



Daneshill and Maw Green STF Permit Appeals

Provectus STF Factual Monitoring Data

For FCC Recycling (UK) Ltd and 3C Waste
Ltd

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1. Introduction

This factual report has been compiled by Hydrock Consultants Ltd (Hydrock) to support Appeals APP/EPR/636 and APP/EPR/651 for the Daneshill Soil Treatment Facility at FCC Recycling (UK) Ltd.'s Daneshill Landfill Site, and Appeal APP/EPR/652 for the Maw Green Soil Treatment Facility at 3C Waste Ltd.'s Maw Green Landfill Site.

The Daneshill STF is currently subject to Environmental Permit (reference EPR/NP3538MF/V010) issued by the Environment Agency on 29 September 2023, and the Maw Green STF is currently subject to Environmental Permit (reference EPR/BS7722ID/V010) issued by the Environment Agency on 05 October 2023.

This is a factual report detailing the monitoring of soil, air and water undertaken at two of Provectus Soil Management Ltd.'s soil treatment facilities, namely:

- » The Edwin Richards Quarry Soil Treatment Facility (ERQ STF) located at Waste Recycling Group (Central) Limited.'s Edwin Richards Quarry landfill site, Rowley Regis, Birmingham
- » The Maw Green STF located at 3C Waste Ltd.'s Maw Green landfill site, Crewe.

The monitoring data has been acquired by Provectus during the course of the operation of the STFs either in response to the monitoring requirements set out in the environmental and operational permits for the STFs, or as part of Provectus and/or FCC operational requirements.

The data relates specifically to the operation of the asbestos soil treatment aspect of the STFs, and does not directly relate to the operation of the wider landfills or the soil treatment of hydrocarbon contaminated soil at the STFs.

The air monitoring data described in Section 2.2 has been provided to the Environment Agency as part of the reporting required by the permit for ERQ (EPR/HP3632RP/V004). The air monitoring data described in Section 3.2 for Maw Green was not required to be submitted to the Environment Agency under the permit for the operations, however, the data has been discussed with Environment Agency officers during site inspections. The remaining soil and water data has not been previously been formally provided to the Environment Agency.

The compilation of this report has been undertaken in accordance with instructions received on 21 December 2023.

2. ERQ Monitoring Data

2.1 Available data

The data for ERQ, in summary, is:

- » Summary table of activity-based monitoring results for monitoring at the ERQ Soil Treatment Facility carried out between 08 May 2018 and 29 September 2023.
- » Pre-treatment soil reception testing analytical certificates issued by Eurofins for sampling undertaken by Provectus at ERQ STF between 02 August 2019 and 12 October 2022.
- » Post-treatment soil validation testing at ERQ STF, and accompanying Provectus soil validation reports for the period from 24 September 2019 to 22 March 2023
- » Laboratory certificates issued by Chemtest and Eurofins Chemtest for the analysis of asbestos fibres in water samples taken from the surface water treatment plant at ERQ STF from 27 August 2021 to 23 May 2022 and from 08 September 2023 to 04 October 2023

Copies of relevant sampling protocols and work instructions are provided in Appendix O.



Figure 2.1: Google Earth image of STF and asbestos soil treatment area for context

2.2 Activity-based sampling (air)

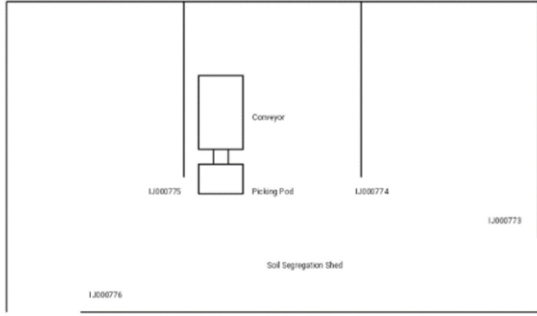
Air monitoring of the operational STF activities has been carried out at ERQ (typically daily) between 08 May 2018 and 05 December 2019, and between 05 February 2020 and 29 September 2023. The 2018-2019 monitoring was carried out by Envirochem (08 May – 19 July 2018) and Riverside (23 July 2018 onwards). The 2020-2023 monitoring was undertaken by Riverside (05 February 2020 – 12 July 2021) and Thames Laboratories (09 February – 30 June 2023), with Provectus undertaking the monitoring themselves between 13 July 2021 and 09 February 2023. Monitoring samples up until 06 September 2021 were analysed using PCOM. From 06 September 2021 onwards the monitoring samples have been analysed using scanning electron microscopy (SEM) to a lower limit of quantification (0.0005f/ml).

The most recent air monitoring data for ERQ is predominantly limited to the emissions relating to the delivery of soil for subsequent hand picking inside the building on site. However, the asbestos emissions to air from a soil screener inside the building is reported from a period when a mobile treatment licence was deployed between 22 June 2022 and 21 September 2022.

The individual monitoring locations are indicated in the sample location diagrams provided on the monitoring certificates issued by Envirochem/Riverside/Thames.

Table 2.1: Summary details of air monitoring at ERQ

Monitoring Parameter	Value/Details	
	PCOM analysis	SEM analysis
Pump sampling rate	Varies from 2-16 litres per minute	16 litres per minute
Sample duration	Typically circa 1 hour (varies from 40-254 minutes)	90 minutes

Number of sampling points	Typically 4 (varies from 3-10)	1
Sample volume achieved	480 litres for Riverside 480-752 litres for Thames	1440 litres
Weather conditions at time of sampling	Not reported	Not reported
Analytical method	PCOM – carried out by Envirochem/Riverside	SEM – carried out by Institute of Occupational Medicine (IOM)
Limit of quantification achieved	Typically 0.01f/ml (varies from 0.0005-0.04f/ml)	0.0005f/ml
Reported concentrations	<LOQ	Typically <0.0005f/ml (maximum of 6.5 fibres equating to a concentration of 0.001f/ml)
Example site plan	<p style="text-align: center;">Works/Sample Location Diagram</p> 	
Additional comments	<p>The four air monitoring/sampling locations are variously located within the 'asbestos shed' and the outside 'storage pad' depending on the activities taking place on the day of monitoring. Activity descriptions can be split between 'original operation of the screener and picking station', 'no external pad activity and with screener covered and fitted with a HEPA filter', 'no external pad activity and screener uncovered', 'perimeter of storage pad', 'asbestos shed with no processing activity', and 'no external pad activity and screening stopped'.</p>	

Although PCOM monitoring data has been acquired this report focuses on the SEM data. As noted above the PCOM reported concentrations are <0.01 f/ml. The SEM dataset from Provectus/Thames/IOM monitoring and analysis for ERQ is tabulated in Appendix A and can be presented as follows:

Table 2.2: Summary details of SEM air monitoring results for ERQ

Parameter	Value
Total number of air samples	809
Number of samples with zero fibres reported	616
Number of samples with countable fibres present	193

Percent of samples with countable fibres	24%
95 th percentile fibre count	2
99 th percentile fibre count	4
Maximum fibre count	6.5
Maximum concentration (total)	0.001f/ml
Maximum concentration (amosite)	0.0007f/ml
Maximum concentration (chrysotile)	0.0009f/ml
Percent of samples with concentration >LOQ	3%

Table 2.3: Summary details of air monitoring results split between phases of operation

Parameter	Screener in operation and uncovered	Screener in operation and covered + HEPA filter	No screening operation
Total number of air samples	88	128	593
Number of samples with zero fibres reported	49	95	472
Number of samples with countable fibres present	39	33	121
Percent of samples with countable fibres	44	26	20
95 th percentile fibre count	3	2	2
99 th percentile fibre count	5.5	3	4
Maximum fibre count	5.5	4	6.5
Maximum concentration (all asbestos)	0.0009 f/ml	0.0007 f/ml	0.001 f/ml
Maximum concentration (chrysotile)	0.0009 f/ml	0.0007 f/ml	0.0007 f/ml
Maximum concentration (amosite)	0.0005 f/ml	< 0.0005 f/ml	0.0007 f/ml
Percent of sample concentrations >LOQ	6%	1%	4%

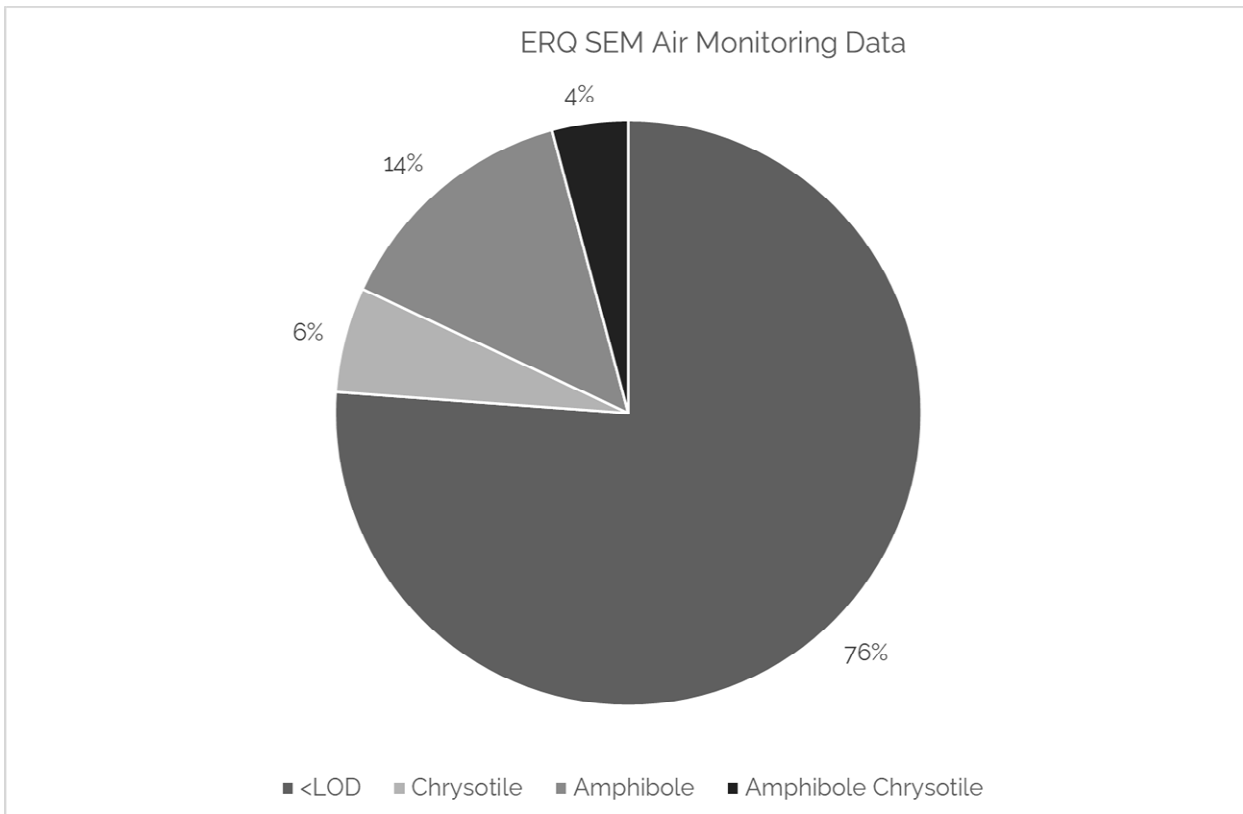


Figure 2.2: Percentage detection of asbestos types in ERQ SEM air monitoring results

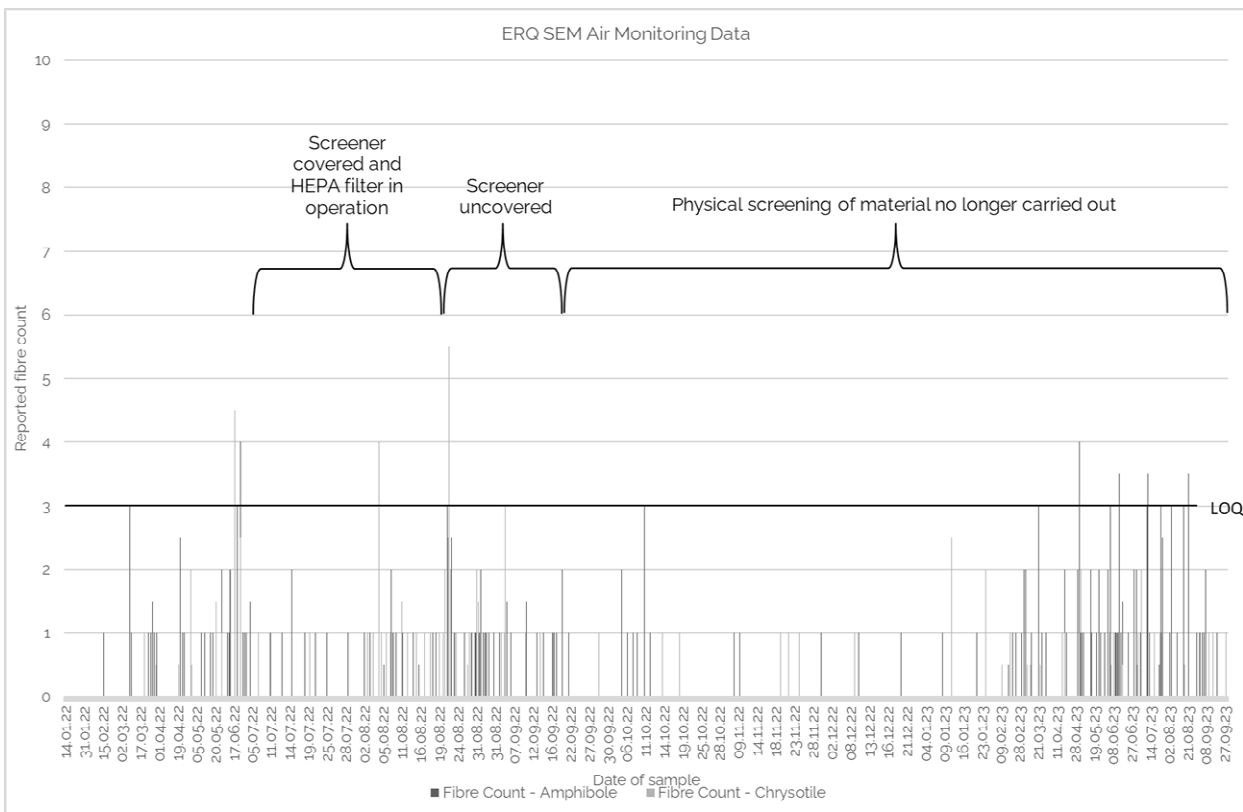


Figure 2.3: SEM fibre count results for ERQ air monitoring

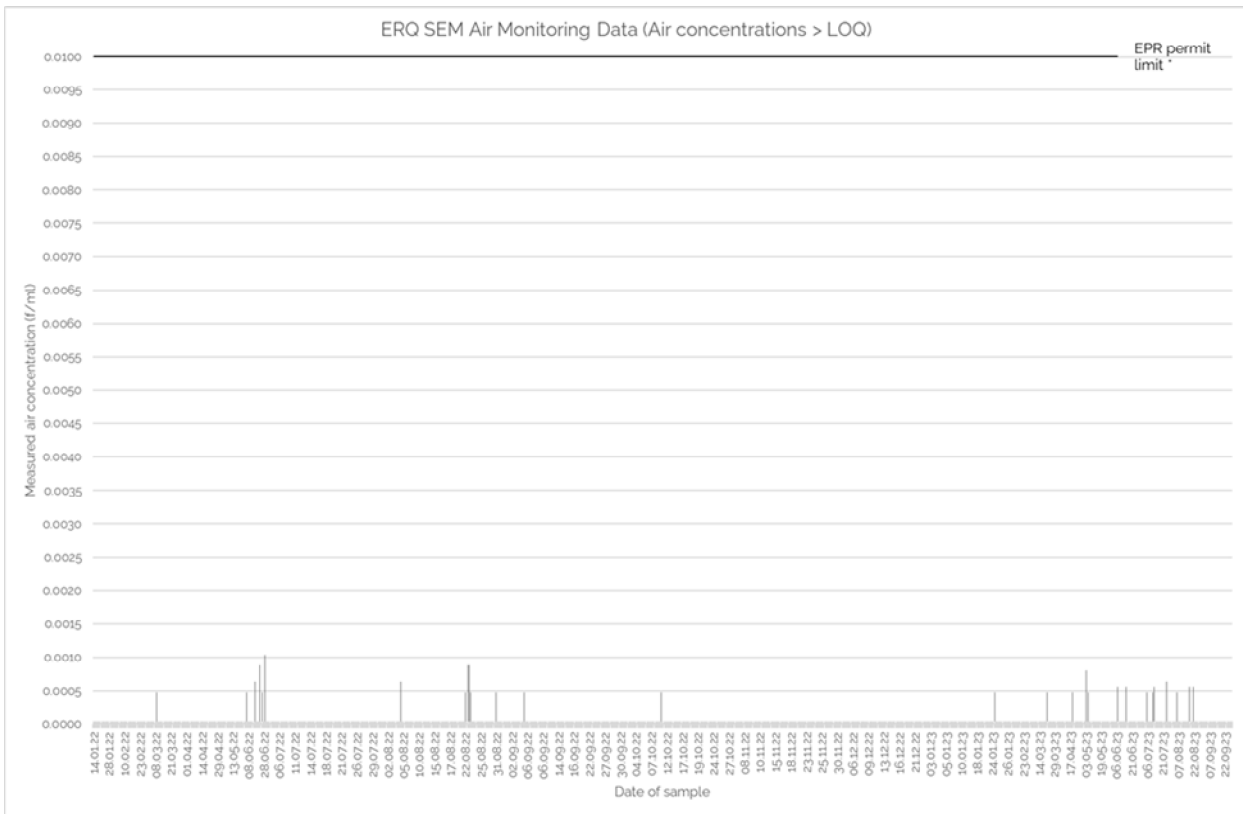


Figure 2.4: SEM asbestos fibre air concentrations for ERQ air monitoring

* Note the EPR permit limit illustrated in Figure 2.4 is defined as a PCOM concentration, whereas the measured concentrations are SEM measurements. Correcting for the unit difference would result in either a reduction in the illustrated measured concentrations or an increase in the illustrated permit limit.

Example locations for the air monitoring at ERQ are shown in the photographs below taken on 20 June 2023.



Figure 2.5: Example locations for SEM air monitoring at ERQ

2.3 Pre-processed acceptance soil test data

Sample analysis laboratory certificates issued by Chemtest/Eurofins Chemtest for samples of pre-processed soils span the period of 02 August 2019 to 12 October 2022.

This data comprises asbestos gravimetric analysis test data for pre-processed soil from approximately 440 different sites of origin sampled over the period 02 August 2019 to 12 October 2022. The summarised data includes the results from all samples submitted for acceptance for treatment during this period. The sampling frequency utilised by Provectus for this sampling is as follows:

Table 2.4: Provectus sampling frequencies

Volume of soil (t)	No. of samples needed (before or during acceptance at STF)
< 100	1
100 - 500	2
500 +	2 + 1 for every 500t

The raw data is tabulated in Appendix B and the dataset can be described and presented as follows:

Table 2.5: Summary details of pre-processed acceptance soil test results for ERQ

Parameter	Value
Total number of soil samples	768
Number of samples with no asbestos detected	589
Number of samples with detectable asbestos present	179
Number of samples with asbestos concentration > LOQ	134
Median concentration	<0.001%wt/wt (<LOQ)
Upper quartile	<0.001%wt/wt (<LOQ)
90 th percentile concentration	0.003%wt/wt
95 th percentile concentration	0.009%wt/wt
Maximum concentration	4.7% (asbestos cement fragment)



Figure 2.6: Percentage detection of asbestos types in ERQ pre-processed soil sample results

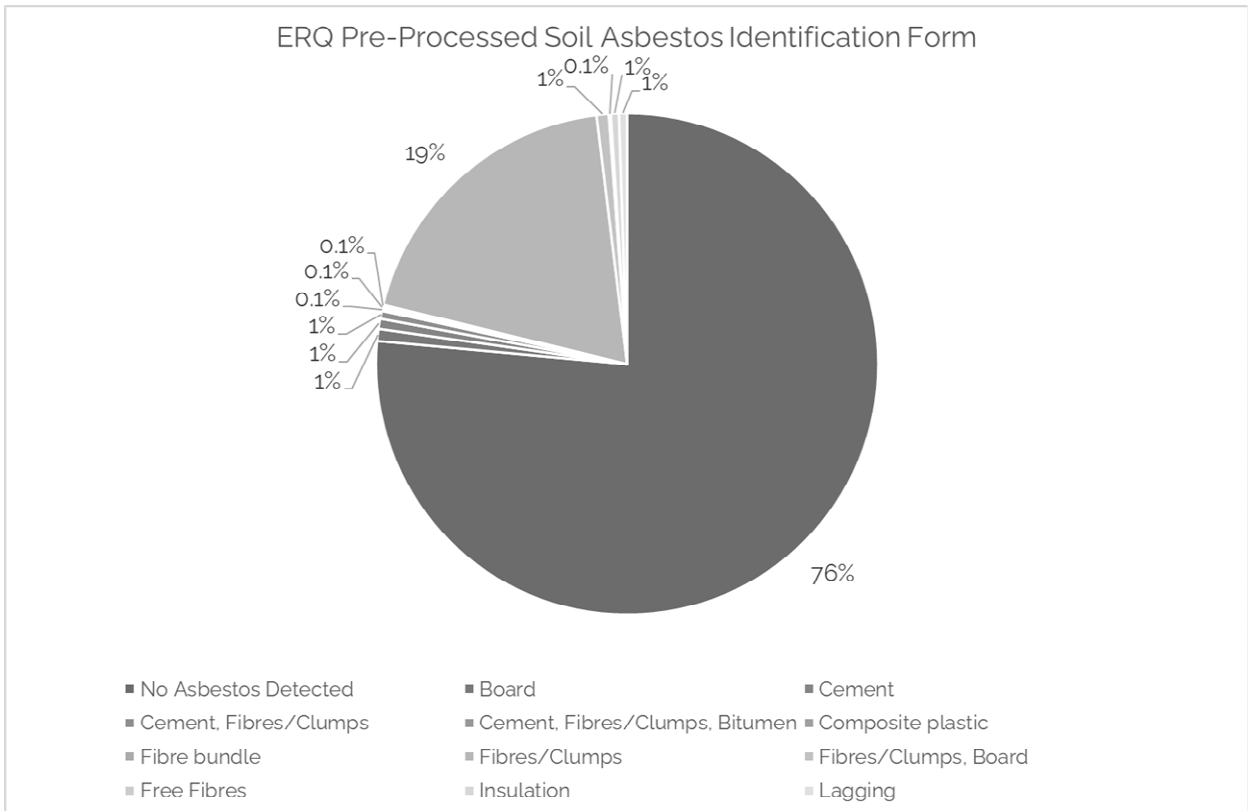


Figure 2.7: Percentage detection of asbestos forms in ERQ pre-processed soil sample results

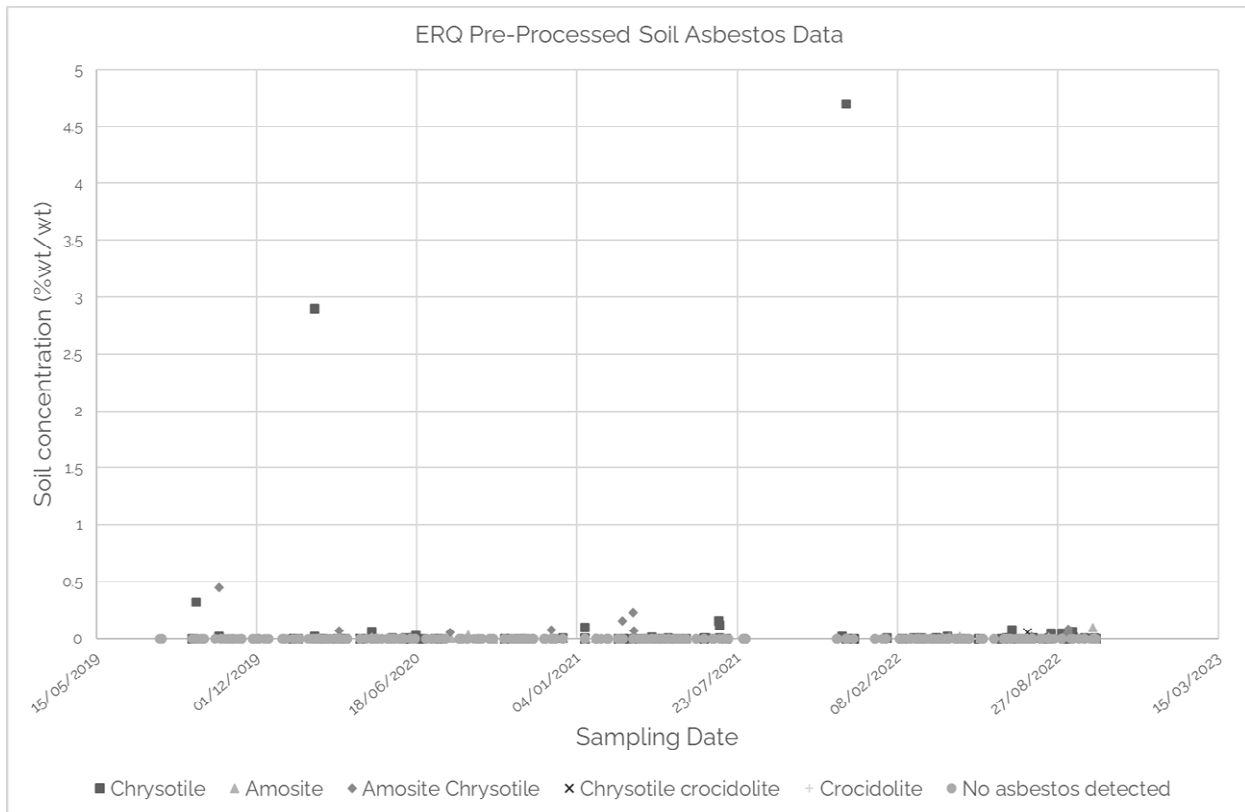


Figure 2.8: Pre-processed soil asbestos concentrations for ERQ

Table 2.6: Summary details of pre-processed soil moisture results for ERQ

Parameter	Value
Total number of soil samples	769
Minimum	0.62%
Maximum	52%
5th percentile	6.1%
Lower quartile	10%

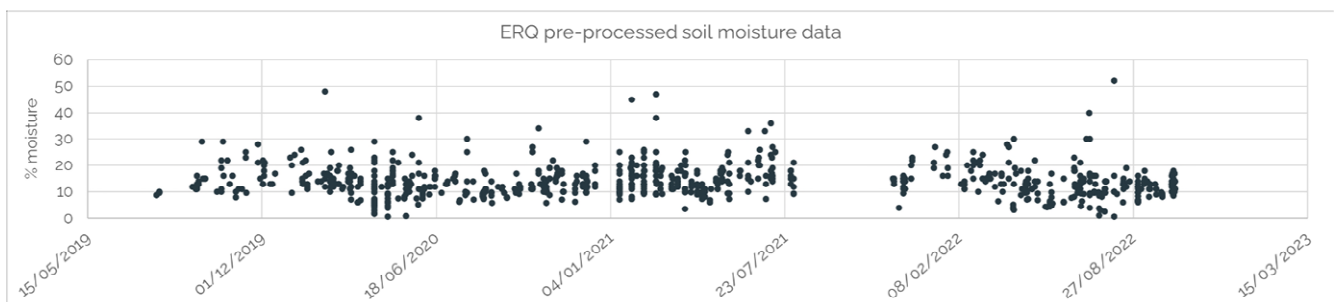


Figure 2.9: Pre-processed soil moisture results for ERQ

2.4 Post-processed soil validation data

This data comprises asbestos gravimetric analysis test data for post-processed soil data from approximately 270 different sites of origin sampled over the period 24 September 2019 – 22 March 2023. The raw data is tabulated in Appendix C and the dataset can be presented as follows:

Table 2.7: Summary of post-processed soil sites of origin and processed amounts for ERQ

Number of Input Material Projects (i.e. sites of origin)	Total Material Validated (t)	Average Batch Size (t)
270 (received tonnage from sites varies considerably)	83494.59	5566.306

Table 2.8: Summary details of post-processed validation soil test results for ERQ

Parameter	Value
Total number of soil samples	278
Number of samples with no asbestos detected	207
Number of samples with detectable asbestos present	71
Number of samples with asbestos concentration > LOQ	38
Median concentration	<LOQ
90th percentile concentration	0.002%wt/wt
95th percentile concentration	0.03%wt/wt
Maximum concentration	0.09%wt/wt

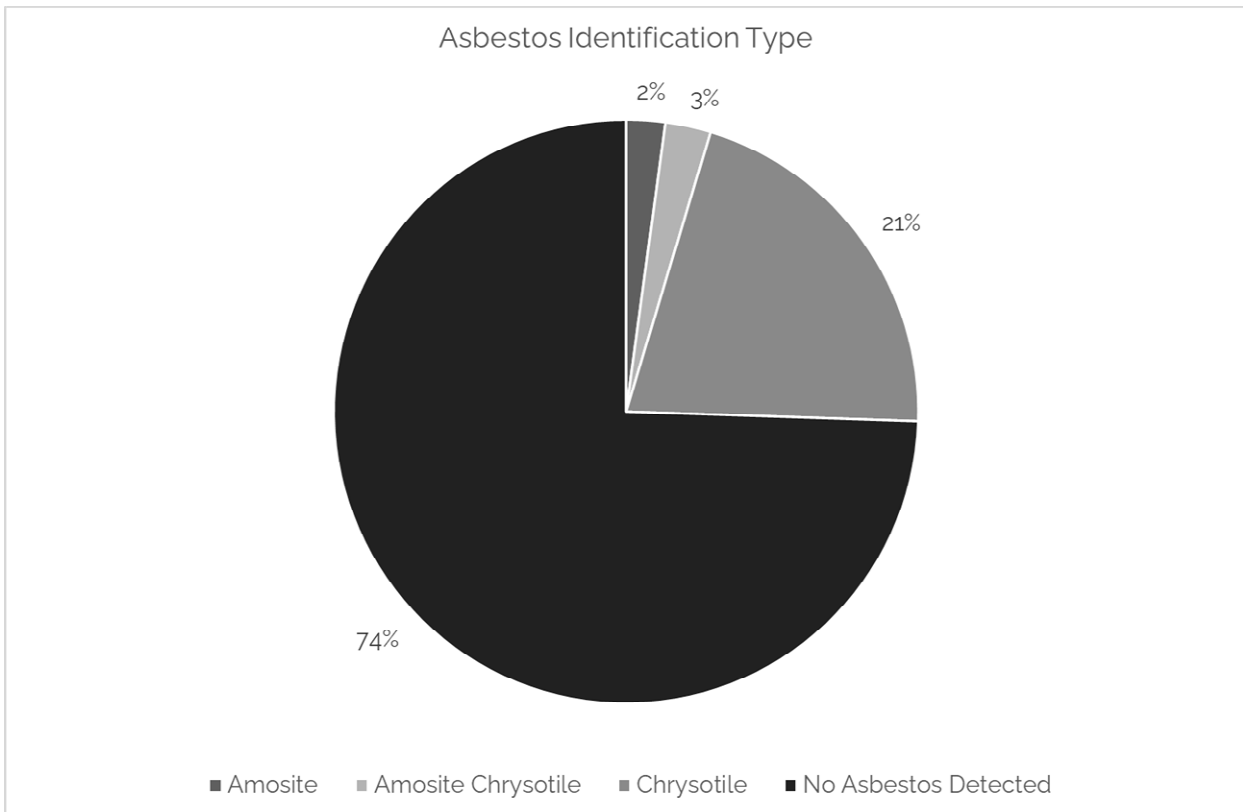


Figure 2.10: Percentage detection of asbestos types in ERQ post-processed soil sample results

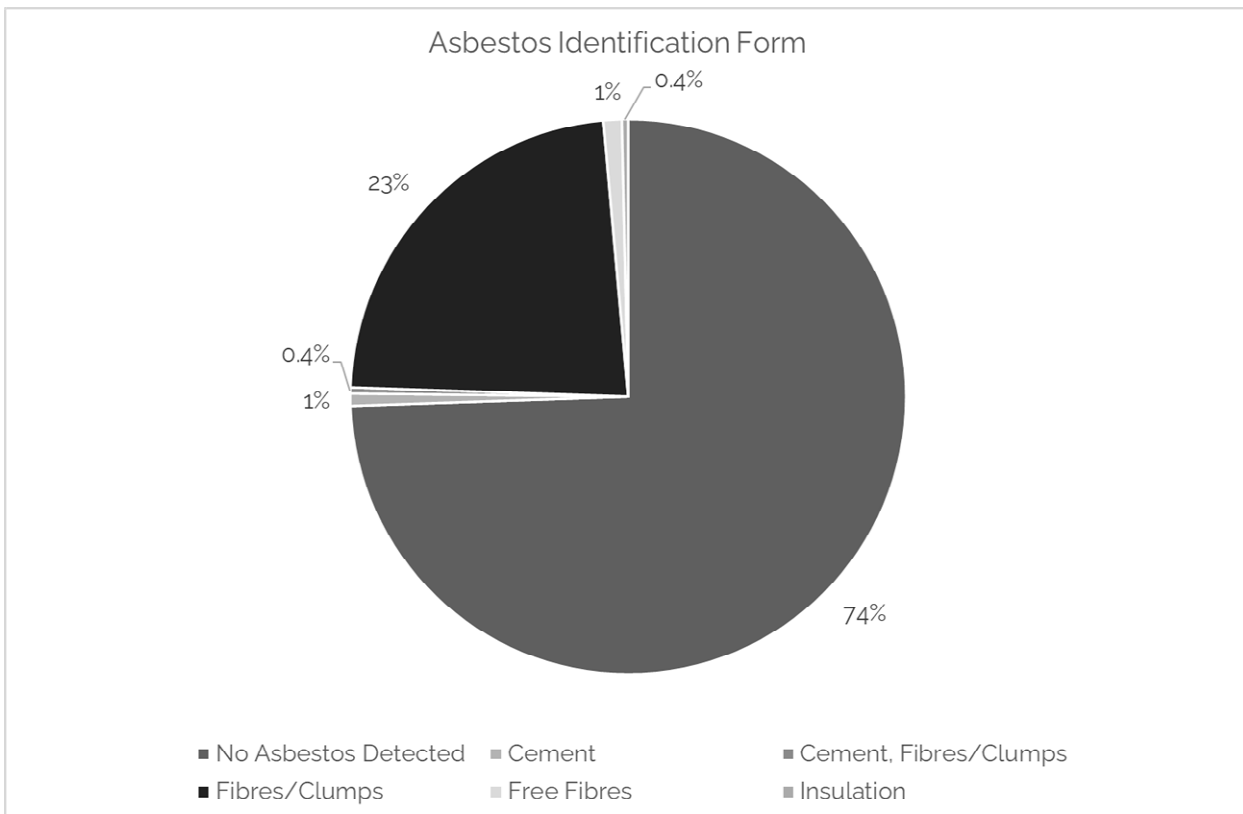


Figure 2.11: Percentage detection of asbestos forms in ERQ post-processed soil sample results

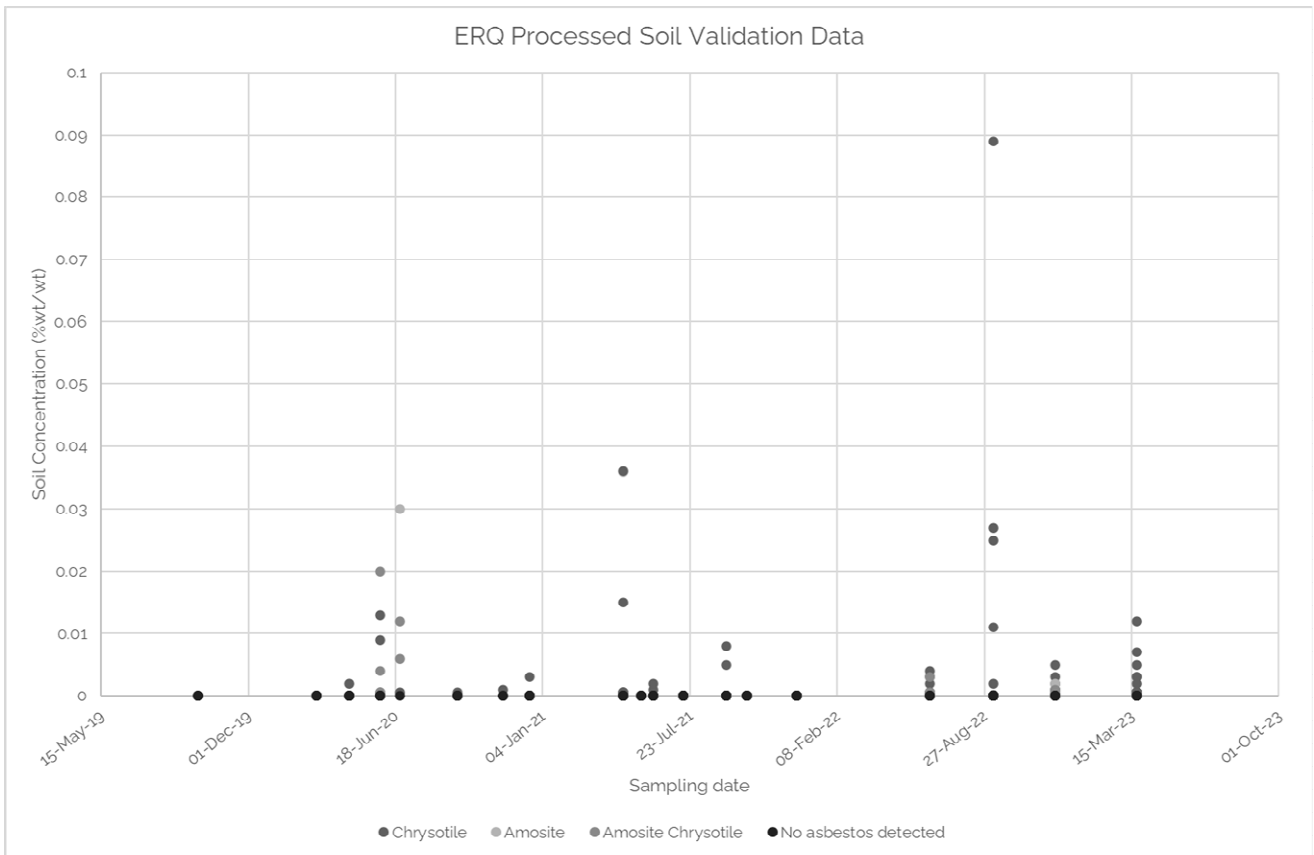


Figure 2.12: Post-processed soil asbestos concentrations for ERQ

Table 2.9: Summary details of post-processed soil moisture results for ERQ

Parameter	Value
Total number of soil samples	253
Minimum	2%
Maximum	32%
5th percentile	5%
Lower quartile	9%

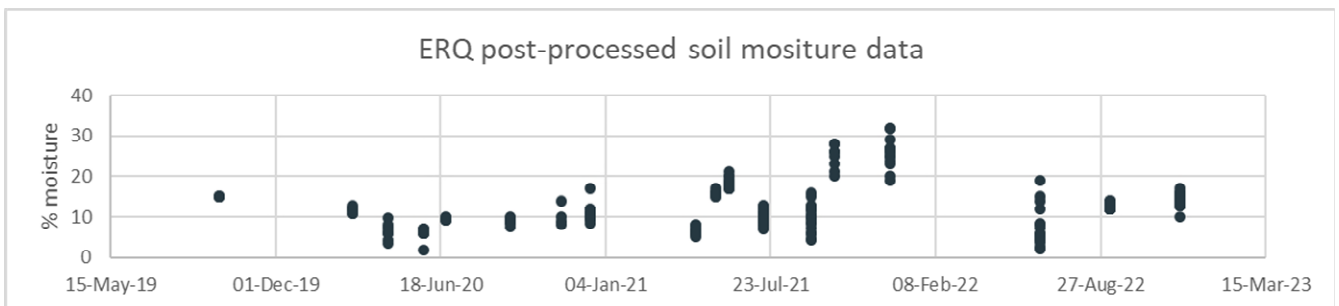


Figure 2.13: Post-processed soil moisture results for ERQ

2.5 Surface water treatment plant effluent sampling

Water samples have been taken from the surface water treatment plant over the periods 27 August 2021 to 23 May 2022 and from 08 September 2023 to 04 October 2023. All results are reported as “not detected” (i.e. no asbestos fibre has been detected on the filter from the submitted water sample). Laboratory certificates are provided in Appendix D.

3. Maw Green Monitoring Data

The Maw Green STF was operated using a soil screener and partially enclosed picking station. This was operated on a concrete pad rather than inside a building. All monitoring results are provided when the soil screener was in operation for a 13-month period. This was in operation under a mobile treatment licence from 15 August 2022 and then from 20 July 2023 under an installation permit ref: EPR/BS7722ID/VO09. The site ceased operations on 06 October when a new permit variation (VO10) was issued to FCC Environment Ltd.

3.1 Available data

The data for Maw Green, in summary, is:

- » Summary table of air monitoring results for monitoring at the STF carried out between 15 August 2022 and 15 September 2023
- » Pre-treatment soil reception testing analytical certificates for the STF issued by Eurofins for sampling undertaken by Provectus between 17 August 2022 and 06 October 2023
- » Post-treatment soil validation testing for the STF, and accompanying Provectus soil validation reports for the period 15 August 2022 to 19 October 2023
- » Automated ambient dust monitoring data from the STF carried out between 12 July and 06 September 2023
- » Laboratory certificates issued by Eurofins for the analysis of asbestos fibres in water samples taken from the surface water treatment plant at the STF from 07 September 2023 to 21 September 2023
- » Hand-held dust monitoring carried out between 04-07 September 2023
- » Supplementary activity-based air monitoring results for monitoring at the STF carried out between 04-07 September 2023
- » Supplementary soil testing undertaken at the STF between 14 August 2023 and 07 September 2023.

Copies of relevant sampling protocols and work instructions are provided in Appendix O.



Figure 3.1: Google Earth image of STF and asbestos soil treatment area for context

3.2 Activity-based sampling (air)

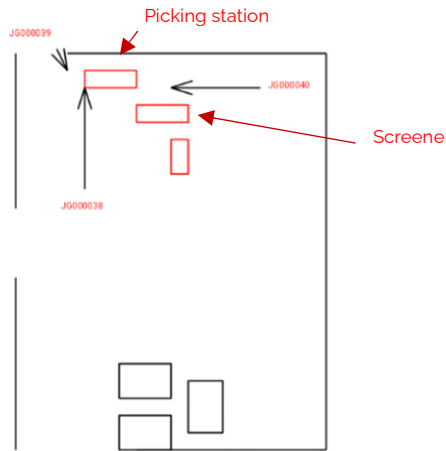
Air monitoring of the operational STF activities has been carried out at Maw Green (typically daily) between 15 August 2022 and 15 September 2023. The monitoring has either been carried out by Provectus, or on behalf of Provectus by Thames Laboratories,

Sample filters have been analysed by IOM using SEM to achieve a LOD of 0.0005f/ml throughout this period with the exception of 09 November 2022 to 18 November 2022. In addition, separate sample filters have been analysed by Thames by PCOM during the periods 09 November 2022 to 18 November 2022, and 09 February 2023 to 15 September 2023. Between 07 September 2022 and 27 January 2023 sampling was undertaken at three locations within the STF. From 03 April 2023 onwards the monitoring is limited to one location next to the screener.

The individual monitoring locations are indicated in the sample location diagrams provided on the monitoring certificates issued by Thames.

Table 3.1: Summary details of air monitoring at Maw Green

Monitoring Parameter	Value/Details	
	PCOM analysis	SEM analysis
Pump sampling rate	Pump use varies from 1 to 2 (with the latter samples are pooled) 2-16 litres per minute	Pump use varies from 1 to 2 (with the latter samples are pooled) 12-16 litres per minute
Sample duration	Typically 60 minutes (at 8 litres per minute)	2 hours for sampling undertaken by Provectus (at 12 litres per minute). 90 minutes for sampling undertaken by Thames (at 16 litres per minute)

Number of sampling points	3	3 (up until 03 April 2023)
Sample volume achieved	1440 litres for the period 09 November 2022 to 18 November 2022 480-992 litres for the period 09 February 2023 to 15 September 2023	Typically 1440 litres (maximum 1856 litres)
Weather conditions at time of sampling	Not reported by Riverside/Thames by data available from landfill weather station	
Analytical method	PCOM – carried out by Riverside/Thames	SEM – carried out by Institute of Occupational Medicine (IOM)
Limit of quantification achieved	0.003-0.01f/ml	0.0005f/ml
Reported concentrations	<LOQ	Typically <0.0005f/ml (maximum of 9 fibres equating to a concentration of 0.0015f/ml)
Example site plan	<p style="text-align: center;">Works/Sample Location Diagram</p> 	
Additional comments	The activity-based air monitoring has been undertaken with the only dust suppression measure used being the damping down of the concrete hardstanding. There is no equivalent monitoring for when further dust suppression measures were active (e.g. air misters and sprayers).	

Although PCOM monitoring data has been acquired this report focuses on the SEM data. As noted above the PCOM reported concentrations are <0.01 f/ml. The raw data for this SEM dataset from Provectus/Thames/IOM monitoring and analysis for Maw Green is tabulated in Appendix E and can be presented as follows:

Table 3.2: Summary details of SEM air monitoring results for Maw Green

Parameter	Value
Total number of air samples	395

Number of samples with zero fibres reported	339
Number of samples with countable fibres present	56
Percent of samples with countable fibres	14.2%
95th percentile fibre count	1
99th percentile fibre count	3
Maximum fibre count	9
Maximum concentration (total)	0.0015f/ml
Maximum concentration (amosite)	0.0013f/ml
Maximum concentration (chrysotile)	<0.0005f/ml
Percent of samples with concentration >LOQ	1.8%

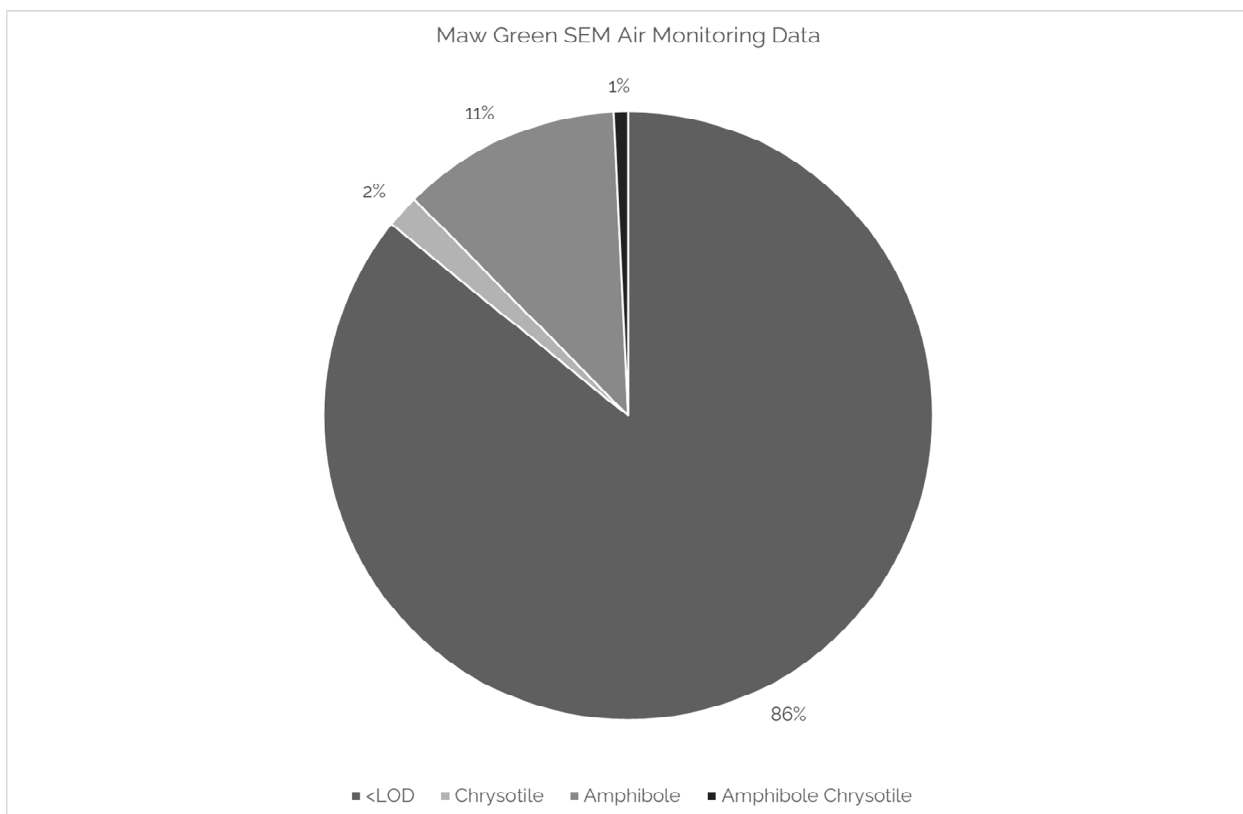


Figure 3.2: Percentage detection of asbestos types in Maw Green SEM air monitoring results

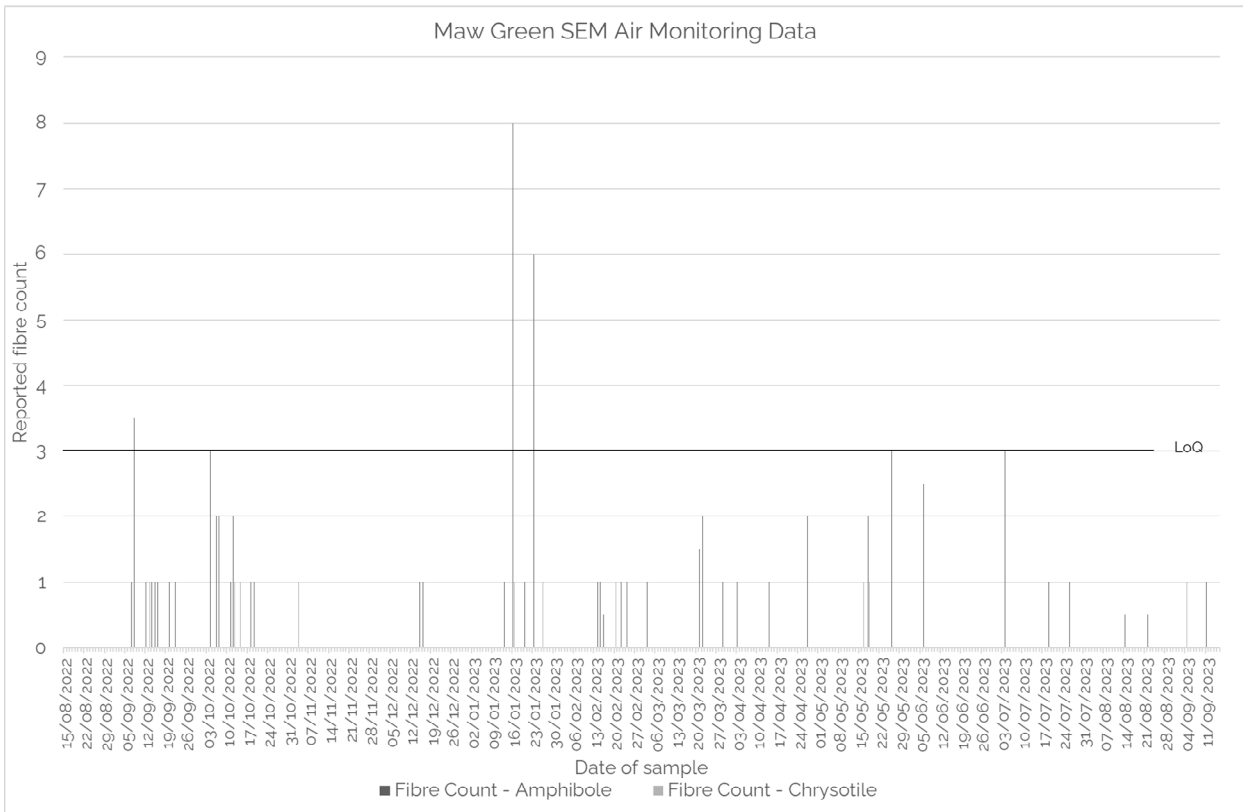


Figure 3.3: SEM fibre count results for Maw Green air monitoring

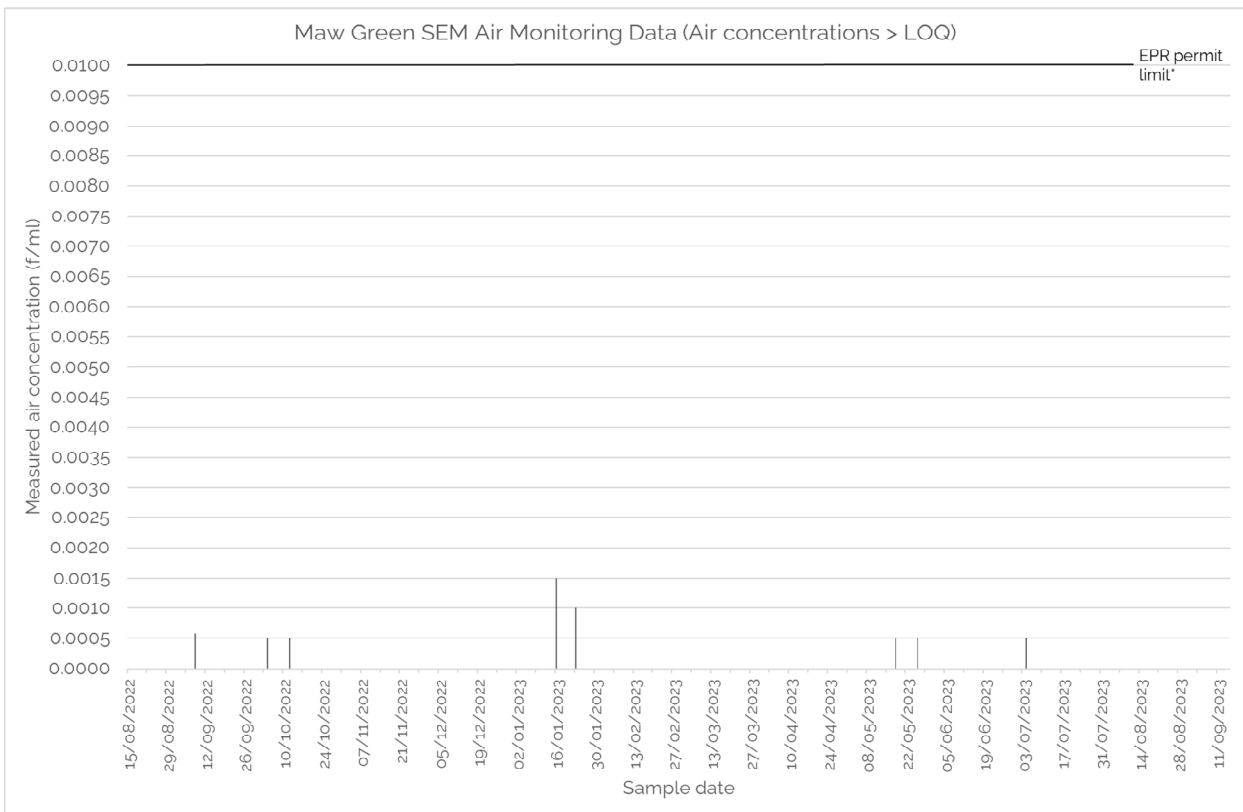


Figure 3.4: SEM asbestos fibre air concentrations for Maw Green air monitoring

* Note the EPR permit limit illustrated in Figure 3.4 is defined as a PCOM concentration, whereas the measured concentrations are SEM measurements. Correcting for the unit difference would result in either a reduction in the illustrated measured concentrations or an increase in the illustrated permit limit.

An example location for the air monitoring at Maw Green is shown in the photograph below taken on 08 June 2023.



Figure 3.5: Example location for SEM air monitoring at Maw Green

3.3 Pre-processed acceptance soil test data

Sample analysis laboratory certificates issued by Chemtest/Eurofins Chemtest for samples of pre-processed soils span the period of 17 August 2022 to 06 October 2023.

