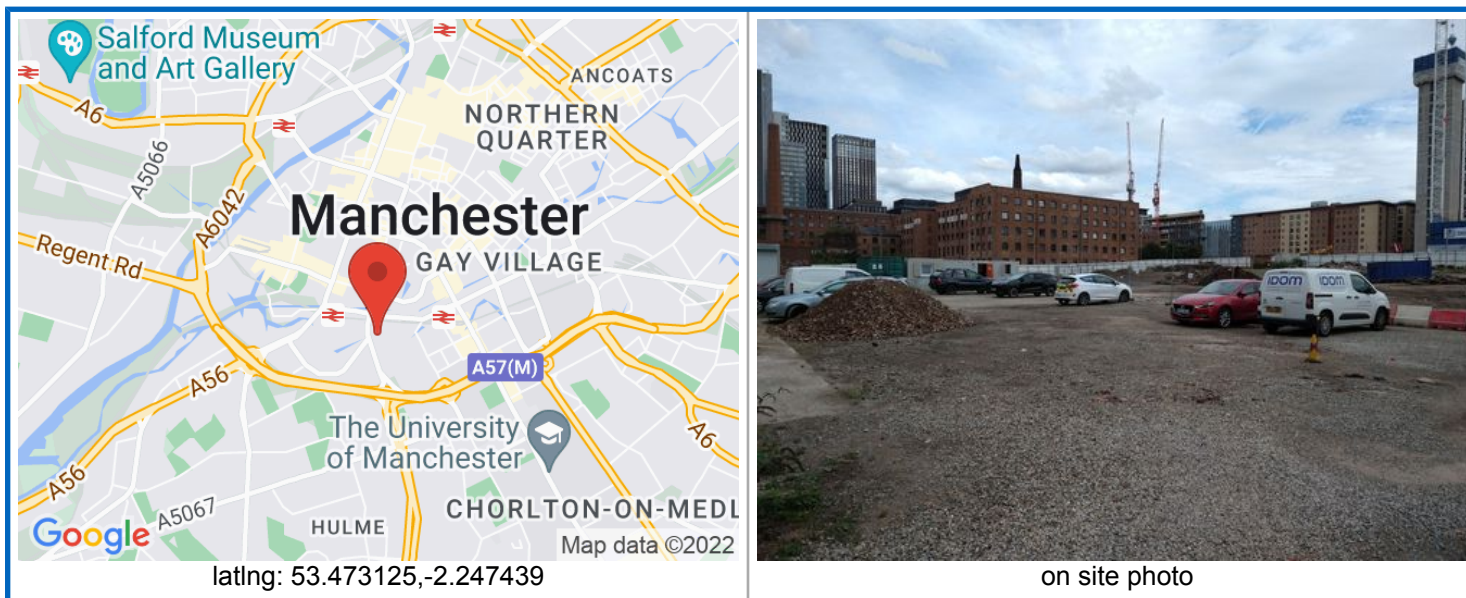
Sample Details																
538234-4-9	Far source air test adjacent east perimeter fence	8221	861	11:45:16	12:19:16	34	15.0		15.0	510	510	2.0	200	0.009	0.001	<0.01
538234-4-10	Far source air test adjacent north east perimeter fence	1901	869	11:46:13	12:20:13	34	15.0		15.0	510	510	4.0	200	0.009	0.002	<0.01

Asbestos Analyst's Job Summary Report

Job Ref No: **538234**, Account Ref No: **25660**, Contract Ref No: **85664**

First Street, Manchester City Centre, M15 4AA

Title: Asbestos Fibre Air Monitoring at First Street, Central Manchester



First Visit to Site: Monday, 5th September, 2022, **Last Visit to Site:** Friday, 9th September, 2022

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Intro

This document is a summary of findings relating to asbestos analytical works at **First Street, Manchester City Centre, M15 4AA** from **Monday, 5th September, 2022 to Friday, 9th September, 2022**. It is intended to give an overview of testing and must be read only in conjunction with the certificates it references. The document should never be read in isolation as asbestos analysts reports often contain additional notes and advice that should be referred to.

A report is provided electronically via the NexGen web-portal. Rendering of the report will create a unique pdf version identified in the footer of the document where date and time of rendering is recorded. Document history can be reviewed via the 'View File History' when viewing the report online. Prior to commencing any works or review of the report, the most current version should be obtained via the link to the NexGen web-portal; any local pdf copies should not be relied on as containing the most current information.

As per the client's specification, materials previously identified as containing asbestos (by other asbestos consultancies) have had this positive identification transferred to this report. Lucion Services Ltd cannot accept any liability for errors in this information.

Furthermore, this document contains a summary of analyst notes and comments made in relation to works at this site.

Please note this document may contain findings from more than one analyst on more than one date.

Key to Air-Test Icons

To aid ease of reading the following icons have been used in this document to reference commonly undertaken activities.