This data comprises asbestos gravimetric analysis test data for pre-processed soil from 28 different sites of origin sampled over the period 15 August 2022 – 06 October 2023. The summarised data includes the results from all samples submitted for acceptance for treatment during this period. The sampling frequency utilised by Provectus is as follows:

Table 3.3: Provectus sampling frequencies

Volume of soil (t)	No. of samples needed (before or during acceptance at STF)
< 100	1
100 - 500	2
500 +	2 + 1 for every 500t

The raw data is tabulated in Appendix F and the dataset can be described and presented as follows:

Table 3.4: Summary details of pre-processed acceptance soil test results for Maw Green

Parameter	Value
Total number of soil samples	118
Number of samples with no asbestos detected	69
Number of samples with detectable asbestos present	49
Number of samples with asbestos concentration > LOQ	40
Median concentration	<0.001%wt/wt
Upper quartile	0.002%wt/wt
90 th percentile concentration	0.008%wt/wt
95 th percentile concentration	0.019%wt/wt
Maximum concentration	0.5%wt/wt (repeat sample 0.018%wt/wt)

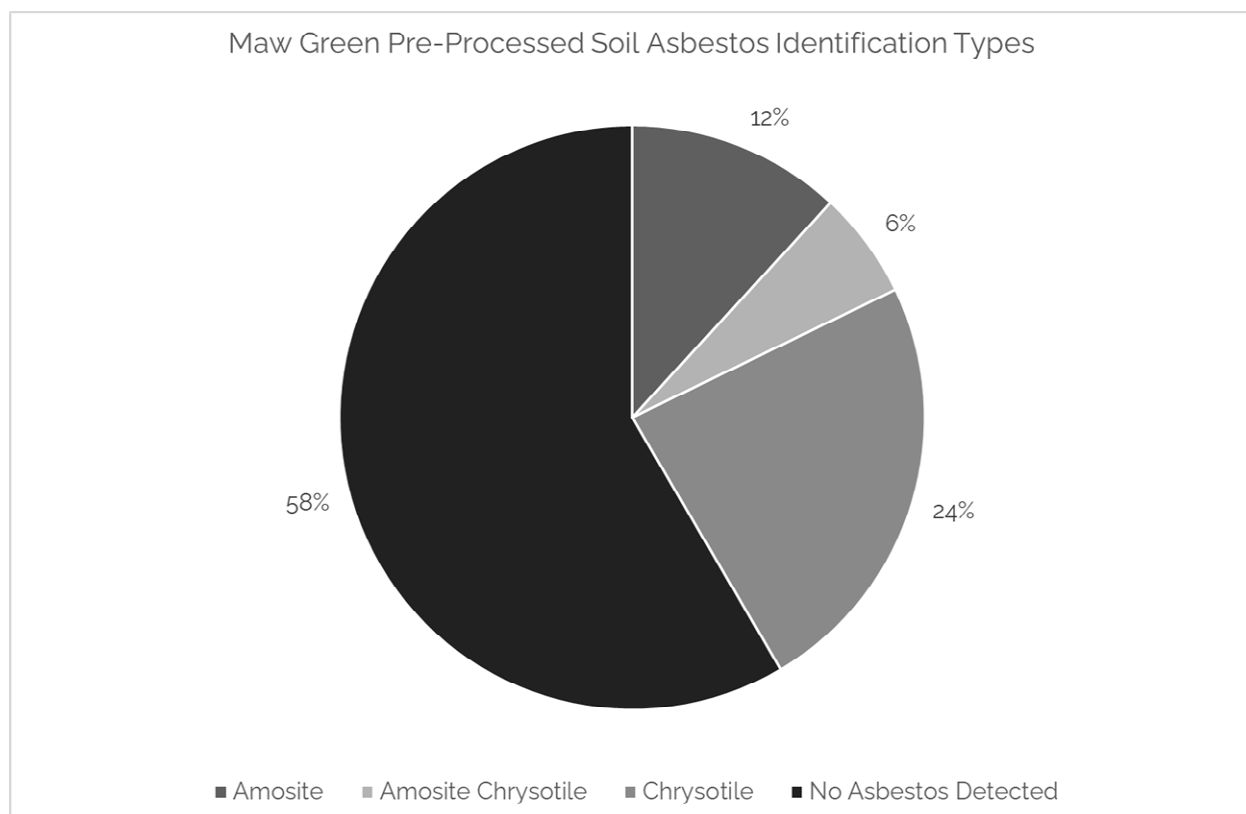


Figure 3.6: Percentage detection of asbestos types in Maw Green pre-processed soil sample results

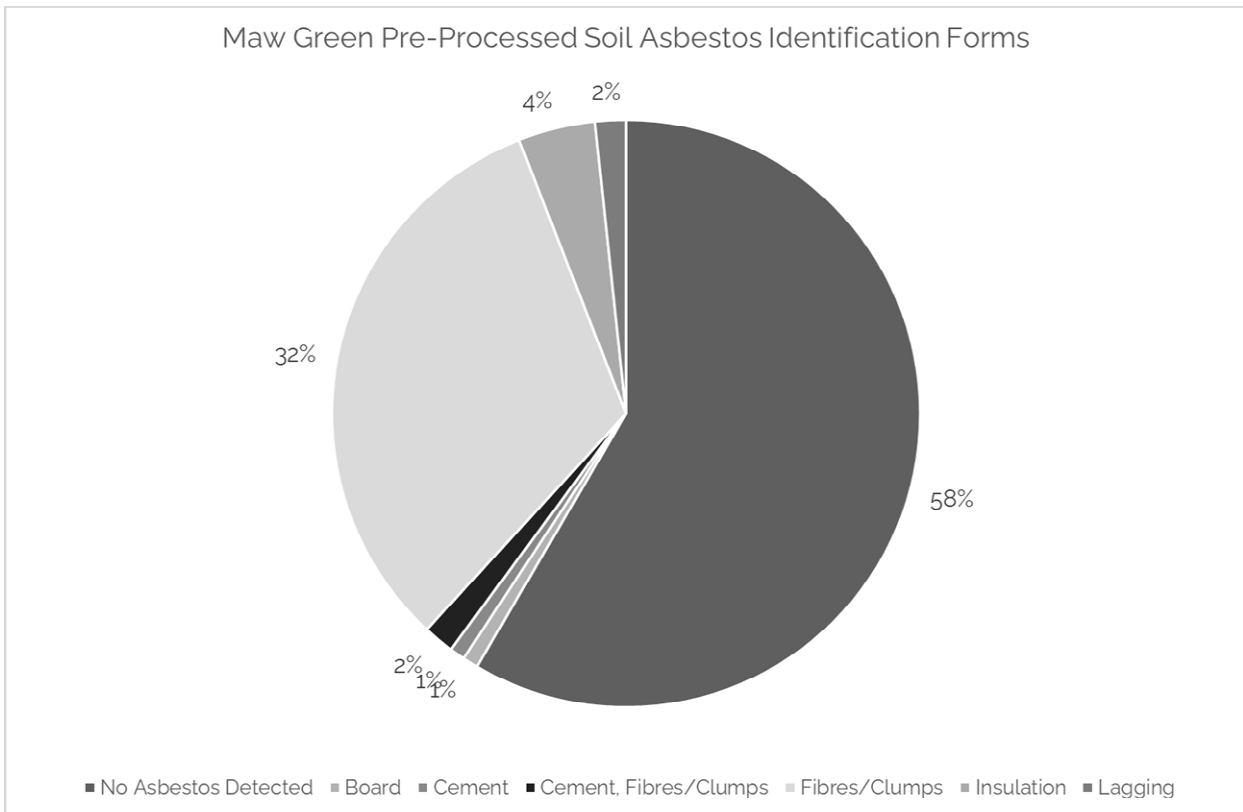


Figure 3.7: Percentage detection of asbestos forms in Maw Green pre-processed soil sample results

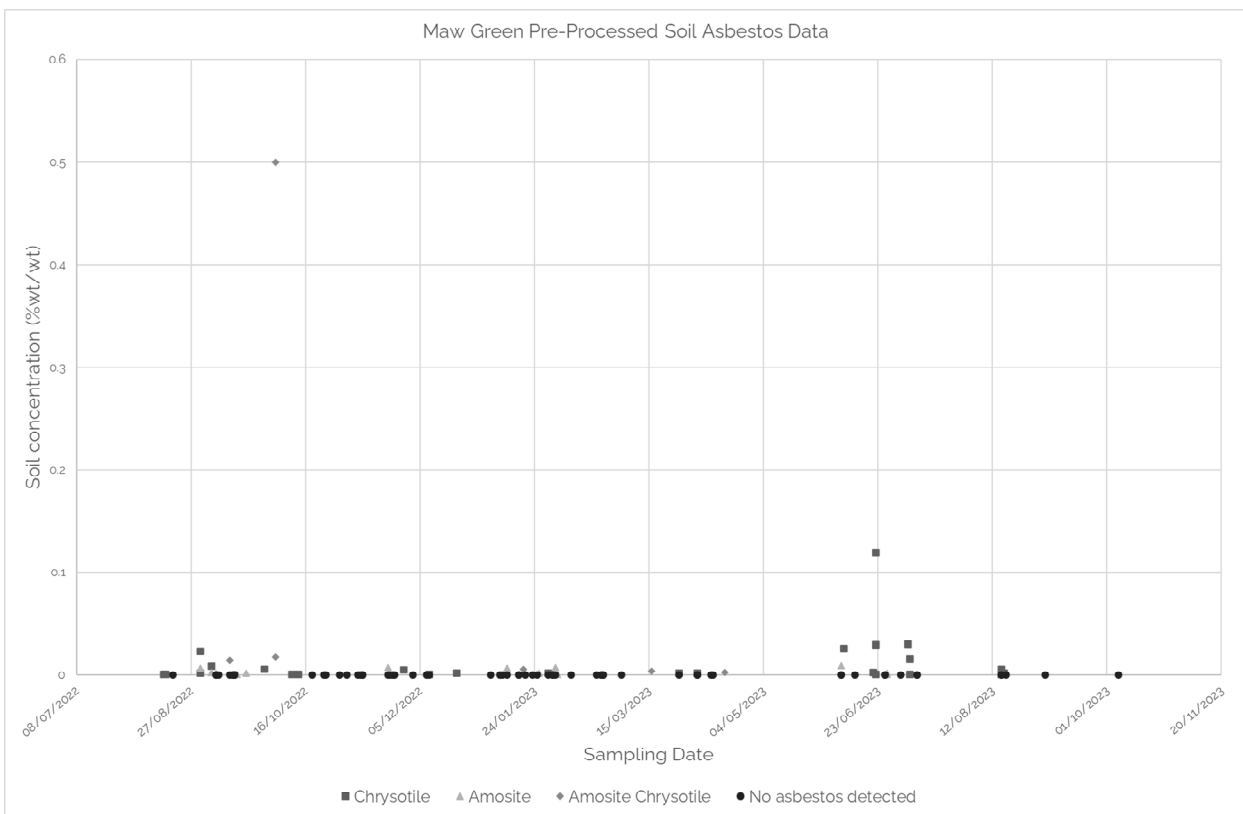


Figure 3.8: Pre-processed soil asbestos concentrations for Maw Green

Table 3.5: Summary details of pre-processed soil moisture results for Maw Green

Parameter	Value
Total number of soil samples	118
Minimum	4.3%
Maximum	30%
5th percentile	7.7%
Lower quartile	9.4%

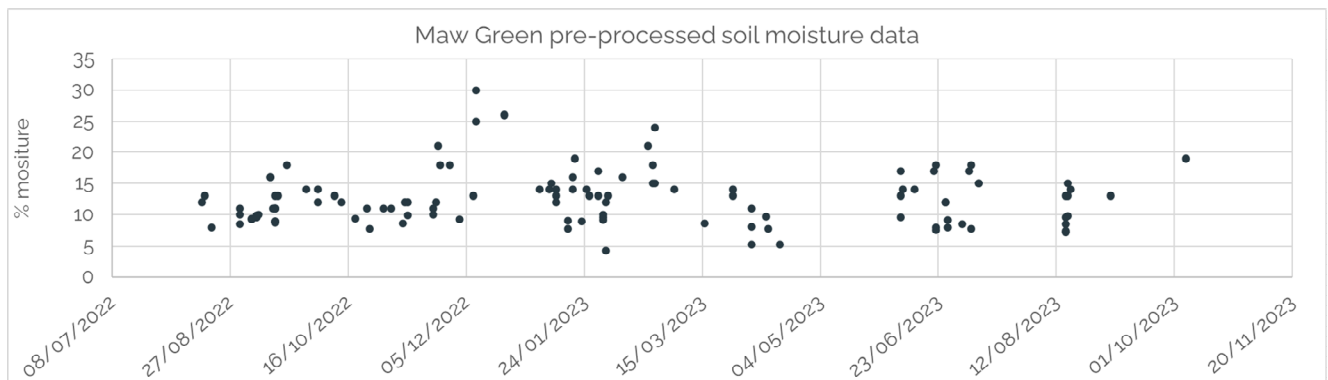


Figure 3.9: Pre-processed soil moisture results for Maw Green

3.4 Post-processed soil validation data

This data comprises asbestos gravimetric analysis test data for post-processed soil from 28 different sites of origin sampled over the period 15 August 2022 – 19 October 2023. The dataset relates to the finer fraction of processed soil from the 3-way screener, and can be presented as follows (the raw data is tabulated in Appendix G):

Table 3.6: Summary of post-processed soil sites of origin and processed amounts for Maw Green

Number of Input Material Projects (i.e. sites of origin)	Total Material Validated (t)	Average Batch Size (t)
28 (received tonnage from sites varies considerably)	38,130	2,542

Table 3.7: Summary details of post-processed validation soil test results for Maw Green

Parameter	Value
Total number of soil samples	89
Number of samples with no asbestos detected	43
Number of samples with detectable asbestos present	46

Number of samples with asbestos concentration > LOQ	27
Median concentration	<LOQ
90th percentile concentration	0.008%wt/wt
95th percentile concentration	0.02%wt/wt
Maximum concentration	0.075%wt/wt

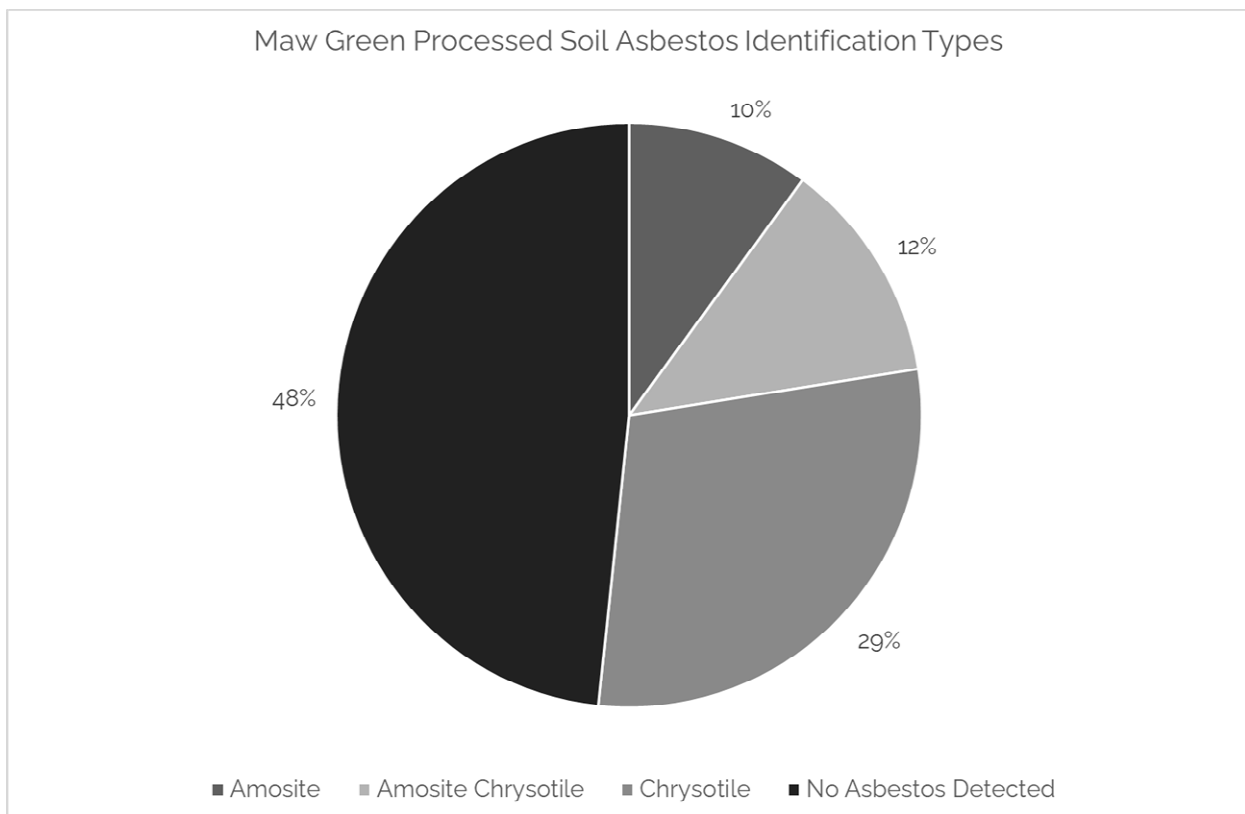


Figure 3.10: Percentage detection of asbestos types in Maw Green post-processed soil sample results

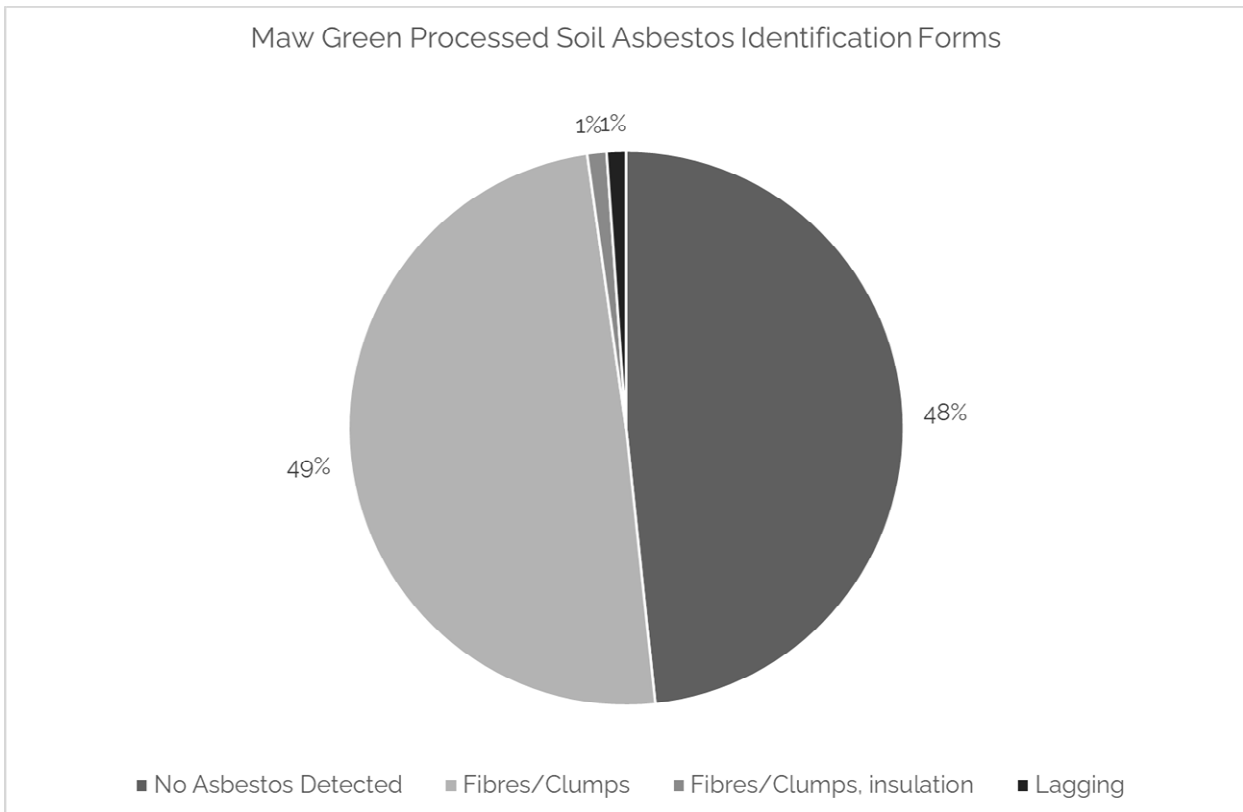


Figure 3.11: Percentage detection of asbestos forms in Maw Green post-processed soil sample results

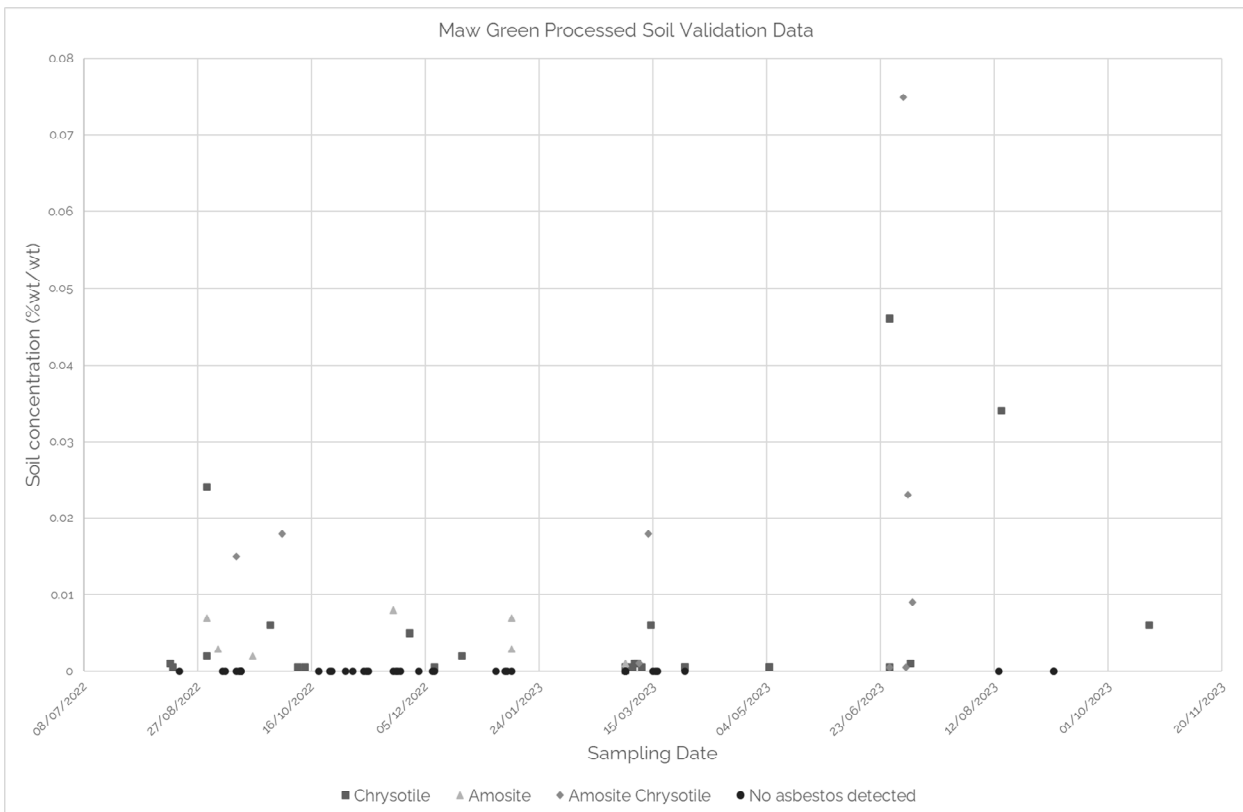


Figure 3.12: Post-processed soil asbestos concentrations for Maw Green

Soil validation samples from Maw Green from December 2022 onwards have been re-tested for free fibres by fibre counting (Stage 3 in the SCA Blue Book method). The results for these 47 samples are all reported as <0.001%wt/wt (i.e. <LOQ) for free fibres. All soil validation results were originally tested for asbestos identification and gravimetric quantification (i.e. as per Stage 1 and Stage 2 of the SCA Blue Book method).

Table 3.8: Summary details of post-processed soil moisture results for Maw Green

Parameter	Value
Total number of soil samples	89
Minimum	3%
Maximum	30%
5th percentile	8%
Lower quartile	10%

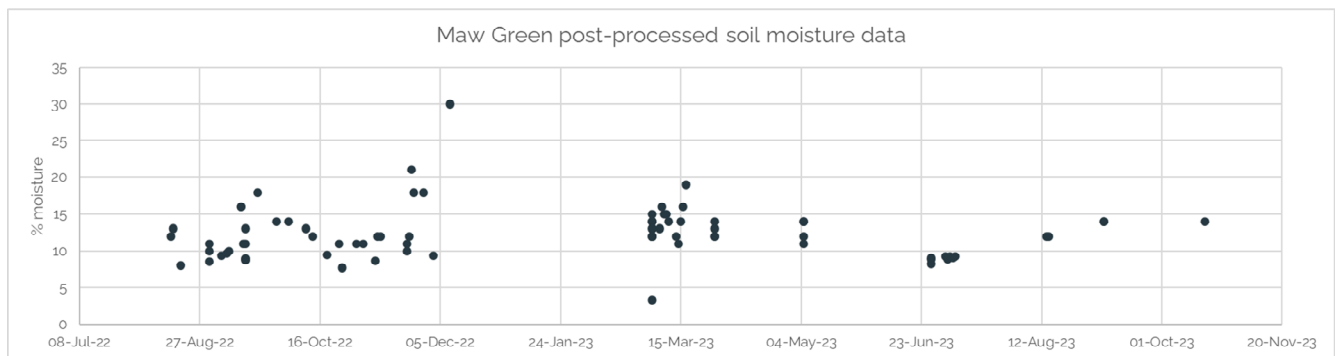
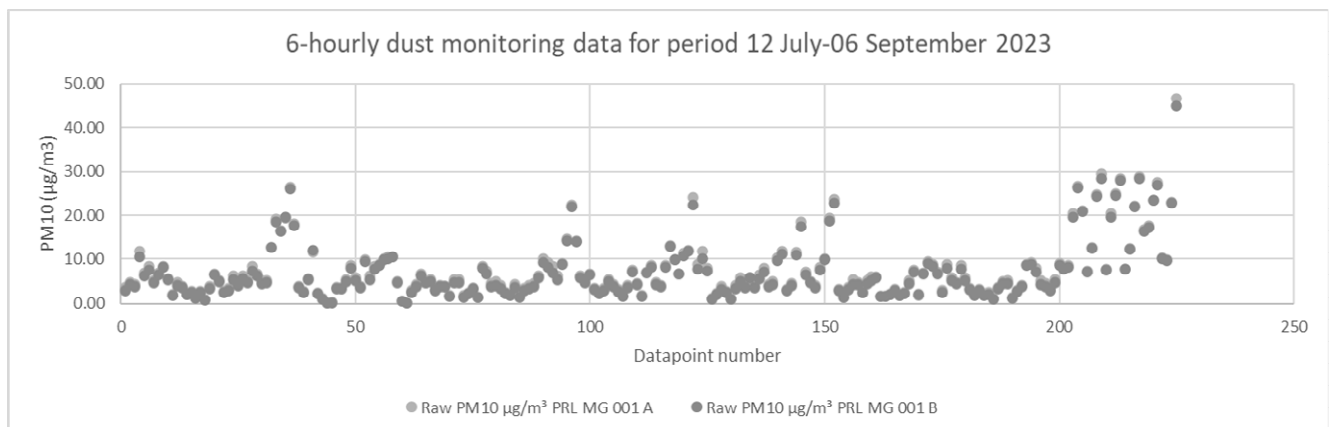


Figure 3.13: Post-processed soil moisture results for Maw Green

3.5 Automated continuous dust monitoring

A PurpleAir Flex Air Quality Monitor has been installed on the picking station at Maw Green that is capable of continuous monitoring for PM0.3-PM10. Data from this instrument is available from 12 July 2023 onwards. Data up to 06 September is graphed below.



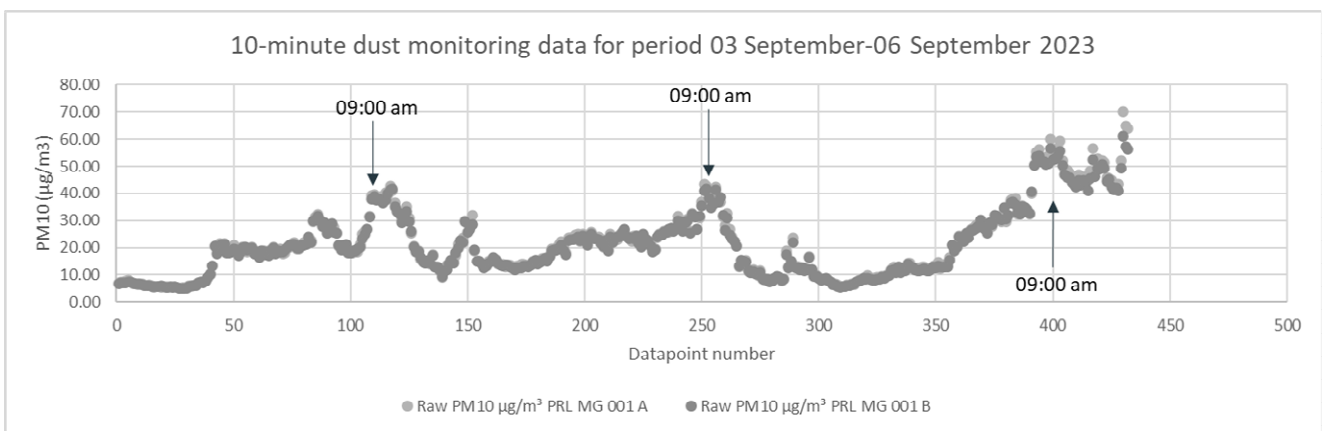
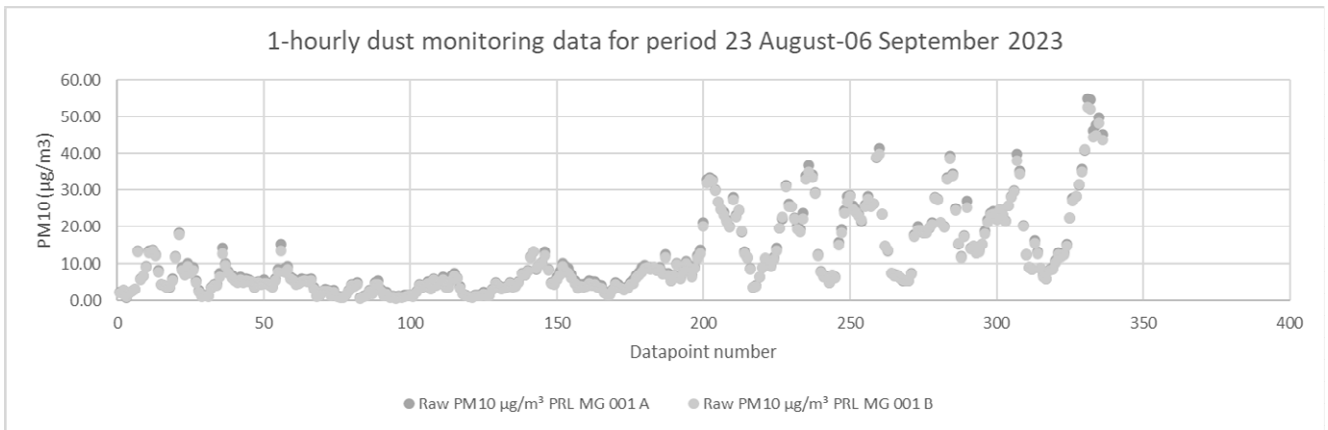


Figure 3.14: (a) 6-hourly PM10 dust monitoring data, (b) 1-hourly PM10 dust monitoring data, and (c) 10-minute PM10 dust monitoring data for Maw Green

The location of the dust monitor is shown in the photographs below:





Figure 3.15: Location of the Maw Green continuous dust monitor

3.6 Surface water treatment plant effluent sampling

Water samples have been taken from the surface water treatment plant over the period 07 September 2023 to 21 September 2023. The sample analysis certificates issued by Eurofins Chemtest show that all results are reported as “not detected” (i.e. no asbestos fibre has been detected on the filter from the submitted water sample). Laboratory analysis certificates are provided in Appendix H.

3.7 Hand-held dust monitoring

Hand-held activity-based dust monitoring using a TSI DustTrak DRZ Aerosol Monitor 8534 was carried out by Hydrock during the period 04-07 September 2023. Monitoring was typically carried out over 10-minute periods at individual locations, with those locations indicated below.

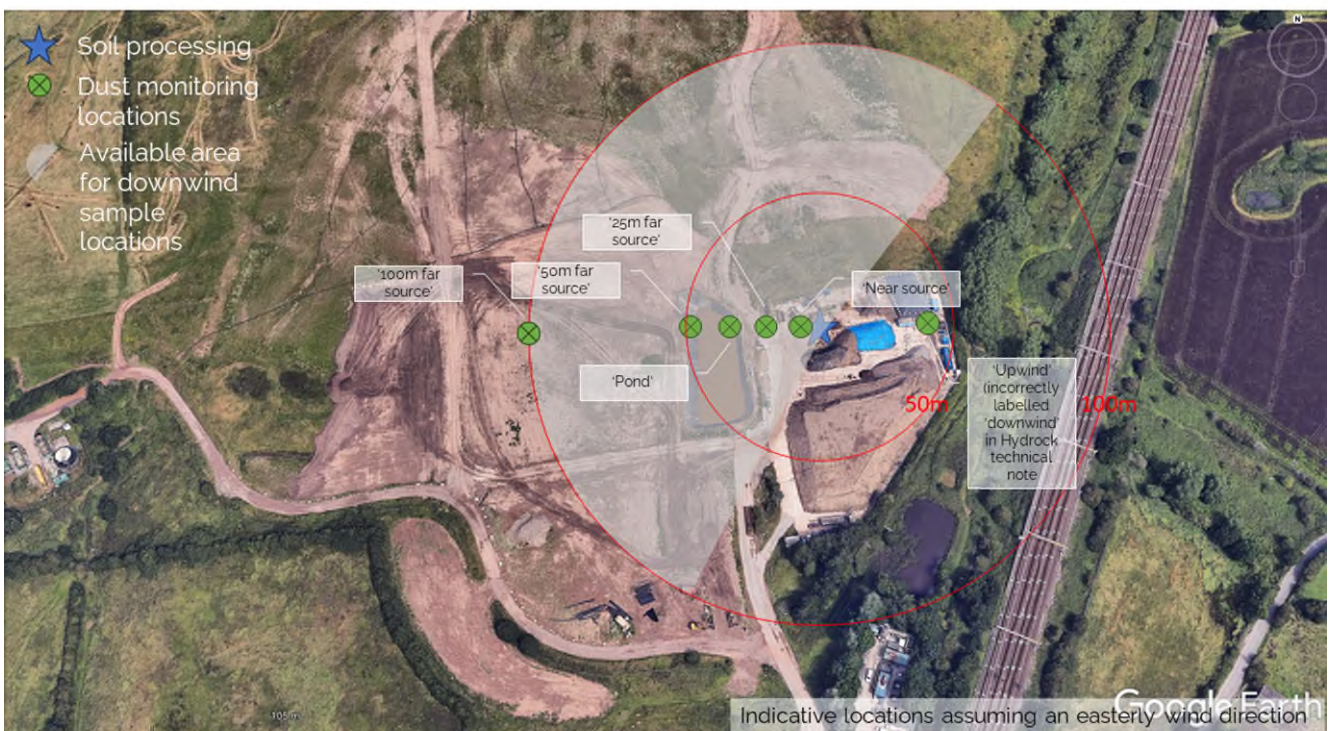


Figure 3.16: Indicative dust monitoring locations at Maw Green STF



(a) 'Upwind' 04 Sept 2023



(b) 'near source' 04 Sept 2023



(c) '25m far source' 04 Sept 2023



(d) 'pond' 04 Sept 2023



(e) '50m far source' 06 Sept 2023



(f) '100m far source' 06 Sept 2023

Figure 3.17: Example hand-held dust monitoring locations at Maw Green STF

The datasets from each monitoring event can be illustrated as follows:

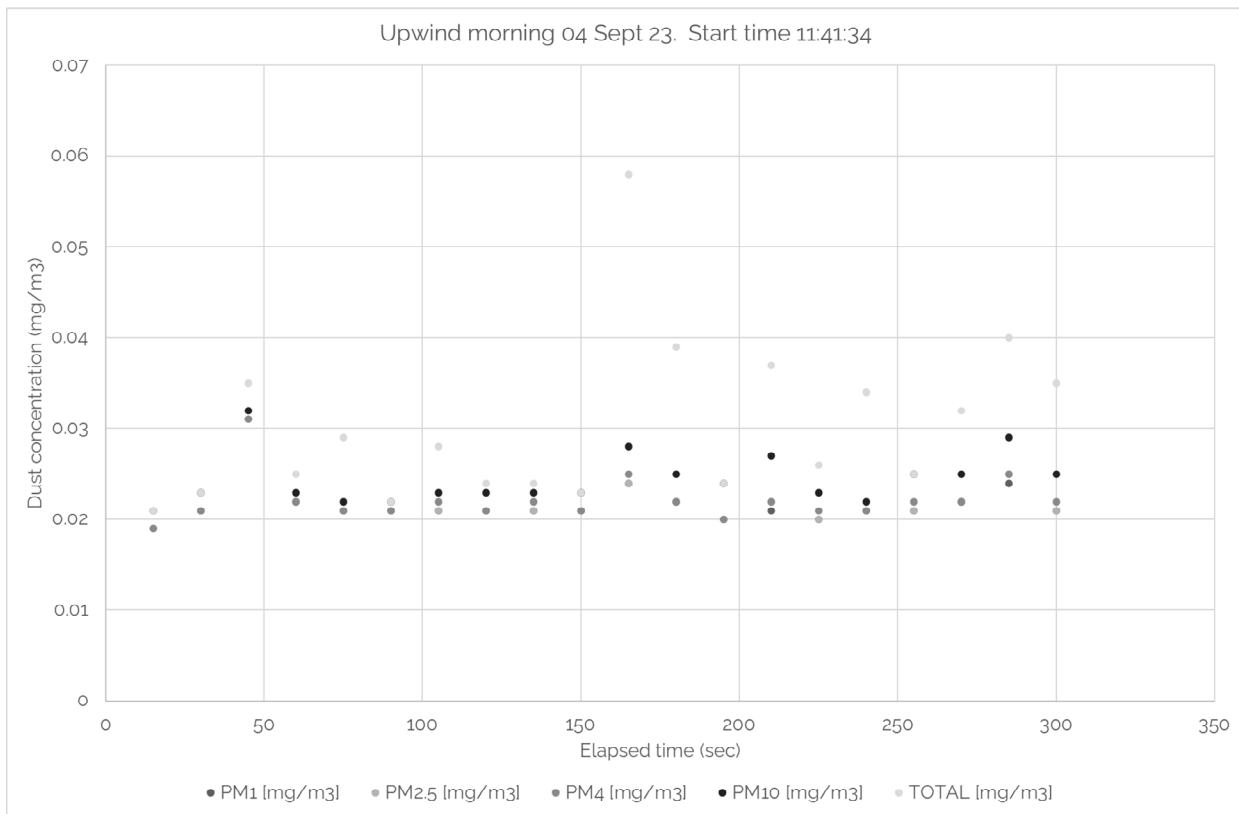


Figure 3.18: 'Upwind' location dust monitoring results for 04 September 2023

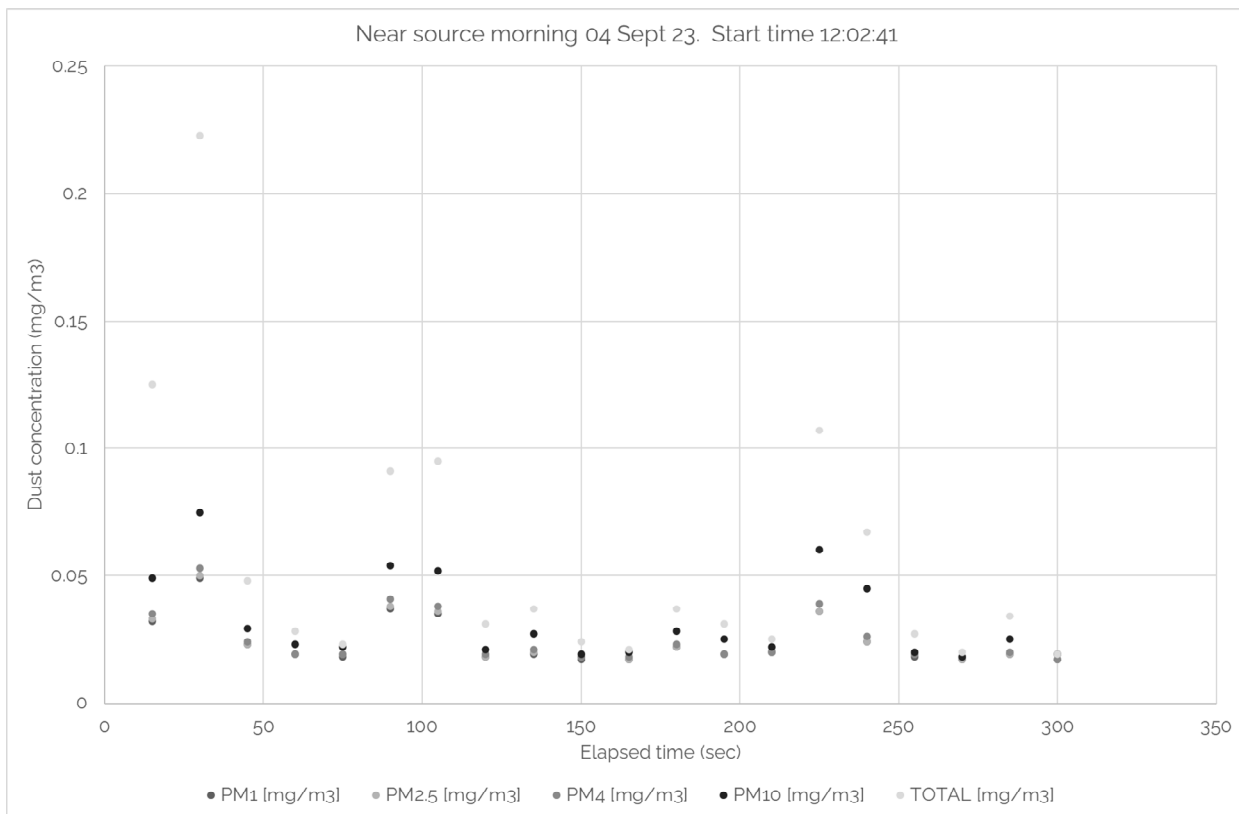


Figure 3.19: 'Near Source' location dust monitoring results for 04 September 2023

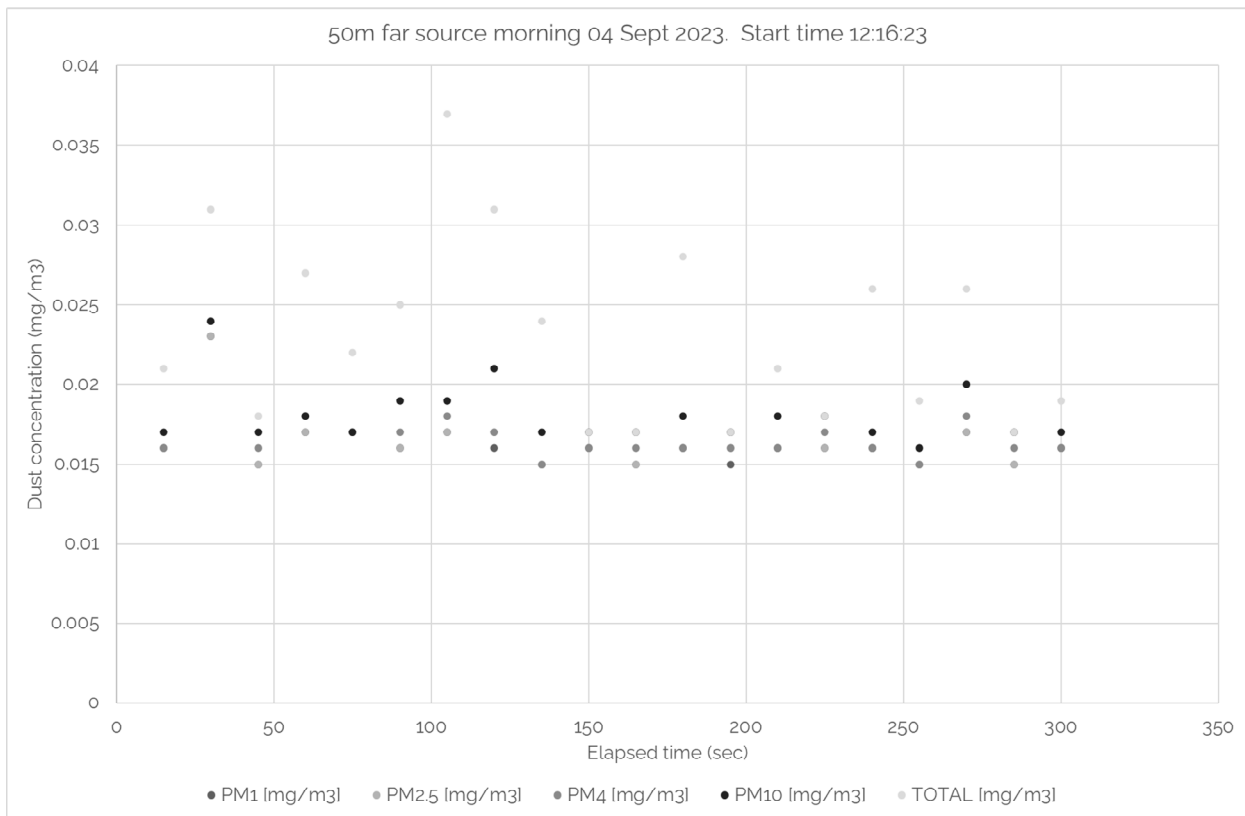


Figure 3.20: '50m far source' location dust monitoring results for 04 September 2023

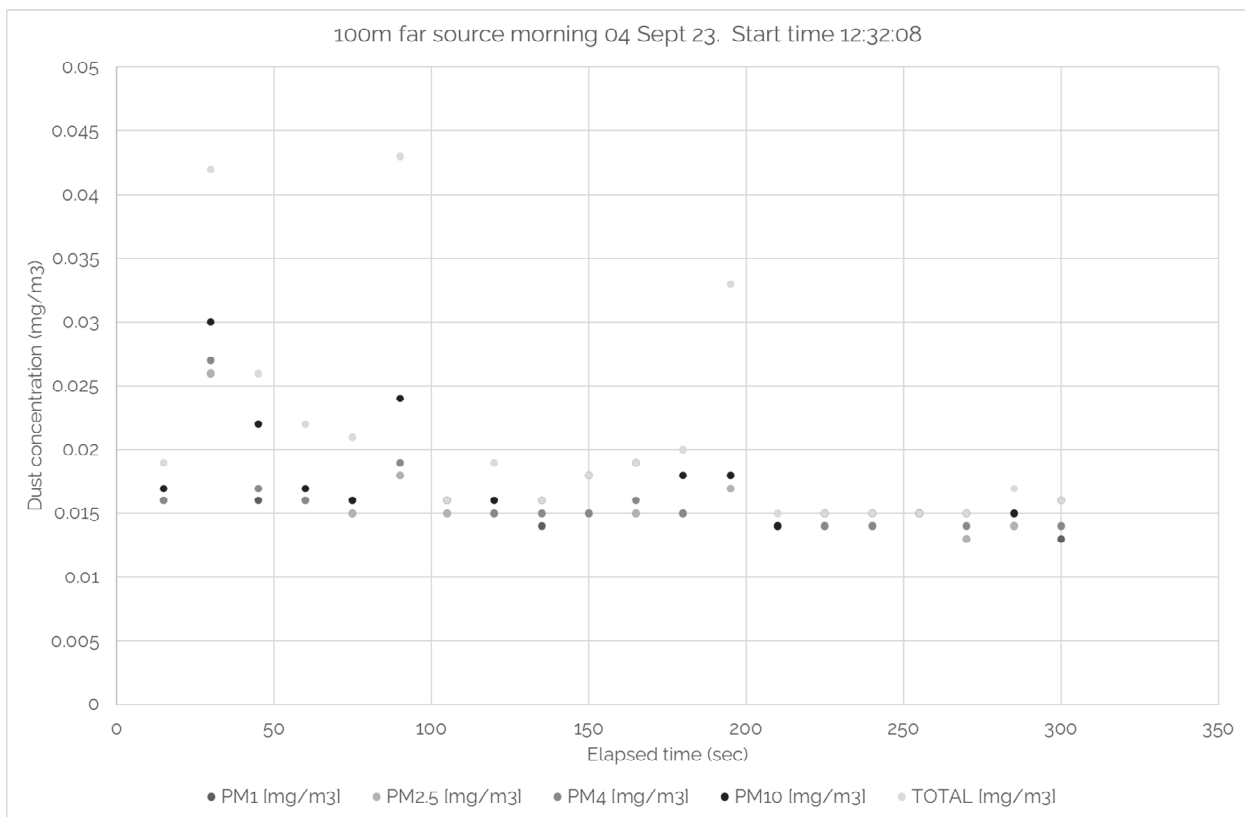


Figure 3.21: '100m far source' location dust monitoring results for 04 September 2023

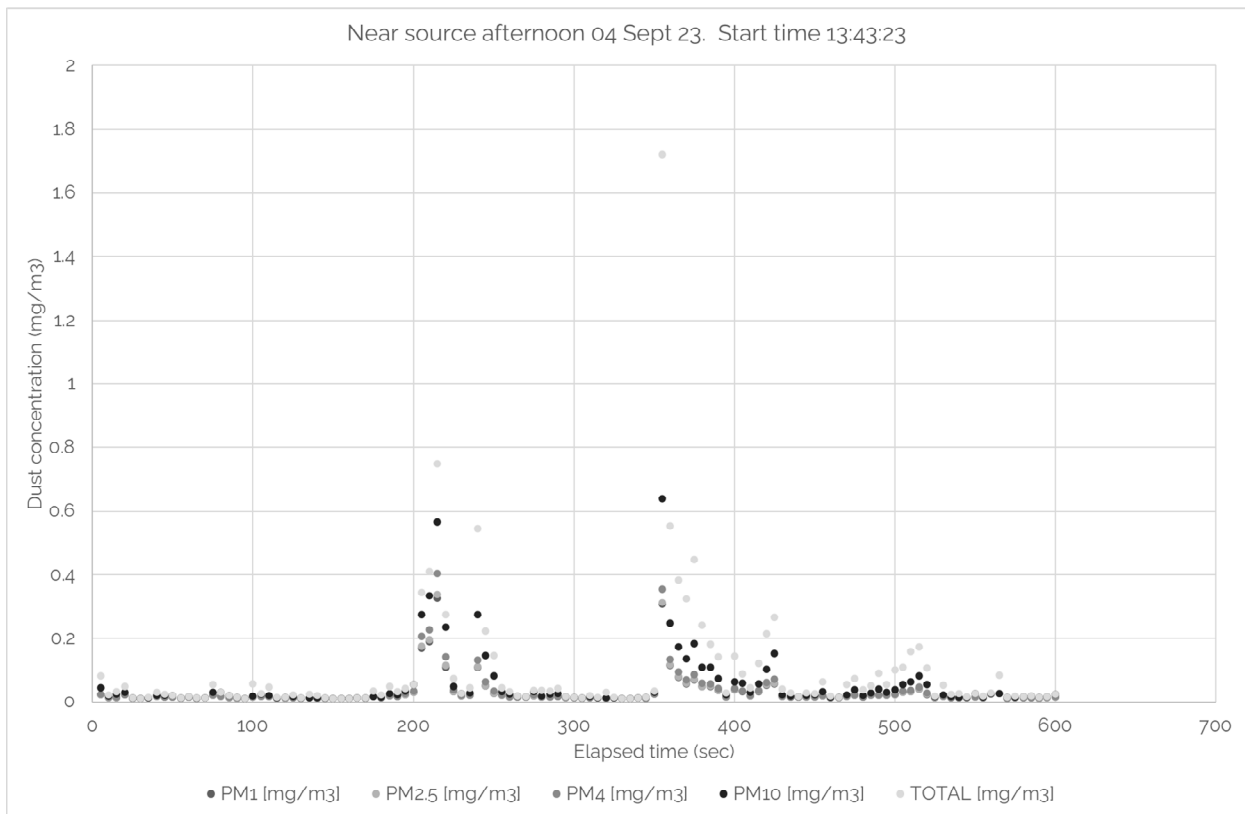


Figure 3.22: Repeated 'near source' location dust monitoring results for 04 September 2023

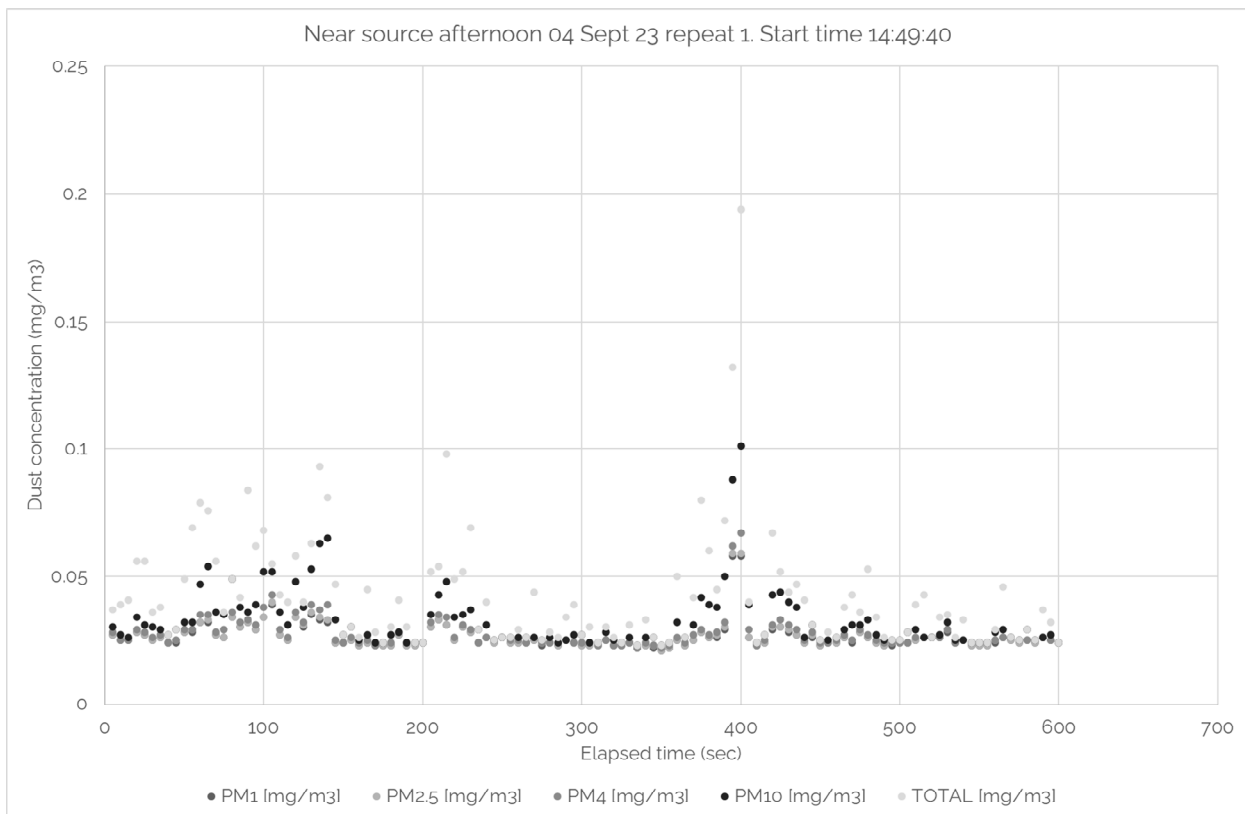


Figure 3.23: Repeated 'near source' location dust monitoring results for 04 September 2023

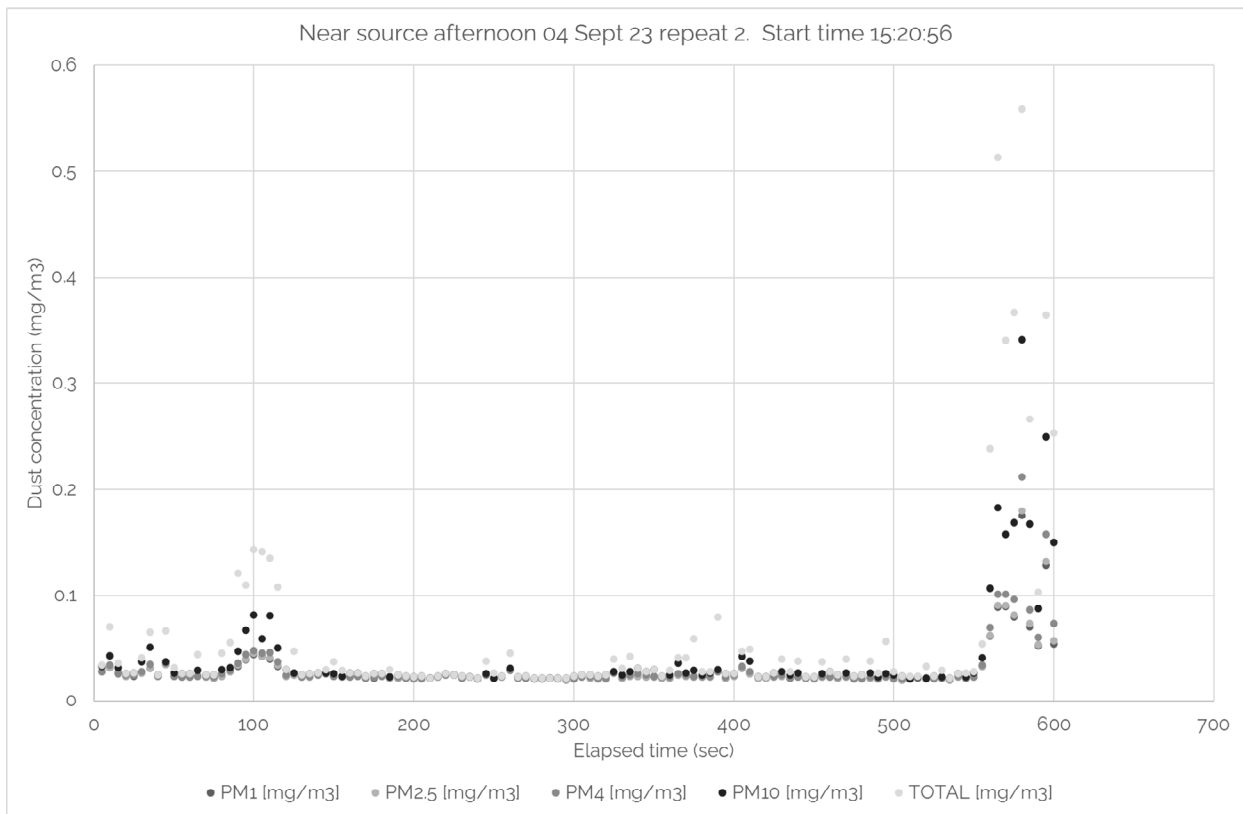


Figure 3.24: Repeated 'near source' location dust monitoring results for 04 September 2023

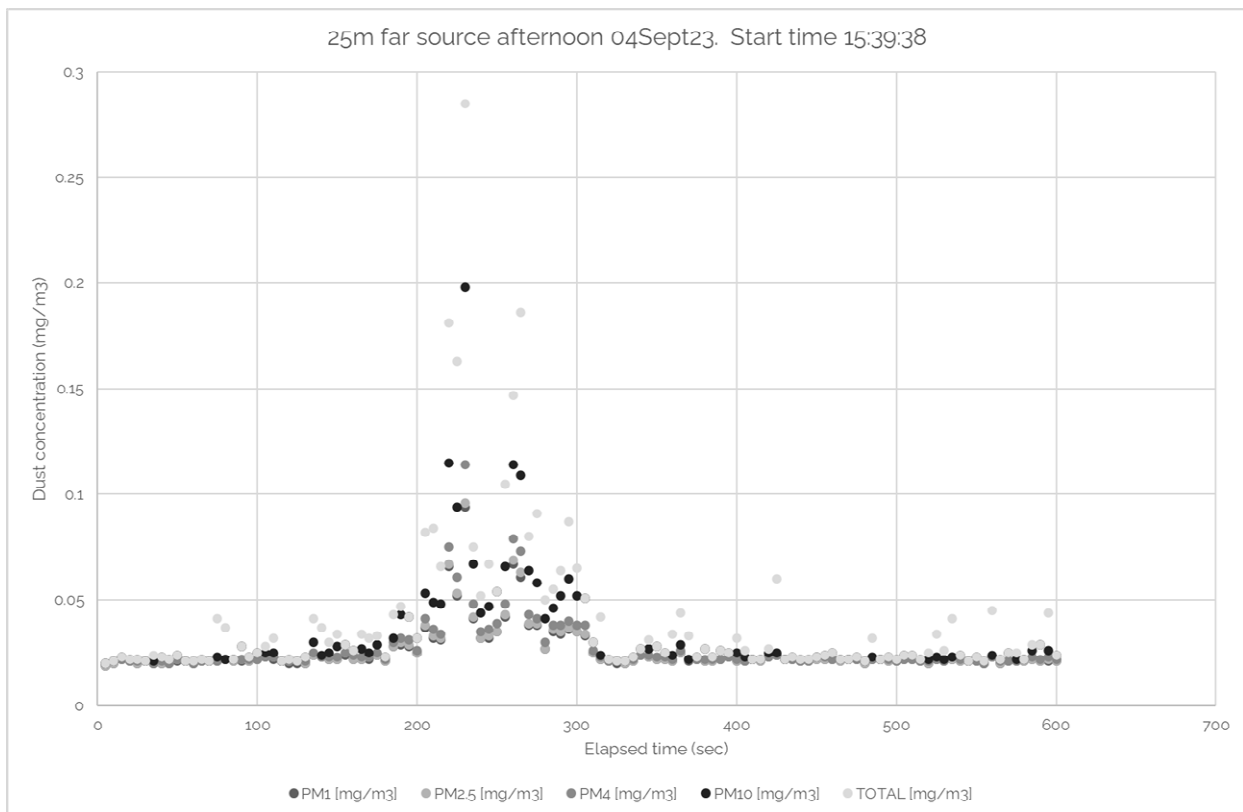


Figure 3.25: '25m far source' location dust monitoring results for 04 September 2023

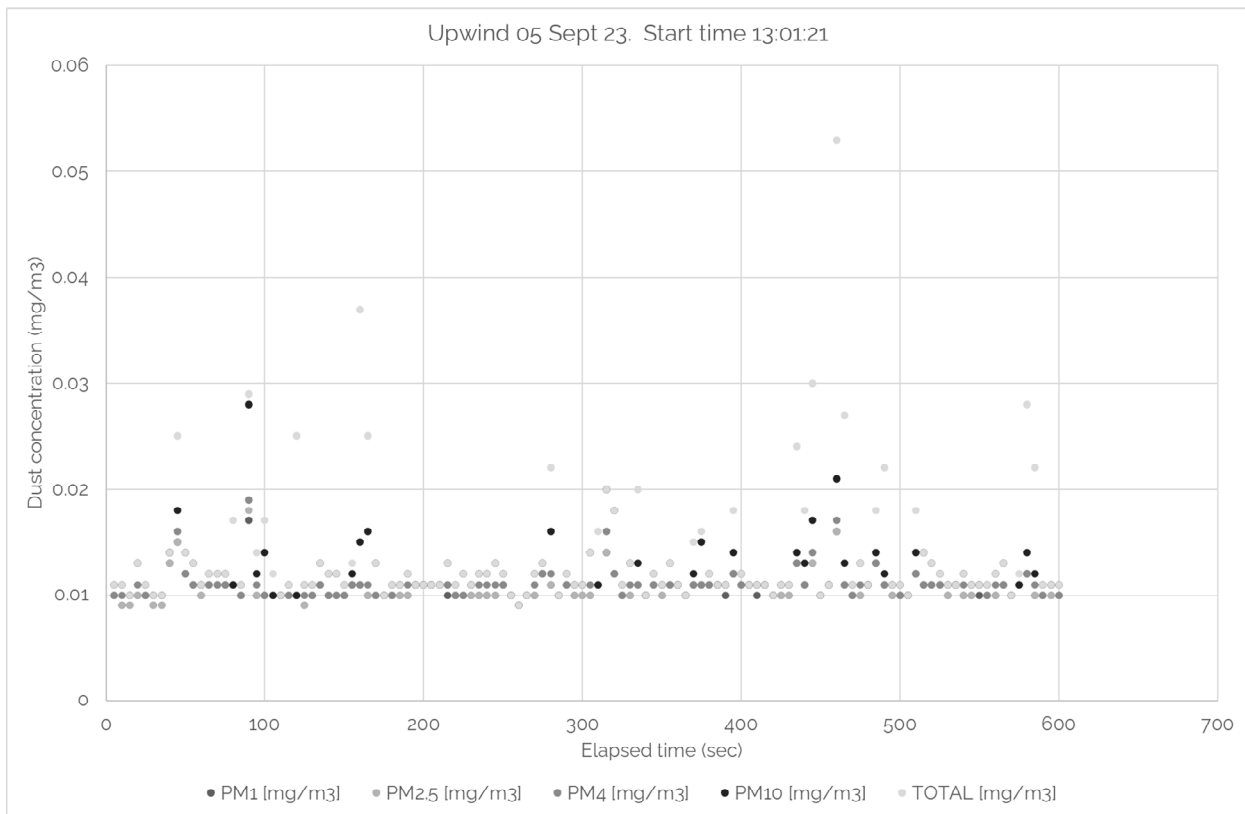


Figure 3.26: 'Upwind' location dust monitoring results for 05 September 2023

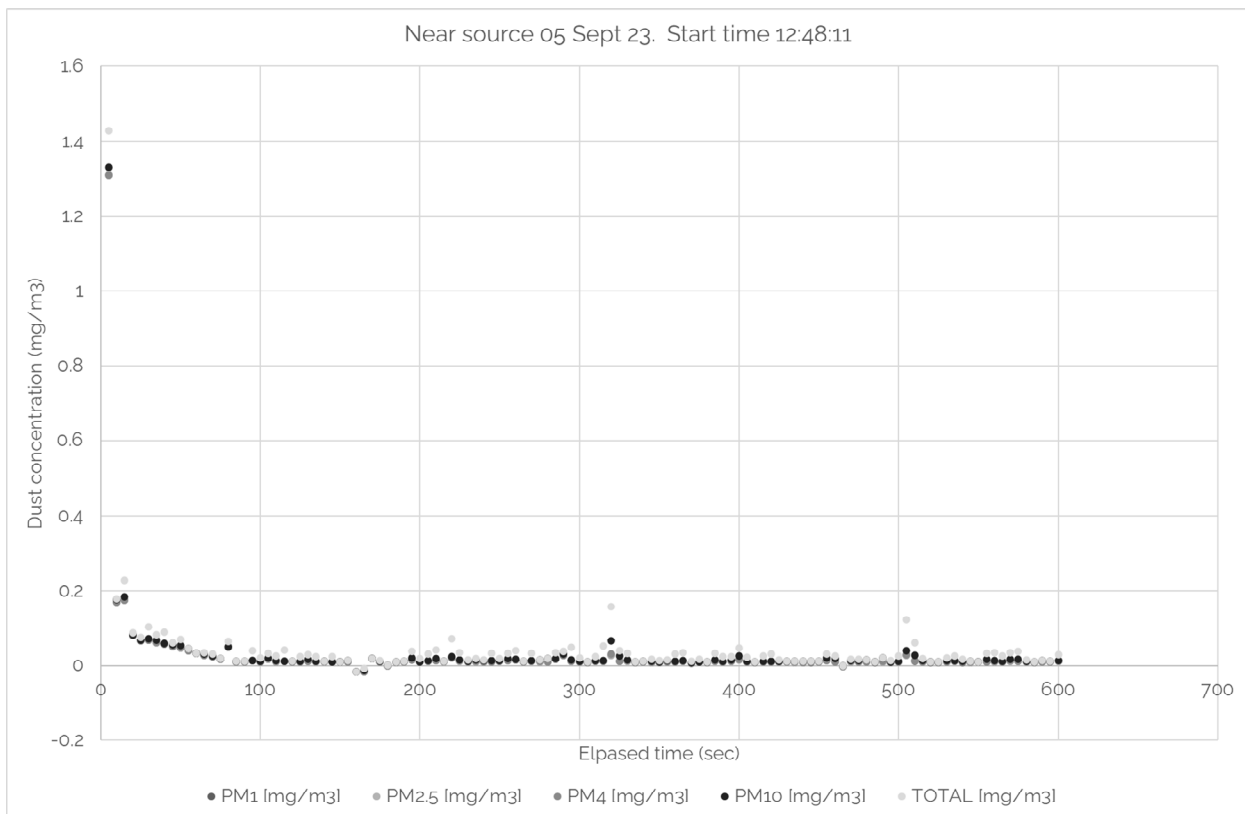


Figure 3.27: 'Near source' location dust monitoring results for 05 September 2023

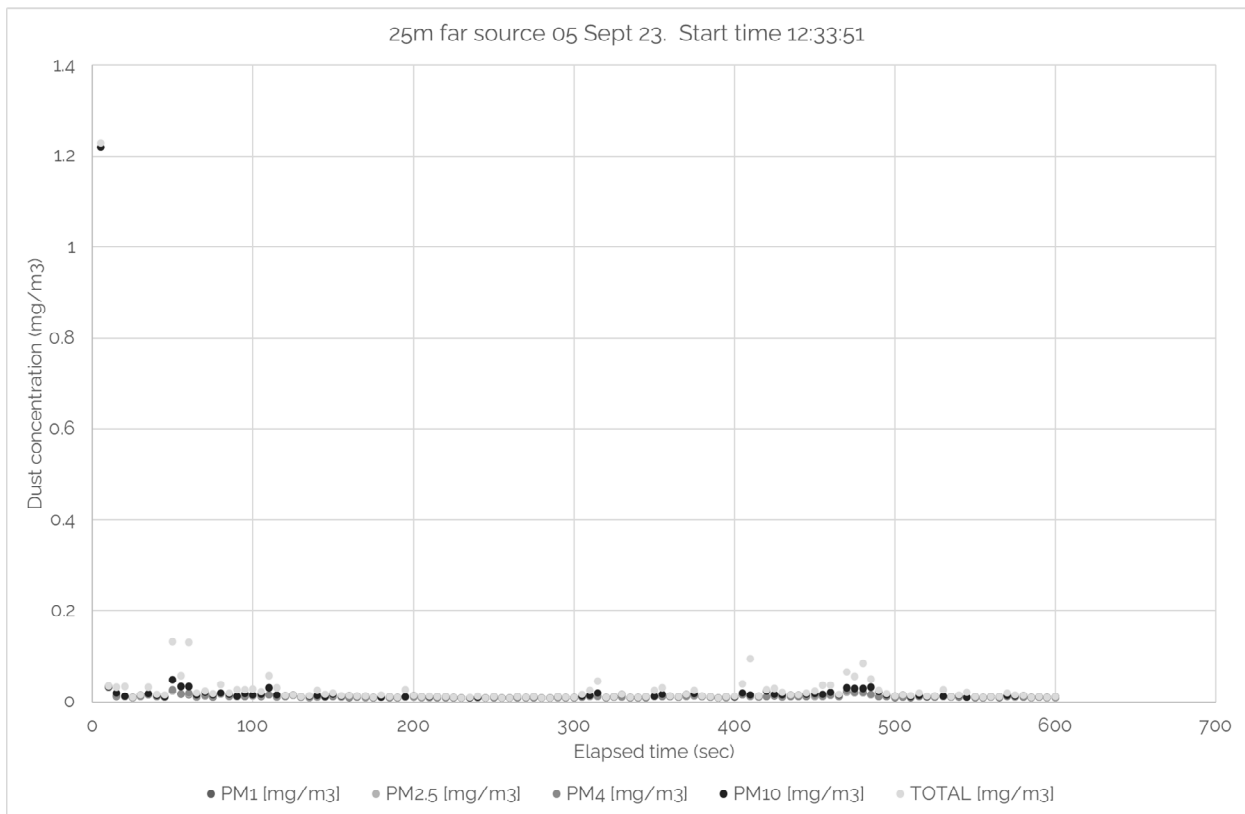


Figure 3.28: '25m far source' location dust monitoring results for 05 September 2023

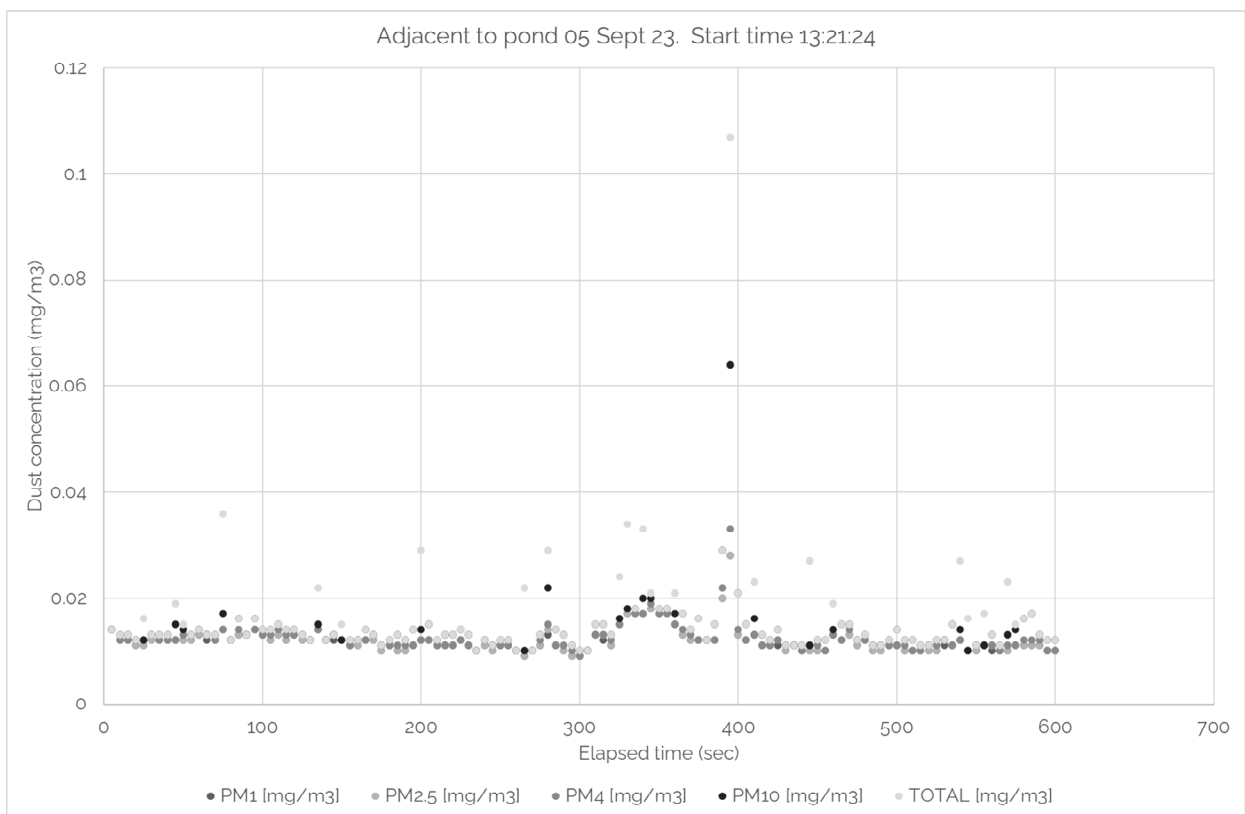


Figure 3.29: 'Pond' location dust monitoring results for 05 September 2023

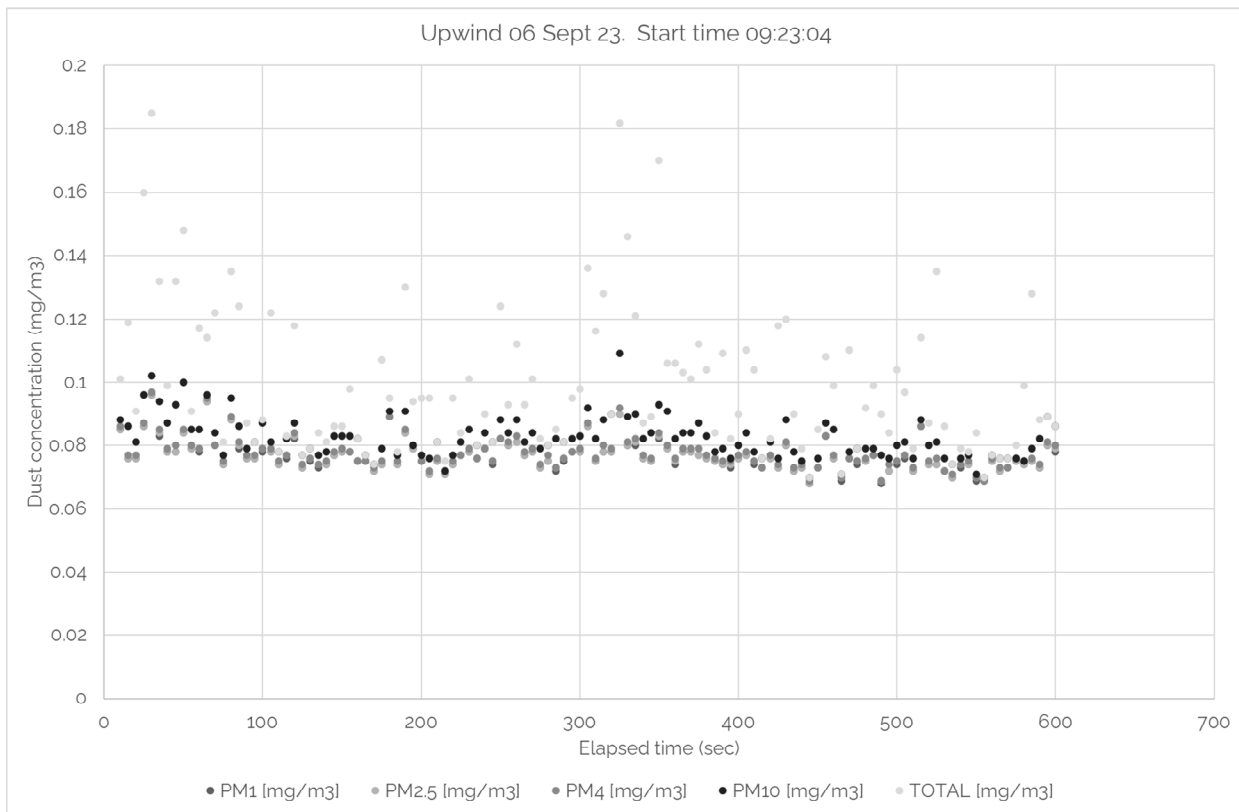


Figure 3.30: 'Upwind' location dust monitoring results for 06 September 2023

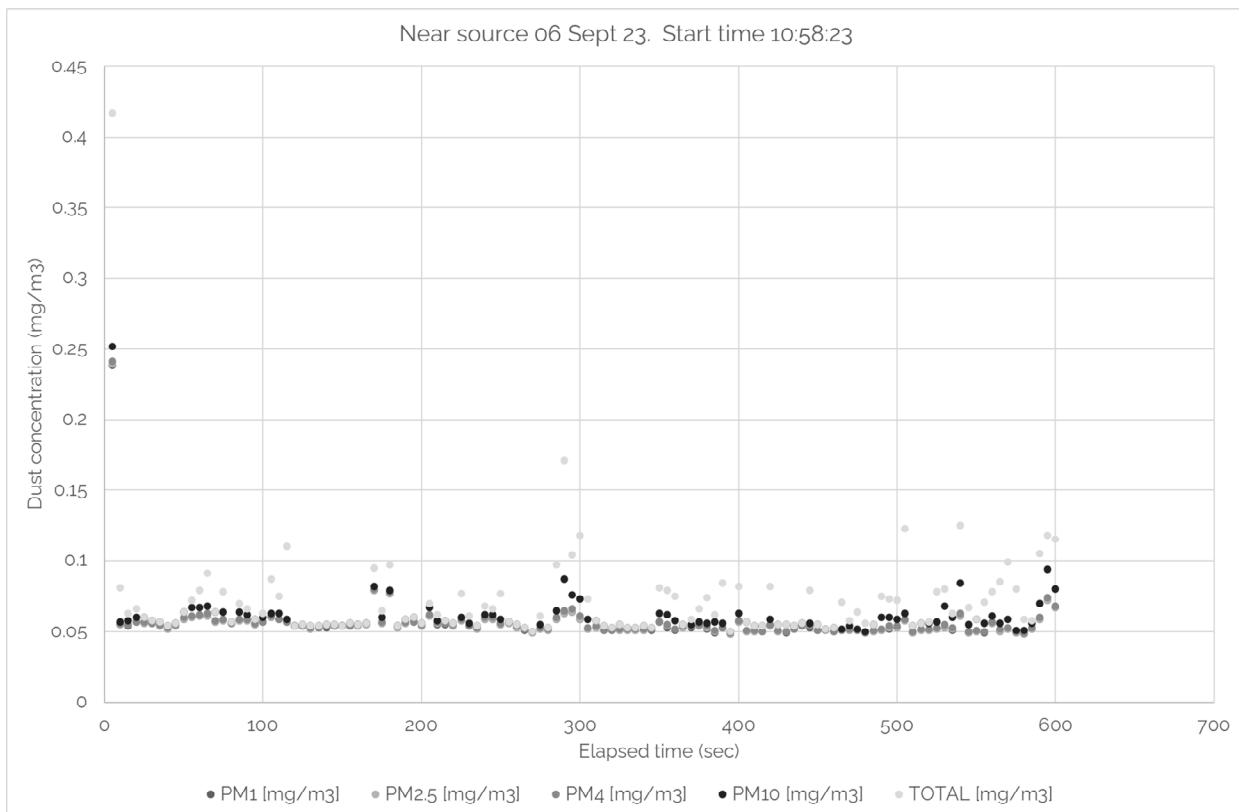


Figure 3.31: 'Near source' location dust monitoring results for 06 September 2023

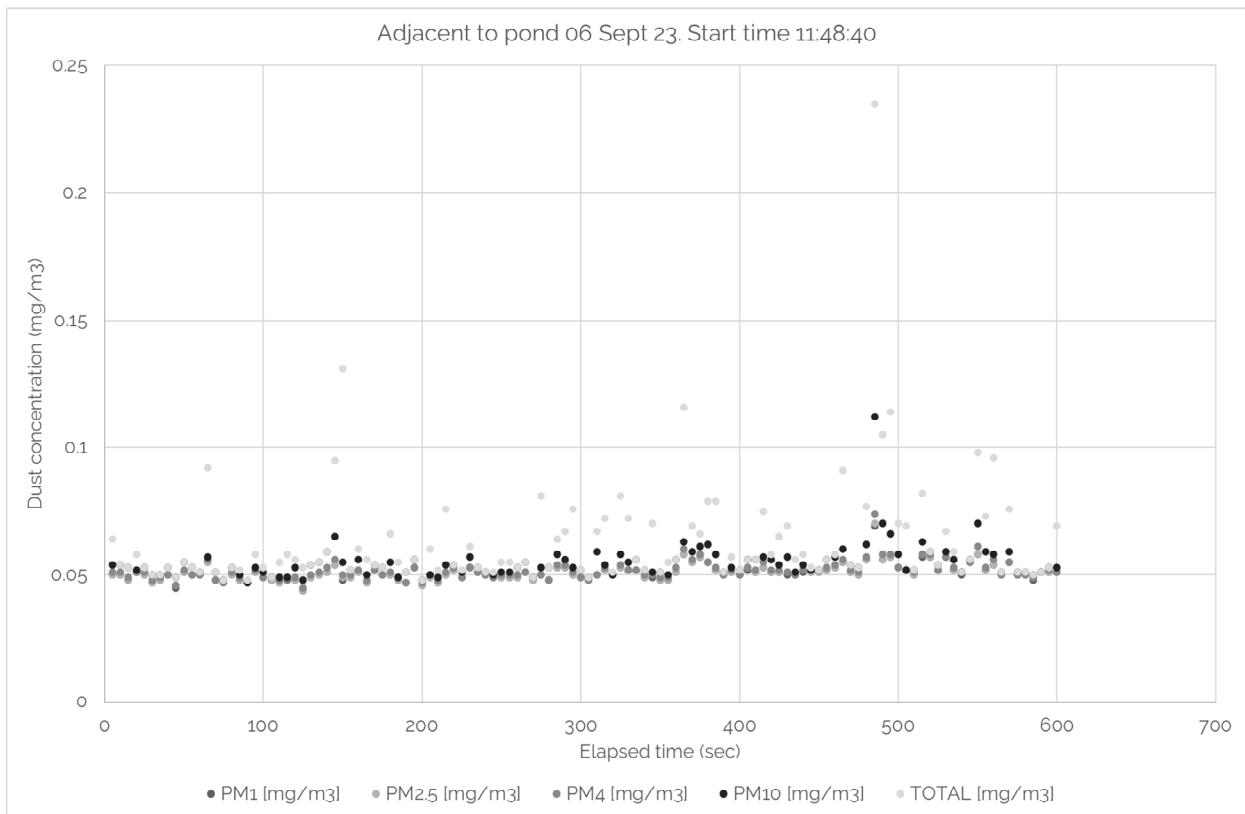


Figure 3.32: 'Pond' location dust monitoring results for 06 September 2023

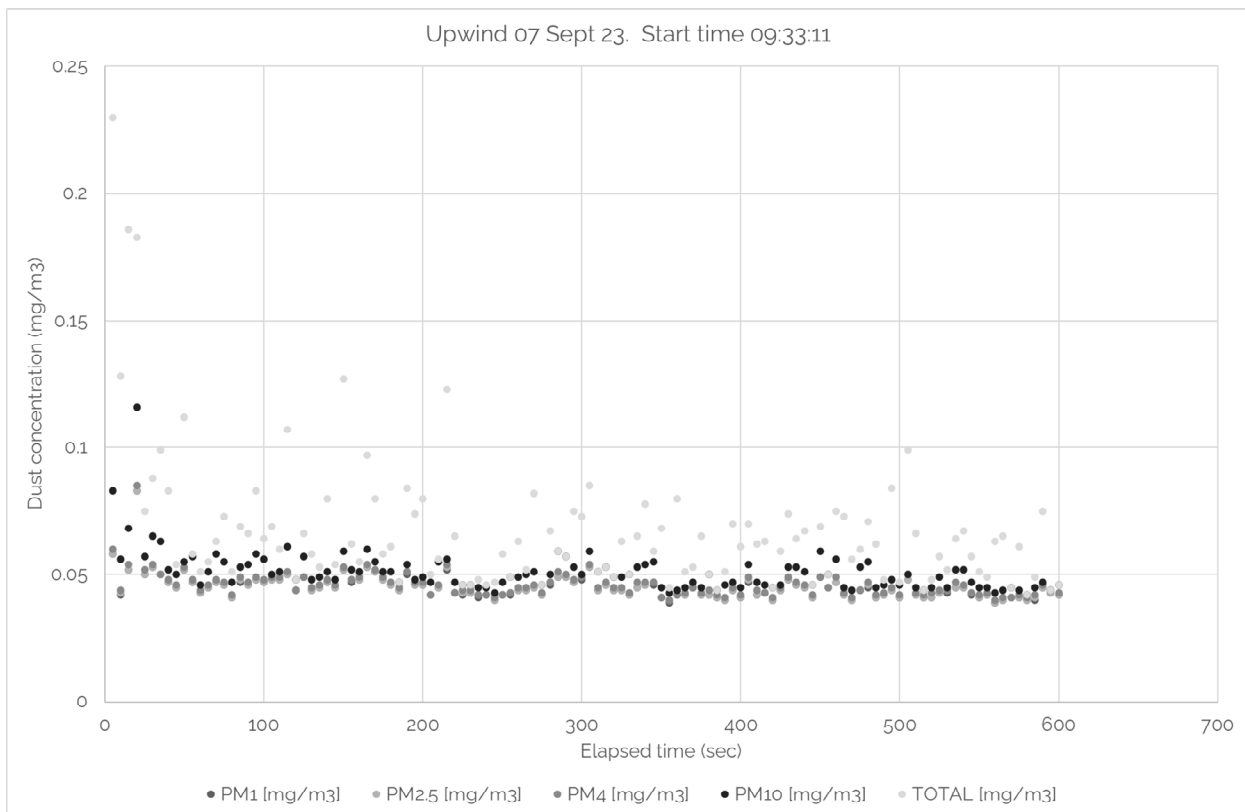


Figure 3.33: 'Upwind' location dust monitoring results for 07 September 2023

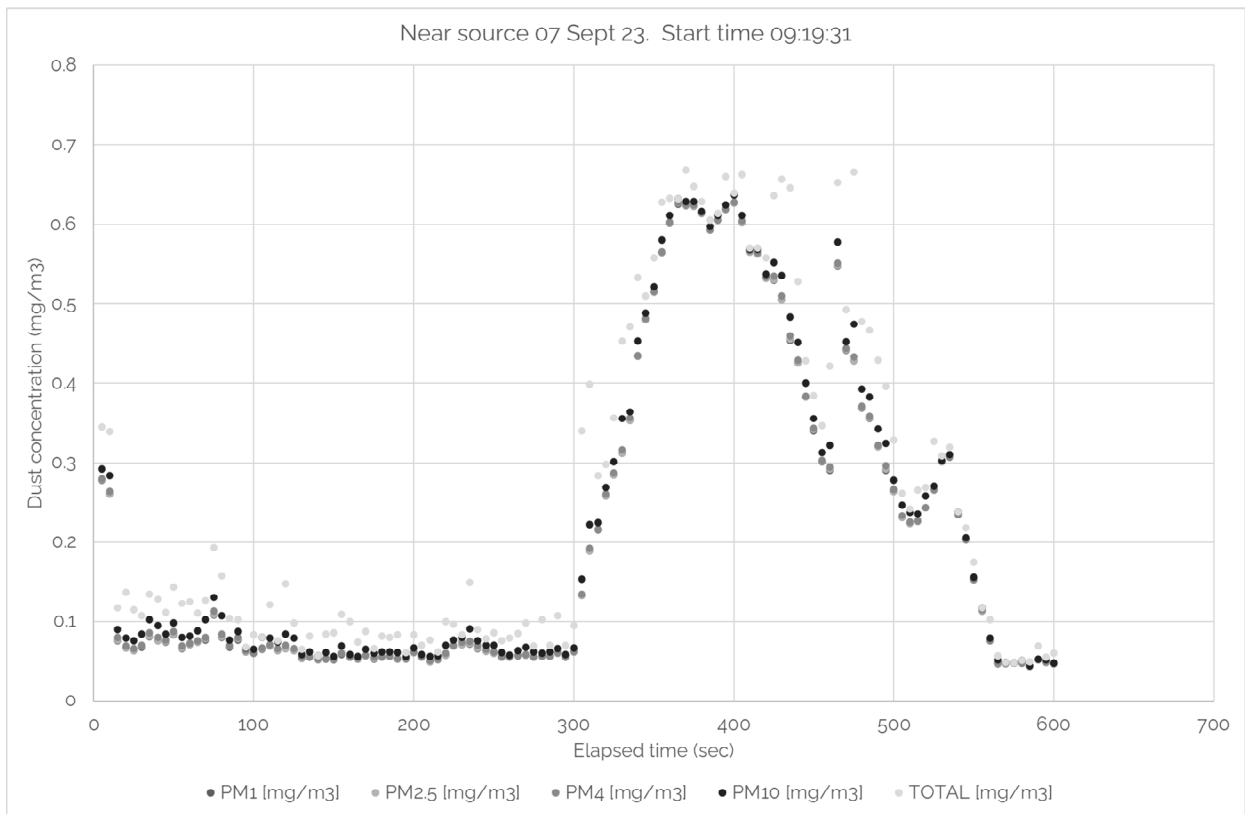


Figure 3.34: 'Near source' location dust monitoring results for 07 September 2023

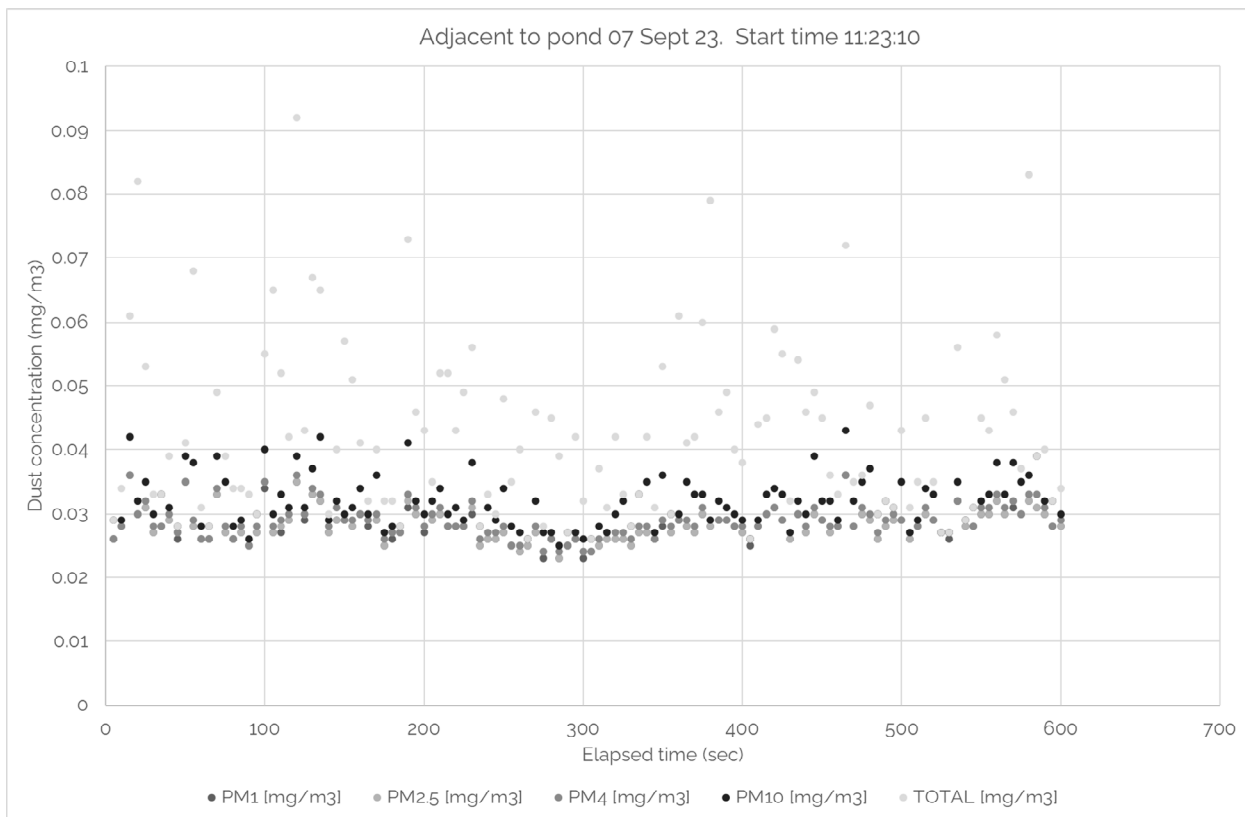


Figure 3.35: 'Pond' location dust monitoring results for 07 September 2023

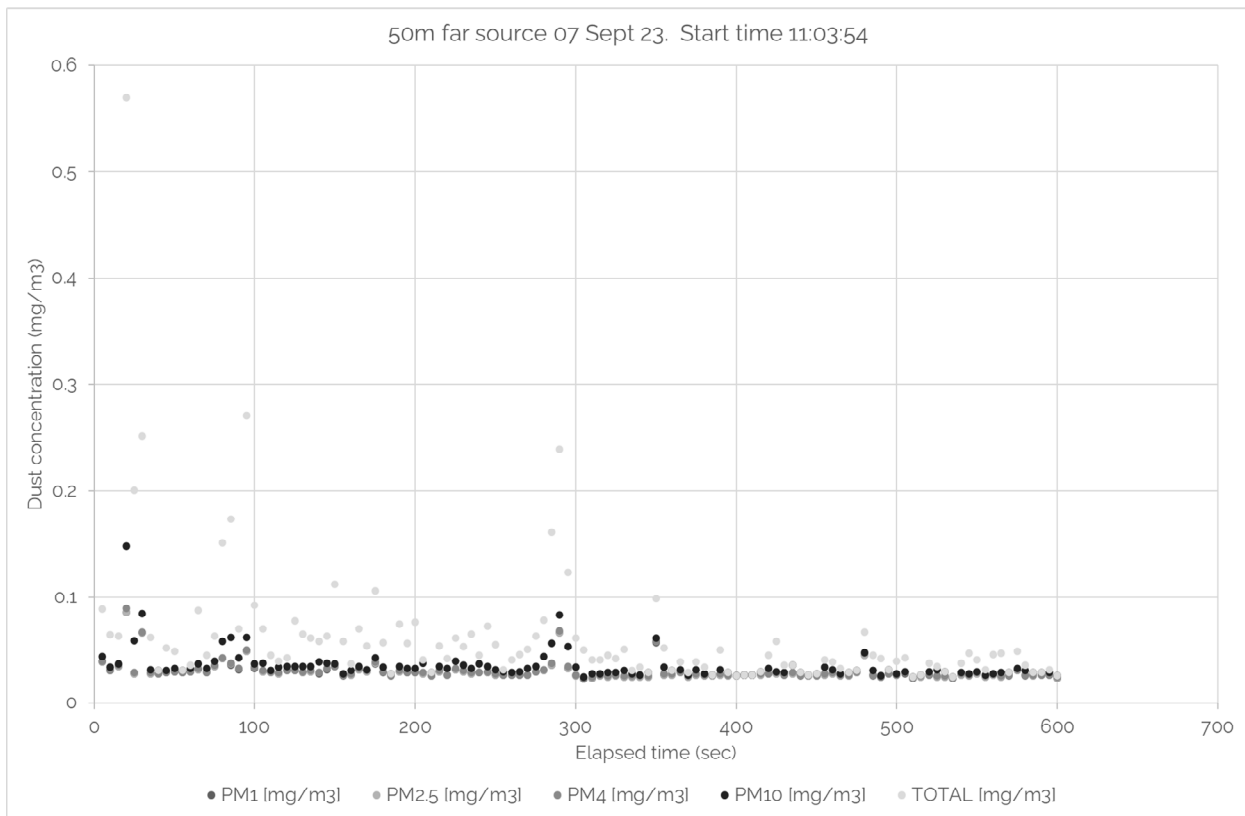


Figure 3.36: '50m far source' location dust monitoring results for 07 September 2023

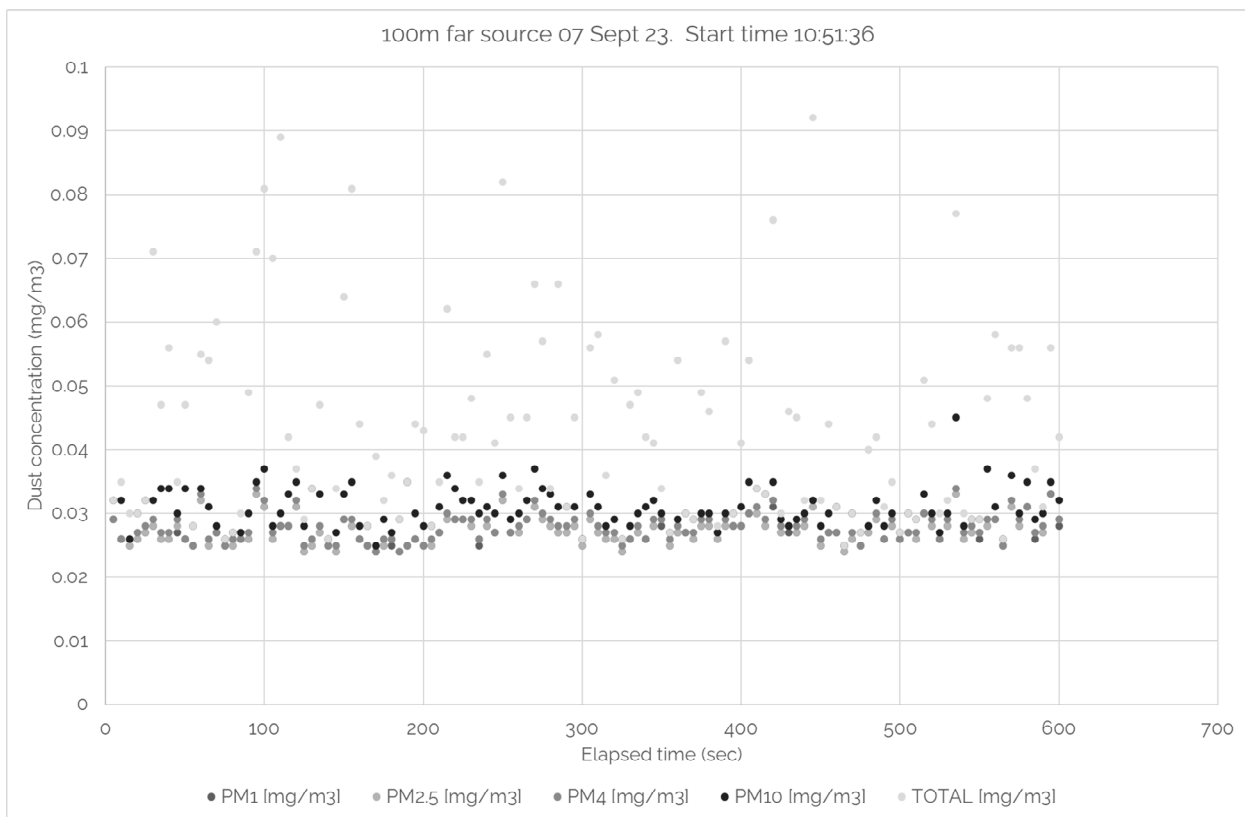


Figure 3.37: '100m far source' location dust monitoring results for 07 September 2023

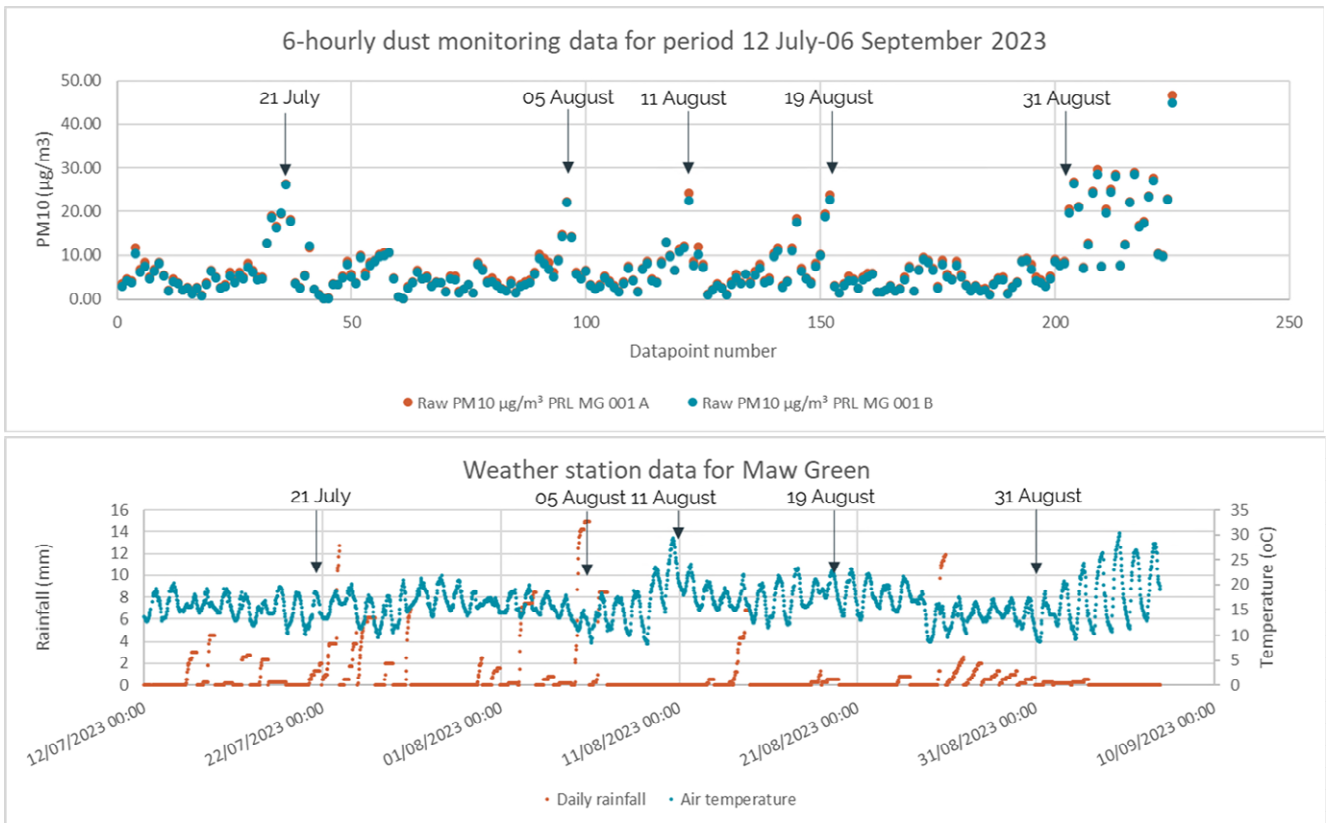


Figure 3.38: Mapping dust monitoring data to site weather station data

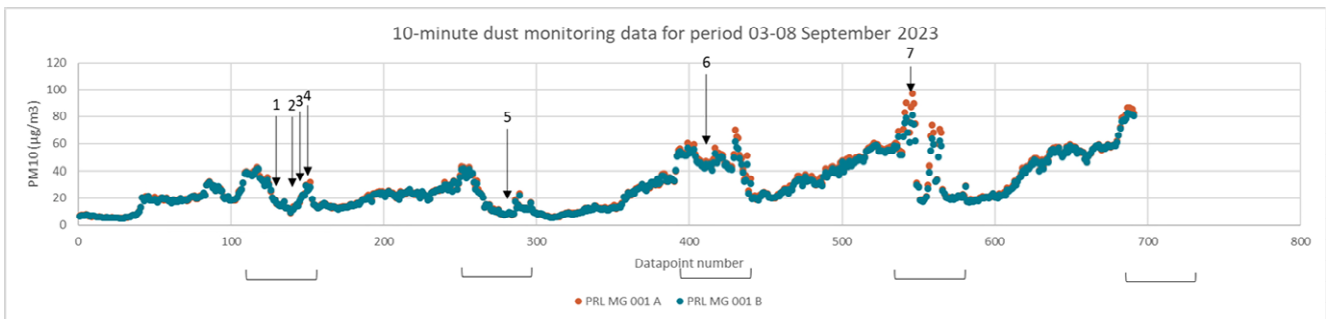


Figure 3.39: PurpleAir dust monitoring data for the Maw Green STF for the comparable time period of Hydrock hand-held dust monitoring

The brackets underneath the data in Figure 3.39 identify the daily operational time of the STF.

Table 3.9: TSI DustTrak summary concentrations for the 5-10 minute handheld monitoring data periods for the 'near-source' location

Arrow marker	1	2	3	4	5	6	7
Time/date	04/09/2023 12:02:41	04/09/2023 13:43:23	04/09/2023 14:49:40	04/09/2023 15:20:56	05/09/2023 12:48:11	06/09/2023 10:58:23	07/09/2023 09:19:31
PM10 Average [µg/m³]	33	53	32	40	31	61	219
PM10 Minimum [µg/m³]	18	12	23	21	-17	50	45
PM10 Maximum [µg/m³]	75	641	101	341	1330	252	637

3.8 Supplementary air monitoring at Maw Green using lower LOD

Supplementary air monitoring was undertaken at Maw Green between 04-07 September 2023. The sampling, undertaken by Lucion Services Ltd and observed by Hydrock was designed to investigate whether it was possible to detect airborne asbestos fibre concentrations at a lower detection limit than that of the UKAS-accredited method employed by Provectus. This was achieved by adapting Lucion's UKAS-accredited method by:

- » Increasing the sampled volume of air from 1440 litres to 3750 litres
- » Increasing the number of image fields analysed on the SEM

The resultant limit of quantification (LoQ) dropped from 500 f/m³ (0.0005f/ml) to 50f/m³ (0.00005f/ml).

Three sampling locations were used each day at differing downwind distances from the mechanical screener ('near source', '50m far source' and '100m far source' with the objective of identifying measurable changes in airborne fibre concentrations along a downwind transect. An upwind sample was also taken.

In accordance with the scope of work, Lucion collected twelve samples over a three-day period between 04-06 September 2023. Sampling locations were as follows, with samples collected each day:

- » One upwind sample, approximately 50m from the main processing area.
- » One downwind sample directly adjacent to the main processing area.
- » One downwind sample, approximately 50m from the main processing area.
- » One downwind sample, approximately 100m from the main processing area.

All air monitoring took place during a period of hot, dry, settled weather conditions. Lucion was unable to be on-site on 07 September 2023. Thames Laboratories (the UKAS accredited company commissioned by Provectus to undertake daily SEM monitoring at Maw Green) fulfilled the scope for the final day of sample collection, and SEM analysis on the 07 September samples was conducted by IOM Laboratories.

Results of the Lucion SEM monitoring are presented in Table 3.10 below. The full Lucion report including daily diaries, field sample collection information, SEM data, calibration and training records is presented in Appendix I.

Table 3.10: Lucion SEM air monitoring results

Job number & Sample Number	Sampled air volume	Respirable fibres*	No of fields searched	Total fibre concen.	Asbestos fibre concn.	Detection limit based on 95% confidence (f/ml)	Reported result (conc. f/ml)
593515-1-1	3838	1.5	240	0.0001	0.0000	0.00003	<0.00003
593515-1-2	3813	0	240	0.0000	0.0000	0.00003	<0.00003
593515-1-3	3720	1	240	0.0000	0.0000	0.00004	<0.00004
593515-2-1	3292	2.5	240	0.0001	0.0000	0.00005	<0.00005
593515-3-1	3751	0	240	0.0000	0.0000	0.00004	<0.00004
593515-3-2	3751	1	240	0.0000	0.0000	0.00004	<0.00004
593515-3-3	3751	0	240	0.0000	0.0000	0.00004	<0.00004
593515-4-1	3751	1.5	240	0.0001	0.0000	0.00004	<0.00004
593515-5-1	3736	0	240	0.0000	0.0000	0.00004	<0.00004
593515-5-2	3766	0	240	0.0000	0.0000	0.00003	<0.00003
593515-5-3	3751	0	240	0.0000	0.0000	0.00004	<0.00004

593515-6-1 | 3751 | 0 | 240 | 0.0000 | 0.0000 | 0.00004 | <0.00004

For all twelve samples collected zero amphibole or chrysotile fibres were found, and therefore the reported total asbestos fibre concentration is recorded as between 0.00003 f/ml and 0.00005 f/ml for all samples taken.

Detection limit is reported as the numerical fibre concentration below which, with 95% probability, the actual concentration lies when no fibres are detected. Detection limit depends on sampled volume of air and the examined filter area. The detection limit is determined in accordance with ISO14966.

Results of the Thames Laboratories/IOM monitoring are presented in Table 3.11 below. The Thames Laboratory/IOM results are presented in Appendix J.

Table 3.11: Thames/IOM SEM air monitoring results

Sample No.	Volume (l)	No. of Resp. Fibres Found	No. of Fields Searched	Total Fibres Fibre Conc (fml-1)	AMX Fibre No. of Resp. Fibres/Fibre Conc (fml-1)	CMX Fibre No. of Resp. Fibres/Fibre Conc (fml-1)	MMMF No. of Resp. Fibres/Fibre Conc (fml-1)	NAM Fibre No. of Resp. Fibres/Fibre Conc (fml-1)
J267581 IH674	3720	2.5	600	<0.00005*	0/<0.00005*	0/<0.00005*	2.5/<0.00005*	0/<0.00005*
J267581 IH675	3720	1	600	<0.00005*	0/<0.00005*	0/<0.00005*	0/<0.00005*	1/<0.00005*
J267581 IH676	3720	3	600	0.00005	0/<0.00005*	0/<0.00005*	3/<0.00005*	0/<0.00005*
J267581 IH677	3720	2	600	<0.00005*	1 / <0.00005*	0/<0.00005*	0/<0.00005*	1/<0.00005*

NB. AMX-Amphibole Asbestos CMX-Chrysotile Asbestos MMMF-Machine Made Mineral Fibres NAM-Non-Asbestos Mineral

* Detection Limit

Weather conditions during the sampling are detailed in Appendix K.

The daily 'near-source' SEM air sample taken by Thames Laboratories and analysed by IOM to a LoQ of 0.0005f/ml was taken alongside this supplemental monitoring. The reported results for that monitoring are included in the data presented in Section 3.2 and is summarised below alongside the closest supplementary monitoring point:

Table 3.12: Summary of near-source airborne asbestos air monitoring for 04-07 September 2023

Date	Thames Laboratories' 'standard' monitoring	Lucion/Thames lower LoQ monitoring
04 September 2023	1 chrysotile asbestos fibre detected (<0.0005f/ml)	No asbestos fibres detected (<0.00005f/ml)
05 September 2023	No asbestos detected (<0.0005f/ml)	No asbestos fibres detected (<0.00004f/ml)
06 September 2023	No asbestos detected (<0.0005f/ml)	No asbestos fibres detected (<0.00004f/ml)
07 September 2023	No asbestos detected (<0.0005f/ml)	No asbestos fibres detected (<0.00005f/ml)

3.9 Supplementary soil sampling at Maw Green

Provectus commissioned more detailed soil laboratory testing for soil samples taken from the Maw Green STF during August 2023. Samples were variously taken of stockpiled soil to be processed, the finer fraction of screened soil, and the middle fraction of screened soil after it had passed through the picking

station. Samples were also taken of the sedimented dust on the concrete treatment pad. The samples were submitted to Eurofins Chemtest for testing using a UKAS-accredited three-stage asbestos in soil quantification method. The results for those samples are shown in Table 3.13 for comparison. The laboratory certificates are provided in Appendix L.

Table 3.13: Pre-, and post- screening and picking soil sample data from Maw Green

Sample ID	Asbestos Identification (Stage 1)	Asbestos by Gravimetry (Stage 2)	Asbestos By Fibre Counting (Stage 3)
ASB 12/PS14/08	Fibres/Clumps, Chrysotile	0.001	<0.001
ASB 12/AS14/08	Fibres/Clumps, Chrysotile	0.003 ↑	<0.001
ASB 12/AP14/08	No Asbestos Detected	- ↓	-
ASB 12/PS15/08	No Asbestos Detected	-	-
ASB 12/AS15/08	No Asbestos Detected	- →	-
ASB 12/AP15/08	Fibres/Clumps, Chrysotile	<0.001 ↑	<0.001
ASB 12/PS16/08	Insulation, Amosite, Chrysotile	0.008	<0.001
ASB 12/AS16/08	No Asbestos Detected	- ↓	-
ASB 12/AP16/08	Fibres/Clumps, Amosite	<0.001 ↓	<0.001
ASB 12/PS21/08	Fibres/Clumps, Board, Amosite, Chrysotile	0.005	<0.001
ASB 12/AS21/08	Fibres/Clumps, Chrysotile	0.002 ↓	<0.001
ASB 12/AP21/08	Fibres/Clumps, Chrysotile	<0.001 ↓	<0.001
ASB 12/PS22/08	Fibres/Clumps, Chrysotile	0.001	<0.001
ASB 12/AS22/08	Fibres/Clumps, Chrysotile	0.001 →	<0.001
ASB 12/AP22/08	Fibres/Clumps, Chrysotile	0.002 ↑	<0.001
ASB 12/PS23/08	Fibres/Clumps, Amosite, Chrysotile	0.002	<0.001
ASB 12/AS23/08	Fibres/Clumps, Chrysotile	<0.001 ↓	<0.001
ASB 12/AP23/08	Fibres/Clumps, Chrysotile	0.002 →	<0.001
ASB 12/PS24/08	Fibres/Clumps Chrysotile	<0.001	<0.001
ASB 12/AS24/08	Fibres/Clumps Chrysotile	0.001 ↑	<0.001
ASB 12/AP24/08	Fibres/Clumps Amosite	0.003 ↑	<0.001
ASB 12/PS25/08	- No Asbestos Detected	-	-
ASB 12/AS25/08	Fibres/Clumps Chrysotile	0.002 ↑	<0.001
ASB 12/AP25/08	Fibres/Clumps Amosite	0.001 ↑	<0.001

Table notes:

All values quoted as %wt/wt (equivalent to mg/kg).

Sample ID codes are: ASB12 = soil treatment batch number; PS = soil input pre-screening; AS = fines fraction after screening; AP = mid-size fraction after picking; xx/xx = day/month of sample date.

The arrows indicate whether the reported sample concentration after screening or after picking is higher, lower or the same as that reported for the pre-screening sample.

The summarised data identifies three days out of eight days when the reported post-screening concentration exceeded the pre-screening concentration. For the remaining five days the post-screening concentration was either the same or lower than that reported for the pre-screening sample. The influence of sampling and analytical error on this data is not known. The heterogeneity of the pre-screened soil is expected to be higher than that in the post-screened soil due to the nature of the screening process.

3.10 Supplementary soil sampling at Maw Green using an alternative fibre counting method

In addition to the additional UKAS-accredited testing outlined in Section 3.9, Provectus sent additional samples to DETS for testing using a more sensitive fibre counting method that reports the number of respirable asbestos fibres in the PM10 dust fraction of the soil sample (i.e. that fraction that is more likely to become airborne due to soil disturbance activities). Supplementary soil sampling was also undertaken at Maw Green between 04-07 September 2023 by Hydrock. The soil sampling methods used by both Provectus and Hydrock adhered to Hydrock's internal standard procedures, specifically 'FP004 – Sampling of Asbestos in Soil,' revision 0, dated July 21, 2023. A copy of the field procedure is included in Appendix P.

The fibre count results are numerically higher compared to the 'standard' testing results quoted in %wt/wt in Table 3.13 above because the analytical method concentrates the respirable asbestos fibres within the PM10 size fraction of the soil sample, the latter being a very small fraction of the overall soil being sampled. There is no simple equivalence between the two test methods as the analytical results reported for both methods are calculated on the basis of the dimensions of the individual fibres identified in the samples, and relate to different size fractions of the sampled soil. However, a result of 0.001%wt/wt for the 'standard' method is equivalent to approximately 500 chrysotile fibres per mg soil (assuming consistent fibre dimensions of 1µm diameter and 10 µm length). Note that whilst the f/mg results are equated to the dust fraction of the soil only, the 'standard' testing results are equated to the 'as received' sample. The DETS method concentrates respirable fibres into the PM10 size fraction and therefore the results need to be corrected for that before any comparison of method results is made. The PM10 size fraction of the soil samples submitted by Hydrock to DETS ranged from 0.001-0.006% (based on an original sub-sample size of approximately 8-10g and a PM10 filtrate sub-sample that was analysed of between 0.0001-0.0005g). The conversion factor for converting the reported fibre count results to an equivalent concentration for the soil as a whole is approximately x0.00001-0.00006 on this basis. A reported fibre count of 10,000 f/mg for the PM10 size fraction therefore equates to a maximum concentration of 0.6 f/mg for the soil as a whole (i.e. approximately 0.000001%wt/wt assuming the fibre dimensions of 1µm diameter and 10 µm length). The detection limit for the DETS method is approximately 2500 f/mg based on the counting of one fibre in 200 microscope fields analysed across the filter and a sub-sample filtrate mass of 0.1 mg.

Samples were taken of soil designed for treatment (pre-screened soil), post-screened fine material, and tracked/sedimented soil dust on the STF concrete hardstanding (slab).

Samples of the pre-screened soil were collected by Hydrock at random intervals from the excavator bucket over an approximate 3-hour period each day. Simultaneously, samples of the fine materials were obtained at the same intervals from the fines stockpile directly from the processor.

Composite sampling locations for the 'slab samples' are illustrated in annotated photographs 9, 19, 25, and 23, which can be found in Appendix N.

Provectus obtained a total of 36 soil samples and Hydrock obtained a total of 24 soil samples for analysis by DETS. Further details of the samples locations, dates and analysis results are presented in Table 3.14 and Table 3.15 and below.

Laboratory certificates for the DETS analysis of Provectus and Hydrock samples are presented in Appendix M.