-  Clearance Stage 1
-  Clearance Stage 2
-  Clearance Stage 3
-  Clearance Stage 4
-  Statement of Cleanliness Inspection
-  DCU Stage 2
-  DCU Stage 3
-  Far Source Air Test
-  Near Source Air Test
-  Reassurance
-  Background
-  Leak Testing
-  Personal
-  Smoke Test Witness
-  Report Acknowledgement

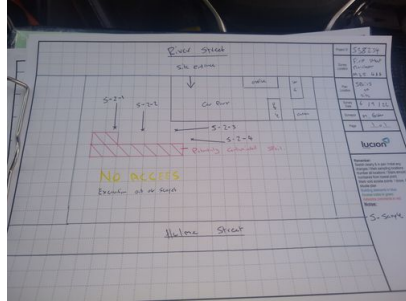
A **WARNING** is used by the analyst to draw the readers attention to a particular area of the report.

Overview of Works

To view a complete air-certificate, follow the relevant link

 Certificate: Throughout the site during excavation works.			Building: First Street Plot 9a		Level: 0		Passed 	
View the Full Certificate Here: https://web.lucion.co.uk/print/air_cert/89608?s=dd50837a45dd42111cf5418da4a403f2								
Type	Test-ID	Start Time	End Time	Date	Operative	# Samples		
 Near Source Air Test	538234-1			05-09-2022	 Oliver Dille	9		
 Far Source Air Test	538234-2			06-09-2022	 Matt Foster	5		
 Far Source Air Test	538234-3			08-09-2022	 Luke Walker	7		
 Far Source Air Test	538234-4			09-09-2022	 Paul Backhouse	10		

Job Notes

Operative	Note	Date
 Matt Foster Analyst	Sample location diagram for 6/9/22 	Tuesday, 6th September, 2022
 Matt Foster Analyst	Lucion analyst arrived on site and signed in. Site induction carried out by IDOM manager Andrew Harris. Confirmed contaminated spoils have been removed and air tested in previous works. Works today are for the perimeter air testing for the removal of potentially contaminated spoil. Andrew advised on where to place air monitors due to large excavation plant in other areas restricting access. Air tests was placed around perimeter where possible of the the removal works. All air test results returned satisfactory below the quantification limit. Analyst updated Andrew of results, signed out of site and left.	Tuesday, 6th September, 2022
 Paul Backhouse Senior Surveyor/Analyst	on site, 07:45, inducted, talked thru status of job. x9 perimeter (far source) air monitoring undertaken. all air test <0.01 fibres per ml of air. Andy from IDOM on site, and had a meet and greet	Friday, 9th September, 2022

Attachments

The following documents accompany this report and should be regarded as an integral part of this report.

They can be downloaded from <https://web.lucion.co.uk/reports/538234/attachments>.

- [Method Statement \[https://web.lucion.co.uk/print/method_statements/538234?s=5fe130d1b157aad8ebff04313395e155 \]](https://web.lucion.co.uk/print/method_statements/538234?s=5fe130d1b157aad8ebff04313395e155)
- [Risk Assessment \[https://web.lucion.co.uk/print/risk_assessment/538234?s=6012c94a7940117e3c8bfd7e8c60465b \]](https://web.lucion.co.uk/print/risk_assessment/538234?s=6012c94a7940117e3c8bfd7e8c60465b)

APPENDIX 6 ▪ Asbestos Watching Brief Site Diaries and photographs



Plate 1: Friday 25th August 2022. Asbestos hotspot 1 – image of the base.



Plate 2: Friday 25th August 2022. Asbestos hotspot 1 – image of the eastern side.



Plate 3: Friday 25th August 2022. Asbestos hotspot 1 – image of the northern side.



Plate 4: Friday 25th August 2022. Asbestos hotspot 1 – image of the southern side.



Plate 5: Friday 25th August 2022. Asbestos hotspot 1 – image of the western side.



Plate 6: Friday 25th August 2022. Asbestos hotspot 1 – overview of the excavation.



Plate 7: Friday 25th August 2022. Asbestos hotspot 2 – overview of excavation.



Plate 8: Friday 25th August 2022. Asbestos hotspot 2 – image of the eastern side.



Plate 9: Friday 25th August 2022. Asbestos hotspot 2 – image of the northern side.



Plate 10: Friday 25th August 2022. Asbestos hotspot 2 – image of the southern side.



Plate 11: Friday 25th August 2022. Asbestos hotspot 2 – image of the western side.



Plate 12: Friday 25th August 2022. Asbestos hotspot 3 – image of the base of the excavation.



Plate 13: Friday 25th August 2022. Asbestos hotspot 3 – image of the eastern side.



Plate 14: Friday 25th August 2022. Asbestos hotspot 3 – image of the northern side.



Plate 15: Friday 25th August 2022. Asbestos hotspot 3 – image of the southern side.