Table 3.14: Provectus soil sample DETS results

Sample Ref. Number*	Sample Location	Asbestos Screen Description	Respirable Fibre Concentration (f/mg)
ASB 12/PS 14/08	Pre-screen stockpile	Not detected	21700
ASB 12/AS 14/08	Post-screen stockpile (Fines)	Chrysotile present in bundles	52400
ASB 12/AP 14/08	After picking station (mid-size)	Amosite & Chrysotile present in microscopic insulation	44700
ASB 12/PS 15/08	Pre-screen stockpile	Chrysotile present in bundles	44700
ASB 12/AS 15/08	Post-screen stockpile (Fines)	Chrysotile present in microscopic insulation debris & bundles	34500
ASB 12/PS 16/08	Pre-screen stockpile	Not detected	28100
ASB 12/AS 16/08	Post-screen stockpile (Fines)	Not detected	58700
ASB 12/AP 16/08	After picking station (mid-size)	Not detected	42100
ASB 12/PS 17/08	Pre-screen stockpile	Chrysotile present in bundles	17900
ASB 12/AS 17/08	Post-screen stockpile (Fines)	Not detected	28100
ASB 12/AP 17/08	After picking station (mid-size)	Not detected	21700
ASB 12/PS 18/08	Pre-screen stockpile	Not detected	7660
ASB 12/AS 18/08	Post-screen stockpile (Fines)	Not detected	19200
ASB 12/AP 18/08	After picking station (mid-size)	Amosite & Chrysotile present in microscopic insulation	28100
ASB 12/PS 21/08	Pre-screen stockpile	Chrysotile fibres present in microscopic insulation	19200
ASB 12/AS 21/08	Post-screen stockpile (Fines)	Not detected	12800
ASB 12/AP 21/08	After picking station (mid-size)	Amosite present as bundles	24300
ASB 12/PS 22/08	Pre-screen stockpile	Amosite & Chrysotile present as fibre bundles	5110
ASB 12/AS 22/08	Post-screen stockpile (Fines)	Chrysotile present in bundles	16600
ASB 12/AP 22/08	After picking station (mid-size)	Chrysotile present in bundles	39600
Pad 17/08	Concrete slab	Not detected	12800
Pad 18/08	Concrete slab	Not detected	15300
Pad 21/08	Concrete slab	Chrysotile present in microscopic cement and as loose bundles	25500
Pad 22/08	Concrete slab	Not detected	30600
ASB 12/PS 23/08	Pre-screen stockpile	Not reported	38300

ASB 12/AS 23/08	Post-screen stockpile (Fines)	Not reported	16600
ASB 12/AP 23/08	After picking station (mid-size)	Not reported	15300
ASB 12/PS 24/08	Pre-screen stockpile	Not reported	28100
ASB 12/AS 24/08	Post-screen stockpile (Fines)	Not reported	17900
ASB 12/AP 24/08	After picking station (mid-size)	Not reported	48500
ASB 12/PS 25/08	Pre-screen stockpile	Not reported	17900
ASB 12/AS 25/08	Post-screen stockpile (Fines)	Not reported	30600
ASB 12/AP 25/08	After picking station (mid-size)	Not reported	30600
Pad 23/08	Concrete slab	Not reported	20400
Pad 24/08	Concrete slab	Not reported	6390
Pad 25/08	Concrete slab	Not reported	25500

Table 3.15: Hydrock soil sample DETS results

Sample Ref. Number*	Sample Location	Asbestos Screen Description	Respirable Fibre Concentration (f/mg)
Sample date: 04 September 2023			
SP/PS/4.9.23/-1	Pre-screen stockpile	Chrysotile present as fibre bundles	19200
SP/PS/4.9.23/-2	Pre-screen stockpile	Chrysotile present as fibre bundles	28100
SP/F/4.9.23/-1	Post-screen stockpile (Fines)	Chrysotile present as fibre bundles	20400
SP/F/4.9.23/-2	Post-screen stockpile (Fines)	Chrysotile present as fibre bundles	17900
SLAB/F/4.9.23/-1	Concrete slab	Chrysotile present as fibre bundles	38300
SLAB/F/4.9.23/-2	Concrete slab	Chrysotile present as fibre bundles	21700
Sample date: 05 September 2023			
SP/PS/5.9.23/-1	Pre-screen stockpile	Amosite present as fibre bundles	12800
SP/PS/5.9.23/-2	Pre-screen stockpile	Chrysotile present as fibre bundles	24300
SP/F/5.9.23/-1	Post-screen stockpile (Fines)	Amosite present as fibre bundles	26800
SP/F/5.9.23/-2	Post-screen stockpile (Fines)	Chrysotile present as fibre bundles	29400
SLAB/F/5.9.23/-1	Concrete slab	Chrysotile present in microscopic cement fragment	29400
SLAB/F/5.9.23/-2	Concrete slab	Chrysotile present as fibre bundles	12800
Sample date: 06 September 2023			

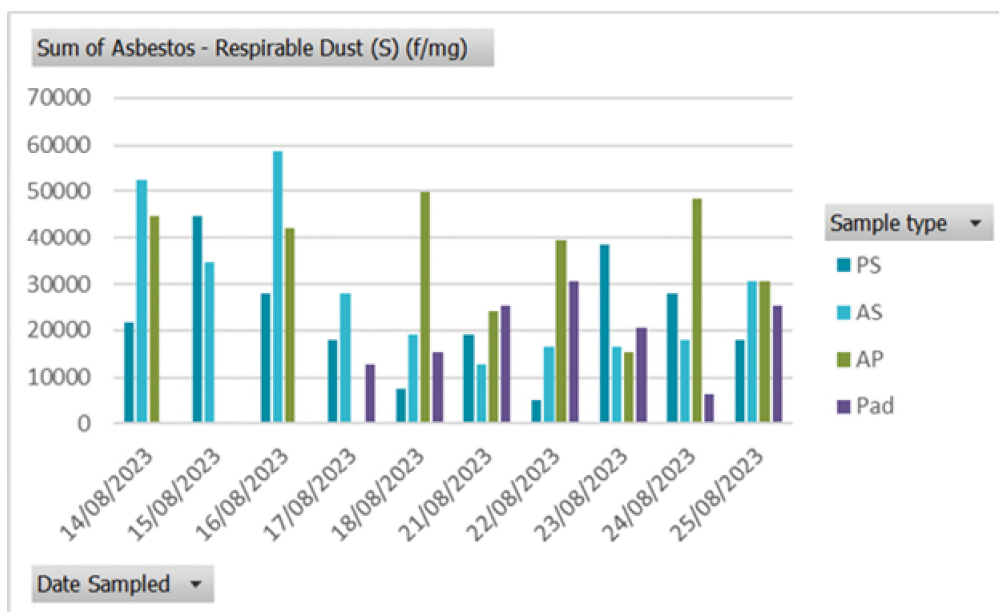
SP/PS/6.9.23/-1	Pre-screen stockpile	Bundle of Chrysotile fibres	23000
SP/PS/6.9.23/-2	Pre-screen stockpile	Not Detected	25500
SP/F/6.9.23/-1	Post-screen stockpile (Fines)	Not Detected	5110
SP/F/6.9.23/-2	Post-screen stockpile (Fines)	Bundle of Chrysotile fibres	16600
SLAB/F/6.9.23/-1	Concrete slab	Not Detected	21700
SLAB/F/6.9.23/-2	Concrete slab	Bundle of Chrysotile fibres	12800

Sample date: 07 September 2023

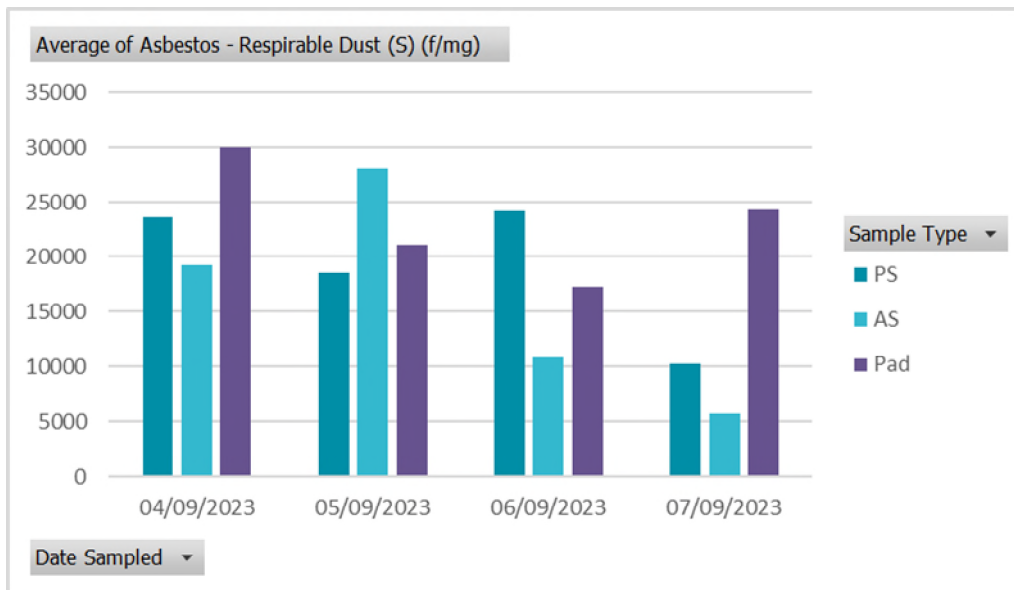
SP/PS/7.9.23/-1	Pre-screen stockpile	Not Detected	12800
SP/PS/7.9.23/-2	Pre-screen stockpile	Not Detected	7660
SP/F/7.9.23/-1	Post-screen stockpile (Fines)	Bundle of Chrysotile fibres	5110
SP/F/7.9.23/-2	Post-screen stockpile (Fines)	Bundle of Chrysotile fibres	6390
SLAB/F/7.9.23/-1	Concrete slab	Chrysotile present in microscopic cement debris	12800
SLAB/F/7.9.23/-2	Concrete slab	Chrysotile present in microscopic cement debris	35800

The maximum reported concentration in the tables above of approximately 60,000 f/mg equates to an equivalent %wt/wt concentration for the soil sample as a whole of approximately 0.000001-0.000007 %wt/wt.

A graphical representation of the data is presented in Figure 3.40 below:



(a)



(b)

Figure 3.40: Detailed fibre counting soil analysis for samples from Maw Green STF (a) Provectus, (b) Hydrock

PS = pre-screening, AS = after (post) screening, AP = after picking, Pad = STF concrete pad (slab)

Appendix A ERQ SEM air monitoring data tables

Table A1: ERG PCOM air monitoring data from April 2018 to December 2019

Date	Asbestos Analyst	Duration of test	Number of Fixed Monitoring Tests	Maximum Concentration	Detection Limit
08/05/2018	Envirochem	1hr 13mins	5	<0.01f/ml	0.001f/ml
16/05/2018	Envirochem	1hr 1min	4	<0.01f/ml	0.002f/ml
22/05/2018	Envirochem	1hr 1min	4	<0.01f/ml	0.001f/ml
13/06/2018	Envirochem	1hr 9mins	5	<0.01f/ml	0.002f/ml
11/07/2018	Envirochem	1hr	0	<0.01f/ml	0.001f/ml
19/07/2018	Envirochem	1hr 1min	4	<0.01f/ml	0.002f/ml
23/07/2018	Riverside	31mins	3	<0.01f/ml	0.01f/ml
24/07/2018	Riverside	1hr 10mins	4	<0.01f/ml	0.01f/ml
25/07/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
26/07/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
27/07/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
30/07/2018	Riverside	1hr 8mins	4	<0.01f/ml	0.01f/ml
31/07/2018	Riverside	1hr 8mins	4	<0.01f/ml	0.01f/ml
01/08/2018	Riverside	1hr 13mins	4	<0.01f/ml	0.01f/ml
02/08/2018	Riverside	1hr 6mins	4	<0.01f/ml	0.01f/ml
03/08/2018	Riverside	1hr 10mins	4	<0.01f/ml	0.01f/ml
06/08/2018	Riverside	1hr 15mins	4	<0.01f/ml	0.01f/ml
07/08/2018	Riverside	1hr 11mins	4	<0.01f/ml	0.01f/ml
08/08/2018	Riverside	1hr 9mins	4	<0.01f/ml	0.01f/ml
09/08/2018	Riverside	1hr 8mins	4	<0.01f/ml	0.01f/ml
10/08/2018	Riverside	1hr 10mins	4	<0.01f/ml	0.01f/ml
13/08/2018	Riverside	1hr 11mins	4	<0.01f/ml	0.01f/ml
14/08/2018	Riverside	1hr 6mins	4	<0.01f/ml	0.01f/ml
15/08/2018	Riverside	1hr 6mins	4	<0.01f/ml	0.01f/ml
16/08/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
17/08/2018	Riverside	1hr 9mins	4	<0.01f/ml	0.01f/ml
20/08/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
21/08/2018	Riverside	1hr 7mins	4	<0.01f/ml	0.01f/ml
22/08/2018	Riverside	59mins	4	<0.01f/ml	0.01f/ml
23/08/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
24/08/2018	Riverside	1hr 6mins	4	<0.01f/ml	0.01f/ml
28/08/2018	Riverside	1hr 4mins	4	<0.01f/ml	0.01f/ml
29/08/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml

30/08/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
31/08/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
05/09/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
06/09/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
07/09/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
11/09/2018	Riverside	1hr 6mins	4	<0.01f/ml	0.01f/ml
12/09/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
13/09/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
14/09/2018	Riverside	1hr 28mins	4	<0.01f/ml	0.01f/ml
17/09/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
21/09/2018	Riverside	1hr 4mins	4	<0.01f/ml	0.01f/ml
28/09/2018	Riverside	1hr 4mins	4	<0.01f/ml	0.01f/ml
08/10/2018	Riverside	1hr 15mins	4	<0.01f/ml	0.01f/ml
09/10/2018	Riverside	1hr 12mins	4	<0.01f/ml	0.01f/ml
10/10/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
11/10/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
12/10/2018	Riverside	1hr 3mins	4	<0.01f/ml	0.01f/ml
15/10/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
16/10/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
06/11/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
07/11/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
14/11/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
15/11/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
19/11/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
22/11/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
28/11/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
29/11/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
04/12/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
07/12/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
12/12/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
13/12/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
14/12/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
19/12/2018	Riverside	1hr	4	<0.01f/ml	0.01f/ml
03.01.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
11.01.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
17.01.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml

23.01.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
30.01.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
13.02.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
20.02.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
25.02.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
07.03.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
14.03.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
20.03.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
26.03.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
28.03.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
02.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
04.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
10.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
11.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
12.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
15.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
16.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
17.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
18.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
23.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
26.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
29.04.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
03.05.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
07.05.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
09.05.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
16.05.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
21.05.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
23.05.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
28.05.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
30.05.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
04.06.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
06.06.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
10.06.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
11.06.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
12.06.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
13.06.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml

14.06.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
18.06.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
20.06.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
25.06.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
27.06.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
04.07.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
09.07.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
11.07.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
16.07.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
18.07.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
23.07.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
25.07.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
30.07.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
01.08.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
06.08.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
08.08.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
13.08.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
15.08.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
05.09.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
10.09.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
12.09.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
19.09.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
24.09.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
26.09.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
08.10.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
10.10.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
15.10.2019	Riverside	40 mins	4	<0.01f/ml	0.01f/ml
17.10.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
22.10.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
24.10.2019	Riverside	40 mins	4	<0.01f/ml	0.01f/ml
28.11.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
03.12.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
05.12.2019	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml

Table A2: ERQ PCOM air monitoring data from February 2020 to July 2021

Date	Asbestos Analyst	Duration of test	Number of Fixed Monitoring Tests	Maximum Concentration	Detection Limit
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05.02.20	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
06.02.20	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
11.02.20	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
13.02.20	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
18.02.20	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
20.02.20	Riverside	1 Hour	4	<0.01f/ml	0.01f/ml
27.02.20	Riverside	40 mins	4	<0.01f/ml	0.01f/ml
30.06.20	Riverside	40 mins	4	<0.01f/ml	0.01f/ml
30.06.20	Riverside	1 Hour			
2.7.20	Riverside	40	4	<0.01f/ml	0.01f/ml
2.7.20	Riverside	92			
6.7.20	Riverside	180			
6.7.20	Riverside	40	10	<0.01f/ml	0.01f/ml
9.7.20	Riverside	65	4	<0.01f/ml	0.01f/ml
9.7.20	Riverside	60			
14.7.20	Riverside	40	4	<0.01f/ml	0.01f/ml
16.7.20	Riverside	40	4	<0.01f/ml	0.01f/ml
21.7.20	Riverside	40	4	<0.01f/ml	0.01f/ml
24.7.20	Riverside	200	16	invalid	invalid
24.7.20	Riverside	200	4	<0.001f/ml	0.0005f/ml
24.7.20	Riverside	240			
28.7.20	Riverside	40	4	<0.01f/ml	0.01f/ml
30.7.20	Riverside	40	4	<0.01f/ml	0.01f/ml
30.7.20	Riverside	60			
6.8.20	Riverside	60	4	<0.01f/ml	0.01f/ml
19.8.20	Riverside	200	8	<0.0005f/ml	0.0005f/ml
3.9.20	Riverside	40	4	<0.01f/ml	0.01f/ml
3.9.20	Riverside	254			
4.9.20	Riverside	40	4	<0.01f/ml	0.01f/ml
7.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
8.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
9.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
10.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
11.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
14.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
14.9.20	Riverside	60			

15.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
17.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
18.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
17.9.20	Riverside	200	16	invalid	invalid
21.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
22.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
23.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
24.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
25.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
29.9.20	Riverside	60	4	<0.01f/ml	0.01f/ml
29.9.20	Riverside	60			
13.10.20	Riverside	60	8	<0.01	0.01
15.10.20	Riverside	40	4	<0.01	0.01
15.10.20	Riverside	48			
7.12.20	Riverside	40	4	<0.01	0.01
8.12.20	Riverside	40	4	<0.01	0.01
8.12.20	Riverside	105			
9.12.20	Riverside	60	4	<0.01	0.01
9.12.20	Riverside	60			
10.12.20	Riverside	40	4	<0.01	0.01
10.12.20	Riverside	87			
10.12.20	Riverside	86			
11.12.20	Riverside	40	4	<0.01	0.01
11.12.20	Riverside	98			
11.12.20	Riverside	99			
15.12.20	Riverside	60	4	<0.01	0.01
15.12.20	Riverside	60			
16.12.20	Riverside	60	4	<0.01	0.01
16.12.20	Riverside	60			
17.12.20	Riverside	40	4	<0.01	0.01
17.12.20	Riverside	95			
18.12.20	Riverside	120			
18.12.20	Riverside	40	4	<0.01	0.01
11.01.21	Riverside	40	4	<0.01	0.01
11.01.21	Riverside	106			
13.01.21	Riverside	60	4	<0.01	0.01

13.01.21	Riverside	60			
15.01.21	Riverside	60	4	<0.01	0.01
15.01.21	Riverside	60			
18.01.21	Riverside	40	4	<0.01	0.01
20.01.21	Riverside	40	4	<0.01	0.01
20.01.21	Riverside	95			
22.01.21	Riverside	40	4	<0.01	0.01
22.01.21	Riverside	53			
24.02.21	Riverside	40	4	<0.01	0.01
26.02.21	Riverside	60	4	<0.01	0.01
26.02.21	Riverside	60			
02.03.21	Riverside	60	4	<0.01	0.01
04.03.21	Riverside	40	4	<0.01	0.01
09.03.21	Riverside	40	4	<0.01	0.01
11.03.21	Riverside	60	4	<0.01	0.01
16.03.21	Riverside	100	8	<0.0005	0.0005
16.03.21	Riverside	134	6	<0.0005	0.0005
16.03.21	Riverside	134	6	<0.0005	0.0005
06.04.21	Riverside	60			
06.04.21	Riverside	60	4	<0.01	0.01
09.04.21	Riverside	60			
09.04.21	Riverside	60	4	<0.01	0.01
12.05.21	Riverside	60	4	<0.01	0.01
12.05.21	Riverside	60			
13.05.21	Riverside	60	3	<0.01	0.01
13.05.21	Riverside	60	1	<0.04	0.04
13.05.21	Riverside	60			
27.05.21	Riverside	60			
27.05.21	Riverside	60	4	<0.01	0.01
28.05.21	Riverside	60	4	<0.01	0.01
28.05.21	Riverside	61			
02.06.21	Riverside	40	4	<0.01	0.01
04.06.21	Riverside	40	4	<0.01	0.01
09.06.21	Riverside	100	4	<0.0005	0.001
25.06.21	Riverside	100	4	<0.01	0.01
05.07.21	Riverside	40	4	<0.01	0.01

05.07.21	Riverside	44			
09.07.21	Riverside	100	8	<0.0005	0.0005
12.07.21	Riverside	40	4	<0.01	0.01

Table A3: ERQ SEM air monitoring data from September 2021 to December 2021

Date	Asbestos Analyst/Lab	Duration of test (min)	Volume (l)	Number of Fixed Monitoring Tests	Maximum Concentration of Asbestos Fibres (f/ml)	Detection Limit (f/ml)
06.09.21	IOM		1440	1	<0.0005	0.0005
07.09.21	IOM		1440	1	<0.0005	0.0005
08.09.21	IOM		1440	1	<0.0005	0.0005
09.09.21	IOM		1440	1	<0.0005	0.0005
10.09.21	IOM		1440	1	<0.0005	0.0005
13.09.21	IOM		1440	1	<0.0005	0.0005
14.09.21	IOM		1440	1	<0.0005	0.0005
15.09.21	IOM		1440	1	<0.0005	0.0005
16.09.21	IOM		1440	1	<0.0005	0.0005
17.09.21	IOM		1440	1	<0.0005	0.0005
21.09.21	IOM		1440	1	<0.0005	0.0005
22.09.21	IOM		1440	1	<0.0005	0.0005
23.09.21	IOM		1440	1	<0.0005	0.0005
24.09.21	IOM		1440	1	<0.0005	0.0005
27.09.21	IOM		1440	1	<0.0005	0.0005
28.09.21	IOM		1440	1	<0.0005	0.0005
06.10.21	IOM		1440	1	<0.0005	0.0005
07.10.21	IOM		1440	1	<0.0005	0.0005
11.10.21	Riverside	40		4	<0.01	0.01
11.10.21	Riverside	40				
20.10.21	IOM		1440	1	<0.0005	0.0005
01.11.21	IOM		1440	1	<0.0005	0.0005
15.11.21	IOM		1440	1	<0.0005	0.0005
16.11.21	IOM		1440	1	<0.0005	0.0005
17.11.21	IOM		1440	1	<0.0005	0.0005
18.11.21	IOM		1440	1	<0.0005	0.0005
19.11.21	IOM		1440	1	<0.0005	0.0005
22.11.21	IOM		1440	1	<0.0005	0.0005
23.11.21	IOM		1440	1	<0.0005	0.0005

24.11.21	IOM		1440	1	<0.0005	0.0005
25.11.21	IOM		1440	1	<0.0005	0.0005
26.11.21	IOM		1440	1	<0.0005	0.0005
29.11.21	IOM		1440	1	<0.0005	0.0005
30.11.21	IOM		1440	1	<0.0005	0.0005
01.12.21	IOM		1440	1	<0.0005	0.0005
02.12.21	IOM		1440	1	<0.0005	0.0005
02.12.21	IOM		1440	1	<0.0005	0.0005
03.12.21	IOM		1440	1	<0.0005	0.0005
06.12.21	IOM		1440	1	<0.0005	0.0005
07.12.21	IOM		1440	1	<0.0005	0.0005
08.12.21	IOM		1440	1	<0.0005	0.0005
08.12.21	IOM		1440	1	<0.0005	0.0005
09.12.21	IOM		1440	1	<0.0005	0.0005
10.12.21	IOM		1440	1	<0.0005	0.0005
10.12.21	IOM		1440	1	<0.0005	0.0005
13.12.21	IOM		1440	1	<0.0005	0.0005
14.12.21	IOM		1440	1	<0.0005	0.0005
15.12.21	IOM		1440	1	<0.0005	0.0005
16.12.21	IOM		1440	1	<0.0005	0.0005
17.12.21	IOM		1440	1	<0.0005	0.0005

Table A4: ERQ SEM air monitoring data from January 2022 to September 2023

Date	Sample Name	Sample Location	Asbestos Analyst	Volume (l)	Number of Fixed Monitoring Tests	Maximum Concentration of Asbestos Fibres - Amphibole (f/ml)	Maximum Concentration of Asbestos Fibres - Chrysotile (f/ml)	Detection Limit (f/ml)
14.01.22	ERQ 105+106	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.01.22	ERQ 107+108	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.01.22	ERQ 109+110	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.01.22	ERQ 111+112	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.01.22	ERQ 113+114	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.01.22	ERQ 115+116	Slide damaged						
21.01.22	ERQ 117+118	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.01.22	ERQ 119+120	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.01.22	ERQ 121+122	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.01.22	ERQ 123+124	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.01.22	ERQ 125+126	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.01.22	ERQ 127+128	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.01.22	ERQ 129+130	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.01.22	ERQ 131+132	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
31.01.22	ERQ 133+134	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01.02.22	ERQ 135+136	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.02.22	ERQ 137+138	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.02.22	ERQ 139+140	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.02.22	ERQ 141+142	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.02.22	ERQ 143+144	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.02.22	ERQ 145+146	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.02.22	ERQ 147+148	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

09.02.22	ERQ 149+150	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.02.22	ERQ 151+152	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.02.22	ERQ 153+154	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.02.22	ERQ 155+156	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.02.22	ERQ 157+158	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.02.22	ERQ 159+160	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.02.22	ERQ 161+162	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
17.02.22	ERQ 163+164	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.02.22	ERQ 165+166	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.02.22	ERQ 167+168	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.02.22	ERQ 169+170	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.02.22	ERQ 171+172	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.02.22	ERQ 173+174	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.02.22	ERQ 175+176	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.02.22	ERQ 177+178	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.02.22	ERQ 179+180	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.02.22	ERQ 181+182	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01.03.22	ERQ 183+184	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.03.22	ERQ 185+186	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.03.22	ERQ 187+188	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.03.22	ERQ 189+190	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.03.22	ERQ 191+192	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.03.22	ERQ 193+194	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.03.22	ERQ 195+196	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.03.22	ERQ 197+198	Asbestos Shed	IOM	1440	1	3 / 0.0005	0 / <0.0005	0.0005
10.03.22	ERQ 199+200	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005

10.03.22	ERQ 201+202	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.03.22	ERQ 203+204	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.03.22	ERQ 205+206	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.03.22	ERQ 207+208	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.03.22	ERQ 209+210	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.03.22	ERQ 211+212	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.03.22	ERQ 213+214	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.03.22	ERQ 215+216	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.03.22	ERQ 217+218	Asbestos Shed	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
22.03.22	ERQ 219+220	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.03.22	ERQ 221+222	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.03.22	ERQ 223+224	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
25.03.22	ERQ 225+226	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.03.22	ERQ 227+228	Storage Pad	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
28.03.22	ERQ 225A+226A	Asbestos Shed	IOM	1440	1	1.5 / <0.0005	0 / <0.0005	0.0005
29.03.22	ERQ 227A+228A	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
30.03.22	ERQ 229+230	Asbestos Shed	IOM	1440	1	0 / <0.0005	0.5 / <0.0005	0.0005
31.03.22	ERQ 231+232	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
01.04.22	ERQ 233+234	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01.04.22	ERQ 235+236	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.04.22	ERQ 237+238	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.04.22	ERQ 239+240	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.04.22	ERQ 241+242	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.04.22	ERQ 243+244	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.04.22	ERQ 245+246	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.04.22	ERQ 247+248	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

11.04.22	ERQ 249+250	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.04.22	ERQ 251+252	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.04.22	ERQ 253+254	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.04.22	ERQ 255+256	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.04.22	ERQ 257+258	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.04.22	ERQ 259+260	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.04.22	ERQ 261+262	Asbestos Shed	IOM	1440	1	0 / <0.0005	0.5 / <0.0005	0.0005
21.04.22	ERQ 263+264	Asbestos Shed	IOM	1440	1	2.5 / <0.0005	0 / <0.0005	0.0005
22.04.22	ERQ 265+266	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.04.22	ERQ 267+268	Storage Pad	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
25.04.22	ERQ 269+270	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
26.04.22	ERQ 271+272	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.04.22	ERQ 273+274	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.04.22	ERQ 275+276	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.04.22	ERQ 277+278	Asbestos Shed	IOM	1440	1	0 / <0.0005	2 / <0.0005	0.0005
29.04.22	ERQ 279+280	Storage Pad	IOM	1440	1	0 / <0.0005	0.5 / <0.0005	0.0005
03.05.22	ERQ 281+282	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.05.22	ERQ 283+284	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.05.22	ERQ 285+286	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.05.22	ERQ 287+288	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.05.22	ERQ Area 1+MPS Area	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.05.22	ERQ 289+290	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.05.22	ERQ 291+292	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
11.05.22	ERQ 293+294	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.05.22	ERQ 295+296	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005

13.05.22	ERQ 297+298	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.05.22	ERQ 299+300	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.05.22	ERQ 301+302	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.05.22	ERQ 303+304	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
18.05.22	ERQ 305+306	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.05.22	ERQ 307+308	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
20.05.22	ERQ Area 1+MPS Area	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.05.22	ERQ 309+310	Asbestos Shed	IOM	1440	1	1 / <0.0005	1.5 / <0.0005	0.0005
24.05.22	ERQ 311+312	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.05.22	ERQ 313+314	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.05.22	ERQ 315+316	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.06.22	ERQ 317+318	Asbestos Shed	IOM	1440	1	2 / <0.0005	1 / <0.0005	0.0005
08.06.22	ERQ 319+320	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.06.22	ERQ 321+322	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.06.22	ERQ 323+324	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.06.22	ERQ 325+326	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
14.06.22	ERQ 327+328	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
15.06.22	ERQ ASB 1	ASB1 - Asbestos Shed	IOM	1440	1	2 / <0.0005	2 / <0.0005	0.0005
16.06.22	ERQ ASB 1	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.06.22	ERQ ASB 1	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.06.22	ERQ ASB 1	Asbestos Shed	IOM	1440	1	1 / <0.0005	4.5 / 0.0007	0.0005
27.06.22	ERQ Outside	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.06.22	ERQ ASB 1	Asbestos Shed	IOM	1440	1	3 / <0.0005	0 / <0.0005	0.0005
28.06.22	ERQ Outside	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.06.22	ERQ ASB 1	Asbestos Shed	IOM	1440	1	4 / 0.0007	2.5 / <0.0005	0.0005

29.06.22	ERQ Outside	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
30.06.22	ERQ ASB 1	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
30.06.22	ERQ Outside	Storage Pad	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
01.07.22	ERQ ASB 1	Asbestos Shed	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
01.07.22	ERQ Outside	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.07.22	ERQ ASB 1	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.07.22	ERQ Outside	Storage Pad	IOM	1440	1	1.5 / <0.0005	0 / <0.0005	0.0005
05.07.22	ERQ ASB 1	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.07.22	ERQ Outside	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.07.22	ERQ ASB 1	Asbestos Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.07.22	ERQ Outside	Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
07.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

08.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
11.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
11.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
13.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

13.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
15.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

18.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
19.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
20.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
21.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

21.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
25.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

26.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
29.07.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.07.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.07.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

29.07.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
02.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
03.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005

03.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
04.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	4 / 0.0007	0.0005
05.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
05.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0.5 / <0.0005	0 / <0.0005	0.0005
08.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
08.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

08.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
09.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
09.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
09.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
10.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	1.5 / <0.0005	0.0005
11.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
11.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

11.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
12.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
15.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
15.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0.5 / <0.0005	0 / <0.0005	0.0005
16.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

16.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
17.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
18.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
18.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
19.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005

19.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener covered and HEPA Filter	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.001	0 / <0.0005	0.0005
22.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
22.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.0005	2 / <0.0005	0.0005
22.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	3 / 0.0005	2.5 / <0.0005	0.0005
23.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	5.5 / 0.0009	0.0005
23.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.0005	2 / <0.0005	0.0005
23.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	2.5 / <0.0005	0 / <0.0005	0.0005
24.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
24.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
24.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005

24.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.08.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	1 / <0.001	0 / <0.001	0.0005
23.08.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	0 / <0.001	0 / <0.0005	0.0005
24.08.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	0 / <0.004	0.5 / <0.004	0.0005
25.08.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	0 / <0.001	1 / <0.001	0.0005
30.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
30.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
30.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.002	0 / <0.002	0.0005
30.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.002	0 / <0.002	0.0005
31.08.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.001	2 / <0.001	0.0005

31.08.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	1.5 / <0.0005	0.0005
31.08.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
31.08.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
01.09.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01.09.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
01.09.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
01.09.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
02.09.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.09.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
02.09.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.09.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
30.08.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	1 / <0.0039	0 / <0.0039	0.0005
31.08.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	0 / <0.0061	0 / <0.0061	0.0005
01.09.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

02.09.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.09.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
05.09.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
05.09.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.09.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
06.09.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	0 / <0.0005	3 / <0.0005	0.0005
06.09.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	1.5 / <0.0005	0 / <0.0005	0.0005
06.09.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.09.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.09.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
07.09.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.09.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.09.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity, Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

08.09.22	ERQ ASB 1	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.09.22	ERQ ASB 2	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.09.22	ERQ ASB 3	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.09.22	ERQ ASB 4	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.09.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.09.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.09.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
08.09.22	ERQ SCREENER	<1m from Screener	IOM	1440	1	1.5 / <0.0005	0 / <0.0005	0.0005
12.09.22	ERQ Inside 1	Asbestos Shed - No Processing Activity in Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.09.22	ERQ Outside 2	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.09.22	ERQ Outside 3	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.09.22	ERQ Outside 4	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.09.22	ERQ Inside 1	Asbestos Shed - No Processing Activity in Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.09.22	ERQ Outside 2	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.09.22	ERQ Outside 3	Perimeter of Storage Pad	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
13.09.22	ERQ Outside 4	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.09.22	ERQ INT 1	Asbestos Shed - No Processing Activity in Shed	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
14.09.22	ERQ EXT 2	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.09.22	ERQ EXT 3	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.09.22	ERQ EXT 4	Perimeter of Storage Pad	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005

15.09.22	ERQ INT 1	Asbestos Shed - No Processing Activity in Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.09.22	ERQ EXT 2	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.09.22	ERQ EXT 3	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.09.22	ERQ EXT 4	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.09.22	ERQ INT 1	Asbestos Shed - No Processing Activity in Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.09.22	ERQ EXT 2	Perimeter of Storage Pad	IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
16.09.22	ERQ EXT 3	Perimeter of Storage Pad	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
16.09.22	ERQ EXT 4	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.09.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
20.09.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.09.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.09.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.09.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
21.09.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.09.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.09.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity. Screener uncovered	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

22.09.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
22.09.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.09.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.09.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.09.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.09.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.09.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.09.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.09.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.09.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.09.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.09.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

27.09.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.09.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.09.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.09.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.09.22	ERQ INT 1	Asbestos Shed - No Processing Activity in Shed	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.09.22	ERQ EXT 2	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.09.22	ERQ EXT 3	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.09.22	ERQ EXT 4	Perimeter of Storage Pad	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.09.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.09.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
29.09.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.09.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
30.09.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
30.09.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

30.09.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
30.09.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005

05.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
06.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
07.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
10.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

10.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	3 / <0.0005	0 / <0.0005	0.0005
11.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
12.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

13.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
14.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

18.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
19.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

21.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

26.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.10.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.10.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.10.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.10.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

07.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
09.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
10.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

10.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

15.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

18.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
21.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
22.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

23.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
24.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

28.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
30.11.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
30.11.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
30.11.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
30.11.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

02.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

07.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
09.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
09.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

12.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

15.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

20.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
21.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.12.22	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.12.22	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

23.12.22	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.12.22	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

05.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
09.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

10.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	2.5 / <0.0005	0.0005
10.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

18.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
23.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

24.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	1 / <0.0005	2 / <0.0005	0.0005
24.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.01.23	ERQ SHED 1	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.01.23	ERQ SHED 2	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.01.23	ERQ SHED 3	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.01.23	ERQ SHED 4	Asbestos Shed - No External Pad Activity - Screening stopped	IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.02.23	J255255	ASB SHED	THAMES LABS/IOM	1520	1	0 / <0.0005	0 / <0.0005	0.0005
10.02.23	J255386	ASB SHED	THAMES LABS/IOM	1600	1	0 / <0.0005	0.5 / <0.0005	0.0005
13.02.23	J255394	ASB SHED	THAMES LABS/IOM	1520	1	0 / <0.0005	0 / <0.0005	0.0005

14.02.23	J255481	ASB SHED	THAMES LABS/IOM	1776	1	0 / <0.0004	0 / <0.0004	0.0004
15.02.23	J255548	ASB SHED	THAMES LABS/IOM	1520	1	0 / <0.0005	0 / <0.0005	0.0005
16.02.23	J255769	ASB SHED	THAMES LABS/IOM	1504	1	0 / <0.0005	0 / <0.0005	0.0005
17.02.23	J255676	ASB SHED	THAMES LABS/IOM	1520	1	0.5 / <0.0005	0 / <0.0005	0.0005
20.02.23	J255876	ASB SHED	THAMES LABS/IOM	1472	1	0 / <0.0005	1 / <0.0005	0.0005
21.02.23	J255950	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.02.23	J256026	ASB SHED	THAMES LABS/IOM	1520	1	1 / <0.0005	0 / <0.0005	0.0005
23.02.23	J256163	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.02.23	J256250	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
27.02.23	J256313	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.02.23	J256441	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01.03.23	J256560	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.03.23	J256650	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
03.03.23	J256774	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.03.23	J256958	ASB SHED	THAMES LABS/IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
07.03.23	J256978	ASB SHED	THAMES LABS/IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
08.03.23	J257158	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0.5 / <0.0005	0.0005

13.03.23	J257430	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.03.23	J257526	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0.5 / <0.0005	0.0005
15.03.23	J257535	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
16.03.23	J257651	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.03.23	J257709	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.03.23	J257769	ASB SHED	THAMES LABS/IOM	1488	1	0 / <0.0005	0 / <0.0005	0.0005
21.03.23	J257964	ASB SHED	THAMES LABS/IOM	1472	1	0 / <0.0005	0 / <0.0005	0.0005
22.03.23	J257970	ASB SHED	THAMES LABS/IOM	1648	1	3 / <0.0005	0 / <0.0005	0.0005
23.03.23	J258133	ASB SHED	THAMES LABS/IOM	1584	1	0 / <0.0005	0.5 / <0.0005	0.0005
24.03.23	J258137	ASB SHED	THAMES LABS/IOM	1472	1	1 / <0.0005	0 / <0.0005	0.0005
27.03.23	J258326	ASB SHED	THAMES LABS/IOM	1488	1	0 / <0.0005	0 / <0.0005	0.0005
28.03.23	J258365	ASB SHED	THAMES LABS/IOM	1616	1	0 / <0.0005	0 / <0.0005	0.0005
29.03.23	J258460	ASB SHED	THAMES LABS/IOM	1664	1	1 / <0.0005	0 / <0.0005	0.0005
30.03.23	J258538	ASB SHED	THAMES LABS/IOM	1488	1	0 / <0.0005	0 / <0.0005	0.0005
31.03.23	J258629	ASB SHED	THAMES LABS/IOM	1584	1	0 / <0.0005	0 / <0.0005	0.0005
03.04.23	J258674	ASB SHED	THAMES LABS/IOM	1664	1	0 / <0.0005	0 / <0.0005	0.0005
04.04.23	J258757	ASB SHED	THAMES LABS/IOM	1616	1	0 / <0.0005	0 / <0.0005	0.0005

05.04.23	J258854	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.04.23	J258989	ASB SHED	THAMES LABS/IOM	1472	1	0 / <0.0005	0 / <0.0005	0.0005
11.04.23	J259001	ASB SHED	THAMES LABS/IOM	1552	1	0 / <0.0005	0 / <0.0005	0.0005
12.04.23	J259136	ASB SHED	THAMES LABS/IOM	1584	1	0 / <0.0005	0 / <0.0005	0.0005
13.04.23	J259213	ASB SHED	THAMES LABS/IOM	1472	1	0 / <0.0005	0 / <0.0005	0.0005
14.04.23	J259289	ASB SHED	THAMES LABS/IOM	1488	1	0 / <0.0005	0 / <0.0005	0.0005
17.04.23	J259378	ASB SHED	THAMES LABS/IOM	1488	1	0 / <0.0005	1 / <0.0005	0.0005
18.04.23	J259391	ASB SHED	THAMES LABS/IOM	1456	1	0 / <0.0005	0 / <0.0005	0.0005
19.04.23	J259399	ASB SHED	THAMES LABS/IOM	1488	1	2 / <0.0005	1 / <0.0005	0.0005
20.04.23	J259680	ASB SHED	THAMES LABS/IOM	1504	1	1 / <0.0005	0 / <0.0005	0.0005
21.04.23	J259761	ASB SHED	THAMES LABS/IOM	1504	1	0 / <0.0005	0 / <0.0005	0.0005
24.04.23	J259857	ASB SHED	THAMES LABS/IOM	1456	1	0 / <0.0005	0 / <0.0005	0.0005
25.04.23	J259896	ASB SHED	THAMES LABS/IOM	1520	1	0 / <0.0005	0 / <0.0005	0.0005
26.04.23	J259984	ASB SHED	THAMES LABS/IOM	1472	1	0 / <0.0005	0 / <0.0005	0.0005
27.04.23	J260112	ASB SHED	THAMES LABS/IOM	1664	1	0 / <0.0005	0 / <0.0005	0.0005
28.04.23	J260129	ASB SHED	THAMES LABS/IOM	1488	1	0 / <0.0005	0 / <0.0005	0.0005
02.05.23	J260240	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

03.05.23	J260310	ASB SHED	THAMES LABS/IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
04.05.23	J260367	ASB SHED	THAMES LABS/IOM	1440	1	4 / <0.0005	1 / <0.0005	0.0005
05.05.23	J260578	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	2 / <0.0005	0.0005
09.05.23	J260539	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
10.05.23	J260607	ASB SHED	THAMES LABS/IOM	1584	1	1 / <0.0005	0 / <0.0005	0.0005
11.05.23	J260757	ASB SHED	THAMES LABS/IOM	1456	1	0 / <0.0005	0 / <0.0005	0.0005
12.05.23	J260836	ASB SHED	THAMES LABS/IOM	1584	1	0 / <0.0005	0 / <0.0005	0.0005
15.05.23	J260860	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16.05.23	J260945	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.05.23	J261033	ASB SHED	THAMES LABS/IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
18.05.23	J261106	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
19.05.23	J261154	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.05.23	J261255	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.05.23	J261306	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
24.05.23	J261422	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.05.23	J261474	ASB SHED	THAMES LABS/IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
26.05.23	J261478	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005

30.05.23	J261720	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
31.05.23	J261742	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01.06.23	J261816	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
02.06.23	J261891	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05.06.23	J261946	ASB SHED	THAMES LABS/IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
06.06.23	J261950	ASB SHED	THAMES LABS/IOM	1488	1	0.5 / <0.0005	1 / <0.0005	0.0005
07.06.23	J262148	ASB SHED	THAMES LABS/IOM	1440	1	3 / 0.0005	0.5 / <0.0005	0.0005
08.06.23	J262204	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09.06.23	J262276	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
12.06.23	J262343	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
13.06.23	J262445	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
14.06.23	J262569	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
15.06.23	J262576	ASB SHED	THAMES LABS/IOM	1440	1	3.5 / 0.0006	0 / <0.0005	0.0005
16.06.23	J262656	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
19.06.23	J262732	ASB SHED	THAMES LABS/IOM	1440	1	1.5 / <0.0005	0.5 / <0.0005	0.0005
20.06.23	J262845	ASB SHED	THAMES LABS/IOM	1552	1	0 / <0.0005	0 / <0.0005	0.0005
21.06.23	J262949	ASB SHED	THAMES LABS/IOM	1536	1	0 / <0.0005	0 / <0.0005	0.0005

22.06.23	J262997	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23.06.23	J263103	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
26.06.23	J263226	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
27.06.23	J263257	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.06.23	J263336	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.06.23	J263450	ASB SHED	THAMES LABS/IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
30.06.23	J263520	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.07.23	J263606	ASB SHED	THAMES LABS/IOM	1440	1	2 / <0.0005	0.5 / <0.0005	0.0005
04.07.23	J263695	ASB SHED	THAMES LABS/IOM	1440	1	0.5 / <0.0005	1 / <0.0005	0.0005
05.07.23	J263766	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.07.23	J263850	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	2 / <0.0005	0.0005
07.07.23	J263939	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.07.23	J264025	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11.07.23	J264118	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.07.23	J264204	ASB SHED	THAMES LABS/IOM	1440	1	3 / <0.0005	0 / <0.0005	0.0005
13.07.23	J264290	ASB SHED	THAMES LABS/IOM	1440	1	3.5 / <0.0005	0 / <0.0005	0.0005
14.07.23	J264390	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005

17.07.23	J264474	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18.07.23	J264602	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.07.23	J264762	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
20.07.23	J264780	ASB SHED	THAMES LABS/IOM	1552	1	0 / <0.0005	0 / <0.0005	0.0005
21.07.23	J264858	ASB SHED	THAMES LABS/IOM	1472	1	0 / <0.0005	0 / <0.0005	0.0005
24.07.23	J265067	ASB SHED	THAMES LABS/IOM	1472	1	0 / <0.0005	0 / <0.0005	0.0005
25.07.23	J265134	ASB SHED	THAMES LABS/IOM	1440	1	0.5 / <0.0005	1 / <0.0005	0.0005
26.07.23	J265152	ASB SHED	THAMES LABS/IOM	1440	1	3 / <0.0005	1 / <0.0005	0.0005
27.07.23	J265259	ASB SHED	THAMES LABS/IOM	1440	1	2.5 / <0.0005	0 / <0.0005	0.0005
28.07.23	J265403	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
31.07.23	J265414	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01.08.23	J265473	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02.08.23	J265523	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03.08.23	J265640	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
04.08.23	J265651	ASB SHED	THAMES LABS/IOM	1440	1	3 / <0.0005	0 / <0.0005	0.0005
07.08.23	J265733	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08.08.23	J265863	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

09.08.23	J265974	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10.08.23	J266020	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
11.08.23	J266506	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.08.23	J266161	ASB SHED	THAMES LABS/IOM	1488	1	0 / <0.0005	0 / <0.0005	0.0005
15.08.23	J266304	ASB SHED	THAMES LABS/IOM	1520	1	0 / <0.0005	0 / <0.0005	0.0005
16.08.23	J266355	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17.08.23	J266420	ASB SHED	THAMES LABS/IOM	1440	1	3 / <0.0005	0.5 / <0.0005	0.0005
18.08.23	J266503	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21.08.23	J266649	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22.08.23	J266730	ASB SHED	THAMES LABS/IOM	1440	1	3.5 / 0.0006	0 / <0.0005	0.0005
23.08.23	J266801	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24.08.23	J266895	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25.08.23	J266918	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29.08.23	J267043	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
30.08.23	J267062	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
31.08.23	J267140	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
01.09.23	J267218	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005

04.09.23	J267303	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
05.09.23	J267418	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06.09.23	J267487	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
07.09.23	J267583	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
08.09.23	J267657	ASB SHED	THAMES LABS/IOM	1440	1	2 / <0.0005	0 / <0.0005	0.0005
11.09.23	J267725	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12.09.23	J267796	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
13.09.23	J267921	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14.09.23	J267967	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15.09.23	J268034	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	1 / <0.0005	0.0005
18.09.23	J268092	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19.09.23	J268190	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20.09.23	J268251	ASB SHED	THAMES LABS/IOM	1440	1	1 / <0.0005	0 / <0.0005	0.0005
21.09.23	J268340	ASB SHED	THAMES LABS/IOM	1760	1	0 / <0.0004	0 / <0.0004	0.0004
22.09.23	J268425	ASB SHED	THAMES LABS/IOM	1456	1	0 / <0.0005	0 / <0.0005	0.0005
25.09.23	J268491	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26.09.23	J268614	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

27.09.23	J268622	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28.09.23	J268732	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	1 / <0.0005	0.0005
29.09.23	J268734	ASB SHED	THAMES LABS/IOM	1440	1	0 / <0.0005	0 / <0.0005	0.0005

Appendix B ERQ pre-processing soil acceptance testing data tables

Table B1: ERQ soil acceptance (pre-processing) laboratory test data

Chemtest Job No.:	Chemtest Sample ID.:	Client Sample Ref.:	Sample Location:	Date Sampled:	ACM Type	Asbestos Identification	Asbestos by Gravimetry (%wt/wt)	Asbestos By Fibre Counting (%wt/wt)	Total Asbestos (%wt/wt)	Moisture (%)
19-26330	868957	DW2204250/1	Elephant Park	02/08/2019	-	No Asbestos Detected				8.7
19-26330	868958	DW2204250/2	Elephant Park	05/08/2019	-	No Asbestos Detected				9.6
19-26330	868959	DW2204250/3	Elephant Park	05/08/2019	-	No Asbestos Detected				10
19-31171	889864	DW2205141/1	Brent Cross	12/09/2019	-	No Asbestos Detected				12
19-31171	889865	DW2205082/1	Lambeth Col	12/09/2019	Cement	Chrysotile	0.002	<0.001	0.002	12
19-31171	889866	DW2205120/1	Lea Castle	16/09/2019	-	No Asbestos Detected				11
19-31171	889867	DW2205120/2	Lea Castle	16/09/2019	-	No Asbestos Detected				11
19-31626	892252	DW2205120/3	Lea Castle	17/09/2019	-	No Asbestos Detected				11
19-31626	892253	DW2205120/4	Lea Castle	17/09/2019	-	No Asbestos Detected				12
19-31626	892254	DW2205263/1	Washwood Heath	17/09/2019	-	No Asbestos Detected				16
19-31626	892255	DW2205264/1	Lyewood Farm	17/09/2019	Insulation	Chrysotile	0.32	<0.001	0.32	13
19-31626	892256	DW2205002/1	The Priory	19/09/2019	-	No Asbestos Detected				14
19-32224	895250	DW2205120/5	Lea Castle	19/09/2019	-	No Asbestos Detected				13
19-32224	895251	DW2205120/6	Lea Castle	24/09/2019	-	No Asbestos Detected				15
19-32224	895252	DW2205385/1	Cowley Hill	23/09/2019	-	No Asbestos Detected				29
19-32548	896691	DW2205492/1	Quattro Tring	26/09/2019	-	No Asbestos Detected				15
19-32548	896692	DW2205494/1	Fulham Project	27/09/2019	-	No Asbestos Detected				15
19-34348	905478	DW2203590/4	Colman Rail	10/10/2019	-	No Asbestos Detected				10
19-34857	908150	DW2205887/1	New Haven	15/10/2019	Fibres/Clumps	Chrysotile	0.022	<0.001	0.022	19
19-34857	908151	DW2205887/2	New Haven	15/10/2019	Fibres/Clumps	Chrysotile	0.008	<0.001	0.008	22

19-34857	908152	DW2205776/1	Taunton	15/10/2019	Cement, Fibres/Clumps	Amosite Chrysotile	0.45	<0.001	0.45	10
19-34857	908153	DW2205776/2	Taunton	15/10/2019	Fibres/Clumps	Chrysotile	0.004	<0.001	0.004	11
19-35574	911608	DW2202741/3	Risbrough Rd	17/10/2019	-	No Asbestos Detected				29
19-35574	911609	DW2205984/1	Belfast Av	18/10/2019	-	No Asbestos Detected				16
19-36582	916238	DW2205861/1	Swindon ACM	22/10/2019	-	No Asbestos Detected				22
19-36582	916239	DW2206108/1	Picaddilly Project	25/10/2019	-	No Asbestos Detected				13
19-36582	916240	DW2205984/2	Belfast Av	28/10/2019	-	No Asbestos Detected				16
19-37272	920234	DW2206333/1	Fairfield	01/11/2019	-	No Asbestos Detected				7.9
19-37272	920235	DW2206333/2	Fairfield	01/11/2019	-	No Asbestos Detected				10
19-37272	920236	DW2202645/5	Gerrads Cross	04/11/2019	-	No Asbestos Detected				11
19-37805	923125	DW2205800/1	Wallingford	08/11/2019	-	No Asbestos Detected				11
19-38637	927509	DW2200905/1	Dunmail ACM	12/11/2019	-	No Asbestos Detected				23
19-38637	927510	DW2200905/2	Dunmail ACM	12/11/2019	-	No Asbestos Detected				25
19-38637	927511	DW2206406/1	Deepcut Surrey	13/11/2019	-	No Asbestos Detected				9.6
19-39986	934548	DW2206838/1	Heathfield	26/11/2019	-	No Asbestos Detected				28
19-39986	934549	DW2206838/2	Heathfield	26/11/2019	-	No Asbestos Detected				21
19-40755	938131	DW2207039/1	Kents Hill	29/11/2019	-	No Asbestos Detected				15
19-40755	938132	DW2207065/1	Aldi Jennings	02/12/2019	-	No Asbestos Detected				22
19-40755	938133	DW2207151/1	Sheffield	03/12/2019	-	No Asbestos Detected				16
19-40755	938134	DW2207168/2	A52 Brides	04/12/2019	-	No Asbestos Detected				21
19-40762	938159	DW2206401/1	West Ealing	02/12/2019	-	No Asbestos Detected				13
19-40762	938160	DW2206401/2	West Ealing	02/12/2019	-	No Asbestos Detected				13
19-40762	938161	DW2207105/1	Wimbledon	03/12/2019	-	No Asbestos Detected				20
19-40762	938162	DW2207105/2	Wimbledon	03/12/2019	-	No Asbestos Detected				18
19-41375	941272	DW2207349/1	Norlington Road	10/12/2019	-	No Asbestos Detected				13

19-41909	943704	DW2207008/1	R.M. Penny	13/12/2019	-	No Asbestos Detected				15
19-42123	944970	DW2206401/3	West Ealing	16/12/2019	-	No Asbestos Detected				17
20-00125	948978	DW2206108/2	Piccadilly Project	02/01/2020	-	No Asbestos Detected				23
20-00637	951117	DW2207596/1	Brentford	07/01/2020	-	No Asbestos Detected				24
20-01350	954486	DW2207678/4	Slutchers Lane	04/01/2020	-	No Asbestos Detected				20
20-01350	954487	DW2207802/1	Five Ways Rd	04/01/2020	-	No Asbestos Detected				9.7
20-01725	956323	DW2207831/1	Kieth Avenue	15/01/2020	-	No Asbestos Detected		-	-	26
20-01725	956324	DW2207828/1	Vauxhall Park Siv	16/01/2020	Fibres/Clumps	Chrysotile	0.002	<0.001	0.002	15
20-01725	956325	DW2207830/1	Vauxhall Park DHI	16/01/2020	Fibres/Clumps	Chrysotile	0.002	<0.001	0.002	14
20-01725	956326	DW2207810/1	Abbey Rd ACM	17/01/2020	Fibres/Clumps	Chrysotile	0.001	<0.001	0.001	13
20-01725	956327	DW2207678/5	Slutchers Lane	17/01/2020	Fibres/Clumps	Chrysotile	0.001	<0.001	0.001	21
20-02124	957932	DW2207830/2	Vauxhall Park DHI	20/01/2020	-	No Asbestos Detected				16
20-02124	957933	DW2207678/6	Slutchers Lane	20/01/2020	-	No Asbestos Detected				22
20-02124	957934	DW2206918/1	Ibstock	22/01/2020	-	No Asbestos Detected				11
20-02124	957935	DW2206918/2	Ibstock	22/01/2020	Free Fibres	Chrysotile	<0.001		<0.001	12
20-02459	959200	DW2208026/1	Mitcham Project	22/01/2020	-	No Asbestos Detected				13
20-02459	959201	DW2208066/1	Middlesex ST	24/01/2020	-	No Asbestos Detected				17
20-03613	964413	DW2208282/1	Reynolds	03/02/2020	-	No Asbestos Detected				14
20-04470	968381	DW2208282/2	Reynolds	07/02/2020	-	No Asbestos Detected				14
20-04470	968382	DW2208383/1	Brentford	10/02/2020	-	No Asbestos Detected				17
20-04470	968383	DW2208383/2	Brentford	11/02/2020	-	No Asbestos Detected				15
20-05010	971039	DW2208210/1	Old Cow Barn	11/02/2020	Board	Chrysotile	2.9		2.9	48
20-05010	971040	DW2208441/1	Riverside Way	11/02/2020	Fibres/Clumps	Chrysotile	0.023		0.023	12
20-05010	971041	DW2208589/1	Kingston Rd	14/02/2020	-	No Asbestos Detected				17

20-05532	973442	DW2208670/1	Lovedean Substation	17/02/2020	-	No Asbestos Detected				14
20-05536	973457	DW2208589/2	Kingston Rd	17/02/2020	-	No Asbestos Detected				12
20-05536	973458	DW2207480/1	Macclesfield ACM	17/02/2020	-	No Asbestos Detected				10
20-05536	973459	DW2208653/1	Topesfield Rd	17/02/2020	Fibres/Clumps	Chrysotile	<0.001	<0.001	<0.001	19
20-05536	973460	DW2208653/2	Topesfield Rd	17/02/2020	-	No Asbestos Detected				16
20-05536	973461	DW2208670/2	Lovedean Substation	18/02/2020	Fibres/Clumps	Chrysotile	<0.001	<0.001	<0.001	25
20-06211	976749	DW2207480/2	Macclesfield ACM	21/02/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	12
20-06211	976750	DW2208795/1	Audley Coopers	21/02/2020	-	No Asbestos Detected				14
20-06211	976751	DW2208795/2	Audley Coopers	21/02/2020	Fibres/Clumps	Chrysotile	0.002		0.002	15
20-06211	976752	DW2208918/1	Chapel Hill	25/02/2020	-	No Asbestos Detected				18
20-06211	976753	DW2208918/2	Chapel Hill	26/02/2020	-	No Asbestos Detected				18
20-06211	976754	DW2208921/1	Newton Rd	26/02/2020	-	No Asbestos Detected				13
20-06863	979986	DW2208756/1	DEEPCUT CAMBERLEY	27/02/2020	-	No Asbestos Detected	-			13
20-06863	979987	DW2208756/2	DEEPCUT CAMBERLEY	27/02/2020	-	No Asbestos Detected	-			13
20-06863	979988	DW2208989/1	BLU CROYDEN	27/02/2020	-	No Asbestos Detected	-			20
20-07256	981604	DW2208653/3	Topesfield Rd	02/03/2020	-	No Asbestos Detected				11
20-07256	981605	DW2209017/1	Bonner Hill	03/03/2020	-	No Asbestos Detected				12
20-07568	982976	DW2209252/1	LOVEDEAN SUBSTATION	09/03/2020	-	No Asbestos Detected				15
20-07568	982977	DW2209252/2	LOVEDEAN SUBSTATION	09/03/2020	-	No Asbestos Detected				17
20-07568	982978	DW2209058/1	OAK COMMON	09/03/2020	-	No Asbestos Detected				14
20-07568	982979	DW2209058/2	OAK COMMON	09/03/2020	-	No Asbestos Detected				14

20-08210	985990	DW2209307/1	A52 Clifton	12/03/2020	-	No Asbestos Detected				7.1
20-08210	985992	DW2209309/1	Galley Lane	12/03/2020	-	No Asbestos Detected				9.7
20-08210	985993	DW2208446/1	Bristol Compost	12/03/2020	-	No Asbestos Detected				26
20-08210	985994	DW2209293/1	Tyseley Depot	12/03/2020	-	No Asbestos Detected				12
20-08357	986750	DW2209279/1	Eden Boys'	11/03/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	15
20-08357	986751	DW2209267/1	Kingsditch	11/03/2020	-	No Asbestos Detected				19
20-08357	986752	DW2209074/1	Liverpool Rd	11/03/2020	-	No Asbestos Detected				11
20-08357	986753	DW2209174/1	Lord Harris Court	11/03/2020	Fibres/Clumps	Chrysotile	0.002		0.002	14
20-08357	986754	DW2208795/3	Audley Coopers	12/03/2020	-	No Asbestos Detected				12
20-08558	987632	DW2209406/1	Thamesmead	13/03/2020	Board	Amosite Chrysotile	0.07	<0.001	0.07	17
20-08558	987633	DW2209386/1	Coventry Station	16/03/2020	-	No Asbestos Detected				16
20-09421	992035	DW2209550/1	Neadsdon Lane	20/03/2020	-	No Asbestos Detected				12
20-09421	992036	DW2209577/1	Holbeck	20/03/2020	Fibres/Clumps	Chrysotile	0.001		0.001	6.1
20-09421	992036	DW2209577/1	Holbeck	20/03/2020	Fibres/Clumps	Chrysotile	0.001		0.001	6.1
20-09421	992037	DW2209614/1	Pump Alley	23/03/2020	-	No Asbestos Detected				13
20-09421	992038	DW2209614/2	Pump Alley	23/03/2020	-	No Asbestos Detected				14
20-09421	992039	DW2209583/1	Quattro A128	23/03/2020	-	No Asbestos Detected				6.9
20-09421	992040	DW2209047/1	Bradley Ln	23/03/2020	-	No Asbestos Detected				15
20-10420	996814	DW2208446/1	CLO Bristol	08/04/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	23
20-10420	996815	DW2208446/2	CLO Bristol	08/04/2020	-	No Asbestos Detected				29
20-10420	996816	DW2208446/3	CLO Bristol	08/04/2020	-	No Asbestos Detected				22
20-10420	996817	DW2208795/3	Audley Coopers Hill	08/04/2020	-	No Asbestos Detected				11
20-10420	996818	DW2209108/3	Hollinwood AGI	08/04/2020	-	No Asbestos Detected				21
20-10420	996819	DW2209206/3	Liberty Drawn Tubes	08/04/2020	-	No Asbestos Detected				6.7
20-10420	996820	DW2209252/3	Lovedean SS	08/04/2020	-	No Asbestos Detected				4.9

20-10420	996821	DW2209307/2	A52 Clifton Bridge	08/04/2020	-	No Asbestos Detected				6.5
20-10420	996822	DW2209307/3	A52 Clifton Bridge	08/04/2020	-	No Asbestos Detected				5.7
20-10420	996823	DW2209309/1	Brook House Barnet	08/04/2020	-	No Asbestos Detected				7
20-10420	996824	DW2209386/1	Coventry Station	08/04/2020	-	No Asbestos Detected				12
20-10420	996825	DW2209406/1	Teeswater Court	08/04/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	18
20-10420	996826	DW2209611/1	Universal Square Manchester	08/04/2020	-	No Asbestos Detected				12
20-10420	996827	DW2209614/3	Chailey Ind Estate	08/04/2020	-	No Asbestos Detected				5
20-10420	996828	DW2209614/4	Chailey Ind Estate	08/04/2020	-	No Asbestos Detected				4.7
20-10420	996829	DW2209645/1	The Fountain, New Maiden	08/04/2020	-	No Asbestos Detected				1.9
20-10420	996830	DW2209650/1	Queens Farm, Gravesend	08/04/2020	-	No Asbestos Detected				16
20-10420	996831	DW2209688/1	Allendale Avenue	08/04/2020	-	No Asbestos Detected				1.6
20-10420	996832	DW2209689/1	Kidbrooke Station	08/04/2020	-	No Asbestos Detected				7.3
20-10420	996833	DW2209689/2	Kidbrooke Station	08/04/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	4
20-10420	996834	DW2209707/1	Claylands Cross, Paignton	08/04/2020	-	No Asbestos Detected				6.1
20-10420	996835	DW2209707/2	Claylands Cross, Paignton	08/04/2020	-	No Asbestos Detected				3
20-10420	996836	DW2209791/1	Ashford	08/04/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	13
20-10420	996837	DW2209791/2	Ashford	08/04/2020	-	No Asbestos Detected				14
20-10420	996838	DW2209791/3	Ashford	08/04/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	13
20-10420	996839	DW2209791/4	Ashford	08/04/2020	-	No Asbestos Detected				9.8

20-10420	996840	DW2209809/1	Bow Common	08/04/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	5.8
20-10420	996841	DW2209809/2	Bow Common	08/04/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	11
20-10849	998398	DW2209904/1	Hatch End	16/04/2020	-	No Asbestos Detected				12
20-10849	998399	DW2209904/2	Hatch End	16/04/2020	-	No Asbestos Detected				12
20-11151	999557	DW2209614/5	Chailey Ind Estate	23/04/2020	-	No Asbestos Detected				0.63
20-11151	999558	DW2209707/3	Paignton	23/04/2020	-	No Asbestos Detected				9.4
20-11151	999559	DW2209713/1	Havelock Estate	23/04/2020	-	No Asbestos Detected				3.9
20-11151	999560	DW2209728/1	West Hyde	23/04/2020	-	No Asbestos Detected				5.9
20-11151	999561	DW2209728/2	West Hyde	23/04/2020	Fibres/Clumps	Chrysotile	0.063		0.063	6.4
20-11151	999562	DW2209728/3	West Hyde	23/04/2020	Fibres/Clumps	Chrysotile	0.008		0.008	4.8
20-11151	999563	DW2209769/1	Langford	23/04/2020	-	No Asbestos Detected				13
20-11151	999564	DW2209778/1	Uttoxeter	23/04/2020	-	No Asbestos Detected				12
20-11151	999565	DW2209900/1	Selly Oak	23/04/2020	-	No Asbestos Detected				15
20-11151	999566	DW2209900/2	Selly Oak	23/04/2020	-	No Asbestos Detected				12
20-11151	999567	DW2209903/1	Colchester	23/04/2020	-	No Asbestos Detected				7.5
20-11151	999568	DW2209965/1	Odour - Chailey Ind Est	23/04/2020	Board	Amosite	0.011		0.011	8.8
20-11151	999569	DW2209965/2	Odour - Chailey Ind Est	23/04/2020	-	No Asbestos Detected				9.1
20-11478	1000991	DW2208446/3*	CLO Bristol	29/04/2020	-	No Asbestos Detected				16
20-11478	1000992	DW2209047/2*	CRT Depot, Bliston	29/04/2020	Fibres/Clumps	Amosite Chrysotile	0.001		0.001	13
20-11478	1000993	DW2209945/1	Five Rivers HS2	29/04/2020	-	No Asbestos Detected				16
20-11478	1000994	DW2209979/1	Polesworth	29/04/2020	-	No Asbestos Detected				19
20-11478	1000995	DW2209979/2	Polesworth	29/04/2020	-	No Asbestos Detected				18
20-11478	1000996	DW2209992/1	Blackmoor Croft	29/04/2020	-	No Asbestos Detected				18

20-11478	1000997	DW2210025/1	Days Road, Bristol	29/04/2020	-	No Asbestos Detected				13
20-11478	1000998	DW2210096/1	Harper Road, Cov	29/04/2020	-	No Asbestos Detected				25
20-11478	1000999	DW2210040/1	Slough Trade Est	29/04/2020	-	No Asbestos Detected				13
20-11478	1001000	DW2210040/2	Slough Trade Est	29/04/2020	-	No Asbestos Detected				14
20-11478	1001001	DW2210105/1	Basildon	29/04/2020	-	No Asbestos Detected				22
20-11478	1001002	DW2209650/2	Gravesend	29/04/2020	-	No Asbestos Detected				17
20-12578	1005607	DW2210185/1	Aldi ACM	05/05/2020	-	No Asbestos Detected				21
20-12578	1005608	DW2210249/1	Erith Buxton Rd	05/05/2020	-	No Asbestos Detected				7.6
20-12578	1005609	DW2210272/1	Avonmouth Sulzer	12/05/2020	-	No Asbestos Detected				8.2
20-12578	1005610	DW2210272/2	Avonmouth Sulzer	12/05/2020	-	No Asbestos Detected				7.5
20-12578	1005611	DW2210293/1	118 Raeburn Ave	13/05/2020	-	No Asbestos Detected				15
20-12578	1005612	DW2210110/1	Wirral Waters	14/05/2020	-	No Asbestos Detected				11
20-12578	1005613	DW2209904/3	Hatch End	14/05/2020	-	No Asbestos Detected				13
20-12578	1005614	DW2209605/1	Juniper House	14/05/2020	-	No Asbestos Detected				9.1
20-12578	1005615	DW2210342/1	Harris Academy	14/05/2020	-	No Asbestos Detected				0.75
20-13111	1008210	DW2210374/1	Belvedere Project	18/05/2020	Fibres/Clumps	No Asbestos Detected				10
20-13111	1008211	DW2210374/2	Belvedere Project	18/05/2020	Fibres/Clumps	Chrysotile	0.009		0.009	12
20-13111	1008212	DW2210374/3	Belvedere Project	18/05/2020	Fibres/Clumps	Amosite Chrysotile	0.002		0.002	14
20-13111	1008213	DW2210272/3	Avonmouth Sulzer	21/05/2020	-	No Asbestos Detected				16
20-13113	1008215	DW2210366/1	Iron Lane	18/05/2020	-	No Asbestos Detected				13

20-13113	1008216	DW2210366/2	Iron Lane	20/05/2020	-	No Asbestos Detected				13
20-13113	1008217	DW2208446/4	Bristol CLO	21/05/2020	-	No Asbestos Detected				24
20-13700	1011136	DW2210430/01	Beckton Gasworks	26/05/2020	-	No Asbestos Detected				7.6
20-13700	1011137	DW2209728/1	West Hyde	28/05/2020	-	No Asbestos Detected				5.1
20-14226	1013488	DW2210556/1	Cry Field Grange	29/05/2020	-	No Asbestos Detected				11
20-14226	1013489	DW2209903/2	EWD FC	29/05/2020	-	No Asbestos Detected				38
20-14226	1013490	DW2210598/1	Langdon Hill	29/05/2020	-	No Asbestos Detected				17
20-14226	1013491	DW2210598/2	Langdon Hill	29/05/2020	-	No Asbestos Detected				21
20-14226	1013492	DW2210612/1	Thankes Oil	02/06/2020	-	No Asbestos Detected				10
20-14226	1013493	DW2210608/1	Curzon Street	02/06/2020	-	No Asbestos Detected				7.6
20-14226	1013494	DW2210608/2	Curzon Street	02/06/2020	-	No Asbestos Detected				9.3
20-14226	1013495	DW2210608/3	Curzon Street	02/06/2020	-	No Asbestos Detected				8.5
20-14262	1013712	DW2210342/2	Harris Academy	04/06/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	16
20-14262	1013713	DW2209904/4	Hatch End	04/06/2020	Fibres/Clumps	Chrysotile	0.007		0.007	11
20-14262	1013714	DW2209904/5	Hatch End	04/06/2020	Fibres/Clumps	Chrysotile	0.002		0.002	12
20-15092	1017639	DW2210789/1	VHE Station Road	10/06/2020	-	No Asbestos Detected				9
20-15092	1017640	DW2210818/1	Nailstone	10/06/2020	Fibres/Clumps	Amosite Chrysotile	<0.001		0.011	12
20-15092	1017641	DW2210835/1	Kiln Lane	11/06/2020	-	No Asbestos Detected				12
20-15325	1018637	DW2210714/1	Bellingham Rd	16/06/2020	-	No Asbestos Detected				12
20-15325	1018638	DW2209904/6	Hatch End	16/06/2020	-	No Asbestos Detected				15
20-15325	1018639	DW2210598/3	Langdon Hill	16/06/2020	-	No Asbestos Detected				15
20-15325	1018640	DW2209689/3	Kidbrooke Station	16/06/2020	-	No Asbestos Detected				16
20-15325	1018641	DW2209689/4	Kidbrooke Station	16/06/2020	-	No Asbestos Detected				18

20-15325	1018642	DW2209689/5	Kidbrooke Station	17/06/2020	Fibres/Clumps	Chrysotile	0.024		0.024	16
20-16304	1023006	DW2211100/1	Warren Court	24/06/2020	Fibres/Clumps	Chrysotile	0.002		0.002	9.7
20-16498	1024022	DW2211048/1	Shinfield	29/06/2020	-	No Asbestos Detected				13
20-17091	1026840	DW2211147/1	Hull	30/06/2020	-	No Asbestos Detected				13
20-17091	1026841	DW2209689/6	Kidbrooke Station	01/07/2020	-	No Asbestos Detected				14
20-18059	1031712	DW2209904/7	Hatch End	07/07/2020	-	No Asbestos Detected				15
20-18059	1031713	DW2209904/8	Hatch End	10/07/2020	-	No Asbestos Detected				17
20-18059	1031714	DW2210959/1	Mytholmroyd	09/07/2020	-	No Asbestos Detected				16
20-18059	1031715	DW2211378/1	Mayow Road	10/07/2020	Fibres/Clumps	Chrysotile	0.002		0.002	14
20-18272	1032603	DW2209904/9	Hatch End	14/07/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	6.2
20-18272	1032604	DW2209904/10	Hatch End	15/07/2020	-	No Asbestos Detected				6.9
20-18893	1035673	DW2211581/1	Henleys Garage	21/07/2020	-	No Asbestos Detected				10
20-18893	1035674	DW2211581/2	Henleys Garage	21/07/2020	-	No Asbestos Detected				8.7
20-19248	1037403	DW2211628/1	Sheffield Road	23/07/2020	-	No Asbestos Detected				30
20-19248	1037404	DW2211628/2	Sheffield Road	23/07/2020	-	No Asbestos Detected				25
20-19352	1037964	DW2211664/1	Glanville RD ACM	23/07/2020	-	No Asbestos Detected				14
20-19352	1037965	DW2211556/1	Eastwood	23/07/2020	-	No Asbestos Detected				9.7
20-20142	1041990	DW2211851/1	Stage Coach	30/07/2020	Fibres/Clumps	Amosite Chrysotile	0.053	<0.001	0.053	14
20-20142	1041991	DW2211855/1	Cold Harbour Rd	31/07/2020	Board	Amosite	0.006		0.006	7
20-21345	1047990	DW2211628/1a	Sheffield Road	10/08/2020	-	No Asbestos Detected				8.3
20-21345	1047991	DW2211628/2a	Sheffield Road	10/08/2020	-	No Asbestos Detected				9.2
20-21345	1047992	DW2212040/1	Co-Op Cross	11/08/2020	-	No Asbestos Detected				7.3
20-21345	1047993	DW2212040/2	Co-Op Cross	11/08/2020	-	No Asbestos Detected				7.7
20-21345	1047994	DW2212017/1	Rilmac Coleshill	11/08/2020	-	No Asbestos Detected				9.2

20-21345	1047995	DW2212017/2	Rilmac Coleshill	11/08/2020	-	No Asbestos Detected				10
20-21345	1047996	DW2211100/1	Warren Court	11/08/2020	Insulation	Crocidolite				7.8
20-21697	1049621	DW2212040/3	Co-Op Cross	13/08/2020	-	No Asbestos Detected				10
20-21697	1049622	DW2212017/3	Rilmac Coleshill	13/08/2020	-	No Asbestos Detected				11
20-21697	1049623	DW2212039/1	Lower Stondon	12/08/2020	-	No Asbestos Detected				18
20-21697	1049624	DW2212039/2	Lower Stondon	13/08/2020	-	No Asbestos Detected				17
20-21697	1049625	DW2212039/3	Lower Stondon	14/08/2020	-	No Asbestos Detected				11
20-22363	1052974	DW2212173/1	Abbey Rd ASB	20/08/2020	-	No Asbestos Detected				9.7
20-22614	1054307	DW2209904/11	HATCH END	20/08/2020	-	No Asbestos Detected				14
20-22614	1054308	DW2209904/12	HATCH END	20/08/2020	-	No Asbestos Detected				8.6
20-22614	1054309	DW2209728/5	WEST HYDE	20/08/2020	-	No Asbestos Detected				9.9
20-22614	1054310	DW2212039/4	LOWER STONDON	21/08/2020	Insulation	Amosite	0.034	-	0.034	5.9
20-23392	1058059	DW2212432/1	Willink	01/09/2020	-	No Asbestos Detected				11
20-23456	1058367	DW2212275/1	Grafton Drive	28/08/2020	-	No Asbestos Detected				12
20-23866	1060403	DW2212425/1	ASDA Pembroke	02/09/2020	-	No Asbestos Detected				12
20-23866	1060404	DW2212516/1	Hislop Road	04/09/2020	-	No Asbestos Detected				9.7
20-23866	1060405	DW2212556/1	Riverwell Watford	07/09/2020	-	No Asbestos Detected				7.9
20-23866	1060406	DW2212556/2	Riverwell Watford	07/09/2020	-	No Asbestos Detected				7.8
20-24981	1066218	DW2212701/1	Kirkstall Road	16/09/2020	-	No Asbestos Detected				11
20-25335	1068119	DW2212828/1	Neepsend	17/09/2020	-	No Asbestos Detected				9.7
20-25335	1068120	DW2212783/1	Church Place	18/09/2020	-	No Asbestos Detected				17
20-25665	1069585	DW2212890/1	Tyndalls Ave	21/09/2020	-	No Asbestos Detected				9.2
20-25665	1069586	DW2212892/1	Amey Doxey Rd	21/09/2020	Fibres/Clumps	Amosite	<0.001		<0.001	13
20-25665	1069587	DW2212892/2	Amey Doxey Rd	21/09/2020	Fibres/Clumps	Amosite	<0.001		<0.001	11

20-25665	1069588	DW2212892/3	Amey Doxey Rd	22/09/2020	Fibres/Clumps	Amosite	<0.001		<0.001	12
20-25665	1069589	DW2212909/1	Upper Bristol Rd	22/09/2020	-	No Asbestos Detected				12
20-25665	1069590	DW2212909/2	Upper Bristol Rd	22/09/2020	-	No Asbestos Detected				11
20-27132	1077038	DW2212981/1	Manor Farm	05/10/2020	-	No Asbestos Detected				11
20-27132	1077039	DW2213134/1	Parkhurst Rd	06/10/2020	-	No Asbestos Detected				12
20-27132	1077040	DW2212658/2	Brandon Road	06/10/2020	-	No Asbestos Detected				11
20-27132	1077041	DW2212776/2	Kidderminster Substation	06/10/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	25
20-27132	1077042	DW2213197/1	Powick GRS	06/10/2020	-	No Asbestos Detected				27
20-27133	1077044	DW2213089/1	Azko Slough	06/10/2020	Fibres/Clumps	Chrysotile	<0.001		<0.001	11
20-27137	1077054	DW2212971/1	Newfoundland Rd	05/10/2020	-	No Asbestos Detected				13
20-27824	1081010	DW2189144/4	Wrexham RS	13/10/2020	-	No Asbestos Detected				34
20-27824	1081011	DW2213325/1	Wood View Garage	13/10/2020	-	No Asbestos Detected				18
20-27824	1081012	DW2213338/1	Lickey Road	13/10/2020	-	No Asbestos Detected				17
20-28113	1082678	DW2213430/1	Cochrane Rd	15/10/2020	-	No Asbestos Detected				13
20-29485	1089472	DW2213440/1	HULL A63	19/10/2020	-	No Asbestos Detected				15
20-29485	1089473	DW2213553/1	WHITTING	22/10/2020	-	No Asbestos Detected				9.8
20-29485	1089474	DW2213524/1	STOTFOLD ACM	22/10/2020	-	No Asbestos Detected				14
20-29485	1089475	DW2213524/2	STOTFOLD ACM	22/10/2020	Fibres/Clumps	Chrysotile	<0.001	-	<0.001	12
20-29485	1089476	DW2213573/1	ATTENBOR	23/10/2020	-	No Asbestos Detected				10
20-29485	1089477	DW2213525/1	STOTFOLD TPH/ACM	26/10/2020	Fibres/Clumps	Chrysotile	<0.001	-	<0.001	19
20-29485	1089478	DW2213525/2	STOTFOLD TPH/ACM	26/10/2020	-	No Asbestos Detected				19
20-29484	1089479	DW2213466/1	Taunton	19/10/2020	-	No Asbestos Detected				10
20-29484	1089480	DW2213466/2	Taunton	19/10/2020	-	No Asbestos Detected				13

20-29484	1089481	DW2213466/3	Taunton	19/10/2020	-	No Asbestos Detected				12
20-29484	1089482	DW2213462/1	Devonport	22/10/2020	-	No Asbestos Detected				5.9
20-29484	1089483	DW2213489/1	Lovelace	22/10/2020	-	No Asbestos Detected				11
20-29484	1089484	DW2213489/2	Lovelace	22/10/2020	-	No Asbestos Detected				12
20-29484	1089485	DW2213526/1	STOTFOLD TPH	26/10/2020	-	No Asbestos Detected				15
20-29484	1089486	DW2213526/2	STOTFOLD TPH	26/10/2020	-	No Asbestos Detected				15
20-29484	1089487	DW2213691/1	Tilbury Substation	26/10/2020	-	No Asbestos Detected				8.8
20-29774	1091138	DW2213325/2	Wood View Garage	30/10/2020	Fibres/Clumps	Amosite	0.005		0.005	22
20-29774	1091139	DW2213705/1	Parkhurst Road	02/11/2020	-	No Asbestos Detected				15
20-29774	1091140	DW2213705/2	Parkhurst Road	02/11/2020	-	No Asbestos Detected				14
20-29938	1091848	DW2213844/1	St Andrew's	04/11/2020	-	No Asbestos Detected				16
20-29938	1091849	DW2213844/2	St Andrew's	04/11/2020	-	No Asbestos Detected				17
20-29948	1091868	DW2213853/1	Barking Substation	03/11/2020	Fibre bundle	Amosite	<0.001		<0.001	16
20-29948	1091869	DW2213853/2	Barking Substation	03/11/2020	-	No Asbestos Detected				19
20-30563	1094886	DW2213769/1	Hennock Road	09/11/2020	-	No Asbestos Detected				7.1
20-30563	1094887	DW2213853/3	Barking Substation	09/11/2020	-	No Asbestos Detected				17
20-30563	1094888	DW2213844/3	St Andrew's	09/11/2020	-	No Asbestos Detected				18
20-30563	1094889	DW2213844/4	St Andrew's	10/11/2020	-	No Asbestos Detected				10
20-30753	1095709	DW2213964/1	Lostock	11/11/2020	-	No Asbestos Detected				10
20-30753	1095710	DW2213964/2	Lostock	11/11/2020	-	No Asbestos Detected				10
20-30753	1095711	DW2214145/1	Richmond	11/11/2020	-	No Asbestos Detected				13
20-32306	1103649	DW2214379/1	A46 WORKS	24/11/2020	-	No Asbestos Detected				6.2

20-32306	1103650	DW2214306/1	CHERTSEY ROAD	24/11/2020	-	No Asbestos Detected				0.7
20-32306	1103651	DW2214412/1	BLACKBERRY HILL	24/11/2020	-	No Asbestos Detected				11
20-32306	1103652	DW2214393/1	SOUTH ROAD	24/11/2020	-	No Asbestos Detected				13
20-32724	1105809	DW2214571/1	Frog Lane	26/11/2020	-	No Asbestos Detected				16
20-32724	1105810	DW2214571/2	Frog Lane	26/11/2020	-	No Asbestos Detected				14
20-33512	1109446	DW2213539/1	Magna Park	03/12/2020	Fibres/Clumps	Amosite Chrysotile	0.003		0.003	16
20-33512	1109447	DW2213539/2	Magna Park	03/12/2020	Fibres/Clumps	Amosite Chrysotile	0.004		0.004	16
20-33512	1109448	DW2213539/3	Magna Park	03/12/2020	Insulation	Amosite Chrysotile	0.076		0.076	13
20-33512	1109449	DW2213539/4	Magna Park	03/12/2020	-	No Asbestos Detected				12
20-33512	1109450	DW2213844/5	St. Andrew's	03/12/2020	-	No Asbestos Detected				17
20-33512	1109451	DW2213844/6	St. Andrew's	03/12/2020	-	No Asbestos Detected				16
20-33512	1109452	DW2213844/7	St. Andrew's	03/12/2020	-	No Asbestos Detected				16
20-33512	1109453	DW2213844/8	St. Andrew's	03/12/2020	-	No Asbestos Detected				13
20-33739	1110482	DW/2214805/1	Green Lane	07/12/2020	-	No Asbestos Detected				16
20-33739	1110483	DW2214694/1	Plymouth	07/12/2020	-	No Asbestos Detected				29
20-33739	1110484	DW2214393/2	South Rd	07/12/2020	-	No Asbestos Detected				9.8
20-33739	1110485	DW2214038/1	Pinewood Rd	07/12/2020	-	No Asbestos Detected				11
20-33739	1110486	DW2213694/3	Lostock	07/12/2020	-	No Asbestos Detected				9.5
20-33739	1110487	DW2213964/4	Lostock	07/12/2020	-	No Asbestos Detected				9.9
20-33739	1110488	DW2214844/1	Shrewsbury	07/12/2020	-	No Asbestos Detected				13
20-33739	1110489	DW2214844/2	Shrewsbury	07/12/2020	-	No Asbestos Detected				15
20-33739	1110490	DW2214844/3	Shrewsbury	08/12/2020	-	No Asbestos Detected				14
20-33739	1110491	DW2214798/1	Azko Nobel ACM	08/12/2020	-	No Asbestos Detected				12
20-34172	1112589	DW2214782/1	Studham	08/12/2020	-	No Asbestos Detected				14
20-35236	1118085	DW2215016/1	Watery Lane	17/12/2020	Fibres/Clumps	No Asbestos Detected	<0.001		<0.001	12

20-35236	1118086	DW2215016/2	Watery Lane	17/12/2020	Fibres/Clumps	Chrysotile	0.006		0.006	13
20-35236	1118087	DW2215054/1	High Post	17/12/2020	-	No Asbestos Detected				20
20-35236	1118088	DW2215054/2	High Post	17/12/2020	-	No Asbestos Detected				18
21-01226	1126057	DW2215330/1	WALSALL WOOD	14/01/2021	-	No Asbestos Detected				25
21-01226	1126058	DW2214412/3	BLACKBERRY HILL	14/01/2021	Cement, Fibres/Clumps	Chrysotile	0.003		0.003	13
21-01226	1126059	DW2214886/3	TARONI'S YARD	14/01/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	10
21-01226	1126060	DW2215107/1	UPTON	14/01/2021	-	No Asbestos Detected				11
21-01226	1126061	DW2215188/1	LENBOROUGH RD	14/01/2021	-	No Asbestos Detected				20
21-01226	1126062	DW2215188/2	LENBOROUGH RD	14/01/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	10
21-01226	1126063	DW2215193/1	MURSLEY ROAD	14/01/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	12
21-01226	1126063	DW2215193/1	MURSLEY ROAD	14/01/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	12
21-01226	1126064	DW2215199/1	CROFTON CREEP	14/01/2021	-	No Asbestos Detected				14
21-01226	1126065	DW2212124/1	CHADDOCK LANE	14/01/2021	-	No Asbestos Detected				9.8
21-01226	1126066	DW2214844/1	SHREWSBURY	14/01/2021	Lagging	Chrysotile	0.096		0.096	9.6
21-01226	1126067	DW2214964/1	LEMINGTON SPA	14/01/2021	-	No Asbestos Detected				7.1
21-01226	1126068	DW2214964/2	LEMINGTON SPA	14/01/2021	-	No Asbestos Detected				9
21-01226	1126069	DW2214964/3	LEMINGTON SPA	14/01/2021	-	No Asbestos Detected				9.6
21-01226	1126070	DW2214964/4	LEMINGTON SPA	14/01/2021	-	No Asbestos Detected				9.7
21-01226	1126071	DW2215097/1	HANLEY ROAD	14/01/2021	-	No Asbestos Detected				11
21-01226	1126072	DW2215097/2	HANLEY ROAD	14/01/2021	-	No Asbestos Detected				12

21-01226	1126073	DW2215181/1	HOOPER ST ACM	14/01/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	20
21-01226	1126074	DW2215181/2	HOOPER ST ACM	14/01/2021	-	No Asbestos Detected				18
21-01226	1126075	DW2213039/1	BISHOP ELLIS	14/01/2021	-	No Asbestos Detected				11
21-01226	1126076	DW2215253/1	ROYAL MAJESTIC	14/01/2021	-	No Asbestos Detected				11
21-01226	1126077	DW2215464/1	TRELISKE	14/01/2021	-	No Asbestos Detected				17
21-01226	1126078	DW2215378/1	PORTISHEAD	14/01/2021	-	No Asbestos Detected				13
21-02781	1133475	DW22125956/1	Kingsgate	28/01/2021	-	No Asbestos Detected				16
21-02781	1133476	DW22125956/2	Kingsgate	28/01/2021	-	No Asbestos Detected				13
21-02781	1133477	DW2215573/1	Iffley Academy	28/01/2021	-	No Asbestos Detected				15
21-02781	1133478	DW2215573/2	Iffley Academy	28/01/2021	-	No Asbestos Detected				13
21-02781	1133479	DW2215464/1	Treliske	28/01/2021	-	No Asbestos Detected				18
21-02797	1133580	DW2214854/1	Avon Street	27/01/2021	Fibres/Clumps	Amosite	0.003		0.003	19
21-02797	1133581	DW2199037/5	2ZLF	28/01/2021	-	No Asbestos Detected				45
21-02797	1133582	DW2215675/1	Kettering	28/01/2021	-	No Asbestos Detected				17
21-02797	1133583	DW2215675/2	Kettering	28/01/2021	-	No Asbestos Detected				11
21-02797	1133584	DW2215675/3	Kettering	28/01/2021	-	No Asbestos Detected				12
21-02797	1133585	DW2215396/1	Coldharbour Lane	28/01/2021	-	No Asbestos Detected				21
21-02797	1133586	DW2215396/2	Coldharbour Lane	28/01/2021	-	No Asbestos Detected				23
21-02797	1133587	DW2215396/3	Coldharbour Lane	28/01/2021	-	No Asbestos Detected				20
21-02797	1133588	DW2215808/1	Hereford Sidings	28/01/2021	-	No Asbestos Detected				16
21-02797	1133589	DW2213873/1	BMW Pressings	28/01/2021	-	No Asbestos Detected				8.2
21-02797	1133590	DW2213873/2	BMW Pressings	28/01/2021	-	No Asbestos Detected				7.2

21-03563	1137545	DW2213844/9	ST ANDREWS	03/02/2021	-	No Asbestos Detected			20
21-03629	1137829	DW2216034/1	Churchill	03/02/2021	-	No Asbestos Detected	-		16
21-04450	1141583	DW2213844/10	ST ANDREWS	10/02/2021	-	No Asbestos Detected			16
21-04450	1141584	DW2213844/11	ST ANDREWS	11/02/2021	-	No Asbestos Detected			18
21-04450	1141585	DW2213844/12	ST ANDREWS	11/02/2021	-	No Asbestos Detected			20
21-04450	1141586	DW2213844/13	ST ANDREWS	12/02/2021	-	No Asbestos Detected			18
21-04450	1141587	DW2216211/1	REDDITCH GATEWAY	10/02/2021	-	No Asbestos Detected			16
21-04450	1141588	DW2216263/1	CORNWALL	11/02/2021	-	No Asbestos Detected			10
21-04450	1141589	DW2216046/1	LEONARDO HELI	11/02/2021	-	No Asbestos Detected			9.3
21-04450	1141590	DW2216251/1	THE GATEHOUSE	11/02/2021	-	No Asbestos Detected			11
21-04450	1141591	DW2216326/1	STOKE MADEVILLE	11/02/2021	-	No Asbestos Detected			25
21-04450	1141592	DW2216349/1	PORT OF TILBURY	11/02/2021	-	No Asbestos Detected			23
21-04450	1141593	DW2216349/2	PORT OF TILBURY	11/02/2021	-	No Asbestos Detected			26
21-04450	1141594	DW2216069/1	STUDLEY	11/02/2021	-	No Asbestos Detected			16
21-04450	1141595	DW2216078/1	VINE STREET	11/02/2021	-	No Asbestos Detected			9.2
21-04450	1141596	DW2212981/2	MANOR FARM	11/02/2021	-	No Asbestos Detected			13
21-04450	1141597	DW2214412/4	BLACKBERRY HILL	11/02/2021	-	No Asbestos Detected			20
21-04450	1141598	DW2214854/2	AVON ST	11/02/2021	-	No Asbestos Detected			14
21-04450	1141599	DW2216340/1	GWR YARD	11/02/2021	-	No Asbestos Detected			10
21-04450	1141600	DW2215808/2	HEREFORD SIDINGS	11/02/2021	-	No Asbestos Detected			13
21-04450	1141601	DW2216039/1	LENBOROUGH	11/02/2021	-	No Asbestos Detected			9.5

21-04450	1141602	DW2216039/2	LENBOROUGH	11/02/2021	-	No Asbestos Detected				17
21-06237	1150830	DW2216781/1	Polbridge	25/02/2021	-	No Asbestos Detected				20
21-06237	1150831	DW2216781/2	Polbridge	25/02/2021	Fibres/Clumps	Chrysotile	0.002		0.002	19
21-06249	1150888	DW2216671/1	Gladstone Road	25/02/2021	-	No Asbestos Detected				9.3
21-06249	1150889	DW2216671/2	Gladstone Road	25/02/2021	-	No Asbestos Detected				9
21-06249	1150890	DW2214772/1	Taunton ACM + TPH	25/02/2021	-	No Asbestos Detected				18
21-06249	1150891	DW2214772/2	Taunton ACM + TPH	25/02/2021	-	No Asbestos Detected				16
21-06249	1150892	DW2216362/1	Yeo Street	25/02/2021	-	No Asbestos Detected				18
21-06249	1150893	DW2216561/1	Hill Farm	25/02/2021	-	No Asbestos Detected				14
21-06249	1150894	DW2216326/2	Stoke Mandeville	25/02/2021	-	No Asbestos Detected				21
21-06249	1150895	DW2215378/2	Portishead	25/02/2021	-	No Asbestos Detected				20
21-06249	1150896	DW2216263/2	Cornwall	25/02/2021	-	No Asbestos Detected				25
21-06249	1150897	DW2215956/1	Kingsagte House	25/02/2021	-	No Asbestos Detected				18
21-06249	1150898	DW2215956/2	Kingsgate House	25/02/2021	-	No Asbestos Detected				20
21-06249	1150903	DW2216616/1	Ronayne Walk	25/02/2021	-	No Asbestos Detected				18
21-06249	1150904	DW2209903/4	EWC FC	25/02/2021	-	No Asbestos Detected				47
21-06249	1150905	DW2216743/1	Flinders Close	25/02/2021	-	No Asbestos Detected				9
21-06249	1150906	DW2214639/2	Woodfines Newport	25/02/2021	-	No Asbestos Detected				38
21-06249	1150907	DW2216737/1	Blandford Road	25/02/2021	-	No Asbestos Detected				14
21-06249	1150908	DW2216737/2	Blandford Road	26/02/2021	-	No Asbestos Detected				13
21-06820	1153856	DW2213539/2	Lutterworth	02/03/2021	-	No Asbestos Detected				13
21-06820	1153857	DW2213539/3	Lutterworth	02/03/2021	-	No Asbestos Detected				11
21-06820	1153858	DW2213539/4	Lutterworth	02/03/2021	Board	Amosite Chrysotile	0.16		0.16	16
21-06820	1153859	DW2216800/1	Springfield Rd	03/03/2021	-	No Asbestos Detected				18

21-07199	1155513	DW2216914/1	Exeter	04/03/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	10
21-07199	1155514	DW2216977/1	Kings Langley	04/03/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	9.1
21-08630	1162510	DW2217254/1	Bolton Plot	15/03/2021	-	No Asbestos Detected				12
21-08630	1162511	DW2216977/2	Kings Langley	15/03/2021	Fibres/Clumps	Amosite Chrysotile	0.23		0.23	11
21-08630	1162512	DW2214694/1	Plymouth Hosp	15/03/2021	-	No Asbestos Detected				13
21-08630	1162513	DW2214694/2	Plymouth Hosp	17/03/2021	Cement	Chrysotile	0.001		0.001	11
21-08630	1162514	DW2217101/1	Sherburn	15/03/2021	-	No Asbestos Detected				16
21-08630	1162515	DW2217013/1	Millpool	16/03/2021	Board	Amosite Chrysotile	0.069	<0.001	0.069	15
21-08630	1162516	DW2217013/2	Millpool	16/03/2021	Fibres/Clumps	Chrysotile	0.001		0.001	15
21-09456	1166335	DW2217182/1	HS2 Ruislip	22/03/2021	-	No Asbestos Detected				14
21-09456	1166336	DW2217182/2	HS2 Ruislip	22/03/2021	-	No Asbestos Detected				12
21-09456	1166337	DW2217013/3	Millpool	22/03/2021	-	No Asbestos Detected				13
21-09456	1166338	DW2214772/3	Taunton ACM + TPH	22/03/2021	-	No Asbestos Detected				14
21-09456	1166339	DW2217101/2	Sherburn	22/03/2021	-	No Asbestos Detected				15
21-09456	1166340	DW2216732/1	Yeovil	22/03/2021	-	No Asbestos Detected				13
21-09456	1166341	DW2213539/5	Lutterworth	22/03/2021	-	No Asbestos Detected				12
21-09456	1166342	DW2216809/1	Huddersfield	22/03/2021	-	No Asbestos Detected				14
21-09456	1166343	DW2217364/1	Flawforth	22/03/2021	-	No Asbestos Detected				18
21-09928	1168496	DW2217582/1	RAF Hereford	26/03/2021	-	No Asbestos Detected				20
21-09928	1168497	DW2217568/1	Towersey	26/03/2021	-	No Asbestos Detected				18
21-10407	1170544	DW2217685/1	Torquay	30/03/2021	-	No Asbestos Detected				16
21-10407	1170545	DW2217685/2	Torquay	30/03/2021	-	No Asbestos Detected				17
21-10407	1170546	DW2217668/1	Gloucester	30/03/2021	-	No Asbestos Detected				3.5
21-10407	1170547	DW2214762/1	Stephenson St	30/03/2021	Fibres/Clumps	Amosite	0.001		0.001	22
21-10407	1170548	DW2217460/2	Shell Chingford	30/03/2021	-	No Asbestos Detected				11

21-10407	1170549	DW2217460/3	Shell Chingford	30/03/2021	-	No Asbestos Detected				11
21-10411	1170559	DW2217654/1	Luckwell Road	30/03/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	9.9
21-10411	1170560	DW2217654/2	Luckwell Road	31/03/2021	-	No Asbestos Detected				10
21-10411	1170561	DW2216532/1	Project Bradford	31/03/2021	-	No Asbestos Detected				20
21-10411	1170562	DW2216532/2	Project Bradford	31/03/2021	-	No Asbestos Detected				17
21-10411	1170563	DW2217686/1	Grange Over Sands	31/03/2021	-	No Asbestos Detected				25
21-11112	1174989	DW2217752/1	Broadfield Farm	06/04/2021	Fibres/Clumps	Amosite Chrysotile	<0.001		<0.001	9.9
21-11112	1174990	DW2214694/4	Plymouth Hosp	07/04/2021	-	No Asbestos Detected				13
21-11112	1174991	DW2216800/2	Springfield Rd	07/04/2021	-	No Asbestos Detected				12
21-11112	1174992	DW2217568/2	Towersley	07/04/2021	Fibres/Clumps	Chrysotile	0.011		0.011	14
21-11112	1174993	DW2217860/1	Portsmouth IP	07/04/2021	-	No Asbestos Detected				12
21-12004	1179551	DW2217860/2	Portsmouth IP	13/04/2021	-	No Asbestos Detected				13
21-12004	1179552	DW2217870/1	Harwell	13/04/2021	-	No Asbestos Detected				17
21-12004	1179554	DW2217847/1	Uplands College	13/04/2021	-	No Asbestos Detected				9
21-12004	1179555	DW2217334/1	Leoardo Heli	13/04/2021	-	No Asbestos Detected				18
21-12004	1179556	DW2218001/1	Prince of Wales	13/04/2021	-	No Asbestos Detected				10
21-12004	1179557	DW2218067/1	Chester Rd	14/04/2021	Fibres/Clumps	Chrysotile	0.001		0.001	12
21-12731	1183093	DW2218097/1	Melksham	19/04/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	12
21-12851	1183721	DW2216532/3	Project Bradford	19/04/2021	-	No Asbestos Detected				13
21-12851	1183722	DW2217654/3	Luckwell Road	19/04/2021	-	No Asbestos Detected				8.1
21-12851	1183723	DW2217810/2	Hallen Ind Est	19/04/2021	-	No Asbestos Detected				7.3
21-12851	1183724	DW2218149/1	Muskgrove	19/04/2021	-	No Asbestos Detected				8.9
21-12851	1183725	DW2218149/2	Muskgrove	19/04/2021	-	No Asbestos Detected				9.8
21-13563	1187198	DW2218037/1	Pelikaan	22/04/2021	-	No Asbestos Detected				10
21-13563	1187199	DW2218300/1	Upper Don	22/04/2021	-	No Asbestos Detected				11

21-13563	1187200	DW2217860/3	Portsmouth IP	22/04/2021	-	No Asbestos Detected				8.2
21-14641	1193203	DW2217654/4	Luckwell Road	28/04/2021	Fibres/Clumps	Chrysotile	0.006		0.006	6.1
21-14641	1193204	DW2218037/2	Pelikaan	28/04/2021	-	No Asbestos Detected				6.8
21-14641	1193205	DW2213844/14	St Andrew's	29/04/2021	-	No Asbestos Detected				11
21-15156	1196044	DW2218463/1	South Elmsall	05/05/2021	-	No Asbestos Detected				15
21-15156	1196045	DW2218463/2	South Elmsall	05/05/2021	-	No Asbestos Detected				14
21-15156	1196046	DW2218463/3	South Elmsall	07/05/2021	-	No Asbestos Detected				14
21-15156	1196047	DW2218682/1	Pelham Waterside	07/05/2021	Fibres/Clumps	Amosite Chrysotile Crocidolite	0.001		0.001	11
21-15156	1196048	DW2217910/1	Plantforce Rentals	07/05/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	11
21-15156	1196049	DW2218818/1	North Parade	07/05/2021	-	No Asbestos Detected				13
21-15978	1200191	DW2218463/4	South Elmsall	10/05/2021	-	No Asbestos Detected				18
21-15978	1200192	DW2218463/5	South Elmsall	10/05/2021	-	No Asbestos Detected				17
21-15978	1200193	DW2218463/6	South Elmsall	11/05/2021	-	No Asbestos Detected				17
21-15978	1200194	DW2218463/7	South Elmsall	12/05/2021	-	No Asbestos Detected				19
21-15978	1200195	DW2218463/8	South Elmsall	13/05/2021	-	No Asbestos Detected				18
21-15978	1200196	DW2218788/1	Copthall Farm	12/05/2021	-	No Asbestos Detected				14
21-15978	1200197	DW2218901/1	Jenkins Lane	12/05/2021	-	No Asbestos Detected				15
21-15978	1200198	DW2218800/1	Manchester Airport	12/05/2021	-	No Asbestos Detected				15
21-17233	1206090	DW2218463/9	South Elmsall	18/05/2021	-	No Asbestos Detected				24
21-17233	1206091	DW2218463/10	South Elmsall	19/05/2021	-	No Asbestos Detected				25
21-17233	1206092	DW2218463/11	South Elmsall	20/05/2021	-	No Asbestos Detected				21
21-17233	1206093	DW2218880/1	Uplands Eden Way	18/05/2021	Fibres/Clumps	Amosite	<0.001		<0.001	14
21-17233	1206094	DW2219078/1	Biart Place	18/05/2021	-	No Asbestos Detected				9.3
21-17233	1206095	DW2219078/2	Biart Place	20/05/2021	-	No Asbestos Detected				7.4

21-17233	1206096	DW2219088/1	Toulouse	20/05/2021	Fibres/Clumps	Chrysotile	0.002		0.002	13
21-17233	1206097	DW2219031/1	Ferrybridge	20/05/2021	Fibres/Clumps	Amosite	0.001		0.001	9.4
21-17233	1206098	DW2216326/3	Stoke Mandeville	20/05/2021	-	No Asbestos Detected				17
21-18447	1212125	DW2218463/12	South Elmsall	01/06/2021	-	No Asbestos Detected				18
21-18447	1212126	DW2219237/1	Moore Rd	01/06/2021	-	No Asbestos Detected				16
21-18887	1214740	DW2219396/1	Ware Lane	02/06/2021	-	No Asbestos Detected				18
21-20392	1222004	DW2219396/2	Ware Lane	11/06/2021	-	No Asbestos Detected				10
21-20392	1222005	DW2216326/4	Stoke Mandeville	11/06/2021	-	No Asbestos Detected				21
21-20392	1222006	DW2218901/2	Jenkins Lane	11/06/2021	Fibres/Clumps	Chrysotile	0.001		0.001	15
21-20392	1222007	DW2219511/1	Highbridge	11/06/2021	-	No Asbestos Detected				16
21-20392	1222008	DW2210374/4	Belvedere Project	11/06/2021	-	No Asbestos Detected				33
21-20392	1222009	DW2219556/1	Barking Substation	11/06/2021	Fibres/Clumps	Chrysotile	0.003		0.003	15
21-20392	1222010	DW2219556/2	Barking Substation	14/06/2021	Fibres/Clumps	Chrysotile	0.005		0.005	14
21-22023	1229814	DW2219638/1	HS2 CHIPPING	22/06/2021	-	No Asbestos Detected				22
21-22023	1229815	DW2219638/2	HS2 CHIPPING	23/06/2021	-	No Asbestos Detected				23
21-22023	1229816	DW2219638/3	HS2 CHIPPING	24/06/2021	-	No Asbestos Detected				20
21-22023	1229817	DW2219088/1	WESTERHAM HEIGHTS	23/06/2021	-	No Asbestos Detected				20
21-22023	1229818	DW2210374/5	BELVEDERE PROJECT	24/06/2021	-	No Asbestos Detected				26
21-22023	1229819	DW2219729/1	WARREN HOUSE	22/06/2021	-	No Asbestos Detected				15
21-22902	1233962	DW2220114/1	ASPEN DRIVE	30/06/2021	Fibres/Clumps	Chrysotile	0.16		0.16	33
21-22902	1233963	DW2220146/1	LYTTON GROVE QT	01/07/2021	Cement	Chrysotile	0.12		0.12	7.4

21-22902	1233964	DW2220120/1	BECKENHAM	01/07/2021	Fibres/Clumps	Chrysotile	0.006		0.006	16
21-22902	1233965	DW2220186/1	WORTHING	01/07/2021	-	No Asbestos Detected				13
21-24099	1240050	DW2220464/1	Royal Orthopaedic	09/07/2021	-	No Asbestos Detected				19
21-24099	1240051	DW2220306/1	West Ruislip	09/07/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	16
21-24099	1240052	DW2210374/6	Belevedere Project	07/07/2021	-	No Asbestos Detected				24
21-24099	1240053	DW2213074/7	Belevedere Project	07/07/2021	-	No Asbestos Detected				36
21-24099	1240054	DW2210374/8	Belevedere Project	08/07/2021	-	No Asbestos Detected				23
21-24099	1240055	DW2210374/9	Belevedere Project	09/07/2021	Fibres/Clumps	Chrysotile	0.001		0.001	27
21-24099	1240056	DW2210374/10	Belevedere Project	12/07/2021	-	No Asbestos Detected				25
21-24099	1240057	DW2219638/4	HS2 Chipping	07/07/2021	-	No Asbestos Detected				16
21-24099	1240058	DW2219638/5	HS2 Chipping	08/07/2021	-	No Asbestos Detected				17
21-24099	1240059	DW2219638/6	HS2 Chipping	08/07/2021	-	No Asbestos Detected				16
21-24099	1240060	DW2219638/7	HS2 Chipping	09/07/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	15
21-24099	1240061	DW2219638/8	HS2 Chipping	09/07/2021	-	No Asbestos Detected				14
21-24102	1240075	DW2216326/5	Stoke Mandeville	07/07/2021	-	No Asbestos Detected				15
21-24102	1240076	DW2216326/6	Stoke Mandeville	08/07/2021	-	No Asbestos Detected				15
21-24102	1240077	DW2217654/5	Luckwell Road	07/07/2021	-	No Asbestos Detected				18
21-26777	1253374	DW2210374/11	Belvedere Project	02/08/2021	-	No Asbestos Detected				9.3
21-26777	1253375	DW2220813/1	Weston Super Mare	30/07/2021	-	No Asbestos Detected				15
21-26777	1253376	DW2220961/1	Corsham	02/08/2021	-	No Asbestos Detected				12

21-26777	1253377	DW2220836/1	Chrisp Street	30/07/2021	-	No Asbestos Detected				18
21-26777	1253378	DW2220674/3	Oxford	30/07/2021	-	No Asbestos Detected				13
21-26777	1253379	DW2220652/2	Holy Trinity	30/07/2021	-	No Asbestos Detected				18
21-26777	1253380	DW2220819/1	Hillcrest Road	30/07/2021	-	No Asbestos Detected				16
21-26777	1253381	DW2220819/2	Hillcrest Road	30/07/2021	-	No Asbestos Detected				18
21-26777	1253382	DW2220715/3	Mayfield	02/08/2021	-	No Asbestos Detected				15
21-26777	1253383	DW2220899/1	St Annes Lane	02/08/2021	-	No Asbestos Detected				9.1
21-26777	1253384	DW2220231/3	Congleton	30/07/2021	-	No Asbestos Detected				18
21-26777	1253385	DW2220628/2	Rushden	02/08/2021	-	No Asbestos Detected				21
21-42805	1333541	DW2224002/1	Saxonvale	24/11/2021	-	No Asbestos Detected				15
21-42805	1333542	DW2224002/2	Saxonvale	25/11/2021	-	No Asbestos Detected				15
21-42805	1333543	DW2224023/1	Manor Farm	25/11/2021	-	No Asbestos Detected				13
21-42805	1333544	DW2224023/2	Manor Farm	25/11/2021	-	No Asbestos Detected				14
21-42805	1333545	DW2224059/1	Holme Lane	01/12/2021	Fibres/Clumps, Board	Chrysotile	0.02		0.02	4
21-44056	1339426	DW2220231/4	Congleton	06/12/2021	-	No Asbestos Detected				9.3
21-44056	1339427	DW2221837/3	Bristol Road	06/12/2021	-	No Asbestos Detected				12
21-44056	1339428	DW2224082/1	Manor Farm HC	06/12/2021	-	No Asbestos Detected				15
21-44056	1339429	DW2224082/2	Manor Farm HC	08/12/2021	-	No Asbestos Detected				15
21-44056	1339430	DW2224023/3	Manor Farm	06/12/2021	-	No Asbestos Detected				14
21-44056	1339431	DW2222923/2	Warwick	07/12/2021	-	No Asbestos Detected				14
21-44056	1339432	DW2223607/1	Chesterfield	08/12/2021	-	No Asbestos Detected				14
21-44056	1339433	DW2217654/6	Luckwell Road	06/12/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	11
21-44056	1339434	DW2217654/7	Luckwell Road	08/12/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	11
21-44056	1339435	DW2223683/2	Aylesford	06/12/2021	-	No Asbestos Detected				15
21-44056	1339436	DW2223040/1	Rickmansworth	06/12/2021	Cement	Chrysotile	4.7		4.7	14

21-44056	1339437	DW2224184/1	Essex Street	06/12/2021	-	No Asbestos Detected				15
21-44938	1343728	DW2224369/1	Manor Road	15/12/2021	-	No Asbestos Detected				20
21-44938	1343729	DW2224497/1	Peddimore Lane	16/12/2021	Fibres/Clumps	Chrysotile	<0.001		<0.001	23
21-44938	1343730	DW2224497/2	Peddimore Lane	16/12/2021	Composite plastic	Chrysotile Crocidolite	<0.001		<0.001	22
21-44938	1343731	DW2224420/1	Stephenson St	15/12/2021	-	No Asbestos Detected				15
22-01448	1353157	DW2224722/1	Maiden Lane	10/01/2022	-	No Asbestos Detected				19
22-01448	1353158	DW2224779/1	Kings College	10/01/2022	-	No Asbestos Detected				21
22-01448	1353159	DW2224731/1	Tennants Rd	11/01/2022	-	No Asbestos Detected				27
22-02272	1356970	DW2224462/1	Weymouth	20/01/2022	-	No Asbestos Detected				16
22-03257	1361842	DW2224879/1	Twigworth	24/01/2022	-	No Asbestos Detected				24
22-03257	1361843	DW2224879/2	Twigworth	25/01/2022	-	No Asbestos Detected				25
22-03257	1361844	DW2225096/1	Wood Green	26/01/2022	Fibres/Clumps	Amosite Chrysotile	0.008		0.008	19
22-03257	1361845	DW2225078/1	Tenby Street	26/01/2022	Fibres/Clumps	Chrysotile	0.005		0.005	16
22-05171	1370568	DW2225096/2	Wood Green	10/02/2022	-	No Asbestos Detected				13
22-05988	1374499	DW2225376/1	Carlton Ave	14/02/2022	Fibres/Clumps	Chrysotile	<0.001		<0.001	13
22-05988	1374500	DW2225376/2	Carlton Ave	14/02/2022	Fibres/Clumps	Chrysotile	<0.001		<0.001	14
22-05988	1374501	DW2225512/1	Temple Fields	14/02/2022	-	No Asbestos Detected				11
22-05988	1374502	DW2225512/2	Temple Fields	14/02/2022	-	No Asbestos Detected				11
22-06240	1375538	DW2225376/3	Carlton Ave	17/02/2022	-	No Asbestos Detected				20
22-07021	1378958	DW2225724/1	Milford	22/02/2022	-	No Asbestos Detected				18
22-07357	1380638	DW2225768/1	Devon Road	24/02/2022	-	No Asbestos Detected				22
22-07357	1380639	DW2225768/2	Devon Road	24/02/2022	-	No Asbestos Detected				15
22-07357	1380640	DW2225798/1	Hillingdon	24/02/2022	-	No Asbestos Detected				25
22-07357	1380641	DW2225809/1	Coleshill	24/02/2022	-	No Asbestos Detected				20
22-07781	1382749	DW2225866/1	Knight Road	28/02/2022	Fibres/Clumps	Chrysotile	0.003		0.003	21
22-08579	1386485	DW2225917/1	Colchester	02/03/2022	-	No Asbestos Detected				10

22-08579	1386486	DW2225980/1	Third Way	04/03/2022	-	No Asbestos Detected				20
22-08579	1386487	DW2225980/2	Third Way	04/03/2022	-	No Asbestos Detected				20
22-08999	1388321	DW2225942/1	Skelton Grange	07/03/2022	-	No Asbestos Detected				15
22-08999	1388322	DW2225539/1	Lister Drive	07/03/2022	-	No Asbestos Detected				15
22-08999	1388323	DW2225539/2	Lister Drive	07/03/2022	Fibres/Clumps	Chrysotile	0.002		0.002	24
22-09470	1390476	DW2225539/3	Lister Drive	10/03/2022	-	No Asbestos Detected				15
22-09470	1390477	DW2225798/2	Hillingdon	10/03/2022	Fibres/Clumps	Chrysotile	0.007		0.007	14
22-10025	1392889	DW2219077/1	Snape Lane	14/03/2022	-	No Asbestos Detected				16
22-10025	1392890	DW2219077/2	Snape Lane	15/03/2022	-	No Asbestos Detected				17
22-10025	1392891	WE2226197/1	Shirley Garden Centre	15/03/2022	-	No Asbestos Detected				15
22-10887	1396822	DW2225539/4	Lister Drive	16/03/2022	-	No Asbestos Detected				15
22-10887	1396823	DW2226317/1	Argyll House	21/03/2022	-	No Asbestos Detected				12
22-10887	1396824	DW2226398/1	Melton Mowbray	21/03/2022	-	No Asbestos Detected				17
22-12798	1405522	DW2225768/3	Devon Road	25/03/2022	-	No Asbestos Detected				6.4
22-12798	1405523	DW2226552/1	Middle Street	28/03/2022	Fibres/Clumps	Chrysotile	0.005		0.005	13
22-12798	1405524	DW2226538/1	West Street	29/03/2022	Fibres/Clumps	Chrysotile	0.003		0.003	16
22-12798	1405525	DW2226538/2	West Street	29/03/2022	Fibres/Clumps	Chrysotile	0.001		0.001	17
22-12798	1405526	DW2226197/2	Wickham Rd	30/03/2022	Fibres/Clumps	Amosite	0.001		0.001	10
22-12798	1405527	DW2226585/1	Telcombe Rd	31/03/2022	-	No Asbestos Detected				13
22-13309	1408147	DW2226589/1	Guildford	04/04/2022	-	No Asbestos Detected				28
22-13309	1408148	DW2226589/2	Guildford	06/04/2022	-	No Asbestos Detected				21
22-13309	1408149	DW2224210/3	Kingsmill Hospital	06/04/2022	-	No Asbestos Detected				15
22-13309	1408150	DW2226779/1	Cross Lane	06/04/2022	-	No Asbestos Detected				27
22-13954	1410838	DW2226851/1	Lister drive QT	11/04/2022	Lagging	Chrysotile	0.02		0.02	5.2
22-13954	1410839	DW2226798/1	Sky Park Farm	11/04/2022	-	No Asbestos Detected				3.6

22-13954	1410840	DW2226604/1	Spring Lake	11/04/2022	-	No Asbestos Detected				4.1
22-13954	1410841	DW2226829/1	Sherlock St	12/04/2022	-	No Asbestos Detected				3.1
22-14395	1413071	DW2226851/2	Listers Drive QT	12/04/2022	-	No Asbestos Detected				13
22-14395	1413072	DW222325/9	Graven Hill	12/04/2022	-	No Asbestos Detected				30
22-14395	1413073	DW2226974/1	Wootton Road	13/04/2022	-	No Asbestos Detected				19
22-14395	1413074	DW2225942/2	Skelton Grange	14/04/2022	Fibres/Clumps	Amosite Chrysotile	0.018		0.018	17
22-14981	1415705	DW2227066/3	Wobaston Rd	21/04/2022	-	No Asbestos Detected				11
22-14981	1415706	DW2226761/1	Goods Road	20/04/2022	-	No Asbestos Detected				18
22-14999	1415786	DW2227066/1	Wobaston Rd	20/04/2022	-	No Asbestos Detected				8.7
22-15706	1419177	DW2227066/4	Wobaston Rd	25/04/2022	-	No Asbestos Detected				9.5
22-15706	1419178	DW2227066/5	Wobaston Rd	26/04/2022	Lagging	Amosite	0.019	<0.001	0.019	11
22-15706	1419179	DW2227146/1	Hereford	25/04/2022	-	No Asbestos Detected				13
22-15706	1419180	DW2227146/2	Hereford	26/04/2022	-	No Asbestos Detected				14
22-15952	1420011	DW2227216/1	Green Lane	27/04/2022	-	No Asbestos Detected				13
22-15952	1420012	DW2227206/2	Dartford	28/04/2022	Fibres/Clumps	Chrysotile	0.001		0.001	7.3
22-15954	1420025	DW2227206/1	Dartford	27/04/2022	-	No Asbestos Detected				7.1
22-15954	1420026	DW2227197/1	Synnerton Road	27/04/2022	-	No Asbestos Detected				9.8
22-16277	1421298	DW2227216/2	Green Lane	28/04/2022	-	No Asbestos Detected				13
22-16277	1421299	DW2227228/1	Wood End Lane	28/04/2022	-	No Asbestos Detected				15
22-16277	1421300	DW2227228/2	Wood End Lane	28/04/2022	-	No Asbestos Detected				18
22-16470	1422264	DW2227134/1	Kings Quarter	03/05/2022	-	No Asbestos Detected				11
22-16470	1422265	DW2227134/2	Kings Quarter	03/05/2022	-	No Asbestos Detected				11
22-17281	1425873	DW2227134/3	Kings Quarter	06/05/2022	-	No Asbestos Detected				22
22-17281	1425874	DW2227228/3	Wood End Lane	06/05/2022	-	No Asbestos Detected				12
22-17281	1425875	DW2227228/4	Wood End Lane	06/05/2022	-	No Asbestos Detected				14
22-17281	1425876	DW2227228/5	Wood End Lane	09/05/2022	-	No Asbestos Detected				14