Plate 16: Friday 25th August 2022. Asbestos hotspot 3 – overview of the excavation.



Plate 17: Friday 25th August 2022. Asbestos hotspot 3 – image of visible contamination.



Plate 18: Friday 25th August 2022. Asbestos hotspot 4 – image of the base of the excavation.



Plate 19: Friday 25th August 2022. Asbestos hotspot 4 – image of the eastern side.



Plate 20: Friday 25th August 2022. Asbestos hotspot 4 – image of the northern side.



Plate 21: Friday 25th August 2022. Asbestos hotspot 4 – image of the western side.



Plate 22: Friday 25th August 2022. Asbestos hotspot 4 – overview of the excavation.



Plate 23: Friday 25th August 2022. Asbestos fragments found in made ground excavations.



Plate 24: Friday 25th August 2022. Excavations into made ground.



Plate 25: Friday 25th August 2022. Excavations into made ground.



Plate 27: Monday 5th September 2022. Excavation of made ground.



Plate 28: Monday 5th September 2022. Demolition and excavation debris on site.

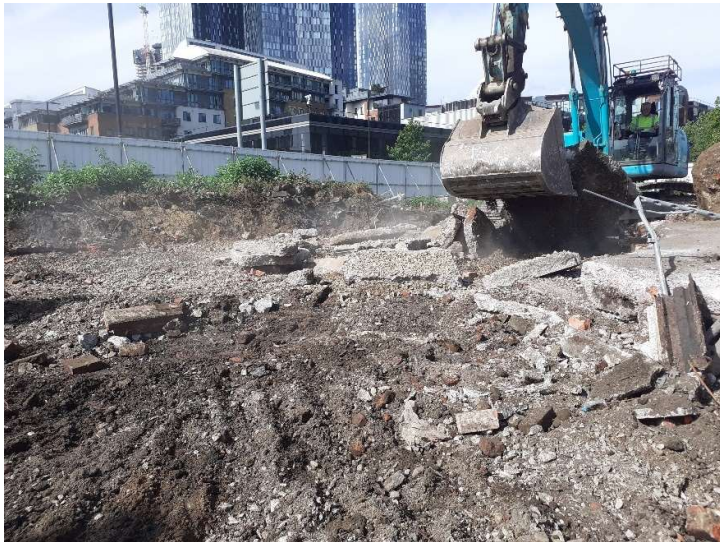


Plate 29: Monday 5th September 2022. Excavation and breaking out of concrete on site.



Plate 30: Monday 5th September 2022. Stockpiled debris produced from excavations.



Plate 31: Monday 5th September 2022. Stockpiled excavated hardstanding.



Plate 32: Monday 5th September 2022. Concrete which was broken out on site.



Plate 33: Monday 5th September 2022. Asbestos cement fragment from site excavations.



Plate 34: Monday 5th September 2022. Asbestos lagging on pipe found on site during excavations.



Plate 35: Tuesday 6th September 2022. Made ground in asbestos exclusion zone being hand-picked for asbestos with air monitoring location in background.



Plate 36: Tuesday 6th September 2022. Air monitoring location near excavations.



Plate 37: Tuesday 6th September 2022. Made ground stockpiles.



Plate 38: Tuesday 6th September 2022. Made ground excavations.

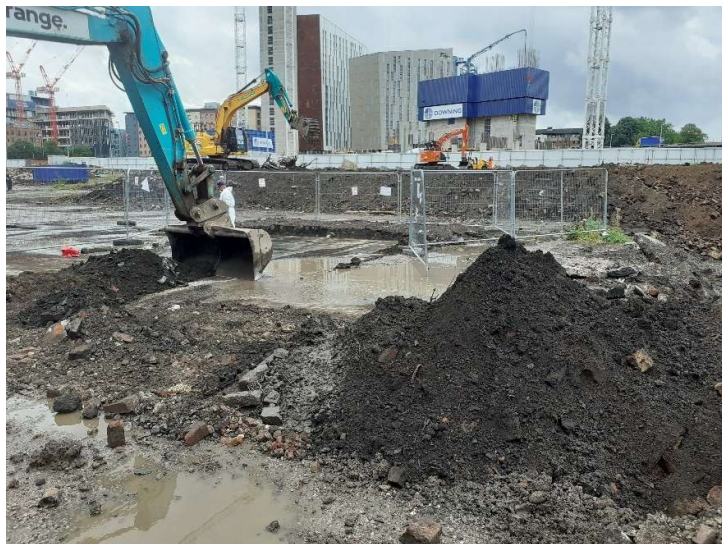


Plate 39: Tuesday 6th September 2022. Excavation of made ground near asbestos exclusion zone.



Plate 40: Tuesday 6th September 2022. Stockpiled made ground.



Plate 41: Tuesday 6th September 2022. Excavated made ground.