22-17281	1425877	DW2227218/3	Green Lane	09/05/2022	-	No Asbestos Detected				9.4
22-17281	1425878	DW2227433/1	Gilborne Rd	09/05/2022	-	No Asbestos Detected				6.8
22-19703	1436411	DW2227433/2	Plumstead	18/05/2022	Fibres/Clumps	Crocidolite	0.001		0.001	4.3
22-19703	1436412	DW2227433/3	Plumstead	20/05/2022	Fibres/Clumps	Chrysotile	0.002		0.002	4.2
22-19703	1436413	DW2227433/4	Plumstead	23/05/2022	-	No Asbestos Detected				5.9
22-19703	1436414	DW2227433/5	Plumstead	23/05/2022	-	No Asbestos Detected				4.3
22-19703	1436415	DW2227830/1	Kidnappers Lane	23/05/2022	-	No Asbestos Detected				6.5
22-19703	1436416	DW2227772/1	Portishead	23/05/2022	-	No Asbestos Detected				13
22-20124	1438407	DW2227772/1	Portishead	25/05/2022	-	No Asbestos Detected				7.9
22-20124	1438408	DW2227885/1	Edge Lane	25/05/2022	-	No Asbestos Detected				17
22-20124	1438409	DW2227708/1	Coventry Lane	25/05/2022	-	No Asbestos Detected				4.7
22-20124	1438410	DW2227664/2	Wolverhampton Road	25/05/2022	-	No Asbestos Detected				9.8
22-20124	1438411	DW2220231/5	Congleton	26/05/2022	-	No Asbestos Detected				5.6
22-21799	1446605	DW2227937/1	Godmanchester	08/06/2022	-	No Asbestos Detected				15
22-21799	1446606	DW2228027/1	Regina Drive	08/06/2022	-	No Asbestos Detected				6.3
22-21799	1446607	DW2228008/1	Chapel Street	08/06/2022	-	No Asbestos Detected				6
22-23443	1453845	DW2228386/1	Farnham	17/06/2022	Fibres/Clumps	Chrysotile	0.001		0.001	7.8
22-23443	1453846	DW2228386/2	Farnham	20/06/2022	-	No Asbestos Detected				8.1
22-23443	1453847	DW2228388/1	Portley Road	20/06/2022	Fibres/Clumps	Amosite	0.005		0.005	23
22-23443	1453848	DW2228475/1	Saunderton	20/06/2022	-	No Asbestos Detected				19
22-23443	1453849	DW2228475/2	Saunderton	20/06/2022	-	No Asbestos Detected				18
22-23443	1453850	DW2228372/1	Catterall	21/06/2022	Fibres/Clumps	Chrysotile	0.001		0.001	18
22-23443	1453851	DW2228405/1	Sungrove Farm	21/06/2022	-	No Asbestos Detected				13
22-23443	1453852	DW2228405/2	Sungrove Farm	21/06/2022	Fibres/Clumps	Chrysotile	0.002		0.002	12
22-24522	1458403	DW2228595/1	Goffs Oak	24/06/2022	Fibres/Clumps	Chrysotile	0.004		0.004	9.5

22-24522	1458404	DW2228595/2	Goffs Oak	24/06/2022	Fibres/Clumps	Crocidolite	0.003		0.003	11
22-24522	1458405	DW2228425/3	Saunderton	27/06/2022	-	No Asbestos Detected				21
22-24522	1458406	DW2228596/1	Saltley ACM	27/06/2022	Fibres/Clumps	Chrysotile	0.007		0.007	16
22-24522	1458407	DW2228596/2	Saltley ACM	27/06/2022	Fibres/Clumps	Chrysotile Crocidolite	0.007		0.007	14
22-24522	1458408	DW2228471/1	Brentford	27/06/2022	Fibres/Clumps	Chrysotile	0.004		0.004	13
22-24522	1458409	DW2228372/2	Caterall	27/06/2022	-	No Asbestos Detected				11
22-24522	1458410	DW2228565/1	Sidlaw Close	28/06/2022	-	No Asbestos Detected				9.4
22-24522	1458411	DW2228604/1	Q.E. Docks	28/06/2022	Fibres/Clumps	Chrysotile	0.003		0.003	4.5
22-24522	1458412	DW2228604/2	Q.E. Docks	29/06/2022	-	No Asbestos Detected				6.4
22-24522	1458413	DW2228626/1	Orphanage Road	29/06/2022	Fibres/Clumps	Chrysotile	0.002		0.002	15
22-25436	1462693	DW2228803/1	Portbury	01/07/2022	-	No Asbestos Detected				14
22-25436	1462694	DW2228803/2	Portbury	01/07/2022	-	No Asbestos Detected				15
22-25436	1462695	DW2228386/3	Farnham	01/07/2022	Cement, Fibres/Clumps	Chrysotile	0.077		0.077	9.2
22-25436	1462696	DW2228816/1	Moor Lane	04/07/2022	Fibres/Clumps	Chrysotile	0.001		0.001	30
22-26661	1467857	DW2228871/1	Broseley	07/07/2022	-	No Asbestos Detected				40
22-26661	1467858	DW2228871/2	Broseley	08/07/2022	-	No Asbestos Detected				30
22-26661	1467859	DW2228803/3	Portbury	08/07/2022	-	No Asbestos Detected				9.3
22-26661	1467860	DW2228866/1	Essington Road	08/07/2022	-	No Asbestos Detected				8.8
22-26661	1467861	DW2228596/3	Saltley ACM	08/07/2022	-	No Asbestos Detected				17
22-26661	1467862	DW2228596/4	Saltley ACM	13/07/2022	-	No Asbestos Detected				16
22-26661	1467863	DW2228909/1	Saunderton SMS	08/07/2022	-	No Asbestos Detected				14
22-26661	1467864	DW2228909/2	Saunderton SMS	08/07/2022	-	No Asbestos Detected				16
22-26661	1467865	DW2228909/3	Saunderton SMS	13/07/2022	-	No Asbestos Detected				9.7
22-26661	1467866	DW2228510/1	Ecopark	08/07/2022	-	No Asbestos Detected				3.9
22-26661	1467867	DW2228873/1	Liberty Quarter	12/07/2022	-	No Asbestos Detected				16

22-26661	1467868	DW2228873/2	Liberty Quarter	12/07/2022	-	No Asbestos Detected				16
22-26676	1467894	DW2228909/4	Saunderton SMS	13/07/2022	-	No Asbestos Detected				10
22-26676	1467895	DW2228425/5	Saunderton	13/07/2022	-	No Asbestos Detected				10
22-27421	1471519	DW2228941/1	Scarborough	14/07/2022	-	No Asbestos Detected				13
22-27438	1471542	DW2228909/5	Saunderton SMS	15/07/2022	-	No Asbestos Detected				16
22-27438	1471543	DW2227433/6	Plumstead	18/07/2022	-	No Asbestos Detected				9.9
22-27438	1471544	DW2229134/1	Rugby Road	19/07/2022	-	No Asbestos Detected				8.6
22-28457	1476278	DW2229165/1	Sedgley	19/07/2022	-	No Asbestos Detected				0.94
22-28457	1476279	DW2229109/1	Tamworth Road	19/07/2022	-	No Asbestos Detected				3.8
22-28457	1476280	DW2229109/2	Tamworth Road	20/07/2022	Cement, Fibres/Clumps	Chrysotile Crocidolite	0.053		0.053	3.2
22-28457	1476281	DW2228174/1	M42 J6	22/07/2022	Fibres/Clumps, Board	Amosite Chrysotile	0.012		0.012	8.2
22-28457	1476282	DW2228174/2	M42 J6	22/07/2022	Fibres/Clumps	Amosite Chrysotile	0.003		0.003	9.2
22-28457	1476282	DW2228174/2	M42 J6	22/07/2022	Fibres/Clumps	Amosite Chrysotile	0.003		0.003	9.2
22-28457	1476283	DW2228174/3	M42 J6	25/07/2022	Fibres/Clumps, Board	Amosite Chrysotile	0.022		0.022	10
22-28457	1476284	DW2228174/4	M42 J6	26/07/2022	Fibres/Clumps	Chrysotile	0.004		0.004	11
22-28457	1476285	DW2229134/2	Rugby Road	25/07/2022	Fibres/Clumps, Board	Amosite	0.004		0.004	10
22-28457	1476286	DW2229282/1	Curzon St SMS	25/07/2022	-	No Asbestos Detected				11
22-28457	1476287	DW2229282/2	Curzon St SMS	25/07/2022	Fibres/Clumps	Amosite	0.002		0.002	9.8
22-28457	1476288	DW2228909/6	Saunderton SMS	26/07/2022	-	No Asbestos Detected				14
22-28457	1476289	DW2229214/1	Clapham Common	25/07/2022	-	No Asbestos Detected				2.4
22-28467	1476388	DW2229281/1	Pixash Lane	26/07/2022	-	No Asbestos Detected				14
22-28467	1476389	DW2229194/1	The Fountain	26/07/2022	Lagging	Chrysotile	0.004		0.004	9.6
22-28467	1476390	DW2228174/5	M42 J6	27/07/2022	Fibres/Clumps	Chrysotile	0.007		0.007	14

22-30229	1484287	DW2229165/1	Clapham Common	05/08/2022	-	No Asbestos Detected				0.62
22-30229	1484288	DW2228596/5	Saltley ACM	05/08/2022	-	No Asbestos Detected				10
22-30229	1484289	DW2229495/1	Warwick Road	05/08/2022	-	No Asbestos Detected				16
22-30229	1484290	DW2228425/6	Saunderton	05/08/2022	-	No Asbestos Detected				10
22-30229	1484291	DW2228454/2	Botley	05/08/2022	-	No Asbestos Detected				9.1
22-30256	1484402	DW2229587/1	Blackawton	08/08/2022	-	No Asbestos Detected				6
22-32709	1495101	DW2227218/4	Green Lane	15/08/2022	-	No Asbestos Detected				13
22-32709	1495102	DW2229719/1	Inkerman Street	15/08/2022	Fibres/Clumps	Chrysotile	0.001		0.001	11
22-32709	1495103	DW2229719/2	Inkerman Street	16/08/2022	Fibres/Clumps	Chrysotile	0.001		0.001	13
22-32709	1495104	DW2229719/3	Inkerman Street	17/08/2022	Fibres/Clumps	Chrysotile	0.004		0.004	15
22-32709	1495105	DW2229749/1	Kensington	16/08/2022	-	No Asbestos Detected				14
22-32709	1495106	DW2229749/2	Kensington	16/08/2022	Fibres/Clumps	Amosite	0.016		0.016	12
22-32709	1495107	DW2229626/1	Purelake New Homes	19/08/2022	Cement, Fibres/Clumps, Bitumen	Chrysotile	0.052		0.052	19
22-32709	1495108	DW2229883/1	Surry Excavations	19/08/2022	-	No Asbestos Detected				14
22-32709	1495109	DW2229452/1	Kier Gailford Try	23/08/2022	-	No Asbestos Detected				14
22-34080	1501499	DW2229749/5	Kensington	01/09/2022	-	No Asbestos Detected				11
22-34080	1501500	DW2230181/1	Whitchurch	05/09/2022	Fibres/Clumps	Amosite Chrysotile	0.028		0.028	16
22-34083	1501503	DW2229939/1	Pilgrims Wood	01/09/2022	-	No Asbestos Detected				6.4
22-34083	1501504	DW2228386/4	Farmham	01/09/2022	Fibres/Clumps	Chrysotile	0.05		0.05	12
22-34083	1501505	DW2229452/2	Francis Avenue	01/09/2022	-	No Asbestos Detected				13
22-34083	1501506	DW2229452/3	Francis Avenue	01/09/2022	-	No Asbestos Detected				9.8
22-34083	1501507	DW2230045/1	Rudloe Drive	01/09/2022	Fibres/Clumps, Board	Amosite Chrysotile	0.006		0.006	9.6
22-34083	1501508	DW2230045/2	Rudloe Drive	01/09/2022	-	No Asbestos Detected				

22-34083	1501509	DW2229719/4	Inkerman Street	01/09/2022	-	No Asbestos Detected				7.1
22-34083	1501510	DW2229425/7	Saunderton	01/09/2022	-	No Asbestos Detected				8.3
22-34083	1501511	DW2229883/2	Chilton	01/09/2022	-	No Asbestos Detected				6.6
22-34083	1501512	DW2220875/2	Bengeworth Road	01/09/2022	-	No Asbestos Detected				6.1
22-34083	1501513	DW2229749/3	Kensington	01/09/2022	-	No Asbestos Detected				11
22-34083	1501514	DW2229749/4	Kensington	01/09/2022	-	No Asbestos Detected				12
22-35213	1506388	DW2229452/4	Francis Avenue	08/09/2022	Fibres/Clumps	Chrysotile	<0.001		<0.001	13
22-35213	1506389	DW2228386/5	Farnham	08/09/2022	Fibres/Clumps	Chrysotile Crocidolite	<0.001		<0.001	14
22-35213	1506390	DW2230250/1	Waterlooville	09/09/2022	Fibres/Clumps	Amosite Chrysotile Crocidolite	0.054		0.054	18
22-35213	1506391	DW2230276/1	Watlington	09/09/2022	Fibres/Clumps	Amosite Chrysotile	0.083	<0.001	0.083	15
22-35213	1506392	DW2230220/1	Pelier Park	12/09/2022	-	No Asbestos Detected				14
22-35613	1508128	DW2230392/1	Rickmansworth	14/09/2022	Fibres/Clumps	Chrysotile	0.066		0.066	8.1
22-35613	1508129	DW2230392/2	Rickmansworth	15/09/2022	Fibres/Clumps	Chrysotile	0.012		0.012	11
22-35613	1508130	DW2230417/1	Butts Road	14/09/2022	-	No Asbestos Detected				11
22-35613	1508131	DW2229749/6	Kensington	15/09/2022	-	No Asbestos Detected				13
22-36601	1512744	DW2230526/1	Turweston	21/09/2022	Cement	Chrysotile	0.007		0.007	13
22-36601	1512745	DW2229939/2	Pilgrims Wood	22/09/2022	-	No Asbestos Detected				9
22-36601	1512746	DW2229719/5	Inkerman Street	22/09/2022	-	No Asbestos Detected				11
22-37602	1516913	DW2230708/1	Aylesbury	28/09/2022	-	No Asbestos Detected				9.9
22-37602	1516914	DW2230639/1	Silvertown Way	29/09/2022	Fibres/Clumps	Amosite	0.005		0.005	8.1
22-37602	1516915	DW2230589/1	Dulwich Common	29/09/2022	Fibres/Clumps	Chrysotile	0.003		0.003	9.1
22-37602	1516916	DW2230714/1	Birdbrook Road	29/09/2022	-	No Asbestos Detected				8.3
22-37602	1516917	DW2230714/2	Birdbrook Road	29/09/2022	-	No Asbestos Detected				8.6
22-39062	1523802	DW2230936/1	Milestone Road	10/10/2022	-	No Asbestos Detected				16

22-39062	1523803	DW2230781/1	Hatfield	10/10/2022	Fibres/Clumps	Amosite	0.001		0.001	13
22-39062	1523804	DW2230899/1	Curzon Street	10/10/2022	Fibres/Clumps, Board	Amosite	0.1		0.1	14
22-39062	1523805	DW2230899/2	Curzon Street	10/10/2022	Fibres/Clumps	Amosite Chrysotile	0.004		0.004	13
22-39062	1523806	DW2230899/3	Curzon Street	11/10/2022	Fibres/Clumps	Chrysotile	0.002		0.002	17
22-39062	1523807	DW2230736/1	Gayhurst Road	10/10/2022	Fibres/Clumps	Amosite	0.002		0.002	12
22-39062	1523808	DW2230736/2	Gayhurst Road	11/10/2022	Fibres/Clumps	Chrysotile	0.001		0.001	13
22-39062	1523809	DW2230713/1	Huddersfield	10/10/2022	-	No Asbestos Detected				10
22-39062	1523810	DW2230713/2	Huddersfield	11/10/2022	-	No Asbestos Detected				9.8
22-39062	1523811	DW2230713/3	Huddersfield	11/10/2022	-	No Asbestos Detected				10
22-39062	1523812	DW2230713/4	Huddersfield	11/10/2022	-	No Asbestos Detected				9.8
22-39062	1523813	DW2231041/1	Bensham Lane	11/10/2022	-	No Asbestos Detected				12
22-39451	1525681	DW2230546/1	Newport Road	12/10/2022	Fibres/Clumps	Crocidolite	0.001		0.001	9.5
22-39451	1525682	DW2230576/1	Inkerman TPH	12/10/2022	-	No Asbestos Detected				8.7
22-39451	1525683	DW2230576/2	Inkerman TPH	12/10/2022	Fibres/Clumps	Amosite	0.001		0.001	8.5
22-39451	1525684	DW2230657/2	Fawley	12/10/2022	-	No Asbestos Detected				13
22-39451	1525685	DW2230564/2	Attwood Road	13/10/2022	Fibres/Clumps	Chrysotile	0.001		0.001	14
22-39451	1525686	DW2230999/3	Pontypool	14/10/2022	Fibres/Clumps	Chrysotile	0.001		0.001	11
22-39451	1525687	DW2230713/5	Huddersfield	12/10/2022	Fibres/Clumps	Chrysotile	0.004		0.004	9.9
22-39451	1525688	DW2230713/6	Huddersfield	13/10/2022	Fibres/Clumps	Amosite	0.001		0.001	10
22-39451	1525689	DW2230713/7	Huddersfield	14/10/2022	Fibres/Clumps	Chrysotile	0.002		0.002	11
22-39451	1525690	DW2230936/2	Milestone Road	12/10/2022	Fibres/Clumps	Amosite	0.004		0.004	9
22-39451	1525691	DW2230899/4	Curzon Street	12/10/2022	Fibres/Clumps	Chrysotile	0.002		0.002	18
22-39451	1525692	DW2230899/5	Curzon Street	13/10/2022	Fibres/Clumps	Amosite	0.003		0.003	17
22-39451	1525693	DW2230899/6	Curzon Street	14/10/2022	-	No Asbestos Detected				14
22-39451	1525694	DW2230553/1	Royal Edward Dock	12/10/2022	Fibres/Clumps	Amosite	0.003		0.003	15

22-39451	1525695	DW2230948/1	Coventry Road	12/10/2022	Fibres/Clumps	Amosite	0.001		0.001	14
22-39451	1525696	DW2231065/1	Highbrook Road	12/10/2022	Fibres/Clumps	Chrysotile	0.001		0.001	12

Samples exceeding STF acceptance criteria subject to further checks prior to acceptance.

Appendix C ERQ post-processing soil validation testing data tables

Table C1: ERQ soil validation (post-processing) laboratory test data for asbestos

Chemtest Job No.:	Chemtest Sample ID.:	Sample Location:	Date Sampled	ACM Type	Asbestos Identification	Asbestos by Gravimetry (%wt/wt)	Asbestos By Fibre Counting (%wt/wt)	Total Asbestos (%wt/wt)
19-32227	895255	AB16/1	24-Sep-19	-	No Asbestos Detected	-	-	-
19-32227	895256	AB16/2	24-Sep-19	-	No Asbestos Detected	-	-	-
19-32227	895257	AB16/3	24-Sep-19	-	No Asbestos Detected	-	-	-
19-32227	895258	AB16/4	24-Sep-19	-	No Asbestos Detected	-	-	-
19-32227	895259	AB16/5	24-Sep-19	-	No Asbestos Detected	-	-	-
20-07336	981963	AB17/1	03-Mar-20	-	No Asbestos Detected	-	-	-
20-07336	981964	AB17/2	03-Mar-20	-	No Asbestos Detected	-	-	-
20-07336	981965	AB17/3	03-Mar-20	-	No Asbestos Detected	-	-	-
20-07336	981966	AB17/4	03-Mar-20	-	No Asbestos Detected	-	-	-
20-07336	981967	AB17/5	03-Mar-20	-	No Asbestos Detected	-	-	-
20-07336	981968	AB17/6	03-Mar-20	-	No Asbestos Detected	-	-	-
20-07336	981969	AB17/7	03-Mar-20	-	No Asbestos Detected	-	-	-
20-07336	981970	AB17/8	03-Mar-20	-	No Asbestos Detected	-	-	-
20-07336	981971	AB17/9	03-Mar-20	-	No Asbestos Detected	-	-	-
20-07336	981972	AB17/10	03-Mar-20	-	No Asbestos Detected	-	-	-
20-10853	998418	AB18-1	16-Apr-20	-	No Asbestos Detected	-	-	-
20-10853	998419	AB18-2	16-Apr-20	-	No Asbestos Detected	-	-	-
20-10853	998421	AB18-4	16-Apr-20	Fibres/Clumps	Chrysotile	0.002	-	0.002
20-10853	998422	AB18-5	16-Apr-20	-	No Asbestos Detected	-	-	-
20-10853	998423	AB18-6	16-Apr-20	-	No Asbestos Detected	-	-	-
20-10853	998424	AB18-7	16-Apr-20	-	No Asbestos Detected	-	-	-

20-10853	998425	AB18-8	16-Apr-20	-	No Asbestos Detected	-	-	-
20-10853	998426	AB18-9	16-Apr-20	-	No Asbestos Detected	-	-	-
20-10853	998427	AB18-10	16-Apr-20	-	No Asbestos Detected	-	-	-
20-13723	1011247	AB19	28-May-20	-	No Asbestos Detected	-	-	-
20-13723	1011248	AB19	28-May-20	-	No Asbestos Detected	-	-	-
20-13723	1011249	AB19	28-May-20	Fibres/Clumps	Chrysotile	<0.001	<0.001	<0.001
20-13723	1011250	AB19	28-May-20	Fibres/Clumps	Amosite	<0.001	<0.001	<0.001
20-13723	1011251	AB19	28-May-20	Fibres/Clumps	Chrysotile	0.009	<0.001	0.009
20-13723	1011252	AB19	28-May-20	Fibres/Clumps	Chrysotile	0.013	<0.001	0.013
20-13723	1011253	AB19	28-May-20	-	No Asbestos Detected	-	-	-
20-13723	1011254	AB19	28-May-20	-	No Asbestos Detected	-	-	-
20-13723	1011255	AB19	28-May-20	-	No Asbestos Detected	-	-	-
20-13723	1011256	AB19	28-May-20	-	No Asbestos Detected	-	-	-
20-13723	1011257	AB19	28-May-20	-	No Asbestos Detected	-	-	-
20-13723	1011258	AB19	28-May-20	Cement	Amosite Chrysotile	0.02	-	0.02
20-13723	1011259	AB19	28-May-20	-	No Asbestos Detected	-	-	-
20-13723	1011260	AB19	28-May-20	Insulation	Amosite Chrysotile	0.004	<0.001	0.004
20-16244	1022724	AB20/1	24-Jun-20	Fibres/Clumps	Amosite	0.003	<0.001	0.03
20-16244	1022726	AB20/3	24-Jun-20	Fibres/Clumps	Amosite Chrysotile	0.012	<0.001	0.012
20-16244	1022727	AB20/4	24-Jun-20	-	No Asbestos Detected	-	-	-
20-16244	1022728	AB20/5	24-Jun-20	Fibres/Clumps	Amosite Chrysotile	0.006	<0.001	0.006
20-17041	1026575	AB20/2	24-Jun-20	Cement	Chrysotile	<0.001	-	<0.001
20-24465	1063345	AB21/1	10-Sep-20	-	No Asbestos Detected	-	-	-
20-24465	1063346	AB21/2	10-Sep-20	-	No Asbestos Detected	-	-	-
20-24465	1063347	AB21/3	10-Sep-20	Fibres/Clumps	Chrysotile	<0.001	<0.001	<0.001
20-24465	1063348	AB21/4	10-Sep-20	-	No Asbestos Detected	-	-	-

20-24465	1063349	AB21/5	10-Sep-20	-	No Asbestos Detected	-	-	-
20-24465	1063350	AB21/6	10-Sep-20	-	No Asbestos Detected	-	-	-
20-24465	1063351	AB21/7	10-Sep-20	-	No Asbestos Detected	-	-	-
20-24465	1063352	AB21/8	10-Sep-20	-	No Asbestos Detected	-	-	-
20-24465	1063353	AB21/9	10-Sep-20	-	No Asbestos Detected	-	-	-
20-24465	1063354	AB21/10	10-Sep-20	-	No Asbestos Detected	-	-	-
20-30756	1095729	AB22/1	11-Nov-20	-	No Asbestos Detected	-	-	-
20-30756	1095730	AB22/2	11-Nov-20	Fibres/Clumps	Chrysotile	0.001	<0.001	0.001
20-30756	1095731	AB22/3	11-Nov-20	-	No Asbestos Detected	-	-	-
20-30756	1095732	AB22/4	11-Nov-20	-	No Asbestos Detected	-	-	-
20-35069	1117293	AB23/1	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117294	AB23/2	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117295	AB23/3	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117296	AB23/4	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117297	AB23/5	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117298	AB23/6	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117299	AB23/7	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117300	AB23/8	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117301	AB23/9	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117302	AB23/10	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117303	AB23/11	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117304	AB23/12	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117305	AB23/13	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117306	AB23/14	17-Dec-20	-	No Asbestos Detected	-	-	-
20-35069	1117307	AB23/15	17-Dec-20	Fibres/Clumps	Chrysotile	0.003	<0.001	0.003
21-13565	1187203	AB24/1	23-Apr-21	Fibres/Clumps	Chrysotile	<0.001	-	<0.001

21-13565	1187205	AB24/3	23-Apr-21	-	No Asbestos Detected	-	-	-
21-13565	1187206	AB24/4	23-Apr-21	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
21-13565	1187207	AB24/5	23-Apr-21	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
21-13565	1187208	AB24/6	23-Apr-21	-	No Asbestos Detected	-	-	-
21-13565	1187209	AB24/7	23-Apr-21	-	No Asbestos Detected	-	-	-
21-13565	1187210	AB24/8	23-Apr-21	Fibres/Clumps	Chrysotile	0.015	-	0.015
21-13565	1187211	AB24/9	23-Apr-21	-	No Asbestos Detected	-	-	-
21-13565	1187212	AB24/10	23-Apr-21	-	No Asbestos Detected	-	-	-
21-13565	1187213	AB24/11	23-Apr-21	-	No Asbestos Detected	-	-	-
21-13565	1187214	AB24/12	23-Apr-21	Fibres/Clumps	Chrysotile	0.036	-	0.036
21-13559	1187187	AB24/13	23-Apr-21	-	No Asbestos Detected	-	-	-
21-13559	1187188	AB24/14	23-Apr-21	-	No Asbestos Detected	-	-	-
21-16830	1204288	AB25/1	18-May-21	-	No Asbestos Detected	-	-	-
21-16830	1204289	AB25/2	18-May-21	-	No Asbestos Detected	-	-	-
21-16830	1204290	AB25/3	18-May-21	-	No Asbestos Detected	-	-	-
21-16830	1204291	AB25/4	18-May-21	-	No Asbestos Detected	-	-	-
21-16830	1204292	AB25/5	18-May-21	-	No Asbestos Detected	-	-	-
21-16830	1204293	AB25/6	18-May-21	-	No Asbestos Detected	-	-	-
21-16830	1204294	AB25/7	18-May-21	-	No Asbestos Detected	-	-	-
21-16830	1204295	AB25/8	18-May-21	-	No Asbestos Detected	-	-	-
21-16830	1204296	AB25/9	18-May-21	-	No Asbestos Detected	-	-	-
21-18860	1214618	AB26/1	03-Jun-21	Fibres/Clumps	Chrysotile	0.001	<0.001	0.001
21-18860	1214619	AB26/2	03-Jun-21	Fibres/Clumps	Chrysotile	0.002	<0.001	0.002
21-18860	1214620	AB26/3	03-Jun-21	-	No Asbestos Detected	-	-	-
21-18860	1214621	AB26/4	03-Jun-21	-	No Asbestos Detected	-	-	-
21-18860	1214622	AB26/5	03-Jun-21	-	No Asbestos Detected	-	-	-

21-18860	1214623	AB26/6	03-Jun-21	-	No Asbestos Detected	-	-	-
21-18860	1214624	AB26/7	03-Jun-21	-	No Asbestos Detected	-	-	-
21-18860	1214625	AB26/8	03-Jun-21	-	No Asbestos Detected	-	-	-
21-18860	1214626	AB26/9	03-Jun-21	-	No Asbestos Detected	-	-	-
21-18860	1214627	AB26/10	03-Jun-21	-	No Asbestos Detected	-	-	-
21-18860	1214628	AB26/11	03-Jun-21	-	No Asbestos Detected	-	-	-
21-18860	1214629	AB26/12	03-Jun-21	-	No Asbestos Detected	-	-	-
21-18860	1214630	AB26/13	03-Jun-21	-	No Asbestos Detected	-	-	-
21-18860	1214631	AB26/14	03-Jun-21	-	No Asbestos Detected	-	-	-
21-24221	1240560	AB27/1	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240561	AB27/2	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240562	AB27/3	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240563	AB27/4	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240564	AB27/5	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240565	AB27/6	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240566	AB27/7	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240567	AB27/8	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240568	AB27/9	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240569	AB27/10	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240570	AB27/11	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240571	AB27/12	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240574	AB27/15	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240575	AB27/16	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240576	AB27/17	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240577	AB27/18	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240578	AB27/19	14-Jul-21	-	No Asbestos Detected	-	-	-

21-24221	1240579	AB27/20	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240580	AB27/21	14-Jul-21	-	No Asbestos Detected	-	-	-
21-24221	1240581	AB27/22	14-Jul-21	-	No Asbestos Detected	-	-	-
21-31504	1276992	AB28/1	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1276993	AB28/2	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1276994	AB28/3	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1276995	AB28/4	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1276996	AB28/5	10-Sep-21	Fibres/Clumps	Chrysotile	0.005	-	0.005
21-31504	1276997	AB28/6	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1276998	AB28/7	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1276999	AB28/8	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1277000	AB28/9	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1277001	AB28/10	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1277002	AB28/11	10-Sep-21	Fibres/Clumps	Chrysotile	0.008	-	0.008
21-31504	1277004	AB28/13	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1277005	AB28/14	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1277006	AB28/15	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1277007	AB28/16	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1277008	AB28/17	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1277009	AB28/18	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1277010	AB28/19	10-Sep-21	-	No Asbestos Detected	-	-	-
21-31504	1277011	AB28/20	10-Sep-21	-	No Asbestos Detected	-	-	-
21-35106	1295158	AB28/1	08-Oct-21	-	No Asbestos Detected	-	-	-
21-35106	1295159	AB28/2	08-Oct-21	-	No Asbestos Detected	-	-	-
21-35106	1295160	AB28/3	08-Oct-21	-	No Asbestos Detected	-	-	-
21-35106	1295161	AB28/4	08-Oct-21	-	No Asbestos Detected	-	-	-

21-35106	1295162	AB28/5	08-Oct-21	-	No Asbestos Detected	-	-	-
21-35106	1295163	AB28/6	08-Oct-21	-	No Asbestos Detected	-	-	-
21-35106	1295164	AB28/7	08-Oct-21	-	No Asbestos Detected	-	-	-
21-35106	1295165	AB28/8	08-Oct-21	-	No Asbestos Detected	-	-	-
21-44934	1343707	AB30/1	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343708	AB30/2	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343709	AB30/3	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343710	AB30/4	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343711	AB30/5	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343713	AB30/7	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343714	AB30/8	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343715	AB30/9	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343716	AB30/10	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343717	AB30/11	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343718	AB30/12	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343719	AB30/13	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343720	AB30/14	15-Dec-21	-	No Asbestos Detected	-	-	-
21-44934	1343721	AB30/15	15-Dec-21	-	No Asbestos Detected	-	-	-
22-22563	1450139	AB31/1	14-Jun-22	-	No Asbestos Detected	-	-	-
22-22563	1450140	AB31/2	14-Jun-22	Fibres/Clumps	Chrysotile	0.003	-	0.003
22-22563	1450141	AB31/3	14-Jun-22	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-22563	1450142	AB31/4	14-Jun-22	Fibres/Clumps	Amosite Chrysotile	0.003	-	0.003
22-22563	1450143	AB31/5	14-Jun-22	Fibres/Clumps	Chrysotile	0.002	-	0.002
22-22563	1450144	AB31/6	14-Jun-22	Cement, Fibres/Clumps	Chrysotile	0.004	-	0.004
22-22563	1450145	AB31/7	14-Jun-22	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-22563	1450146	AB31/8	14-Jun-22	-	No Asbestos Detected	-	-	-

22-22563	1450147	AB31/9	14-Jun-22	-	No Asbestos Detected	-	-	-
22-22563	1450149	AB31/11	14-Jun-22	-	No Asbestos Detected	-	-	-
22-22563	1450151	AB31/13	14-Jun-22	-	No Asbestos Detected	-	-	-
22-22563	1450152	AB31/14	14-Jun-22	-	No Asbestos Detected	-	-	-
22-22563	1450153	AB31/15	14-Jun-22	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-22563	1450154	AB31/16	14-Jun-22	-	No Asbestos Detected	-	-	-
22-22563	1450155	AB31/17	14-Jun-22	Fibres/Clumps	Amosite Chrysotile	<0.001	-	<0.001
22-22563	1450157	AB31/19	14-Jun-22	-	No Asbestos Detected	-	-	-
22-34481	1503267	AB32/1	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503268	AB32/2	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503269	AB32/3	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503270	AB32/4	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503271	AB32/5	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503272	AB32/6	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503273	AB32/7	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503274	AB32/8	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503275	AB32/9	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503276	AB32/10	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503277	AB32/11	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503278	AB32/12	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503279	AB32/13	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503280	AB32/14	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503281	AB32/15	08-Sep-22	Fibres/Clumps	Chrysotile	0.025	-	0.025
22-34481	1503282	AB32/16	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503283	AB32/17	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503284	AB32/18	08-Sep-22	Fibres/Clumps	Chrysotile	0.002	-	0.002

22-34481	1503285	AB32/19	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503286	AB32/20	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503287	AB32/21	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503288	AB32/22	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503289	AB32/23	08-Sep-22	Free Fibres	Chrysotile	0.027	-	0.027
22-34481	1503290	AB32/24	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503291	AB32/25	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503292	AB32/26	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503293	AB32/27	08-Sep-22	Free Fibres	Chrysotile	0.011	-	0.011
22-34481	1503294	AB32/28	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503295	AB32/29	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503296	AB32/30	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503297	AB32/31	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503298	AB32/32	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503299	AB32/33	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503301	AB32/35	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503302	AB32/36	08-Sep-22	Free Fibres	Chrysotile	0.089	-	0.089
22-34481	1503303	AB32/37	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503304	AB32/38	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503305	AB32/39	08-Sep-22	-	No Asbestos Detected	-	-	-
22-34481	1503306	AB32/40	08-Sep-22	-	No Asbestos Detected	-	-	-
22-46513	1557696	AB33/1	01-Dec-22	Fibres/Clumps	Chrysotile	0.001	-	0.001
22-46513	1557697	AB33/2	01-Dec-22	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-46513	1557698	AB33/3	01-Dec-22	Fibres/Clumps	Chrysotile	0.003	-	0.003
22-46513	1557699	AB33/4	01-Dec-22	-	No Asbestos Detected	-	-	-
22-46513	1557700	AB33/5	01-Dec-22	-	No Asbestos Detected	-	-	-

22-46513	1557701	AB33/6	01-Dec-22	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-46513	1557702	AB33/7	01-Dec-22	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-46513	1557704	AB33/9	01-Dec-22	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-46513	1557705	AB33/10	01-Dec-22	-	No Asbestos Detected	-	-	-
22-46513	1557706	AB33/11	01-Dec-22	Fibres/Clumps	Chrysotile	0.005	-	0.005
22-46513	1557707	AB33/12	01-Dec-22	Fibres/Clumps	Amosite	<0.001	-	<0.001
22-46513	1557708	AB33/13	01-Dec-22	-	No Asbestos Detected	-	-	-
22-46513	1557709	AB33/14	01-Dec-22	-	No Asbestos Detected	-	-	-
22-46513	1557710	AB33/15	01-Dec-22	Fibres/Clumps	Amosite	<0.001	-	<0.001
22-46513	1557711	AB33/16	01-Dec-22	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-46513	1557712	AB33/17	01-Dec-22	Fibres/Clumps	Amosite Chrysotile	0.001	-	0.001
22-46513	1557713	AB33/18	01-Dec-22	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-46513	1557714	AB33/19	01-Dec-22	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-46513	1557715	AB33/20	01-Dec-22	-	No Asbestos Detected	-	-	-
22-46513	1557716	AB33/21	01-Dec-22	-	No Asbestos Detected	-	-	-
22-46513	1557717	AB33/22	01-Dec-22	-	No Asbestos Detected	-	-	-
22-46513	1557718	AB33/23	01-Dec-22	-	No Asbestos Detected	-	-	-
22-46513	1557719	AB33/24	01-Dec-22	-	No Asbestos Detected	-	-	-
22-46513	1557720	AB33/25	01-Dec-22	Fibres/Clumps	Amosite	<0.001	-	<0.001
22-46513	1557721	AB33/26	01-Dec-22	Fibres/Clumps	Chrysotile	0.002	-	0.002
22-46513	1557722	AB33/27	01-Dec-22	Fibres/Clumps	Chrysotile	0.001	-	0.001
22-46513	1557723	AB33/28	01-Dec-22	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-46513	1557724	AB33/29	01-Dec-22	-	No Asbestos Detected	-	-	-
22-46513	1557725	AB33/30	01-Dec-22	Fibres/Clumps	Amosite	0.002	-	0.002

Table C2: ERQ soil validation (post-processing) laboratory test data for moisture content

Chemtest Job No.:	Chemtest Sample ID.:	Sample Location:	Date Sampled:	Moisture (%)
19-32227	895255	AB16/1	24-Sep-19	15
19-32227	895256	AB16/2	24-Sep-19	15
19-32227	895257	AB16/3	24-Sep-19	15
19-32227	895258	AB16/4	24-Sep-19	15
19-32227	895259	AB16/5	24-Sep-19	15
20-07336	981963	AB17/1	03-Mar-20	11
20-07336	981964	AB17/2	03-Mar-20	12
20-07336	981965	AB17/3	03-Mar-20	12
20-07336	981966	AB17/4	03-Mar-20	12
20-07336	981967	AB17/5	03-Mar-20	13
20-07336	981968	AB17/6	03-Mar-20	12
20-07336	981969	AB17/7	03-Mar-20	12
20-07336	981970	AB17/8	03-Mar-20	12
20-07336	981971	AB17/9	03-Mar-20	12
20-07336	981972	AB17/10	03-Mar-20	11
20-10853	998418	AB18-1	16-Apr-20	8.2
20-10853	998419	AB18-2	16-Apr-20	7.2
20-10853	998421	AB18-4	16-Apr-20	3.5
20-10853	998422	AB18-5	16-Apr-20	4.3
20-10853	998423	AB18-6	16-Apr-20	6.3
20-10853	998424	AB18-7	16-Apr-20	7.6
20-10853	998425	AB18-8	16-Apr-20	9.8
20-10853	998426	AB18-9	16-Apr-20	5.9
20-10853	998427	AB18-10	16-Apr-20	5.9
20-13723	1011247	AB19	28-May-20	6.4
20-13723	1011248	AB19	28-May-20	6.2
20-13723	1011249	AB19	28-May-20	7.1
20-13723	1011250	AB19	28-May-20	7
20-13723	1011251	AB19	28-May-20	5.9
20-13723	1011252	AB19	28-May-20	2
20-13723	1011253	AB19	28-May-20	6.4
20-13723	1011254	AB19	28-May-20	6.7
20-13723	1011255	AB19	28-May-20	7.2
20-13723	1011256	AB19	28-May-20	6.8

20-13723	1011257	AB19	28-May-20	6.1
20-13723	1011258	AB19	28-May-20	6.5
20-13723	1011259	AB19	28-May-20	6.1
20-13723	1011260	AB19	28-May-20	6.9
20-16244	1022724	AB20/1	24-Jun-20	9.7
20-16244	1022725	AB20/2	24-Jun-20	9.4
20-16244	1022726	AB20/3	24-Jun-20	10
20-16244	1022727	AB20/4	24-Jun-20	9.2
20-16244	1022728	AB20/5	24-Jun-20	9.8
20-24465	1063345	AB21/1	10-Sep-20	8.8
20-24465	1063346	AB21/2	10-Sep-20	7.7
20-24465	1063347	AB21/3	10-Sep-20	9.6
20-24465	1063348	AB21/4	10-Sep-20	8.9
20-24465	1063349	AB21/5	10-Sep-20	10
20-24465	1063350	AB21/6	10-Sep-20	9.1
20-24465	1063351	AB21/7	10-Sep-20	8.7
20-24465	1063352	AB21/8	10-Sep-20	8.8
20-24465	1063353	AB21/9	10-Sep-20	9.3
20-24465	1063354	AB21/10	10-Sep-20	9.9
20-30756	1095729	AB22/1	11-Nov-20	14
20-30756	1095730	AB22/2	11-Nov-20	10
20-30756	1095731	AB22/3	11-Nov-20	8.9
20-30756	1095732	AB22/4	11-Nov-20	8.1
20-35069	1117293	AB23/1	17-Dec-20	10
20-35069	1117294	AB23/2	17-Dec-20	9.3
20-35069	1117295	AB23/3	17-Dec-20	17
20-35069	1117296	AB23/4	17-Dec-20	8.6
20-35069	1117297	AB23/5	17-Dec-20	10
20-35069	1117298	AB23/6	17-Dec-20	11
20-35069	1117299	AB23/7	17-Dec-20	11
20-35069	1117300	AB23/8	17-Dec-20	11
20-35069	1117301	AB23/9	17-Dec-20	9.9
20-35069	1117302	AB23/10	17-Dec-20	10
20-35069	1117303	AB23/11	17-Dec-20	11
20-35069	1117304	AB23/12	17-Dec-20	11
20-35069	1117305	AB23/13	17-Dec-20	12

20-35069	1117306	AB23/14	17-Dec-20	12
20-35069	1117307	AB23/15	17-Dec-20	9.8
21-13565	1187203	AB24/1	23-Apr-21	6.2
21-13565	1187205	AB24/3	23-Apr-21	6.6
21-13565	1187206	AB24/4	23-Apr-21	6.1
21-13565	1187207	AB24/5	23-Apr-21	6.7
21-13565	1187208	AB24/6	23-Apr-21	6.4
21-13565	1187209	AB24/7	23-Apr-21	6.9
21-13565	1187210	AB24/8	23-Apr-21	5.8
21-13565	1187211	AB24/9	23-Apr-21	6.5
21-13565	1187212	AB24/10	23-Apr-21	5.2
21-13565	1187213	AB24/11	23-Apr-21	6
21-13565	1187214	AB24/12	23-Apr-21	7.2
21-13559	1187187	AB24/13	23-Apr-21	7.9
21-13559	1187188	AB24/14	23-Apr-21	8.1
21-16830	1204288	AB25/1	18-May-21	17
21-16830	1204289	AB25/2	18-May-21	16
21-16830	1204290	AB25/3	18-May-21	15
21-16830	1204291	AB25/4	18-May-21	16
21-16830	1204292	AB25/5	18-May-21	16
21-16830	1204293	AB25/6	18-May-21	16
21-16830	1204294	AB25/7	18-May-21	16
21-16830	1204295	AB25/8	18-May-21	15
21-16830	1204296	AB25/9	18-May-21	16
21-18860	1214618	AB26/1	03-Jun-21	17
21-18860	1214619	AB26/2	03-Jun-21	18
21-18860	1214620	AB26/3	03-Jun-21	17
21-18860	1214621	AB26/4	03-Jun-21	19
21-18860	1214622	AB26/5	03-Jun-21	17
21-18860	1214623	AB26/6	03-Jun-21	18
21-18860	1214624	AB26/7	03-Jun-21	18
21-18860	1214625	AB26/8	03-Jun-21	18
21-18860	1214626	AB26/9	03-Jun-21	17
21-18860	1214627	AB26/10	03-Jun-21	18
21-18860	1214628	AB26/11	03-Jun-21	19
21-18860	1214629	AB26/12	03-Jun-21	21

21-18860	1214630	AB26/13	03-Jun-21	20
21-18860	1214631	AB26/14	03-Jun-21	20
21-24221	1240560	AB27/1	14-Jul-21	12
21-24221	1240561	AB27/2	14-Jul-21	13
21-24221	1240562	AB27/3	14-Jul-21	13
21-24221	1240563	AB27/4	14-Jul-21	12
21-24221	1240564	AB27/5	14-Jul-21	11
21-24221	1240565	AB27/6	14-Jul-21	10
21-24221	1240566	AB27/7	14-Jul-21	11
21-24221	1240567	AB27/8	14-Jul-21	9.1
21-24221	1240568	AB27/9	14-Jul-21	7.4
21-24221	1240569	AB27/10	14-Jul-21	8.3
21-24221	1240570	AB27/11	14-Jul-21	10
21-24221	1240571	AB27/12	14-Jul-21	11
21-24221	1240574	AB27/15	14-Jul-21	7
21-24221	1240575	AB27/16	14-Jul-21	9.8
21-24221	1240576	AB27/17	14-Jul-21	9
21-24221	1240577	AB27/18	14-Jul-21	9.3
21-24221	1240578	AB27/19	14-Jul-21	11
21-24221	1240579	AB27/20	14-Jul-21	11
21-24221	1240580	AB27/21	14-Jul-21	11
21-24221	1240581	AB27/22	14-Jul-21	8.3
21-31504	1276992	AB28/1	10-Sep-21	9.5
21-31504	1276993	AB28/2	10-Sep-21	13
21-31504	1276994	AB28/3	10-Sep-21	11
21-31504	1276995	AB28/4	10-Sep-21	10
21-31504	1276996	AB28/5	10-Sep-21	12
21-31504	1276997	AB28/6	10-Sep-21	5.6
21-31504	1276998	AB28/7	10-Sep-21	6.2
21-31504	1276999	AB28/8	10-Sep-21	4.3
21-31504	1277000	AB28/9	10-Sep-21	7.4
21-31504	1277001	AB28/10	10-Sep-21	4.5
21-31504	1277002	AB28/11	10-Sep-21	16
21-31504	1277004	AB28/13	10-Sep-21	13
21-31504	1277005	AB28/14	10-Sep-21	8.7
21-31504	1277006	AB28/15	10-Sep-21	12

21-31504	1277007	AB28/16	10-Sep-21	12
21-31504	1277008	AB28/17	10-Sep-21	15
21-31504	1277009	AB28/18	10-Sep-21	12
21-31504	1277010	AB28/19	10-Sep-21	10
21-31504	1277011	AB28/20	10-Sep-21	8.6
21-35106	1295158	AB28/1	08-Oct-21	26
21-35106	1295159	AB28/2	08-Oct-21	23
21-35106	1295160	AB28/3	08-Oct-21	20
21-35106	1295161	AB28/4	08-Oct-21	21
21-35106	1295162	AB28/5	08-Oct-21	28
21-35106	1295163	AB28/6	08-Oct-21	28
21-35106	1295164	AB28/7	08-Oct-21	26
21-35106	1295165	AB28/8	08-Oct-21	25
21-44934	1343707	AB30/1	15-Dec-21	19
21-44934	1343708	AB30/2	15-Dec-21	20
21-44934	1343709	AB30/3	15-Dec-21	25
21-44934	1343710	AB30/4	15-Dec-21	26
21-44934	1343711	AB30/5	15-Dec-21	26
21-44934	1343713	AB30/7	15-Dec-21	24
21-44934	1343714	AB30/8	15-Dec-21	29
21-44934	1343715	AB30/9	15-Dec-21	32
21-44934	1343716	AB30/10	15-Dec-21	27
21-44934	1343717	AB30/11	15-Dec-21	27
21-44934	1343718	AB30/12	15-Dec-21	27
21-44934	1343719	AB30/13	15-Dec-21	23
21-44934	1343720	AB30/14	15-Dec-21	25
21-44934	1343721	AB30/15	15-Dec-21	32
22-22563	1450139	AB31/1	14-Jun-22	19
22-22563	1450140	AB31/2	14-Jun-22	15
22-22563	1450141	AB31/3	14-Jun-22	14
22-22563	1450142	AB31/4	14-Jun-22	12
22-22563	1450143	AB31/5	14-Jun-22	8.2
22-22563	1450144	AB31/6	14-Jun-22	5.7
22-22563	1450145	AB31/7	14-Jun-22	5.6
22-22563	1450146	AB31/8	14-Jun-22	8.4
22-22563	1450147	AB31/9	14-Jun-22	7.5

22-22563	1450149	AB31/11	14-Jun-22	6.1
22-22563	1450151	AB31/13	14-Jun-22	5.1
22-22563	1450152	AB31/14	14-Jun-22	2.6
22-22563	1450153	AB31/15	14-Jun-22	2.2
22-22563	1450154	AB31/16	14-Jun-22	4.6
22-22563	1450155	AB31/17	14-Jun-22	3.9
22-22563	1450157	AB31/19	14-Jun-22	4.4
22-34481	1503267	AB32/1	08-Sep-22	13
22-34481	1503268	AB32/2	08-Sep-22	12
22-34481	1503269	AB32/3	08-Sep-22	13
22-34481	1503270	AB32/4	08-Sep-22	13
22-34481	1503271	AB32/5	08-Sep-22	13
22-34481	1503272	AB32/6	08-Sep-22	13
22-34481	1503273	AB32/7	08-Sep-22	13
22-34481	1503274	AB32/8	08-Sep-22	13
22-34481	1503275	AB32/9	08-Sep-22	13
22-34481	1503276	AB32/10	08-Sep-22	12
22-34481	1503277	AB32/11	08-Sep-22	13
22-34481	1503278	AB32/12	08-Sep-22	12
22-34481	1503279	AB32/13	08-Sep-22	12
22-34481	1503280	AB32/14	08-Sep-22	12
22-34481	1503281	AB32/15	08-Sep-22	12
22-34481	1503282	AB32/16	08-Sep-22	12
22-34481	1503283	AB32/17	08-Sep-22	13
22-34481	1503284	AB32/18	08-Sep-22	13
22-34481	1503285	AB32/19	08-Sep-22	13
22-34481	1503286	AB32/20	08-Sep-22	14
22-34481	1503287	AB32/21	08-Sep-22	13
22-34481	1503288	AB32/22	08-Sep-22	13
22-34481	1503289	AB32/23	08-Sep-22	12
22-34481	1503290	AB32/24	08-Sep-22	13
22-34481	1503291	AB32/25	08-Sep-22	13
22-34481	1503292	AB32/26	08-Sep-22	13
22-34481	1503293	AB32/27	08-Sep-22	12
22-34481	1503294	AB32/28	08-Sep-22	13
22-34481	1503295	AB32/29	08-Sep-22	12

22-34481	1503296	AB32/30	08-Sep-22	14
22-34481	1503297	AB32/31	08-Sep-22	13
22-34481	1503298	AB32/32	08-Sep-22	13
22-34481	1503299	AB32/33	08-Sep-22	13
22-34481	1503301	AB32/35	08-Sep-22	13
22-34481	1503302	AB32/36	08-Sep-22	12
22-34481	1503303	AB32/37	08-Sep-22	14
22-34481	1503304	AB32/38	08-Sep-22	13
22-34481	1503305	AB32/39	08-Sep-22	12
22-34481	1503306	AB32/40	08-Sep-22	14
22-46513	1557696	AB33/1	01-Dec-22	16
22-46513	1557697	AB33/2	01-Dec-22	14
22-46513	1557698	AB33/3	01-Dec-22	15
22-46513	1557699	AB33/4	01-Dec-22	17
22-46513	1557700	AB33/5	01-Dec-22	10
22-46513	1557701	AB33/6	01-Dec-22	14
22-46513	1557702	AB33/7	01-Dec-22	14
22-46513	1557704	AB33/9	01-Dec-22	15
22-46513	1557705	AB33/10	01-Dec-22	13
22-46513	1557706	AB33/11	01-Dec-22	15
22-46513	1557707	AB33/12	01-Dec-22	14
22-46513	1557708	AB33/13	01-Dec-22	15
22-46513	1557709	AB33/14	01-Dec-22	16
22-46513	1557710	AB33/15	01-Dec-22	14
22-46513	1557711	AB33/16	01-Dec-22	14
22-46513	1557712	AB33/17	01-Dec-22	16
22-46513	1557713	AB33/18	01-Dec-22	13
22-46513	1557714	AB33/19	01-Dec-22	13
22-46513	1557715	AB33/20	01-Dec-22	14
22-46513	1557716	AB33/21	01-Dec-22	15
22-46513	1557717	AB33/22	01-Dec-22	14
22-46513	1557718	AB33/23	01-Dec-22	13
22-46513	1557719	AB33/24	01-Dec-22	15
22-46513	1557720	AB33/25	01-Dec-22	13
22-46513	1557721	AB33/26	01-Dec-22	15
22-46513	1557722	AB33/27	01-Dec-22	16

22-46513	1557723	AB33/28	01-Dec-22	14
22-46513	1557724	AB33/29	01-Dec-22	14
22-46513	1557725	AB33/30	01-Dec-22	14

Appendix D ERQ surface water test certificates



Final Report

Report No.: 23-30319-1

Initial Date of Issue: 14-Sep-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
Bath Road
Wolverhampton
WV1 4EG

Contact(s): Andy Clee
Jon Owens
Sam Gould

Project 100993 Rowley Regis STC

Quotation No.: Q20-21354

Date Received: 11-Sep-2023

Order No.: RR364

Date Instructed: 11-Sep-2023

No. of Samples: 3

Turnaround (Wkdays): 5

Results Due: 15-Sep-2023

Date Approved: 14-Sep-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 100993 Rowley Regis STC

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-30319	23-30319	
Quotation No.: Q20-21354	Chemtest Sample ID.:		1700485	1700486	
Order No.: RR364	Client Sample Ref.:		Weekly Carbon	Weekly Sediment	
	Sample Location:		ERQ	ERQ	
	Sample Type:		SOIL	SOIL	
	Date Sampled:		08-Sep-2023	08-Sep-2023	
	Asbestos Lab:		NEW-ASB	NEW-ASB	
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected

Results - Water

Project: 100993 Rowley Regis STC

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-30319	
Quotation No.: Q20-21354	Chemtest Sample ID.:		1700487	
Order No.: RR364	Client Sample Ref.:		Weekly Asb. Water	
	Sample Location:		ERQ	
	Sample Type:		WATER	
	Date Sampled:		08-Sep-2023	
Determinand	Accred.	SOP	Units	LOD
Asbestos Fibres In Water	N	1185	in 100ml	N/A
				Not Detected

Test Methods

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 23-31887-1

Initial Date of Issue: 29-Sep-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
Bath Road
Wolverhampton
WV1 4EG

Contact(s): Andy Clee
Charlie Gould
Sam Gould

Project 100993 Rowley Regis STC

Quotation No.: Q23-32541

Date Received: 25-Sep-2023

Order No.: RR364

Date Instructed: 25-Sep-2023

No. of Samples: 3

Turnaround (Wkdays): 5

Results Due: 29-Sep-2023

Date Approved: 29-Sep-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 100993 Rowley Regis STC

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-31887	23-31887	
Quotation No.: Q23-32541	Chemtest Sample ID.:		1706525	1706526	
Order No.: RR364	Client Sample Ref.:		Weekly Carbon	Weekly Sediment	
	Sample Location:		ERQ	ERQ	
	Sample Type:		SOIL	SOIL	
	Date Sampled:		22-Sep-2023	22-Sep-2023	
	Asbestos Lab:		NEW-ASB	NEW-ASB	
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected

Results - Water

Project: 100993 Rowley Regis STC

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-31887	
Quotation No.: Q23-32541	Chemtest Sample ID.:		1706527	
Order No.: RR364	Client Sample Ref.:		Weekly Asb. Water	
	Sample Location:		ERQ	
	Sample Type:		WATER	
	Date Sampled:		22-Sep-2023	
Determinand	Accred.	SOP	Units	LOD
Asbestos Fibres In Water	N	1185	in 100ml	N/A
				Not Detected

Test Methods

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

Report Information

Key

U	UKAS accredited
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N	Unaccredited
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SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 23-32418-1

Initial Date of Issue: 04-Oct-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
Bath Road
Wolverhampton
WV1 4EG

Contact(s): Andy Clee
Jon Owens
Sam Gould

Project 100993 Rowley Regis

Quotation No.: Q23-32541

Date Received: 28-Sep-2023

Order No.: RR364

Date Instructed: 28-Sep-2023

No. of Samples: 3

Turnaround (Wkdays): 5

Results Due: 04-Oct-2023

Date Approved: 04-Oct-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 100993 Rowley Regis

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-32418	23-32418	
Quotation No.: Q23-32541	Chemtest Sample ID.:		1708442	1708443	
Order No.: RR364	Client Sample Ref.:		Weekly Carbon	Weekly Sediment	
	Sample Location:		ERQ	ERQ	
	Sample Type:		SOIL	SOIL	
	Date Sampled:		27-Sep-2023	27-Sep-2023	
	Asbestos Lab:		DURHAM	DURHAM	
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected

Results - Water

Project: 100993 Rowley Regis

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-32418	
Quotation No.: Q23-32541	Chemtest Sample ID.:		1708444	
Order No.: RR364	Client Sample Ref.:		Weekly Asb. Water	
	Sample Location:		ERQ	
	Sample Type:		WATER	
	Date Sampled:		27-Sep-2023	
Determinand	Accred.	SOP	Units	LOD
Asbestos Fibres In Water	N	1185	in 100ml	N/A
				Not Detected

Test Methods

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

Report Information

Key

U	UKAS accredited
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SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 23-33515-1

Initial Date of Issue: 11-Oct-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
Bath Road
Wolverhampton
WV1 4EG

Contact(s): Andy Clee
Jon Owens
Sam Gould

Project 100993 Rowley Regis STC

Quotation No.: Q23-32541

Date Received: 06-Oct-2023

Order No.: RR364

Date Instructed: 06-Oct-2023

No. of Samples: 3

Turnaround (Wkdays): 5

Results Due: 12-Oct-2023

Date Approved: 11-Oct-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 100993 Rowley Regis STC

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-33515	23-33515	
Quotation No.: Q23-32541	Chemtest Sample ID.:		1713152	1713153	
Order No.: RR364	Client Sample Ref.:		Weekly Carbon	Weekly Sediment	
	Sample Location:		ERQ	ERQ	
	Sample Type:		SOIL	SOIL	
	Date Sampled:		04-Oct-2023	04-Oct-2023	
	Asbestos Lab:		NEW-ASB	NEW-ASB	
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected

Results - Water

Project: 100993 Rowley Regis STC

Client: Provectus Soils Management Ltd	Chemtest Job No.: 23-33515				
Quotation No.: Q23-32541	Chemtest Sample ID.: 1713154				
Order No.: RR364	Client Sample Ref.:	Weekly Asb. Water			
	Sample Location:	ERQ			
	Sample Type:	WATER			
	Date Sampled:	04-Oct-2023			
Determinand	Accred.	SOP	Units	LOD	
Asbestos Fibres In Water	N	1185	in 100ml	N/A	Not Detected

Test Methods

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

Report Information

Key

U	UKAS accredited
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N/E	not evaluated
<	"less than"
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SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Appendix E Maw Green SEM air monitoring data tables

Table E1: Maw Green SEM air monitoring data

Date	Sample Name	Sample Location/Activity	Asbestos Analyst	Volume (l)	Number of Pumps Used	Maximum Concentration of Asbestos Fibres - Amphibole (f/ml)	Maximum Concentration of Asbestos Fibres - Chrysotile (f/ml)	Detection Limit (f/ml)
15/08/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
16/08/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
17/08/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
18/08/2022	ASB MG	Background Monitoring - no activity on site	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
19/08/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
22/08/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
23/08/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
24/08/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
25/08/2022	ASB MG	Background Monitoring - no activity on site	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
26/08/2022	ASB MG	Background Monitoring - no activity on site	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
30/08/2022	ASB MG	Background Monitoring - no activity on site	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
31/08/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
01/09/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
02/09/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
05/09/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
06/09/2022	ASB MG	Reception tipping	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
07/09/2022	MGSCR-1	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
07/09/2022	MGSCR-2	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
07/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
08/09/2022	MGSCR-1	Screening	IOM	1440	2	3.5 / 0.0006	0 / <0.0005	0.0005

08/09/2022	MGSCR-2	Screening	IOM	1440	2	2 / <0.0005	0 / <0.0005	0.0005
08/09/2022	MGSCR-3	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
09/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
09/09/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
09/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
12/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
12/09/2022	MGSCR-2	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
12/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
13/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
13/09/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
13/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
13/09/2022	MG PS-1	Picking Station	IOM	1440	2	0 / <0.0005	1 / <0.0005	0.0005
14/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
14/09/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
14/09/2022	MGSCR-3	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
15/09/2022	MGSCR-1	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
15/09/2022	MGSCR-2	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
15/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
16/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
16/09/2022	MGSCR-2	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
16/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
20/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
20/09/2022	MGSCR-2	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
20/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
21/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
21/09/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005

21/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
22/09/2022	MGSCR-1	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
22/09/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
22/09/2022	MGSCR-3	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
23/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
23/09/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
23/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
26/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
26/09/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
26/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
27/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
27/09/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
27/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
28/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
28/09/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
28/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
29/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
29/09/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
29/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
30/09/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
30/09/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
30/09/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
03/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
03/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
03/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
04/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005

04/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
04/10/2022	MGSCR-3	Screening	IOM	1440	2	3 / 0.0005	0 / <0.0005	0.0005
06/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
06/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
06/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
06/10/2022	MG PS -1	Picking Station	IOM	1440	2	2 / <0.0005	0 / <0.0005	0.0005
07/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
07/10/2022	MGSCR-2	Screening	IOM	1440	2	2 / <0.0005	0 / <0.0005	0.0005
07/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
11/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
11/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
11/10/2022	MGSCR-3	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
12/10/2022	MGSCR-1	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
12/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
12/10/2022	MGSCR-3	Screening	IOM	1440	2	2 / <0.0005	1 / <0.0005	0.0005
13/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
13/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
13/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
13/10/2022	MG PS-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
14/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
14/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	1 / <0.0005	0.0005
14/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
17/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
17/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
17/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
18/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005

18/10/2022	MGSCR-2	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
18/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
19/10/2022	MGSCR-1	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
19/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
19/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
20/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
20/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
20/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
21/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
21/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
21/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
24/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
24/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
24/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
25/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
25/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
25/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
26/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
26/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
26/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
27/10/2022	MG Cont	Control Test	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
28/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
28/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
28/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
31/10/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
31/10/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005

31/10/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
01/11/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
01/11/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
01/11/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
02/11/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
02/11/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
02/11/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
03/11/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
03/11/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
03/11/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	1 / <0.0005	0.0005
04/11/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
04/11/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
04/11/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
09/11/2022	MGSCR-1	Screening	Riverside	1440	2	1	<0.003	0.003
09/11/2022	MGSCR-2	Screening	Riverside	1440	2	1	<0.003	0.003
09/11/2022	MGSCR-3	Screening	Riverside	1440	2	2	<0.003	0.003
10/11/2022	MGSCR-1	Screening	Riverside	1440	2	1	<0.003	0.003
10/11/2022	MGSCR-2	Screening	Riverside	1440	2	3	<0.003	0.003
10/11/2022	MGSCR-3	Screening	Riverside	1440	2	4	<0.003	0.003
11/11/2022	MGSCR-1	Screening	Riverside	1440	2	2	<0.003	0.003
11/11/2022	MGSCR-3	Screening	Riverside	1440	2	3	<0.003	0.003
14/11/2022	MGSCR-1	Screening	Riverside	1440	2	1	<0.003	0.003
14/11/2022	MGSCR-2	Screening	Riverside	1440	2	1	<0.003	0.003
14/11/2022	MGSCR-3	Screening	Riverside	1440	2	2	<0.003	0.003
15/11/2022	MGSCR-1	Picking Station	Riverside	1440	2	2	<0.003	0.003
15/11/2022	MGSCR-2	Picking Station	Riverside	1440	2	2	<0.003	0.003

15/11/2022	MGSCR-3	Picking Station	Riverside	1440	2	3	<0.003	0.003
16/11/2022	MGSCR-1	Screening	Riverside	1440	2	3	<0.003	0.003
16/11/2022	MGSCR-2	Screening	Riverside	1440	2	1	<0.003	0.003
16/11/2022	MGSCR-3	Screening	Riverside	1440	2	1	<0.003	0.003
17/11/2022	MGSCR-1	Screening	Riverside	1440	2	1	<0.003	0.003
17/11/2022	MGSCR-2	Screening	Riverside	1440	2	2	<0.003	0.003
17/11/2022	MGSCR-3	Screening	Riverside	1440	2	1	<0.003	0.003
18/11/2022	MGSCR-1	Screening	Riverside	1440	2	2	<0.003	0.003
18/11/2022	MGSCR-2	Screening	Riverside	1440	2	3	<0.003	0.003
18/11/2022	MGSCR-3	Screening	Riverside	1440	2	1	<0.003	0.003
21/11/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
21/11/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
21/11/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
22/11/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
22/11/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
22/11/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
24/11/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
24/11/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
24/11/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
25/11/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
25/11/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
25/11/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
25/11/2022	MG PS	Picking Station	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
28/11/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
28/11/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
28/11/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005

29/11/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
29/11/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
29/11/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
30/11/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
30/11/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
30/11/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
01/12/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
01/12/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
01/12/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
05/12/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
05/12/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
05/12/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
06/12/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
06/12/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
06/12/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
07/12/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
07/12/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
07/12/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
08/12/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
08/12/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
08/12/2022	MG PS	Picking Station	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
09/12/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
09/12/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
09/12/2022	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
12/12/2022	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
12/12/2022	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005

16/01/2023	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
16/01/2023	MGSCR-2	Screening	IOM	1440	2	8 / 0.0013	1 / <0.0005	0.0005
17/01/2023	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
17/01/2023	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
17/01/2023	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
18/01/2023	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
18/01/2023	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
18/01/2023	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
19/01/2023	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
19/01/2023	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
19/01/2023	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
20/01/2023	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
20/01/2023	MGSCR-2	Screening	IOM	1440	2	1 / <0.0005	0 / <0.0005	0.0005
20/01/2023	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
23/01/2023	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
23/01/2023	MGSCR-2	Screening	IOM	1440	2	6 / 0.0010	0 / <0.0005	0.0005
23/01/2023	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
24/01/2023	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
24/01/2023	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
24/01/2023	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
25/01/2023	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
25/01/2023	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
25/01/2023	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
26/01/2023	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	1 / <0.0005	0.0005
26/01/2023	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
26/01/2023	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005

27/01/2023	MGSCR-1	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
27/01/2023	MGSCR-2	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
27/01/2023	MGSCR-3	Screening	IOM	1440	2	0 / <0.0005	0 / <0.0005	0.0005
09/02/2023	J255260	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10/02/2023	J255385	Screening	IOM/Thames	1520	1	0 / <0.0005	0 / <0.0005	0.0005
13/02/2023	J255396	Screening	IOM/Thames	1680	1	0 / <0.0005	0 / <0.0005	0.0005
14/02/2023	J255483	Screening	IOM/Thames	1440	1	1 / <0.0005	0 / <0.0005	0.0005
15/02/2023	J255550	Screening	IOM/Thames	1856	1	1 / <0.0004	0 / <0.0004	0.0004
16/02/2023	J255678	Screening	IOM/Thames	1680	1	0.5 / <0.0005	0 / <0.0005	0.0005
17/02/2023	J255772	Screening	IOM/Thames	1520	1	0 / <0.0005	0 / <0.0005	0.0005
20/02/2023	J255876	Screening	IOM/Thames	1472	1	0 / <0.0005	1 / <0.0005	0.0005
21/02/2023	J255950	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22/02/2023	J256026	Screening	IOM/Thames	1520	1	1 / <0.0005	0 / <0.0005	0.0005
23/02/2023	J256163	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24/02/2023	J256250	Screening	IOM/Thames	1440	1	1 / <0.0005	0 / <0.0005	0.0005
27/02/2023	J256315	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28/02/2023	J256443	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01/03/2023	J256562	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02/03/2023	J256652	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03/03/2023	J256776	Screening	IOM/Thames	1440	1	1 / <0.0005	0 / <0.0005	0.0005
06/03/2023	J256960	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07/03/2023	J256980	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08/03/2023	J257160	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09/03/2023	J257167	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10/03/2023	J257258	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13/03/2023	J257432	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005

14/03/2023	J257528	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15/03/2023	J257537	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
16/03/2023	J257653	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17/03/2023	J257711	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
20/03/2023	J257772	Screening	IOM/Thames	1472	1	0 / <0.0005	0 / <0.0005	0.0005
21/03/2023	J257966	Screening	IOM/Thames	1584	1	1.5 / <0.0005	0 / <0.0005	0.0005
22/03/2023	J257967	Screening	IOM/Thames	1440	1	2 / <0.0005	0 / <0.0005	0.0005
23/03/2023	J258135	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24/03/2023	J258139	Screening	IOM/Thames	1504	1	0 / <0.0005	0 / <0.0005	0.0005
27/03/2023	J258328	Screening	IOM/Thames	1488	1	0 / <0.0005	0 / <0.0005	0.0005
28/03/2023	J258375	Screening	IOM/Thames	1504	1	0 / <0.0005	0 / <0.0005	0.0005
29/03/2023	J258462	Screening	IOM/Thames	1504	1	1 / <0.0005	0 / <0.0005	0.0005
30/03/2023	J258540	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
31/03/2023	J258360	Screening	IOM/Thames	1504	1	0 / <0.0005	0 / <0.0005	0.0005
09/02/2023	Point 1	Screening/Picking Station	Thames	672	1	0	200	<0.01
09/02/2023	Point 2	Screening/Picking Station	Thames	672	1	1	200	<0.01
09/02/2023	Point 3	Screening/Picking Station	Thames	672	1	0	200	<0.01
10/02/2023	Point 1	Screening/Picking Station	Thames	560	1	1	200	<0.01
10/02/2023	Point 2	Screening/Picking Station	Thames	560	1	0	200	<0.01
10/02/2023	Point 3	Screening/Picking Station	Thames	576	1	0	200	<0.01
13/02/2023	Point 1	Screening/Picking Station	Thames	560	1	0	200	<0.01
13/02/2023	Point 2	Screening/Picking Station	Thames	864	1	0	200	<0.01
13/02/2023	Point 3	Screening/Picking Station	Thames	624	1	0	200	<0.01
14/02/2023	Point 1	Screening/Picking Station	Thames	528	1	0	200	<0.01
14/02/2023	Point 2	Screening/Picking Station	Thames	560	1	0	200	<0.01
14/02/2023	Point 3	Screening/Picking Station	Thames	544	1	0	200	<0.01

15/02/2023	Point 1	Screening/Picking Station	Thames	560	1	0	200	<0.01
15/02/2023	Point 2	Screening/Picking Station	Thames	576	1	0	200	<0.01
15/02/2023	Point 3	Screening/Picking Station	Thames	576	1	0	200	<0.01
16/02/2023	Point 1	Screening/Picking Station	Thames	488	1	0	200	<0.01
16/02/2023	Point 2	Screening/Picking Station	Thames	488	1	0	200	<0.01
16/02/2023	Point 3	Screening/Picking Station	Thames	512	1	1	200	<0.01
17/02/2023	Point 1	Screening/Picking Station	Thames	488	1	0	200	<0.01
17/02/2023	Point 2	Screening/Picking Station	Thames	496	1	0	200	<0.01
17/02/2023	Point 3	Screening/Picking Station	Thames	496	1	0	200	<0.01
20/02/2023	Point 1	Screening/Picking Station	Thames	560	1	0	200	<0.01
20/02/2023	Point 2	Screening/Picking Station	Thames	520	1	0	200	<0.01
20/02/2023	Point 3	Screening/Picking Station	Thames	520	1	0	200	<0.01
21/02/2023	Point 1	Screening/Picking Station	Thames	504	1	0	200	<0.01
21/02/2023	Point 2	Screening/Picking Station	Thames	496	1	0	200	<0.01
21/02/2023	Point 3	Screening/Picking Station	Thames	496	1	0	200	<0.01
22/02/2023	Point 1	Screening/Picking Station	Thames	480	1	0	200	<0.01
22/02/2023	Point 2	Screening/Picking Station	Thames	480	1	0	200	<0.01
22/02/2023	Point 3	Screening/Picking Station	Thames	480	1	0	200	<0.01
23/02/2023	Point 1	Screening/Picking Station	Thames	480	1	0	200	<0.01
23/02/2023	Point 2	Screening/Picking Station	Thames	488	1	0	200	<0.01
23/02/2023	Point 3	Screening/Picking Station	Thames	480	1	0	200	<0.01
24/02/2023	Point 1	Screening/Picking Station	Thames	480	1	0	200	<0.01
24/02/2023	Point 2	Screening/Picking Station	Thames	480	1	0	200	<0.01
24/02/2023	Point 3	Screening/Picking Station	Thames	480	1	0	200	<0.01
27/02/2023	Point 1	Screening/Picking Station	Thames	480	1	0	200	<0.01
27/02/2023	Point 2	Screening/Picking Station	Thames	488	1	0	200	<0.01

27/02/2023	Point 3	Screening/Picking Station	Thames	496	1	0	200	<0.01
28/02/2023	Point 1	Screening/Picking Station	Thames	520	1	0	200	<0.01
28/02/2023	Point 2	Screening/Picking Station	Thames	520	1	0	200	<0.01
28/02/2023	Point 3	Screening/Picking Station	Thames	520	1	0	200	<0.01
01/03/2023	Point 1	Screening/Picking Station	Thames	480	1	1	200	<0.01
01/03/2023	Point 2	Screening/Picking Station	Thames	496	1	0	200	<0.01
01/03/2023	Point 3	Screening/Picking Station	Thames	624	1	0	200	<0.01
02/03/2023	Point 1	Screening/Picking Station	Thames	480	1	0	200	<0.01
02/03/2023	Point 2	Screening/Picking Station	Thames	496	1	0	200	<0.01
02/03/2023	Point 3	Screening/Picking Station	Thames	496	1	0	200	<0.01
03/03/2023	Point 1	Screening/Picking Station	Thames	512	1	0	200	<0.01
03/03/2023	Point 2	Screening/Picking Station	Thames	512	1	0	18	<0.01
03/03/2023	Point 3	Screening/Picking Station	Thames	576	1	0	200	<0.01
06/03/2023	Point 1	Screening/Picking Station	Thames	480	1	0	200	<0.01
06/03/2023	Point 2	Screening/Picking Station	Thames	512	1	0	200	<0.01
06/03/2023	Point 3	Screening/Picking Station	Thames	992	1	0	200	<0.01
07/03/2023	Point 1	Screening/Picking Station	Thames	480	1	1	200	<0.01
07/03/2023	Point 2	Screening/Picking Station	Thames	480	1	1	200	<0.01
07/03/2023	Point 3	Screening/Picking Station	Thames	592	1	0	200	<0.01
08/03/2023	Point 1	Screening/Picking Station	Thames	480	1	0	200	<0.01
08/03/2023	Point 2	Screening/Picking Station	Thames	480	1	0	200	<0.01
08/03/2023	Point 3	Screening/Picking Station	Thames	576	1	0	200	<0.01
09/03/2023	Point 1	Screening/Picking Station	Thames	480	1	0	200	<0.01
09/03/2023	Point 2	Screening/Picking Station	Thames	496	1	0	200	<0.01
09/03/2023	Point 3	Screening/Picking Station	Thames	496	1	0	200	<0.01
10/03/2023	Point 1	Screening/Picking Station	Thames	480	1	0	200	<0.01

10/03/2023	Point 2	Screening/Picking Station	Thames	496	1	0	200	<0.01
10/03/2023	Point 3	Screening/Picking Station	Thames	496	1	0	200	<0.01
13/03/2023	Point 1	Screening/Picking Station	Thames	496	1	0	200	<0.01
13/03/2023	Point 2	Screening/Picking Station	Thames	496	1	0	200	<0.01
13/03/2023	Point 3	Screening/Picking Station	Thames	512	1	0	200	<0.01
14/03/2023	Point 1	Screening/Picking Station	Thames	480	1	0	20	<0.01
14/03/2023	Point 2	Screening/Picking Station	Thames	480	1	0	200	<0.01
14/03/2023	Point 3	Screening/Picking Station	Thames	496	1	0	200	<0.01
15/03/2023	Point 1	Screening/Picking Station	Thames	480	1	0	200	<0.01
15/03/2023	Point 2	Screening/Picking Station	Thames	496	1	0	200	<0.01
15/03/2023	Point 3	Screening/Picking Station	Thames	496	1	0	200	<0.01
16/03/2023	Point 1	Screening/Picking Station	Thames	496	1	0	200	<0.01
16/03/2023	Point 2	Screening/Picking Station	Thames	528	1	0	200	<0.01
16/03/2023	Point 3	Screening/Picking Station	Thames	528	1	0	200	<0.01
17/03/2023	Point 1	Screening/Picking Station	Thames	480	1	0	200	<0.01
17/03/2023	Point 2	Screening/Picking Station	Thames	496	1	0	200	<0.01
17/03/2023	Point 3	Screening/Picking Station	Thames	496	1	0	200	<0.01
20/03/2023	IH000009	Screening/Picking Station	Thames	496	1	0	200	<0.01
20/03/2023	IH000010	Screening/Picking Station	Thames	504	1	0	200	<0.01
20/03/2023	IH000011	Screening/Picking Station	Thames	488	1	0	201	<0.01
21/03/2023	IH000020	Screening/Picking Station	Thames	496	1	0	204	<0.01
21/03/2023	IH000021	Screening/Picking Station	Thames	504	1	0	200	<0.01
21/03/2023	IH000022	Screening/Picking Station	Thames	496	1	0	208	<0.01
22/03/2023	IH000031	Screening/Picking Station	Thames	512	1	Filters unsatisfactory for analysis	-	-

22/03/2023	IH000032	Screening/Picking Station	Thames	480	1	Filters unsatisfactory for analysis	-	-
22/03/2023	IH000033	Screening/Picking Station	Thames	488	1	Filters unsatisfactory for analysis	-	-
23/03/2023	IH000045	Screening/Picking Station	Thames	504	1	0	204	<0.01
23/03/2023	IH000046	Screening/Picking Station	Thames	488	1	0	200	<0.01
23/03/2023	IH000047	Screening/Picking Station	Thames	488	1	0	201	<0.01
24/03/2023	IH000058	Screening/Picking Station	Thames	512	1	0	200	<0.01
24/03/2023	IH000059	Screening/Picking Station	Thames	488	1	0	203	<0.01
24/03/2023	IH000060	Screening/Picking Station	Thames	496	1	0	208	<0.01
27/03/2023	IH000069	Screening/Picking Station	Thames	504	1	0	207	<0.01
27/03/2023	IH000070	Screening/Picking Station	Thames	488	1	0	201	<0.01
27/03/2023	IH000071	Screening/Picking Station	Thames	480	1	0	200	<0.01
28/03/2023	IH000079	Screening/Picking Station	Thames	512	1	0	203	<0.01
28/03/2023	IH000080	Screening/Picking Station	Thames	512	1	0	200	<0.01
28/03/2023	IH000081	Screening/Picking Station	Thames	504	1	0	200	<0.01
29/03/2023	IH000090	Screening/Picking Station	Thames	504	1	0	200	<0.01
29/03/2023	IH000091	Screening/Picking Station	Thames	504	1	0	204	<0.01
29/03/2023	IH000092	Screening/Picking Station	Thames	504	1	0	200	<0.01
30/03/2023	IH000102	Screening/Picking Station	Thames	496	1	0	200	<0.01
30/03/2023	IH000103	Screening/Picking Station	Thames	504	1	0	203	<0.01
30/03/2023	IH000104	Screening/Picking Station	Thames	496	1	0	200	<0.01
31/03/2023	IH000114	Screening/Picking Station	Thames	496	1	0	205	<0.01
31/03/2023	IH000115	Screening/Picking Station	Thames	480	1	0	201	<0.01
31/03/2023	IH000116	Screening/Picking Station	Thames	488	1	0	200	<0.01
03/04/2023	J258676	Screening	IOM/Thames	1472	1	1 / <0.0005	0 / <0.0005	0.0005

04/04/2023	J258754	Screening	IOM/Thames	1456	1	0 / <0.0005	0 / <0.0005	0.0005
05/04/2023	J258856	Screening	IOM/Thames	1472	1	0 / <0.0005	0 / <0.0005	0.0005
06/04/2023	J258992	Screening	IOM/Thames	1488	1	0 / <0.0005	0 / <0.0005	0.0005
11/04/2023	J259080	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12/04/2023	J259139	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13/04/2023	J259216	Screening	IOM/Thames	1488	1	0 / <0.0005	0 / <0.0005	0.0005
14/04/2023	J259291	Screening	IOM/Thames	1472	1	1 / <0.0005	0 / <0.0005	0.0005
17/04/2023	J259379	Screening	IOM/Thames	1504	1	0 / <0.0005	0 / <0.0005	0.0005
18/04/2023	J259394	Screening	IOM/Thames	1488	1	0 / <0.0005	0 / <0.0005	0.0005
19/04/2023	J259401	Screening	IOM/Thames	1520	1	0 / <0.0005	0 / <0.0005	0.0005
20/04/2023	J259682	Screening	IOM/Thames	1456	1	0 / <0.0005	0 / <0.0005	0.0005
21/04/2023	J259764	Screening	IOM/Thames	1456	1	0 / <0.0005	0 / <0.0005	0.0005
24/04/2023	J259860	Screening	IOM/Thames	1712	1	0 / <0.0005	0 / <0.0005	0.0005
25/04/2023	J259898	Screening	IOM/Thames	1520	1	0 / <0.0005	0 / <0.0005	0.0005
26/04/2023	J259986	Screening	IOM/Thames	1472	1	0 / <0.0005	0 / <0.0005	0.0005
27/04/2023	J260115	Screening	IOM/Thames	1840	1	2 / 0.0004	0 / 0.0004	0.0005
28/04/2023	J260131	Screening	IOM/Thames	1536	1	0 / <0.0005	0 / <0.0005	0.0005
02/05/2023	J260243	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03/05/2023	J260313	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04/05/2023	J260452	Screening	IOM/Thames	1520	1	0 / <0.0005	0 / <0.0005	0.0005
05/05/2023	J260520	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09/05/2023	J260542	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10/05/2023	J260608	Screening	IOM/Thames	1448	1	0 / <0.0005	0 / <0.0005	0.0005
11/05/2023	J260760	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12/05/2023	J260839	Screening	IOM/Thames	1472	1	0 / <0.0005	0 / <0.0005	0.0005
15/05/2023	J260863	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005

16/05/2023	J260947	Screening	IOM/Thames	1440	1	0 / <0.0005	1 / <0.0005	0.0005
17/05/2023	J261036	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18/05/2023	J261109	Screening	IOM/Thames	1440	1	2 / <0.0005	1 / <0.0005	0.0005
19/05/2023	J261156	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22/05/2023	J261257	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
23/05/2023	J261309	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24/05/2023	J261424	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25/05/2023	J300009	Screening	IOM/Thames	1456	1	0 / <0.0005	0 / <0.0005	0.0005
26/05/2023	J261480	Screening	IOM/Thames	1584	1	3 / 0.0005	0 / <0.0005	0.0005
30/05/2023	J261722	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
31/05/2023	J261744	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01/06/2023	J261818	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02/06/2023	J261888	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
05/06/2023	J261947	Screening	IOM/Thames	1488	1	0 / <0.0005	0 / <0.0005	0.0005
06/06/2023	J261951	Screening	IOM/Thames	1440	1	2.5 / <0.0005	0 / <0.0005	0.0005
07/06/2023	J262151	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08/06/2023	J262206	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09/06/2023	J262278	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03/07/2023	J263608	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04/07/2023	J263697	Screening	IOM/Thames	1440	1	3 / 0.0005	0 / <0.0005	0.0005
05/07/2023	J263769	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06/07/2023	J263852	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07/07/2023	J263941	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10/07/2023	J264027	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11/07/2023	J264120	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
12/07/2023	J264205	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005

13/07/2023	J264292	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14/07/2023	J264392	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17/07/2023	J264476	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
18/07/2023	J264604	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
19/07/2023	J264764	Screening	IOM/Thames	1440	1	1 / <0.0005	0 / <0.0005	0.0005
20/07/2023	J264782	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21/07/2023	J264860	Screening	IOM/Thames	1504	1	0 / <0.0005	0 / <0.0005	0.0005
24/07/2023	J265068	Screening	IOM/Thames	1472	1	0 / <0.0005	0 / <0.0005	0.0005
25/07/2023	J265135	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
26/07/2023	J265154	Screening	IOM/Thames	1440	1	1 / <0.0005	0 / <0.0005	0.0005
27/07/2023	J265261	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
28/07/2023	J265405	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
31/07/2023	J265415	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01/08/2023	J265475	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
02/08/2023	J265525	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
03/08/2023	J265641	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04/08/2023	J265653	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
07/08/2023	J265735	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08/08/2023	J265865	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
09/08/2023	J265976	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
10/08/2023	J266022	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11/08/2023	J266083	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14/08/2023	J266163	Screening	IOM/Thames	1472	1	0.5 / <0.0005	0 / <0.0005	0.0005
15/08/2023	J266307	Screening	IOM/Thames	1504	1	0 / <0.0005	0 / <0.0005	0.0005
16/08/2023	J266349	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
17/08/2023	J266426	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005

18/08/2023	J266505	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
21/08/2023	J266651	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
22/08/2023	J266732	Screening	IOM/Thames	1440	1	0.5 / <0.0005	0 / <0.0005	0.0005
23/08/2023	J266804	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
24/08/2023	J266898	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
25/08/2023	J267919	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
29/08/2023	J267045	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
30/08/2023	J267064	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
31/08/2023	J267199	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
01/09/2023	J267213	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
04/09/2023	J267308	Screening	IOM/Thames	1440	1	0 / <0.0005	1 / <0.0005	0.0005
05/09/2023	J267421	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
06/09/2023	J267489	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
08/09/2023	J267717	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
11/09/2023	J267728	Screening	IOM/Thames	1440	1	1 / <0.0005	0 / <0.0005	0.0005
12/09/2023	J267798	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
13/09/2023	J267923	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
14/09/2023	J267969	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005
15/09/2023	J268036	Screening	IOM/Thames	1440	1	0 / <0.0005	0 / <0.0005	0.0005

Appendix F Maw Green pre-processing soil acceptance testing data tables

Table F1: Maw Green soil acceptance (pre-processing) laboratory test data

Chemtest Job No.:	Chemtest Sample ID.:	Client Sample Ref.:	Client Sample ID.:	Date Sampled:	ACM Type	Asbestos Identification	Asbestos by Gravimetry (%wt/wt)	Total Asbestos (%wt/wt)	Moisture (%)
22-31273	1488754	Skelton Grange	DW2229783/1	15/08/2022	Fibres/Clumps	Chrysotile	0.001	0.001	12
22-31273	1488755	Skelton Grange	DW2229783/2	16/08/2022	Fibres/Clumps	Chrysotile	<0.001	<0.001	13
22-31937	1491918	Chester	DW2229689/1	19/08/2022	-	No Asbestos Detected			8
22-33582	1499201	Leeds	DW2230019/1	31/08/2022	Fibres/Clumps	Chrysotile	0.024	0.024	11
22-33582	1499202	Leeds	DW2230019/2	31/08/2022	Fibres/Clumps	Amosite	0.007	0.007	8.5
22-33582	1499203	Rochdale	DW2230063/1	31/08/2022	Fibres/Clumps	Chrysotile	0.002	0.002	10
22-34058	1501434	Leeds	DW2230019/3	05/09/2022	Fibres/Clumps	Amosite	0.003	0.003	9.3
22-34058	1501435	Rochdale	DW2230063/2	05/09/2022	Fibres/Clumps	Chrysotile	0.009	0.009	9.4
22-34527	1503532	E/Port	DW2229748/1	07/09/2022	Fibres/Clumps	Amosite	0.002	0.002	9.9
22-34527	1503533	E/Port	DW2229748/2	07/09/2022	-	No Asbestos Detected			9.6
22-34527	1503533	E/Port	DW2229748/2	07/09/2022	-	No Asbestos Detected			9.6
22-34631	1504179	E/Port	DW2229748/3	08/09/2022	-	No Asbestos Detected			10
22-35276	1506674	Ormskirk	DW2230018/1	13/09/2022	-	No Asbestos Detected			16
22-35276	1506675	E/Port	DW2229748/4	13/09/2022	Fibres/Clumps	Amosite Chrysotile	0.015	0.015	16
22-35542	1507913	E/Port	DW2229748/5	14/09/2022	-	No Asbestos Detected			11
22-35708	1508552	E/Port	DW2229748/6	15/09/2022	-	No Asbestos Detected			8.9
22-35708	1508553	E/Port	DW2229748/7	15/09/2022	-	No Asbestos Detected			8.7
22-35708	1508554	Ormskirk	DW2230018/2	15/09/2022	-	No Asbestos Detected			11
22-35708	1508555	Ormskirk	DW2230018/3	15/09/2022	-	No Asbestos Detected			13
22-35708	1508556	Swindon	DW2230336/1	15/09/2022	-	No Asbestos Detected			8.9
22-35708	1508557	Swindon	DW2230336/2	15/09/2022	-	No Asbestos Detected			11
22-35708	1508556	Swindon	DW2230336/1	15/09/2022	-	No Asbestos Detected			8.9

22-35708	1508557	Swindon	DW2230336/2	15/09/2022	-	No Asbestos Detected			11
22-36368	1511673	Burslem	DW2230473/1	16/09/2022	Lagging	Amosite	0.001	0.001	13
22-36368	1511674	Burslem	DW2230473/2	20/09/2022	Lagging	Amosite	0.002	0.002	18
22-37376	1516021	Liverpool	DW2230429/1	28/09/2022	Fibres/Clumps	Chrysotile	0.006	0.006	14
22-38202	1519903	Rochdale	DW2230694/1	03/10/2022	Insulation	Amosite Chrysotile	0.5	0.5	12
22-38202	1519904	Rochdale	DW2230694/2	03/10/2022	Fibres/Clumps	Amosite Chrysotile	0.018	0.018	14
22-38749	1522219	Liverpool	DW2230614/1	10/10/2022	Fibres/Clumps	Chrysotile	<0.001	<0.001	13
22-39570	1526149	E/Port	DW2229748/8	13/10/2022	Fibres/Clumps	Chrysotile	<0.001	<0.001	12
22-40673	1531038	E/Port	DW2229748/9	19/10/2022	-	No Asbestos Detected			9.4
22-40958	1532394	E/Port	DW2229748/10	24/10/2022	-	No Asbestos Detected			11
22-41150	1533119	E/Port	DW2229748/11	25/10/2022	-	No Asbestos Detected			7.7
22-41881	1536665	E/Port	DW2229748/12	31/10/2022	-	No Asbestos Detected			11
22-42552	1539897	E/Port	DW2229748/13	03/11/2022	-	No Asbestos Detected			11
22-43354	1543411	E/Port	DW2229748/14	08/11/2022	-	No Asbestos Detected			8.6
22-43354	1543412	E/Port	DW2229748/15	09/11/2022	-	No Asbestos Detected			12
22-43354	1543413	E/Port	DW2229748/16	10/11/2022	-	No Asbestos Detected			12
22-43354	1543414	E/Port	DW2229748/17	10/11/2022	-	No Asbestos Detected			9.9
22-44995	1550920	E/Port	DW2229748/19	21/11/2022	-	No Asbestos Detected			11
22-44995	1550921	E/Port	DW2229748/20	21/11/2022	Fibres/Clumps	Amosite	0.008	0.008	10
22-45353	1552497	E/Port	DW2229748/21	22/11/2022	-	No Asbestos Detected			12
22-45679	1553830	E/Port	DW2229748/22	23/11/2022	-	No Asbestos Detected			21
22-45679	1553831	E/Port	DW2229748/23	24/11/2022	-	No Asbestos Detected			18
22-45934	1555075	E/Port	DW2229748/24	28/11/2022	Fibres/Clumps	Chrysotile	0.005	0.005	18
22-46689	1558661	E/Port	DW2229748/25	02/12/2022	-	No Asbestos Detected			9.3
22-47463	1562401	E/Port	DW2229748/26	08/12/2022	-	No Asbestos Detected			13
22-47467	1562413	Warrington	DW2232212/1	09/12/2022	-	No Asbestos Detected			30

22-47718	1563546	Warrington	DW2232212/2	09/12/2022	Fibres/Clumps	Chrysotile	<0.001	<0.001	25
22-48859	1568195	Altrincham	DW2232577/1	21/12/2022	Fibres/Clumps	Chrysotile	0.002	0.002	26
23-00333	1570750	E/Port	DW2229748/27	05/01/2023	-	No Asbestos Detected			14
23-00464	1571223	E/Port	DW2229748/28	09/01/2023	-	No Asbestos Detected			14
23-00730	1572344	E/Port	DW2229748/29	10/01/2023	-	No Asbestos Detected			15
23-01039	1573921	E/Port	DW2229748/30	12/01/2023	Fibres/Clumps	Amosite	0.007	0.007	12
23-01039	1573922	E/Port	DW2229748/31	12/01/2023	Fibres/Clumps	Amosite	0.003	0.003	13
23-01040	1573923	E/Port	DW2229748/32	12/01/2023	-	No Asbestos Detected			14
23-01532	1576164	E/Port	DW2229748/33	17/01/2023	-	No Asbestos Detected			7.7
23-01532	1576165	E/Port	DW2229748/34	17/01/2023	-	No Asbestos Detected			9.1
23-01852	1577353	Altrincham	DW2232557/2	20/01/2023	-	No Asbestos Detected			19
23-01856	1577367	E/Port	DW2229748/35	19/01/2023	Board	Amosite Chrysotile	0.006	0.006	16
23-01856	1577368	E/Port	DW2229748/36	19/01/2023	Fibres/Clumps	Amosite Chrysotile	0.001	0.001	14
23-02242	1579080	E/Port	DW2229748/37	23/01/2023	-	No Asbestos Detected			8.9
23-02573	1580354	E/Port	DW2229748/38	25/01/2023	-	No Asbestos Detected			14
23-02838	1581316	E/Port	DW2229748/39	26/01/2023	Fibres/Clumps	Amosite	0.002	0.002	13
23-03391	1583546	E/Port	DW2229747/3	30/01/2023	Fibres/Clumps	Chrysotile	0.002	0.002	13
23-03427	1583728	Altrincham	DW2232557/4	30/01/2023	-	No Asbestos Detected			17
23-03570	1584076	E/Port	DW2229748/40	01/02/2023	-	No Asbestos Detected			9.2
23-03570	1584077	Chester	DW2233287/1	01/02/2023	-	No Asbestos Detected			10
23-03570	1584078	Chester	DW2233287/2	01/02/2023	-	No Asbestos Detected			9.6
23-03731	1585131	E/Port	DW2229748/41	02/02/2023	Insulation	Amosite	0.008	0.008	12
23-03731	1585132	Leeds	DW2230019/4	02/02/2023	-	No Asbestos Detected			4.3
23-03885	1585813	Chester	DW2233287/3	03/02/2023	Fibres/Clumps	Amosite	<0.001	<0.001	13
23-04485	1588173	Leeds	DW2230019/6	09/02/2023	-	No Asbestos Detected			16
23-05952	1594537	Crewe	DW2233675/1	20/02/2023	-	No Asbestos Detected			21

23-06411	1596684	Lister Drive	DW2233433/1	22/02/2023	-	No Asbestos Detected			15
23-06411	1596685	Lister Drive	DW2233433/2	22/02/2023	-	No Asbestos Detected			18
23-06574	1597530	Sale	DW2233785/1	23/02/2023	-	No Asbestos Detected			24
23-06574	1597531	Lister Drive	DW2233433/3	23/02/2023	-	No Asbestos Detected			15
23-07718	1603060	Altrincham	DW2232557/6	03/03/2023	-	No Asbestos Detected			14
23-09168	1609480	Altrincham	DW2232557/7	16/03/2023	Fibres/Clumps	Amosite Chrysotile	0.004	0.004	8.6
23-11097	1617989	Altrincham	DW2232557/9	28/03/2023	Fibres/Clumps	Chrysotile	0.002	0.002	14
23-11097	1617990	Northwich	DW2234273/1	28/03/2023	-	No Asbestos Detected			13
23-11715	1620557	Shotton Mill	DW2234716/1	05/04/2023	Fibres/Clumps	Chrysotile	0.002	0.002	5.3
23-11715	1620558	Shotton Mill	DW2234716/2	05/04/2023	-	No Asbestos Detected			8.1
23-11715	1620559	Northwich	DW2234273/2	05/04/2023	-	No Asbestos Detected			11
23-12192	1622872	Shotton Mill	DW2234716/3	11/04/2023	-	No Asbestos Detected			9.7
23-12192	1622873	Shotton Mill	DW2234716/4	12/04/2023	-	No Asbestos Detected			7.7
23-12685	1625140	Shotton Mill	DW2234716/5	17/04/2023	Cement, Fibres/Clumps	Amosite Chrysotile	0.003	0.003	5.3
23-19684	1654675	Gosforth	DW2235596/1	07/06/2023	-	No Asbestos Detected			17
23-19684	1654676	Whiston	DW2235783/1	07/06/2023	-	No Asbestos Detected			9.6
23-19684	1654677	Skemersdale	DW2235744/1	07/06/2023	Insulation	Amosite	0.01	0.01	13
23-19684	1654678	Gosforth	DW2235596/2	08/06/2023	Insulation	Chrysotile	0.026	0.026	14
23-20327	1657163	Gosforth	DW2235596/3	13/06/2023	-	No Asbestos Detected			14
23-21675	1664584	Warton	DW2236075/1A	21/06/2023	Fibres/Clumps	Chrysotile	0.003	0.003	17
23-21675	1664585	Warton	DW2236075/2A	22/06/2023	Fibres/Clumps	Chrysotile	0.001	0.001	18
23-21675	1664586	Shotton Mill	DW2236085/1A	22/06/2023	Insulation	Chrysotile	0.12	0.12	7.5
23-21675	1664587	Shotton Mill	DW2236085/2A	22/06/2023	Fibres/Clumps	Chrysotile	0.03	0.03	7.9
23-21678	1664596	Gosforth	DW2235596/4A	26/06/2023	-	No Asbestos Detected			12
23-21678	1664596	Gosforth	DW2235596/4A	26/06/2023	-	No Asbestos Detected			12

23-22302	1667008	Shotton Mill	DW2236085/3A	27/06/2023	Fibres/Clumps	Amosite	<0.001	<0.001	9.2
23-22302	1667009	Shotton Mill	DW2236085/4	27/06/2023	Fibres/Clumps	Amosite	0.002	0.002	7.9
23-22784	1669163	Shotton Mill	DW2236085/5 A	03/07/2023	-	No Asbestos Detected			8.5
23-23273	1671661	Woodford	DW2236412/1	06/07/2023	Cement	Chrysotile	0.031	0.031	17
23-23273	1671662	Woodford	DW2236412/2	07/07/2023	Cement, Fibres/Clumps	Chrysotile	0.016	0.016	18
23-23273	1671663	Shotton Mill	DW2236085/6	07/07/2023	Fibres/Clumps	Chrysotile	<0.001	<0.001	7.7
23-23959	1674677	Newton le Willows	DW2230153/1 A	10/07/2023	-	No Asbestos Detected			15
23-23959	1674678	Newton le Willows	DW2230153/2 A	10/07/2023	-	No Asbestos Detected			15
23-27973	1691053	Amersham	DW2234490/3	16/08/2023	Fibres/Clumps	Chrysotile	0.001	0.001	7.4
23-27973	1691054	Sedac Business Park	DW2237166/1	16/08/2023	-	No Asbestos Detected			9.6
23-27973	1691055	Sedac Business Park	DW2237166/2	16/08/2023	Fibres/Clumps	Chrysotile	<0.001	<0.001	8.5
23-27973	1691056	Kingsmill Reservoir	DW2237236/1	16/08/2023	-	No Asbestos Detected			7.2
23-27973	1691057	Biscester	DW2237229/1	16/08/2023	Fibres/Clumps	Chrysotile	0.006	0.006	13
23-27973	1691058	WWH	DW2237239/1	17/08/2023	Fibres/Clumps	Chrysotile	0.002	0.002	15
23-27973	1691059	WWH	DW2237239/2	17/08/2023	Fibres/Clumps	Chrysotile	0.001	0.001	13
23-27973	1691060	WWH	DW2237239/3	18/08/2023	-	No Asbestos Detected			14
23-28020	1691297	Shotton Mill	DW2236448/1A	17/08/2023	Fibres/Clumps	Chrysotile	<0.001	<0.001	9.8
23-29975	1699201	Carrington	DW2237458/1	04/09/2023	-	No Asbestos Detected			13
23-33931	1714866	Newton le Willows	DW2238126/1	06/10/2023	-	No Asbestos Detected			19

Samples exceeding STF acceptance criteria subject to further checks prior to acceptance.

Appendix G Maw Green post-processing soil validation testing data tables

Table G1: Maw Green soil validation (post-processing) laboratory test data for asbestos

Chemtest Job No.:	Chemtest Sample ID.:	Client Sample Ref.:	Client Sample ID.:	Date Sampled:	ACM Type	Asbestos Identification	Asbestos by Gravimetry (%wt/wt)	Asbestos By Fibre Counting (%wt/wt)	Total Asbestos (%wt/wt)
22-31273	1488754	Skelton Grange	DW2229783/1	15/08/2022	Fibres/Clumps	Chrysotile	0.001	-	0.001
22-31273	1488755	Skelton Grange	DW2229783/2	16/08/2022	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-31937	1491918	Chester	DW2229689/1	19/08/2022	-	No Asbestos Detected	-	-	<0.001
22-33582	1499201	Leeds	DW2230019/1	31/08/2022	Fibres/Clumps	Chrysotile	0.024	-	0.024
22-33582	1499202	Leeds	DW2230019/2	31/08/2022	Fibres/Clumps	Amosite	0.007	-	0.007
22-33582	1499203	Rochdale	DW2230063/1	31/08/2022	Fibres/Clumps	Chrysotile	0.002	-	0.002
22-34527	1503533	E/Port	DW2229748/2	07/09/2022	-	No Asbestos Detected	-	-	<0.001
22-34631	1504179	E/Port	DW2229748/3	08/09/2022	-	No Asbestos Detected	-	-	<0.001
22-35276	1506674	Ormskirk	DW2230018/1	13/09/2022	-	No Asbestos Detected	-	-	<0.001
22-35276	1506675	E/Port	DW2229748/4	13/09/2022	Fibres/Clumps	Amosite Chrysotile	0.015	-	0.015
22-35542	1507913	E/Port	DW2229748/5	14/09/2022	-	No Asbestos Detected	-	-	<0.001
22-35708	1508552	E/Port	DW2229748/6	15/09/2022	-	No Asbestos Detected	-	-	<0.001
22-35708	1508553	E/Port	DW2229748/7	15/09/2022	-	No Asbestos Detected	-	-	<0.001
22-35708	1508554	Ormskirk	DW2230018/2	15/09/2022	-	No Asbestos Detected	-	-	<0.001
22-35708	1508555	Ormskirk	DW2230018/3	15/09/2022	-	No Asbestos Detected	-	-	<0.001
22-38202	1519904	Rochdale	DW2230694/2	03/10/2022	Fibres/Clumps	Amosite Chrysotile	0.018	<0.001	0.018
22-36368	1511674	Burslem	DW2230473/2	20/09/2022	Lagging	Amosite	0.002	-	0.002
22-37376	1516021	Liverpool	DW2230429/1	28/09/2022	Fibres/Clumps	Chrysotile	0.006	-	0.006
22-35708	1508552	E/Port	DW2229748/6	15/09/2022	-	No Asbestos Detected	-	-	<0.001
22-35708	1508553	E/Port	DW2229748/7	15/09/2022	-	No Asbestos Detected	-	-	<0.001
22-38749	1522219	Liverpool	DW2230614/1	10/10/2022	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-39570	1526149	E/Port	DW2229748/8	13/10/2022	Fibres/Clumps	Chrysotile	<0.001	-	<0.001

22-40673	1531038	E/Port	DW2229748/9	19/10/2022	-	No Asbestos Detected	-	-	<0.001
22-40958	1532394	E/Port	DW2229748/10	24/10/2022	-	No Asbestos Detected	-	-	<0.001
22-41150	1533119	E/Port	DW2229748/11	25/10/2022	-	No Asbestos Detected	-	-	<0.001
22-41881	1536665	E/Port	DW2229748/12	31/10/2022	-	No Asbestos Detected	-	-	<0.001
22-42552	1539897	E/Port	DW2229748/13	03/11/2022	-	No Asbestos Detected	-	-	<0.001
22-43354	1543411	E/Port	DW2229748/14	08/11/2022	-	No Asbestos Detected	-	-	<0.001
22-43354	1543412	E/Port	DW2229748/15	09/11/2022	-	No Asbestos Detected	-	-	<0.001
22-43354	1543413	E/Port	DW2229748/16	10/11/2022	-	No Asbestos Detected	-	-	<0.001
22-44995	1550920	E/Port	DW2229748/19	21/11/2022	-	No Asbestos Detected	-	-	<0.001
22-44995	1550921	E/Port	DW2229748/20	21/11/2022	Fibres/Clumps	Amosite	0.008	-	0.008
22-45353	1552497	E/Port	DW2229748/21	22/11/2022	-	No Asbestos Detected	-	-	<0.001
22-45679	1553830	E/Port	DW2229748/22	23/11/2022	-	No Asbestos Detected	-	-	<0.001
22-45679	1553831	E/Port	DW2229748/23	24/11/2022	-	No Asbestos Detected	-	-	<0.001
22-45934	1555075	E/Port	DW2229748/24	28/11/2022	Fibres/Clumps	Chrysotile	0.005	-	0.005
22-46689	1558661	E/Port	DW2229748/25	02/12/2022	-	No Asbestos Detected	-	-	<0.001
22-47467	1562413	Warrington	DW2232212/1	09/12/2022	-	No Asbestos Detected	-	-	<0.001
22-47463	1562401	E/Port	DW2229748/26	08/12/2022	-	No Asbestos Detected	-	-	<0.001
23-00333	1570750	E/Port	DW2229748/27	05/01/2023	-	No Asbestos Detected	-	-	<0.001
23-00464	1571223	E/Port	DW2229748/28	09/01/2023	-	No Asbestos Detected	-	-	<0.001
23-00730	1572344	E/Port	DW2229748/29	10/01/2023	-	No Asbestos Detected	-	-	<0.001
23-01039	1573921	E/Port	DW2229748/30	12/01/2023	Fibres/Clumps	Amosite	0.007	-	0.007
23-01039	1573922	E/Port	DW2229748/31	12/01/2023	Fibres/Clumps	Amosite	0.003	-	0.003
23-01040	1573923	E/Port	DW2229748/32	12/01/2023	-	No Asbestos Detected	-	-	<0.001
22-47718	1563546	Warrington	DW2232212/2	09/12/2022	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
22-48859	1568195	Altrincham	DW2232577/1	21/12/2022	Fibres/Clumps	Chrysotile	0.002	-	0.002
22-34058	1501434	Leeds	DW2230019/3	05/09/2022	Fibres/Clumps	Amosite	0.003	-	0.003

23-07712	1603024	MG	ASB7-1	03/03/2023	Fibres/Clumps	Amosite	<0.001	-	<0.001
23-07712	1603025	MG	ASB7-2	03/03/2023	-	No Asbestos Detected	-	-	<0.001
23-07712	1603026	MG	ASB7-3	03/03/2023	Fibres/Clumps	Amosite	0.001	-	0.001
23-07712	1603027	MG	ASB7-4	03/03/2023	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
23-07712	1603028	MG	ASB7-5	03/03/2023	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
23-07712	1603029	MG	ASB7-6	03/03/2023	-	No Asbestos Detected	-	-	<0.001
23-07712	1603030	MG	ASB7-7	03/03/2023	-	No Asbestos Detected	-	-	<0.001
23-07712	1603031	MG	ASB7-8	03/03/2023	-	No Asbestos Detected	-	-	<0.001
23-07712	1603032	MG	ASB7-9	03/03/2023	-	No Asbestos Detected	-	-	<0.001
23-07712	1603033	MG	ASB7-10	03/03/2023	-	No Asbestos Detected	-	-	<0.001
23-08387	1605943	Maw Green	ASB B8A	06/03/2023	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
23-08387	1605944	Maw Green	ASB B8B	07/03/2023	Fibres/Clumps	Chrysotile	0.001	-	0.001
23-08387	1605945	Maw Green	ASB B8C	08/03/2023	Fibres/Clumps	Chrysotile	0.001	-	0.001
23-08387	1605946	Maw Green	ASB B8D	09/03/2023	Fibres/Clumps	Amosite Chrysotile	0.001	-	0.001
23-08387	1605947	Maw Green	ASB B8E	10/03/2023	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
23-09312	1610187	Maw Green	ASB 8-F	13/03/2023	Fibres/Clumps, insulation	Amosite Chrysotile	0.018	<0.001	0.018
23-09312	1610188	Maw Green	ASB 8-G	14/03/2023	Fibres/Clumps	Chrysotile	0.006	-	0.006
23-09312	1610189	Maw Green	ASB 8-H	15/03/2023	-	No Asbestos Detected	-	-	<0.001
23-09312	1610190	Maw Green	ASB 8-I	16/03/2023	-	No Asbestos Detected	-	-	<0.001
23-09312	1610191	Maw Green	ASB 8-J	17/03/2023	-	No Asbestos Detected	-	-	<0.001
23-11098	1617991	Maw Green	ASB B9A	29/03/2023	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
23-11098	1617992	Maw Green	ASB B9B	29/03/2023	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
23-11098	1617993	Maw Green	ASB B9C	29/03/2023	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
23-11098	1617994	Maw Green	ASB B9D	29/03/2023	-	No Asbestos Detected	-	-	<0.001
23-15277	1636205	Maw Green	ASB B10A	05/05/2023	Fibres/Clumps	Amosite	<0.001	-	<0.001

23-15277	1636206	Maw Green	ASB B10B	05/05/2023	Fibres/Clumps	Chrysotile	<0.001	-	<0.001
23-15277	1636207	Maw Green	ASB B10C	05/05/2023	Fibres/Clumps	Amosite Chrysotile	<0.001	-	<0.001
23-15277	1636208	Maw Green	ASB B10D	05/05/2023	Fibres/Clumps	Amosite Chrysotile	<0.001	-	<0.001
23-22427	1667617	Maw Green	B11A A	27/06/2023	Fibres/Clumps	Chrysotile	0.046	<0.001	0.046
23-22427	1667618	Maw Green	B11B A	27/06/2023	Fibres/Clumps	Chrysotile	<0.001	<0.001	<0.001
23-22427	1667619	Maw Green	B11C A	27/06/2023	Fibres/Clumps	Amosite Chrysotile	<0.001	<0.001	<0.001
23-23274	1671664	Maw Green	B11D A	03/07/2023	Fibres/Clumps	Amosite Chrysotile	0.075	<0.001	0.075
23-23274	1671665	Maw Green	B11E A	04/07/2023	Fibres/Clumps	Amosite Chrysotile	<0.001	<0.001	<0.001
23-23274	1671666	Maw Green	B11F A	05/07/2023	Fibres/Clumps	Amosite Chrysotile	0.023	<0.001	0.023
23-23274	1671667	Maw Green	B11G A	06/07/2023	Fibres/Clumps	Chrysotile	0.001	<0.001	0.001
23-23274	1671668	Maw Green	B11H A	07/07/2023	Fibres/Clumps	Amosite Chrysotile	0.009	<0.001	0.009
23-27594	1689492	Maw Green	ASB B12 A	14/08/2023	-	No Asbestos Detected	-		
23-27594	1689493	Maw Green	ASB B12 B	15/08/2023	Fibres/Clumps	Chrysotile	0.034	<0.001	0.034
23-30388	1700685	Maw Green	ASB B13A	07/09/2023	-	No Asbestos Detected	-		
23-30388	1700686	Maw Green	ASB B13B	07/09/2023	-	No Asbestos Detected	-		
23-35252	1719936	Batch-Sept 23	Batch-Sept 23	19/10/2023	Fibres/Clumps	Chrysotile	0.006		0.006

Table G2: Maw Green soil validation (post-processing) laboratory test data for moisture content

Chemtest Job No.:	Chemtest Sample ID.:	Client Sample Ref.:	Client Sample ID.:	Date Sampled:	Moisture (%)
22-31273	1488754	Skelton Grange	DW2229783/1	15-Aug-22	12
22-31273	1488755	Skelton Grange	DW2229783/2	16-Aug-22	13
22-31937	1491918	Chester	DW2229689/1	19-Aug-22	8
22-33582	1499201	Leeds	DW2230019/1	31-Aug-22	11
22-33582	1499202	Leeds	DW2230019/2	31-Aug-22	8.5
22-33582	1499203	Rochdale	DW2230063/1	31-Aug-22	10
22-34527	1503533	E/Port	DW2229748/2	07-Sep-22	9.6
22-34631	1504179	E/Port	DW2229748/3	08-Sep-22	10
22-35276	1506674	Ormskirk	DW2230018/1	13-Sep-22	16
22-35276	1506675	E/Port	DW2229748/4	13-Sep-22	16
22-35542	1507913	E/Port	DW2229748/5	14-Sep-22	11
22-35708	1508552	E/Port	DW2229748/6	15-Sep-22	8.9
22-35708	1508553	E/Port	DW2229748/7	15-Sep-22	8.7
22-35708	1508554	Ormskirk	DW2230018/2	15-Sep-22	11
22-35708	1508555	Ormskirk	DW2230018/3	15-Sep-22	13
22-38202	1519904	Rochdale	DW2230694/2	03-Oct-22	14
22-36368	1511674	Burslem	DW2230473/2	20-Sep-22	18
22-37376	1516021	Liverpool	DW2230429/1	28-Sep-22	14
22-35708	1508552	E/Port	DW2229748/6	15-Sep-22	8.9
22-35708	1508553	E/Port	DW2229748/7	15-Sep-22	8.7
22-38749	1522219	Liverpool	DW2230614/1	10-Oct-22	13
22-39570	1526149	E/Port	DW2229748/8	13-Oct-22	12
22-40673	1531038	E/Port	DW2229748/9	19-Oct-22	9.4
22-40958	1532394	E/Port	DW2229748/10	24-Oct-22	11
22-41150	1533119	E/Port	DW2229748/11	25-Oct-22	7.7
22-41881	1536665	E/Port	DW2229748/12	31-Oct-22	11
22-42552	1539897	E/Port	DW2229748/13	03-Nov-22	11
22-43354	1543411	E/Port	DW2229748/14	08-Nov-22	8.6
22-43354	1543412	E/Port	DW2229748/15	09-Nov-22	12
22-43354	1543413	E/Port	DW2229748/16	10-Nov-22	12
22-44995	1550920	E/Port	DW2229748/19	21-Nov-22	11
22-44995	1550921	E/Port	DW2229748/20	21-Nov-22	10
22-45353	1552497	E/Port	DW2229748/21	22-Nov-22	12
22-45679	1553830	E/Port	DW2229748/22	23-Nov-22	21

22-45679	1553831	E/Port	DW2229748/23	24-Nov-22	18
22-45934	1555075	E/Port	DW2229748/24	28-Nov-22	18
22-46689	1558661	E/Port	DW2229748/25	02-Dec-22	9.3
22-47467	1562413	Warrington	DW2232212/1	09-Dec-22	30
22-47463	1562401	E/Port	DW2229748/26	08-Dec-22	13
23-00333	1570750	E/Port	DW2229748/27	05-Jan-23	14
23-00464	1571223	E/Port	DW2229748/28	09-Jan-23	14
23-00730	1572344	E/Port	DW2229748/29	10-Jan-23	15
23-01039	1573921	E/Port	DW2229748/30	12-Jan-23	12
23-01039	1573922	E/Port	DW2229748/31	12-Jan-23	13
23-01040	1573923	E/Port	DW2229748/32	12-Jan-23	14
22-47718	1563546	Warrington	DW2232212/2	09-Dec-22	25
22-48859	1568195	Altrincham	DW2232577/1	21-Dec-22	26
22-34058	1501434	Leeds	DW2230019/3	05-Sep-22	9.3
23-07712	1603024	MG	ASB7-1	03-Mar-23	12
23-07712	1603025	MG	ASB7-2	03-Mar-23	3.3
23-07712	1603026	MG	ASB7-3	03-Mar-23	13
23-07712	1603027	MG	ASB7-4	03-Mar-23	15
23-07712	1603028	MG	ASB7-5	03-Mar-23	14
23-07712	1603029	MG	ASB7-6	03-Mar-23	13
23-07712	1603030	MG	ASB7-7	03-Mar-23	12
23-07712	1603031	MG	ASB7-8	03-Mar-23	14
23-07712	1603032	MG	ASB7-9	03-Mar-23	12
23-07712	1603033	MG	ASB7-10	03-Mar-23	14
23-08387	1605943	Maw Green	ASB B8A	06-Mar-23	13
23-08387	1605944	Maw Green	ASB B8B	07-Mar-23	16
23-08387	1605945	Maw Green	ASB B8C	08-Mar-23	15
23-08387	1605946	Maw Green	ASB B8D	09-Mar-23	15
23-08387	1605947	Maw Green	ASB B8E	10-Mar-23	14
23-09312	1610187	Maw Green	ASB 8-F	13-Mar-23	12
23-09312	1610188	Maw Green	ASB 8-G	14-Mar-23	11
23-09312	1610189	Maw Green	ASB 8-H	15-Mar-23	14
23-09312	1610190	Maw Green	ASB 8-I	16-Mar-23	16
23-09312	1610191	Maw Green	ASB 8-J	17-Mar-23	19
23-11098	1617991	Maw Green	ASB B9A	29-Mar-23	14
23-11098	1617992	Maw Green	ASB B9B	29-Mar-23	12

23-11098	1617993	Maw Green	ASB B9C	29-Mar-23	13
23-11098	1617994	Maw Green	ASB B9D	29-Mar-23	12
23-15277	1636205	Maw Green	ASB B10A	05-May-23	12
23-15277	1636206	Maw Green	ASB B10B	05-May-23	11
23-15277	1636207	Maw Green	ASB B10C	05-May-23	14
23-15277	1636208	Maw Green	ASB B10D	05-May-23	14
23-22427	1667617	Maw Green	B11A A	27-Jun-23	8.8
23-22427	1667618	Maw Green	B11B A	27-Jun-23	9
23-22427	1667619	Maw Green	B11C A	27-Jun-23	8.2
23-23274	1671664	Maw Green	B11D A	03-Jul-23	9.2
23-23274	1671665	Maw Green	B11E A	04-Jul-23	8.8
23-23274	1671666	Maw Green	B11F A	05-Jul-23	9.2
23-23274	1671667	Maw Green	B11G A	06-Jul-23	9
23-23274	1671668	Maw Green	B11H A	07-Jul-23	9.2
23-27594	1689492	Maw Green	ASB B12 A	14-Aug-23	12
23-27594	1689493	Maw Green	ASB B12 B	15-Aug-23	12
23-30388	1700685	Maw Green	ASB B13A	07-Sep-23	14
23-30388	1700686	Maw Green	ASB B13B	07-Sep-23	14
23-35252	1719936	Batch-Sept 23	Batch-Sept 23	19-Oct-23	14

Appendix H Maw Green surface water test certificates



Final Report

Report No.: 23-30386-1

Initial Date of Issue: 14-Sep-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
Bath Road
Wolverhampton
WV1 4EG

Contact(s): Andy Clee
Andy Stockton
Jon Owens
Charlie Gould
Sam Gould

Project MG MAW GREEN

Quotation No.: Q20-21354 **Date Received:** 11-Sep-2023

Order No.: MG/57 **Date Instructed:** 11-Sep-2023

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 15-Sep-2023

Date Approved: 14-Sep-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: MG MAW GREEN

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-30386		
Quotation No.: Q20-21354	Chemtest Sample ID.:		1700679		
Order No.: MG/57	Client Sample Ref.:		Maw Green		
	Client Sample ID.:		Filter Sand		
	Sample Location:		MG		
	Sample Type:		SOIL		
	Date Sampled:		07-Sep-2023		
	Asbestos Lab:		COVENTRY		
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected

Results - Water

Project: MG MAW GREEN

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-30386	23-30386
Quotation No.: Q20-21354	Chemtest Sample ID.:		1700680	1700681
Order No.: MG/57	Client Sample Ref.:		Maw Green	Maw Green
	Client Sample ID.:		Separation Tank	Sample Point
	Sample Location:		MG	MG
	Sample Type:		WATER	WATER
	Date Sampled:		07-Sep-2023	07-Sep-2023
Determinand	Accred.	SOP	Units	LOD
Asbestos Fibres In Water	N	1185	in 100ml	N/A
				Not Detected
				Not Detected

Test Methods

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Final Report

Report No.: 23-31150-1

Initial Date of Issue: 22-Sep-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
 Bath Road
 Wolverhampton
 WV1 4EG

Contact(s): Andy Clee
 Jon Owens
 Andy Stockton
 Charlie Gould
 Sam Gould

Project MG Maw Green

Quotation No.: Q23-32541 **Date Received:** 18-Sep-2023

Order No.: MG/57 **Date Instructed:** 18-Sep-2023

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 22-Sep-2023

Date Approved: 22-Sep-2023

Approved By:



Details: Stuart Henderson, Technical
 Manager

Results - Soil

Project: MG Maw Green

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-31150	
Quotation No.: Q23-32541	Chemtest Sample ID.:		1703534	
Order No.: MG/57	Client Sample Ref.:		Maw Green	
	Client Sample ID.:		Filter Sand	
	Sample Location:		MG	
	Sample Type:		SOIL	
	Date Sampled:		14-Sep-2023	
	Time Sampled:		14:00	
	Asbestos Lab:		NEW-ASB	
Determinand	Accred.	SOP	Units	LOD
ACM Type	U	2192		N/A
Asbestos Identification	U	2192		N/A
				-
				No Asbestos Detected

Results - Water

Project: MG Maw Green

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-31150	23-31150
Quotation No.: Q23-32541	Chemtest Sample ID.:		1703535	1703536
Order No.: MG/57	Client Sample Ref.:		Maw Green	Maw Green
	Client Sample ID.:		Separation Tank	Sample Point
	Sample Location:		MG	MG
	Sample Type:		WATER	WATER
	Date Sampled:		14-Sep-2023	14-Sep-2023
	Time Sampled:		14:15	14:30
Determinand	Accred.	SOP	Units	LOD
Asbestos Fibres In Water	N	1185	in 100ml	N/A
				Not Detected
				Not Detected

Test Methods

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Final Report

Report No.: 23-31957-1

Initial Date of Issue: 29-Sep-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
 Bath Road
 Wolverhampton
 WV1 4EG

Contact(s): Andy Clee
 Andy Stockton
 Charlie Gould
 Jon Owens
 Sam Gould

Project MG Maw Green

Quotation No.: Q23-32541 **Date Received:** 25-Sep-2023

Order No.: MG/233 **Date Instructed:** 25-Sep-2023

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 29-Sep-2023

Date Approved: 29-Sep-2023

Approved By:



Details: Stuart Henderson, Technical
 Manager

Results - Soil

Project: MG Maw Green

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-31957	
Quotation No.: Q23-32541	Chemtest Sample ID.:		1706768	
Order No.: MG/233	Client Sample Ref.:		Maw Green	
	Client Sample ID.:		Filter Sand	
	Sample Location:		MG	
	Sample Type:		SOIL	
	Date Sampled:		21-Sep-2023	
	Time Sampled:		14:45	
	Asbestos Lab:		DURHAM	
Determinand	Accred.	SOP	Units	LOD
ACM Type	U	2192		N/A
Asbestos Identification	U	2192		N/A
				-
				No Asbestos Detected

Results - Water

Project: MG Maw Green

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-31957	23-31957
Quotation No.: Q23-32541	Chemtest Sample ID.:		1706769	1706770
Order No.: MG/233	Client Sample Ref.:		Maw Green	Maw Green
	Client Sample ID.:		Seperation Tank	Sample Point
	Sample Location:		MG	MG
	Sample Type:		WATER	WATER
	Date Sampled:		21-Sep-2023	21-Sep-2023
	Time Sampled:		15:00	15:15
Determinand	Accred.	SOP	Units	LOD
Asbestos Fibres In Water	N	1185	in 100ml	N/A
				Not Detected
				Not Detected

Test Methods

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

Report Information

Key

U	UKAS accredited
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N/E	not evaluated
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SOP	Standard operating procedure
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For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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Sample Retention and Disposal

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customerservices@chemtest.com

Appendix I Lucion air monitoring report for Maw Green



Asbestos Air Monitoring Review

Maw Green Soil Treatment Works



Maw Green Road, Crewe CW1 5NG

NexGen Contract ID:	99022	NexGen Job ID:	598514
Revision:	0.3	Client Project ID (if applicable):	28480
Document Author:	David Grunnill		
Document Reviewed By:	Richard Marshall		
Report Issue Date:	25/10/2023		

Introduction

Site Name

Maw Green Soil Treatment Works, Maw Green Road, Crewe, CW1 5NG

Background

FCC/Provectus Environment (FCC&P) is currently considering an appeal against the Environment Agency's decision to partially refuse FCC's submission for a variation to its Environmental Permit.

To aid the appeal, FCC&P requested that Hydrock Consultants Ltd undertake a counter sampling exercise at the treatment facility at Maw Green Rd, Crewe CW1 5NG.

Lucion Services were appointed by Hydrock to undertake air monitoring and subsequent SEM analysis of the samples collected to determine whether airborne asbestos fibres are present, and the asbestos fibre concentration. The air monitoring and analysis were to be undertaken using a methodology to achieve a limit of detection of 0.00005 f/ml

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1.0 Project Particulars

Site Details:	Maw Green Soil Treatment Works, Maw Green Road, Crewe, CW1 5NG
Employer/ Client:	Hydrock Consultants Ltd Over Court Barns Over Lane Almondsbury Bristol BS32 4DF Contact: James Macfarlane (JamesMacfarlane@hydrock.com)
Asbestos Consultants:	Lucion Services Ltd Head Office: 7 Halifax Court, Dunston, Gateshead, NE11 9JT Contact: David Grunnill (david.grunnill@lucionservices.com)
Information source:	Lucion Services Asbestos Analyst's Job Summary Report Ref: 593515 Lucion Services Asbestos Analyst's Certificate Report Ref: 98739 dated 04/09/23 Lucion Services Asbestos Analyst's Certificate Report Ref: 98755 dated 05/09/23 Lucion Services Asbestos Analyst's Certificate Report Ref: 98771 dated 06/09/23 Lucion Services SEM Asbestos Fibre Counting Test Certificate dated 27/09/23

2.0 **Asbestos In Soils - Air Monitoring**

Report C733 (Asbestos in soil & made ground: a guide to understanding and managing risks) issued by CIRIA in 2014 states that “Where asbestos-containing soils (ACSs) are present, air monitoring data may be useful in supporting a robust soil risk assessment. However, the techniques and requirements may differ from those routinely used for occupational monitoring”

Occupational air monitoring using Phase Contrast Microscopy (PCM) is the method used for measuring airborne fibres (both asbestos and non asbestos) and is closely based on the World Health Organisation (WHO) method. This is the standard method for assessing whether or not an area is fit for reoccupation following asbestos abatement works and has a limit of quantification of 0.01 fibres/ml (this is the lowest level that can be reliably measured down to using PCM)

However, PCM is not appropriate for the measurement of long term environmental exposure, or ambient airborne fibre concentrations, as the methodology does not provide a detection limit close enough to the recognised ambient concentration of asbestos in air as 0.0001 fibres/ml or less.

In order to achieve a limit of detection (LOD) appropriate for measurement of low level ambient fibre concentrations, this requires a much higher volume of air to be sampled, followed by analysis using Scanning Electron Microscopy to produce an LOD less than (or equal to) 0.0001 fibres/ml.

2.1 **Sampling Methodology**

Samples were collected using an air monitoring pump set to a flow rate of 15 litres per minute (or higher) for a period of at least 214 minutes to give a minimum sampled volume of 3200 litres of air. All air monitoring is undertaken as per the procedures in Lucion Technical Operating procedure TOP02.02.08 *Procedure for Asbestos Air Sampling*.

The samples were subsequently analysed using the procedures outlined in the Lucion Technical Operating procedure TOP02.02.09.03 SEM *Procedure for identification and quantification of asbestos fibres on filter paper* for which Lucion holds UKAS accreditation.

This method is based upon ISO14966 (ISO 14966:2019 *Ambient air – Determination of numerical concentration of inorganic fibrous particles – Scanning electron microscopy method*) and includes initial ashing of the filters (all organic fibres are also destroyed) followed by analysis with Scanning Electron Microscopy at a magnification of 2.07kx.

For all samples collected, 240 fields were examined, which allows an LOD of 0.00005 f/ml or better to be achieved.

2.2 **Sampling Strategy**

Twelve samples were collected over a period of three consecutive days, with pumps being placed in the following locations each day:

- One sample close to the point source of potential airborne asbestos fibre positioned downwind of the source.
- One sample positioned 50 metres upwind of the source.
- Two samples located downwind of the source, positioned at 50 metres and 100 metres from the source.

Prior to positioning of the pumps, details of the current weather conditions were obtained from the on site weather station in order to determine where the pumps needed to be placed to ensure that down wind samples could be collected.

Sample numbers, and their approximate locations, are detailed on the following plan (sample numbers are indicated in yellow)



All air monitoring was undertaken following a period of dry, settled weather conditions. This is important as monitoring during wet weather would produce very low airborne fibre concentrations due to the soil moisture content..

As stated in CIRIA 733 *“There is limited data on the release of airborne fibres from soils in real environments, but it is generally agreed that soil moisture content has a particularly significant influence. In laboratory studies, the addition of five per cent moisture to a dry soil reduced airborne fibre release by 80 to 95 per cent and no airborne fibre were detected when the soil moisture content was greater than 15 per cent”*

The wind speed, wind direction, humidity, air temperature, atmospheric pressure and volume of rainfall were recorded during each day of air sampling.

2.3 Results

The results for each sample are detailed in Appendix A.

For each sample, the total number of respirable fibres, total fibre concentration, asbestos fibre concentration, detection limit and reported result is recorded.

For all twelve samples collected zero Amphibole or Chrysotile fibres were found, and therefore the reported total asbestos fibre concentration is recorded as between 0.00003 f/ml and 0.00005 f/ml for all samples taken.

The detection limit for each of the samples is between 0.00003 and 0.00005. It should be noted that the detection limit is recorded as the fibre concentration which, with 95% probability, the actual concentration lies when no fibres are detected within the sample. The calculated detection limit is based upon the sampled volume of air and the examined filter area.

For example, for a sample of 3720 litres where 240 fields are examined and no asbestos fibres are identified, there is a 95% confidence that the actual concentration is <0.00004 fibres/ml of air.

3.0 Conclusion

All air tests were undertaken using the standard Lucion Technical Operating Procedures for air sampling and scanning electron microscopy, for which Lucion holds UKAS accreditation.

Samples were collected as per the Scope and Requirements document (Ref 28480-HYD-XX-XX-FP-GE-003) and sampling plan issued by Hydrock Consultants.

Over the three consecutive days that air monitoring was undertaken, asbestos fibres were not identified within any of the samples collected.

Appendix A - Sample Results

Sample Number	593515-1-1	Date	04/09/23	Sample Type	Far source air test
Wind Direction	SSE	Wind Speed	3mpg, gust 6mph	Humidity	81
Pressure	1022.5	Temperature	21°	Rainfall	0mm
Sample Location	Positioned on a gantry above the tank in a NNW position, 50m upwind from the soil processing area				



Site Activity Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site.no dust suppression techniques utilised during the test.

Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
10:30	15.5	14:35	15.5	245	3638	1.5	240	0.0001	0.0000	0.00003	<0.00003

Comments No Amphibole or Chrysotile fibres identified

Sample Number	593515-1-2	Date	04/09/23	Sample Type	Far source air test
Wind Direction	SSE	Wind Speed	3mpg, gust 6mph	Humidity	81
Pressure	1022.5	Temperature	21°	Rainfall	0mm
Sample Location	Positioned in a SSE direction adjacent to the lagoon, 50m downwind of the soil processing area				



Site Activity	Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site.no dust suppression techniques utilised during the test.
----------------------	---

Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
10:45	15.5	14:51	15.5	246	3813	0	240	0.0000	0.0000	0.00003	<0.00003

Comments	No Amphibole or Chrysotile fibres identified
-----------------	--

Sample Number	593515-1-3	Date	04/09/23	Sample Type	Far source air test
Wind Direction	SSE	Wind Speed	3mpg, gust 6mph	Humidity	81
Pressure	1022.5	Temperature	21°	Rainfall	0mm
Sample Location	Positioned adjacent to the gas pipework in a SSE position, 100m downwind of the soil processing area				



Site Activity Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site.no dust suppression techniques utilised during the test.

Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
11:01	15.5	15:01	15.5	240	3720	1	240	0.0000	0.0000	0.00004	<0.00004

Comments No Amphibole or Chrysotile fibres identified

Sample Number	593515-2-1	Date	04/09/23	Sample Type	Near source air test
Wind Direction	SSE	Wind Speed	3mpg, gust 6mph	Humidity	81
Pressure	1022.5	Temperature	21.1°	Rainfall	0mm
Sample Location	Positioned adjacent to the soil processing picker machine (central point)				



Site Activity	Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site.no dust suppression techniques utilised during the test.
----------------------	---

Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
10:40	15.1	14:18	15.1	218	3292	2.5	240	0.0000	0.0000	0.00005	<0.00005

Comments	No Amphibole or Chrysotile fibres identified
-----------------	--

Sample Number	593515-3-1	Date	05/09/23	Sample Type	Far source air test
Wind Direction	S / SSE	Wind Speed	1mph, gust 3mph	Humidity	49
Pressure	1019.3	Temperature	25.4°	Rainfall	0mm
Sample Location	Positioned adjacent to the road junction in a southern position, 50m upwind of the soil processing area				



Site Activity	Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site. Dust suppression techniques used on site due to conditions as within normal working procedures.										
Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
09:55	15.5	13:57	15.5	242	3751	0	240	0.0000	0.0000	0.00004	<0.00004
Comments	No Amphibole or Chrysotile fibres identified										

Sample Number	593515-3-2	Date	05/09/23	Sample Type	Far source air test
Wind Direction	S / SSE	Wind Speed	1mph, gust 3mph	Humidity	49
Pressure	1019.3	Temperature	25.4°	Rainfall	0mm
Sample Location	Positioned 50m downwind of the soil processing area				



Site Activity	Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site. Dust suppression techniques used on site due to conditions as within normal working procedures.
----------------------	---

Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
09:55:10:13	15.5	14:15	15.5	242	3751	1	240	0.0000	0.0000	0.00004	<0.00004

Comments	No Amphibole or Chrysotile fibres identified
-----------------	--

Sample Number	593515-3-3	Date	05/09/23	Sample Type	Far source air test
Wind Direction	S / SSE	Wind Speed	1mph, gust 3mph	Humidity	49
Pressure	1019.3	Temperature	25.4°	Rainfall	0mm
Sample Location	Positioned adjacent to the gas pipework, 100m downwind of the soil processing area				



Site Activity Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site. Dust suppression techniques used on site due to conditions as within normal working procedures.

Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
10:21	15.5	14:23	15.5	242	3751	0	240	0.0000	0.0000	0.00004	<0.00004

Comments No Amphibole or Chrysotile fibres identified

Sample Number	593515-4-1	Date	04/09/23	Sample Type	Near source air test
Wind Direction	S / SSE	Wind Speed	1mph, gust 3mph	Humidity	49
Pressure	1019.3	Temperature	25.4°	Rainfall	0mm
Sample Location	Positioned adjacent to the soil processing picker machine				



Site Activity Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site. Dust suppression techniques used on site due to conditions as within normal working procedures.

Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
10:06	15.5	14:08	15.5	242	3751	1.5	240	0.0001	0.0000	0.00004	<0.00004

Comments No Amphibole or Chrysotile fibres identified

Sample Number	593515-5-1	Date	06/09/23	Sample Type	Far source air test
Wind Direction	SSW	Wind Speed	4mph, gust 12mph	Humidity	51
Pressure	1020	Temperature	23.4°	Rainfall	0mm
Sample Location	Positioned on a gantry above the tank, 50m upwind from the soil processing area				



Site Activity	Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site. Dust suppression techniques used to site in line with normal working procedures, due to weather conditions.
----------------------	---

Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
09:23	15.5	13:24	15.5	241	3736	0	240	0.0000	0.0000	0.00004	<0.00004

Comments	No Amphibole or Chrysotile fibres identified
-----------------	--

Sample Number	593515-5-2	Date	06/09/23	Sample Type	Far source air test
Wind Direction	SSW	Wind Speed	4mph, gust 12mph	Humidity	51
Pressure	1020	Temperature	23.4°	Rainfall	0mm
Sample Location	Positioned in a SSE direction adjacent to the lagoon, 50m downwind of the soil processing area				



Site Activity Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site. Dust suppression techniques used to site in line with normal working procedures, due to weather conditions.

Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
09:34	15.5	13:37	15.5	243	3766	0	240	0.0000	0.0000	0.00003	<0.00003

Comments No Amphibole or Chrysotile fibres identified

Sample Number	593515-5-3	Date	06/09/23	Sample Type	Far source air test
Wind Direction	SSW	Wind Speed	4mph, gust 12mph	Humidity	51
Pressure	1020	Temperature	23.4°	Rainfall	0mm
Sample Location	Positioned in a SSE direction adjacent to gas pipework, 100m downwind of the soil processing area				



Site Activity Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site. Dust suppression techniques used to site in line with normal working procedures, due to weather conditions.

Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
09:38	15.5	13:40	15.5	242	3751	0	240	0.0000	0.0000	0.00004	<0.00004

Comments No Amphibole or Chrysotile fibres identified

Sample Number	593515-6-1	Date	06/09/23	Sample Type	Near source air test
Wind Direction	SSW	Wind Speed	4mph, gust 12mph	Humidity	51
Pressure	1020	Temperature	23.4°	Rainfall	0mm
Sample Location	Positioned adjacent to picker soil processing machinery (central point)				



Site Activity Normal working conditions at time of air monitoring- diggers, earth mover machinery and pickers used on site. Dust suppression techniques used to site in line with normal working procedures, due to weather conditions.

Time on (hh:mm)	Start Flow (l/min)	Time off (hh:mm)	End Flow (l/min)	Duration (minutes)	Sampled Volume (l)	Respirable Fibres	Fields Searched	Total Fibre Concentration	Asbestos Fibre Concentration	Detection Limit (f/ml)	Reported Result (f/ml)
09:26	15.5	13:28	15.5	242	3751	0	240	0.0000	0.0000	0.00004	<0.00004

Comments No Amphibole or Chrysotile fibres identified

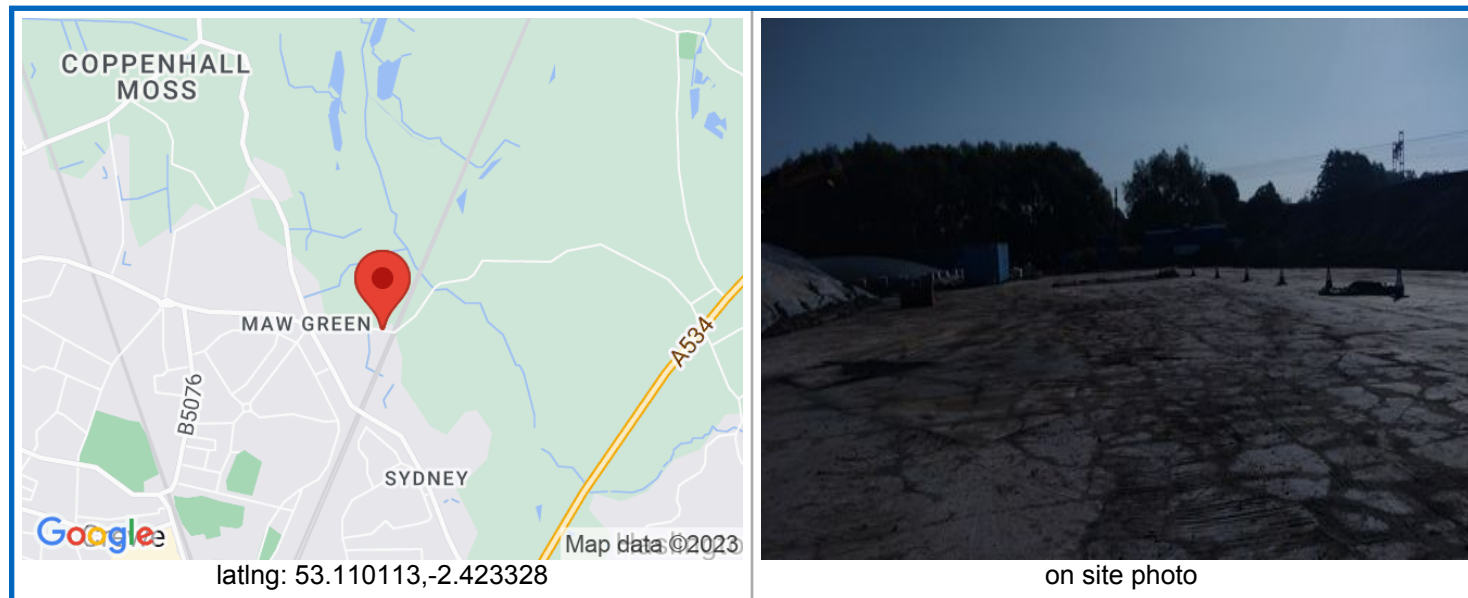
Appendix B - Job Summary Report and Analytical Certificates

Asbestos Analyst's Job Summary Report

Job Ref No: **593515**, Account Ref No: **13906**, Contract Ref No: **99022**

Maw Green Soil Treatment Facility, Maw Green Road Crewe CW1 5NG

Title: Low level LOD air monitoring with SEM analysis - Maw Green Soil Treatment Facility



First Visit to Site: Monday, 4th September, 2023, **Last Visit to Site:** Wednesday, 6th September, 2023

Head Office
7 Halifax Court, Dunston,
Gateshead, NE11 9JT
E: enquiries@lucionservices.com
T: 0345 5040 303

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

Intro

This document is a summary of findings relating to asbestos analytical works at **Maw Green Soil Treatment Facility, Maw Green Road Crewe CW1 5NG** from **Monday, 4th September, 2023** to **Wednesday, 6th September, 2023**. 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
-  Field Blank
-  LARC Enclosure Handover
-  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: SEM sampling up to 150m for low LoD.**

**Building: Maw Green Soil Treatment
Facility, Maw Green Road Crewe CW1 Level: 0
5NG**





View the Full Certificate Here: https://web.lucion.co.uk/print/air_cert/98739?s=2e38221aa4b4521b7993889fe6c54b6e

Type	Test-ID	Start Time	End Time	Date	Operative	# Samples
 Far Source Air Test	593515-1			04-09-2023	 Adam Rollinson	3
 Near Source Air Test	593515-2			04-09-2023	 Adam Rollinson	1

 **Certificate: SEM sampling up to 150m for low LoD.**

**Building: Maw Green Soil Treatment
Facility, Maw Green Road Crewe CW1 Level: 0
5NG**





View the Full Certificate Here: https://web.lucion.co.uk/print/air_cert/98755?s=dbc17554f9c1bf2b7b7a165cf8581b48

Type	Test-ID	Start Time	End Time	Date	Operative	# Samples
 Far Source Air Test	593515-3			05-09-2023	 Adam Rollinson	3
 Near Source Air Test	593515-4			05-09-2023	 Adam Rollinson	1


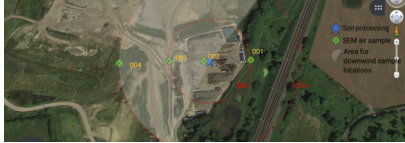

 **Certificate: SEM sampling up to 150m for low LoD.**



**Building: Maw Green Soil Treatment
FacilityMaw Green Soil Treatment
Facility, Maw Green Road Crewe CW1 Level: 0
5NG**

View the Full Certificate Here: https://web.lucion.co.uk/print/air_cert/98771?s=62bc4552ebea364300bafacd913624da

Type	Test-ID	Start Time	End Time	Date	Operative	# Samples
 Far Source Air Test	593515-5			06-09-2023	 Adam Rollinson	3
 Near Source Air Test	593515-6			06-09-2023	 Adam Rollinson	1

Job Notes

Operative	Note	Date
 <p>Adam Rollinson Senior Surveyor</p>	<p>AR-Site diary 9am arrived at site, signed in weighbridge gate house directed to propectus site. 9.05am Introduction with Andy Stockton (site supervisor), Becky (Hydrock) already present on site, agreed to await Simon (Hydrock) arrival to sit induction. 9.15am Simon arrived, Induction Started, including site discussion of days proposed events. 10.15am Visited weather station where Glen gave Becky and I weather relative information, wind direction SSE. Wind speed 3 mph Wind gust ^ 6 mph humidity 81 rainfall -none from night prior. pressure-1022.5 temperature -21.1°(22°) Dew point temp 17° site conditions- dry & sunny no dust suppression techniques utilised to site while test ran. normal working conditions at time of air monitoring- diggers, earth mover machinery, pickers used on site. 10.30am proceeded to position and run SEM air samples at 15.5L at 4x positions for 4 hours duration checking flow rates every hour. -All flow meter readings satisfactory throughout monitoring. -3.15pm completion of SEM low LOD airtests. -3.30pm Inform Simon and Andy that monitoring complete for the day, signed out at propectus site office and weighbridge site office -Left site.</p> 	Monday, 4th September, 2023
 <p>Adam Rollinson Senior Surveyor</p>	<p>AR-Site diary 8.30am arrived on site, Becky (Hydrock) arrived on site, visited Glen at the weather station. 8.40am conditions readings- wind direction -S. Wind speed- 1 mph Wind gust- ^ 3mph humidity-95 rainfall -none from night prior. pressure-1018 temperature -17.4°(18°) Dew point temp 16° site conditions- dry & sunny. normal working conditions at time of air monitoring- diggers, earth mover machinery, pickers used on site. 9am signed in at propectus site office. 9.30am proceeded to position pumps in a southern to Northern position due to wind direction. Including checking flow rates every hour. 11am Dust suppression techniques used on site due to conditions as within normal working procedures propectus dust management. 12pm Escorted Becky(Hydrock) to pumps positioning to gain environmental dust measurement relating to air monitoring positions. 12.30pm- wind direction -S/SSE. Wind speed- 1 mph Wind gust- ^ 3mph humidity- 49 pressure-1019.3 temperature -25.4°(26°) Dew point temp 26° 2.30pm All flow meter readings consistent with initial readings every hour, signed out of propectus site office. 2.35pm signed out at weighbridge site office. 2.40pm Left site.</p>	Tuesday, 5th September, 2023

Operative	Note	Date
 <p>Adam Rollinson Senior Surveyor</p>	<p>AR-Site diary 8.30am-Arrival on site, Becky (Hydrock) present at site upon arrival, signed in Weighbridge gate house. 8.40am Site conditions - wind direction -SSE. Wind speed- 3 mph Wind gust- ^ mph humidity-90 rainfall -none from night prior. pressure-1020 temperature -17.1°(18°) Dew point temp 17° site conditions- dry & sunny. normal working conditions at time of air monitoring- diggers, earth mover machinery, pickers used on site. -9am signed in at propectus site office, evidence of dust suppression to floor of site, minor water as drying. 9.15am- positioned air monitoring in line with SSE wind direction, 4 X air pumps placed running at 15.5L for 240 minutes flow rates measured hourly for duration. 11.15am dust suppression techniques used to site in line with normal working procedures, due to weather conditions. 12.30pm- wind direction -SSW. Wind speed- 4 mph Wind gust- ^12mph humidity- 51 pressure-1020 temperature -23.4°(23°) Dew point temp 18.3° site conditions- dry & sunny. normal working conditions at time of air monitoring- diggers, earth mover machinery, pickers used on site. - less evident regarding dust suppression to the floor of site, due to water previously spread is nearly completely dry - 2pm all flow meter rate readings satisfactory and consistent at 15.5L checked hourly over duration of 240minutes. 2.30pm signed out at propectus site office and weighbridge -Left site</p> 	<p>Wednesday, 6th September, 2023</p>

Attachments

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

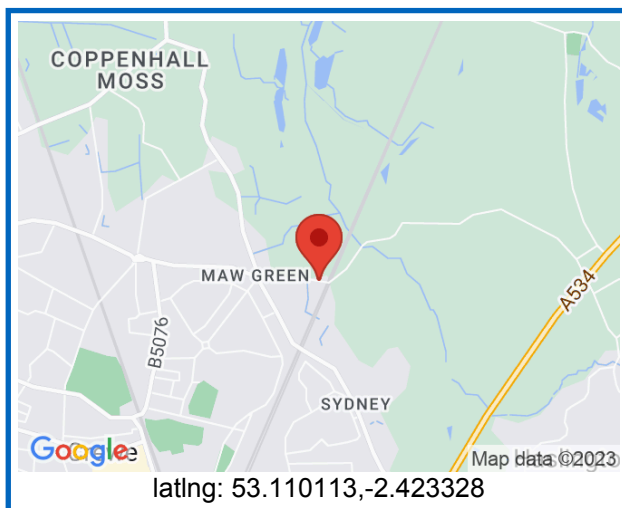
They can be downloaded from <https://web.lucion.co.uk/reports/593515/attachments>.

- [Method Statement \[https://web.lucion.co.uk/print/method_statements/593515?s=de87b7356c07104f63d45133dfcb84a0 \]](https://web.lucion.co.uk/print/method_statements/593515?s=de87b7356c07104f63d45133dfcb84a0)
- [Risk Assessment \[https://web.lucion.co.uk/print/risk_assessment/593515?s=ec208260b4a80e04f7ddb14cb6077b54 \]](https://web.lucion.co.uk/print/risk_assessment/593515?s=ec208260b4a80e04f7ddb14cb6077b54)
- [ACFrOgDquS8aPIhpwi34qfYhPc6rp1Tys1-WVgrqxBQxx9IG0ShtS7sFu2Ldm2btow2Kyn6Qw3R15UNTakIAZUU76Ffx0r9d6-TRWMUIT2m0-D83iKSYiUMZvK0aZgwFkIO4xywTP Tk6aex0L.pdf](#)
- [Figure-2---Maw-Green-Site-Arrival-Procedure.pdf](#)
- [Scope-and-Requirements.docx.pdf](#)
- [SEM-Fibre-Counting-Form---593515---Certificate.pdf](#)

Asbestos Analyst's Certificate Report

Job Ref No: **593515**, Cert Ref No: **98739**, Account Ref No: **13906**, Contract Ref No: **99022**

Maw Green Soil Treatment Facility, Maw Green Road Crewe CW1 5NG



on site photo



general works area photo

Building	Level	Works-Area	Enclosure Used?	Certificate Issue Date
Maw Green Soil Treatment Facility, Maw Green Road Crewe CW1 5NG	0	SEM sampling up to 150m for low LoD.	No	Monday, 4th September, 2023

Head Office
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Gateshead, NE11 9JT
E: enquiries@lucionservices.com
T: 0345 5040 303

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

Intro

This certificate is for the attention of

James Macfarlane
Hydrock Consultants Ltd
Over Court Barns Over Lane Almondsbury Bristol BS32 4DF

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: Far Source Air Test (593515-1)5
 Sample: positioned on gantry above the tank in a NNW position (50m) (593515-1-1)7
 Sample: positioned in a SSE direction adjacent to lagoon (50m) (593515-1-2)7
 Sample: positioned adjacent to the gas pipework in a SSE position (100m) (593515-1-3)7
 Test: Near Source Air Test (593515-2)8
 Sample: positioned adjacent to soil processing picker machine(central point) (593515-2-1)9

Test: Far Source Air Test (593515-1)

Number of samples being taken	3
Samples prepared at	SEM -Laboratory analysed
Samples counted at	SEM -Laboratory analysed
Additional Photo 1	 <p>Image Added: 2023-09-04 12:32:10</p> <p>positioned on gantry (50m)</p>
Additional Photo 2	 <p>Image Added: 2023-09-04 12:32:10</p> <p>positioned adjacent to gas pipework (100m)</p>

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

Additional Photo 3




Image Added: 2023-09-04 12:32:10

positioned adjacent to the lagoon (50m)

Test: Far Source Air Test (593515-1) - Count Sheet

Lucion Report Number		Test Date			Sampled By				Counted By							
593515-1		Monday, 4th September, 2023			Adam Rollinson				Adam Rollinson							
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)				T Site (C)				T Pcal (hPa)								
293								1013								
Microscope & Calculation Detail																
P Site (hPa)		Correction Required		Micro No.		Graticule Dia (µm)		Test Slide Result (Grid No.)		Filter Dia. Exposed (mm)						
		1		3696		100		5		22.5						
Instrument Detail																
Thermometer, Barometer		Timepiece		Flow (Hi)		Flow (Low)		HSE/NPL		Graticule Slide						
N/A		7489		273		336		5446		1667						
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	LoQ (f/ml)	Calc. Conc. (f/ml)	Report. Conc. (f/ml)
593515-1-1	positioned on gantry above the tank in a NNW position (50m)	001	742	10:30:27	14:35:28	245	15.5	16.0	15.5	3838	3838					
593515-1-2	positioned in a SSE direction adjacent to lagoon (50m)	003	760	10:45:29	14:51:35	246	15.5		15.5	3813	3813					
593515-1-3	positioned adjacent to the gas pipework in a SSE position (100m)	004	850	11:01:38	15:01:38	240	15.5		15.5	3720	3720					

Test: Near Source Air Test (593515-2)

Number of samples being taken	1
Samples prepared at	SEM -Laboratory analysed
Samples counted at	SEM -Laboratory analysed
Additional Photo 1	 <p data-bbox="925 687 1323 708">Image Added: 2023-09-04 12:40:09</p> <p data-bbox="925 746 1630 767">positioned adjacent to picker and soil processing machinery</p>

Test: Near Source Air Test (593515-2) - Count Sheet

Lucion Report Number		Test Date				Sampled By				Counted By						
593515-2		Monday, 4th September, 2023				Adam Rollinson				Adam Rollinson						
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)				T Site (C)				T Pcal (hPa)								
293								1013								
Microscope & Calculation Detail																
P Site (hPa)		Correction Required		Micro No.		Graticule Dia (µm)		Test Slide Result (Grid No.)			Filter Dia. Exposed (mm)					
		1		3696		100		5			22.5					
Instrument Detail																
Thermometer, Barometer		Timepiece		Flow (Hi)		Flow (Low)		HSE/NPL			Graticule Slide					
N/A		7489		273		336		5446			1667					
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	LoQ (f/ml)	Calc. Conc. (f/ml)	Report. Conc. (f/ml)
593515-2-1	positioned adjacent to soil processing picker machine(central point)	002	871	10:40:18	14:18:10	218	15.1		15.1	3292	3292					

Asbestos Analyst's Certificate Report

Job Ref No: **593515**, Cert Ref No: **98755**, Account Ref No: **13906**, Contract Ref No: **99022**

Maw Green Soil Treatment Facility, Maw Green Road Crewe CW1 5NG



on site photo



general works area photo

Building	Level	Works-Area	Enclosure Used?	Certificate Issue Date
Maw Green Soil Treatment Facility, Maw Green Road Crewe CW1 5NG	0	SEM sampling up to 150m for low LoD.	No	Tuesday, 5th September, 2023

Head Office
7 Halifax Court, Dunston,
Gateshead, NE11 9JT
E: enquiries@lucionservices.com
T: 0345 5040 303

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

Intro

This certificate is for the attention of

James Macfarlane
Hydrock Consultants Ltd
Over Court Barns Over Lane Almondsbury Bristol BS32 4DF

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

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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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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: Far Source Air Test (593515-3)	5
Sample: positioned adjacent to road junction in a southern position (50m) (593515-3-1)	7
Sample: positioned 50m northern position (593515-3-2)	7
Sample: positioned adjacent to gas pipework 100m in a northern position (593515-3-3)	7
Test: Near Source Air Test (593515-4)	8
Sample: positioned adjacent to soil processing picker machine (593515-4-1)	9

Test: Far Source Air Test (593515-3)


Samples prepared at	SEM Laboratory analysed
Samples counted at	SEM Laboratory analysed
Additional Photo 1	 <p>Image Added: 2023-09-05 09:54:19</p> <p>positioned adjacent to junction</p>
Additional Photo 2	 <p>Image Added: 2023-09-05 10:22:40</p> <p>positioned 100m northern direction due to southern wind direction</p>

table continued from previous page...

Additional Photo 3




Image Added: 2023-09-05 10:22:40

positioned 50m northern direction due to southern wind direction

Test: Far Source Air Test (593515-3) - Count Sheet

Lucion Report Number		Test Date				Sampled By				Counted By						
593515-3		Tuesday, 5th September, 2023				Adam Rollinson				Adam Rollinson						
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)				T Site (C)				T Pcal (hPa)								
293								1013								
Microscope & Calculation Detail																
P Site (hPa)		Correction Required		Micro No.		Graticule Dia (µm)		Test Slide Result (Grid No.)		Filter Dia. Exposed (mm)						
		1		3696		100		5		22.5						
Instrument Detail																
Thermometer, Barometer		Timepiece		Flow (Hi)		Flow (Low)		HSE/NPL		Graticule Slide						
N/A		7489		273		336		5446		1667						
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	LoQ (f/ml)	Calc. Conc. (f/ml)	Report. Conc. (f/ml)
593515-3-1	positioned adjacent to road junction in a southern position (50m)	005	802	09:55:14	13:57:29	242	15.5		15.5	3751	3751					
593515-3-2	positioned 50m northern position	007	850	10:13:55	14:15:00	242	15.5		15.5	3751	3751					
593515-3-3	positioned adjacent to gas pipework 100m in a northern position	008	871	10:21:26	14:23:35	242	15.5		15.5	3751	3751					

Test: Near Source Air Test (593515-4)

Samples prepared at	SEM Laboratory analysed
Samples counted at	SEM Laboratory analysed
Additional Photo 1	 <p>Image Added: 2023-09-05 10:05:05</p> <p>positioned adjacent with picker and soil processing machinery north side</p>

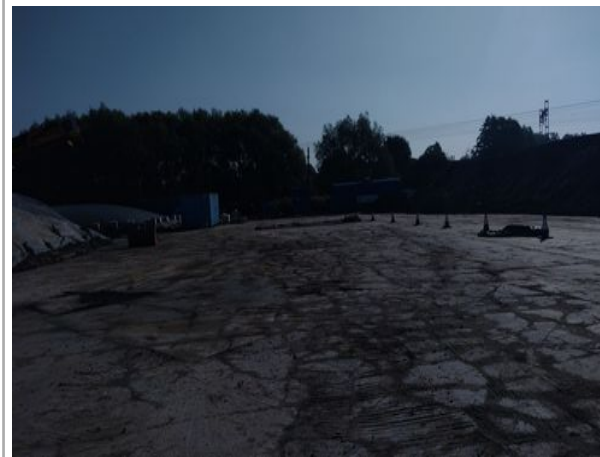
Test: Near Source Air Test (593515-4) - Count Sheet

Lucion Report Number		Test Date				Sampled By				Counted By						
593515-4		Tuesday, 5th September, 2023				Adam Rollinson				Adam Rollinson						
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)				T Site (C)				T Pcal (hPa)								
293								1013								
Microscope & Calculation Detail																
P Site (hPa)		Correction Required		Micro No.		Graticule Dia (µm)		Test Slide Result (Grid No.)		Filter Dia. Exposed (mm)						
		1		3696		100		5		22.5						
Instrument Detail																
Thermometer, Barometer		Timepiece		Flow (Hi)		Flow (Low)		HSE/NPL		Graticule Slide						
N/A		7489		273		336		5446		1667						
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	LoQ (f/ml)	Calc. Conc. (f/ml)	Report. Conc. (f/ml)
593515-4-1	positioned adjacent to soil processing picker machine	006	822	10:06:58	14:08:11	242	15.5		15.5	3751	3751					

Asbestos Analyst's Certificate Report

Job Ref No: **593515**, Cert Ref No: **98771**, Account Ref No: **13906**, Contract Ref No: **99022**

Maw Green Soil Treatment Facility, Maw Green Road Crewe CW1 5NG



on site photo



general works area photo

Building	Level	Works-Area	Enclosure Used?	Certificate Issue Date
Maw Green Soil Treatment Facility Maw Green Soil Treatment Facility, Maw Green Road Crewe CW1 5NG	0	SEM sampling up to 150m for low LoD.	No	Wednesday, 6th September, 2023

Head Office
7 Halifax Court, Dunston,
Gateshead, NE11 9JT
E: enquiries@lucionservices.com
T: 0345 5040 303

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

Intro

This certificate is for the attention of

James Macfarlane
Hydrock Consultants Ltd
Over Court Barns Over Lane Almondsbury Bristol BS32 4DF

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

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Sample: positioned adjacent to gas pipework 100m in a SSE position (593515-5-3)	7
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Sample: positioned adjacent to picker soil processing machinery (central point) (593515-6-1)	9

Test: Far Source Air Test (593515-5)

Samples prepared at	SEM Laboratory analysed
Samples counted at	SEM Laboratory analysed
Additional Photo 1	 <p>Image Added: 2023-09-06 09:21:23</p> <p>positioned on hantry</p>
Additional Photo 2	 <p>Image Added: 2023-09-06 09:35:07</p>
Additional Photo 3	 <p>Image Added: 2023-09-06 09:35:07</p>

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

Additional Photo 4




Image Added: 2023-09-06 09:35:08

Test: Far Source Air Test (593515-5) - Count Sheet

Lucion Report Number		Test Date		Sampled By				Counted By								
593515-5		Wednesday, 6th September, 2023		Adam Rollinson				Adam Rollinson								
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)				T Site (C)				T Pcal (hPa)								
293								1013								
Microscope & Calculation Detail																
P Site (hPa)		Correction Required		Micro No.		Graticule Dia (µm)		Test Slide Result (Grid No.)		Filter Dia. Exposed (mm)						
		1		3696		100		5		22.5						
Instrument Detail																
Thermometer, Barometer		Timepiece		Flow (Hi)		Flow (Low)		HSE/NPL		Graticule Slide						
N/A		7489		273		336		5446		1667						
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	LoQ (f/ml)	Calc. Conc. (f/ml)	Report. Conc. (f/ml)
593515-5-1	positioned on gantry above tank 50m	009	802	09:23:13	13:24:20	241	15.5		15.5	3736	0					
593515-5-2	positioned adjacent to lagoon 50m in a SSE position	011	850	09:34:39	13:37:57	243	15.5		15.5	3766	3766					
593515-5-3	positioned adjacent to gas pipework 100m in a SSE position	012	871	09:38:59	13:40:09	242	15.5		15.5	3751	3751					

Test: Near Source Air Test (593515-6)

Samples prepared at	SEM Laboratory analysed
Samples counted at	SEM Laboratory analysed
Additional Photo 1	 <p>Image Added: 2023-09-06 09:48:32</p>

Test: Near Source Air Test (593515-6) - Count Sheet

Lucion Report Number		Test Date				Sampled By				Counted By						
593515-6		Wednesday, 6th September, 2023				Adam Rollinson				Adam Rollinson						
Air Volume Correction Detail (Not applicable in the UK).																
T Cal (K)				T Site (C)				T Pcal (hPa)								
293								1013								
Microscope & Calculation Detail																
P Site (hPa)		Correction Required		Micro No.		Graticule Dia (µm)		Test Slide Result (Grid No.)		Filter Dia. Exposed (mm)						
		1		3696		100		5		22.5						
Instrument Detail																
Thermometer, Barometer		Timepiece		Flow (Hi)		Flow (Low)		HSE/NPL		Graticule Slide						
N/A		7489		273		336		5446		1667						
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	LoQ (f/ml)	Calc. Conc. (f/ml)	Report. Conc. (f/ml)
593515-6-1	positioned adjacent to picker soil processing machinery (central point)	010	822	09:26:55	13:28:07	242	15.5		15.5	3751	3751					

Appendix C - SEM Asbestos Fibre Counting Test Certificate



SEM Asbestos Fibre Counting Test Certificate

This certificate is for the attention of	David Brown Hydrock Consultants Ltd Over Court Barns
Contract Title	Low level LOD air monitoring with SEM analysis - Maw Green Soil Treatment Facility
Site Address	Maw Green Soil Treatment Facility
Test material sampled by	Adam Rollinson
Sampling date	04/09/2023-06/09/2023
Analyst(s)	Daniel Embleton
Analyst signature(s)	
Analysis date	25/9/2023
Approved signatory	Nichola Byron
Approved signature	
Approval date	27/9/2023
Report rendered on	25/10/2023

593515-1-1 positioned on gantry above the tank in a NNW position (50m)
 593515-1-2 positioned in a SSE direction adjacent to lagoon (50m)
 593515-1-3 positioned adjacent to the gas pipework in a SSE position (100m)
 593515-2-1 positioned adjacent to soil processing picker machine (central point)
 593515-3-1 positioned adjacent to road junction in a southern position (50m)
 593515-3-2 positioned 50m northern position
 593515-3-3 positioned adjacent to gas pipework 100m in a northern position
 593515-4-1 positioned adjacent to soil processing picker machine
 593515-5-1 positioned on gantry above tank 50m
 593515-5-2 positioned adjacent to lagoon 50m in a SSE position
 593515-5-3 - positioned adjacent to gas pipework 100m in a SSE position
 593515-6-1 positioned adjacent to picker soil processing machinery (central point)

Sample description

Analysis requested

Fibre counting of airborne respirable fibres using Scanning Electron Microscopy and chemical identification of the analysed fibres using Energy Dispersive X-ray Spectroscopy

Analysis method

The analysis was carried out using our in-house documented method based upon ISO14966 and VDI3492. Our method includes initial ashing of the filters (all organic fibres are also destroyed) and analysing them with SEM at a magnification of 2.07kx. 1.2 mm² of each filter is examined and respirable fibres (>5um length and <3um width with an aspect ratio of >3:1) are recorded and analysed by EDS to determine fibre type based on comparison to standard IOM reference samples.

Results and comments

0 Amphibole fibres found
 0 Chrysotile fibres found

Job number & Sample Number	Sampled air volume	Respirable fibres	No of fields searched	Total fibre concentration	Asbestos fibre concentration	Detection limit based on 95% confidence (f/ml)	Reported result (conc. f/ml)
593515-1-1	3838	1.5	240	0.0001	0.0000	0.00003	<0.00003
593515-1-2	3813	0	240	0.0000	0.0000	0.00003	<0.00003
593515-1-3	3720	1	240	0.0000	0.0000	0.00004	<0.00004
593515-2-1	3292	2.5	240	0.0001	0.0000	0.00005	<0.00005
593515-3-1	3751	0	240	0.0000	0.0000	0.00004	<0.00004
593515-3-2	3751	1	240	0.0000	0.0000	0.00004	<0.00004
593515-3-3	3751	0	240	0.0000	0.0000	0.00004	<0.00004
593515-4-1	3751	1.5	240	0.0001	0.0000	0.00004	<0.00004
593515-5-1	3736	0	240	0.0000	0.0000	0.00004	<0.00004
593515-5-2	3766	0	240	0.0000	0.0000	0.00003	<0.00003
593515-5-3	3751	0	240	0.0000	0.0000	0.00004	<0.00004
593515-6-1	3751	0	240	0.0000	0.0000	0.00004	<0.00004

Detection limit is reported as the numerical fibre concentration below which, with 95% probability, the actual concentration lies when no fibres are detected. Detection limit depends on sampled volume of air and the examined filter area. Detection limit is determined in accordance with ISO14966.

Lucion bear no responsibility for sample collection or sample description related information provided by the client.

Where Lucion Services has not undertaken the sampling; any prior sampling activity is beyond the company's responsibility. Where Lucion Services has sampled the test material, this has been done in accordance with TOP02.09 and TOP02.09.03. Any opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



Appendix D - SEM Microscope Certificate

Field Service Report

Service Organization	Customer
TESCAN-UK Ltd. Unit 2 Wellbrook Court, Girton Cambridge CB3 0NA United Kingdom info@tescan-uk.com	Lucion Environmental Ltd Unit 7 Halifax court Gateshead NE11 9JT United Kingdom
Service Engineer	User
Codd, Steve steve.codd@tescan.com	Nicola Byron nichola.byron@lucionservices.com

Call Information	
System:	VEGA III LMH
Serial Number:	VG13741480
Service Order Number:	SO2200937
Coverage:	
PO Reference Number:	
Reason for Service:	
Work Performed:	<ul style="list-style-type: none"> • General system check – no issues observed or reported • Log files checked – no actionable warnings or errors • General tidying of microscope area • Specimen chamber checked for cleanliness • Timers checked for; Filament: not changed (44h), TMP: oil pads not changed (909d) • Column aligned at all kV preset ranges, astigmatism checked within spec, configuration saved to user profiles • Spray and Final Apertures checked – no contamination observed, astigmatism <10% • Gun mechanical alignment calibrated for specification required absorbed current • Rotary pump checked – in working order, colour OK, oil level good • Pumping speed checked, within spec: <3mins to Vac ready • Air/mechanical suspension checked • Image resolution/quality checked, Mag.cal. checked <+/-3% using Si 10µm grid (11999) – images recorded • and saved to (C:) > Tescan > Vega > users > service > images > PM visit Oct22 for your records • Detector check (SE) – detector showing good signal • Stage re-calibrated and checked for automation with image collection s/w and repeatability • OINA AZtec Beam Measurement and Energy Calibration run for Oxford Instruments X-Max 50 EDS Detector • Project saved under Data (D:) > 2022 > TESCAN SERVICE SEP22 • SEM left working and demonstrated to customer

Parts			
Part#	Part type	Description	Qty

Labour-Repair

Type	Date	Service Engineer	Start Time	End Time	Total (h:m)
Work	28-Sep-2022	Codd, Steve	10:30	14:00	03:30
Total labour – Repair hours					03:30

Travel Time				
Date	Service Engineer	Start Time	End Time	Total (h:m)
28-Sep-2022	Codd, Steve	14:00	15:30	01:30
28-Sep-2022	Codd, Steve	09:00	10:30	01:30
Total Travel Time				03:00

Mileage/Air Fare/Ferry/Hotel/other			
Date	Description	Unit	Qty

Closing call info	
I agree that the work indicated above has been performed to my satisfaction.	
Customer signature	
Customer: Nicola Byron	Date: 12-Oct-2022

Appendix E - Calibration Certificates

Flowmeter 273

Help & Info ▾
Financial ▾
Commercial ▾
Operational ▾
Management ▾
Michael Page ▾
Recent

2018-03-09	Alf Browne	General Note	Currently not in use as Alf is on a site with its own kit
2017-11-09	Alf Browne	Transfer Ownership	
2017-09-13	Alf Browne	Asset Calibration	

Asset Calibration History...

Master Asset ID	Calibration Date	Calibrated By	Category	Result	Figures
	2018-03-19	Alf Browne	High Flow Meter	Passed	6.0, 8.1, 11.1, 14.2, 15.2, 16.2, 16.2, 15.1, 14.1, 11.1, 8.1, 6.0
2988	2018-07-13	Alf Browne	High Flow Meter	Passed	6.0, 8.0, 11.1, 14.1, 15.1, 16.2, 16.2, 15.1, 14.0, 11.0, 8.0, 5.9
2988	2019-01-23	Alf Browne	High Flow Meter	Passed	6.0, 8.2, 11.2, 14.2, 15.3, 16.3, 16.3, 15.2, 14.2, 11.2, 8.1, 6.1
2988	2019-04-25	Alf Browne	High Flow Meter	Passed	6.0, 8.1, 11.2, 14.3, 15.3, 16.3, 16.3, 15.2, 14.2, 11.1, 8.1, 6.0
2988	2019-12-03	Sean Sullivan	High Flow Meter	Passed	6.0, 8.1, 10.8, 13.9, 15.1, 16.2, 15.9, 15.0, 14.2, 10.8, 8.1, 6.0
2988	2020-05-19	Sean Sullivan	High Flow Meter	Passed	6.1, 8.2, 11.2, 14.1, 15.5, 16.0, 16.3, 15.4, 14.2, 11.1, 8.1, 6.0
2988	2020-10-06	Pete Henshall	High Flow Meter	Passed	6.0, 8.0, 11.0, 14.0, 15.0, 16.0, 16.0, 15.0, 14.0, 11.0, 8.0, 6.0
2988	2021-01-18	Pete Henshall	High Flow Meter	Passed	6.0, 8.0, 11.0, 14.0, 15.0, 16.0, 16.0, 15.0, 14.0, 11.0, 8.0, 6.0
2988	2021-04-16	Jay Kooner	High Flow Meter	Passed	6.1, 7.9, 11.2, 14.1, 15.0, 16.1, 16.0, 15.1, 13.9, 11.0, 7.8, 6.0
2754	2022-03-01	Andrew Thacker	High Flow Meter	Passed	6.0, 8.0, 11.0, 14.0, 15.0, 16.0, 16.0, 15.0, 14.0, 11.0, 8.0, 6.0
2739	2022-12-12	Andrew Thacker	High Flow Meter	Passed	6.0, 8.0, 12.0, 14.0, 15.0, 16.0, 16.0, 15.0, 14.0, 12.0, 8.0, 6.0
2739	2023-05-17	Adam Rollinson	High Flow Meter	Passed	6.0, 8.0, 12.0, 14.0, 15.0, 16.0, 16.0, 15.0, 14.0, 12.0, 8.0, 6.0
5866	2023-08-05	Adam Rollinson	High Flow Meter	Passed	6.0, 8.0, 12.0, 14.0, 15.0, 16.0, 16.0, 15.0, 14.0, 12.0, 8.0, 6.0

User Actions: Raised against this asset

Notes	Category	Raised By	Raised On	Assigned To	Action By	Completed

Help & Info ▾
Financial ▾
Commercial ▾
Operational ▾
Management ▾
Michael Page ▾
Recent

Found 1 rows of data

ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
273	Yes	273	Adam Rollinson	High Flow Meter	300mm Flowmeter, 2.0 - 25 l/min, scale graduations every 0.5 L/min JS Holdings formally FM101	3 months	2023-11-05

Calibration Expires: 2023-11-05

Calibration: Passed

+ Add New Asset Log
↗ Add User Action
↻ Edit Asset
✕ Close

Asset Logs...

Date	Possession of	Category	Reading	Comments	File	Photo
2023-08-05	Adam Rollinson	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2023-05-24	Adam Rollinson	General Note		Calibration via master at luttieworth office for 3 months	jpg IMG_20230517_150444978.jpg	
2023-05-17	Adam Rollinson	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2023-05-17	Adam Rollinson	General Note		Calibration taken place satisfactory results but unable to register via nexgen		
2023-05-04	Adam Rollinson	Transfer Ownership				
2022-12-12	Andrew Thacker	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2022-08-15	Andrew Thacker	Quarantine				
2022-03-01	Andrew Thacker	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2022-03-01	Andrew Thacker	Asset Calibration				
2021-12-07	Andrew Thacker	Quarantine				
2021-10-26	Andrew Thacker	Transfer Ownership		Transferred to Lutterworth office		
2021-07-21	Pete Henshall	Quarantine		awaiting calibration and re-issue		
2021-04-16	Jay Kooner	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2021-01-18	Jay Kooner	Transfer Ownership				
2021-01-18	Pete Henshall	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2021-01-18	Pete Henshall	Quarantine		returned to office - awaiting calibration and re-issue		
2020-10-06	PJ Butler	Transfer Ownership				
2020-10-06	Pete Henshall	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		

Pump 742

Asset Calibration History...					
Master Asset ID	Calibration Date	Calibrated By	Category	Result	Figures
	2018-10-15	Adam Yates	Flow Pump	Passed	flow_reading: 16L, start_flow: 15.1, mid_flow: 15.1, end_flow: 15.1, total_flow_time: 02:00
2884	2021-06-28	Mike Castro	Flow Pump	Passed	flow_reading: 8.08, start_flow: 8.0, mid_flow: 8.0, end_flow: 8.0, total_flow_time: 02:03
4132	2022-06-20	Paul Roberts	Flow Pump	Passed	flow_reading: 8.5, start_flow: 8.5, mid_flow: 8.6, end_flow: 8.5, total_flow_time: 09:10
4132	2022-06-20	Paul Roberts	Flow Pump	Passed	flow_reading: 8.5, start_flow: 8.5, mid_flow: 8.6, end_flow: 8.5, total_flow_time: 02:01
2884	2023-07-01	Paul Roberts	Flow Pump	Passed	flow_reading: 8, start_flow: 8, mid_flow: 8, end_flow: 8, total_flow_time: 03:00

ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
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▼ scroll down to load newer assets ▼

Microsoft Word 10.0.16.17.0 © 2023 Union Group Ltd. It is not the statement of the supplier, nor the most intelligent, but the one most receptive to change. ~Charles Darwin



Found 1 rows of data

ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
742	Yes	742	Joe Bowker	High Flow Pump	JD Technical Standard static 16ltr air pump, formerly SP36	12 months	2024-07-01

Calibration Expires: 2024-07-01

- [+ Add New Asset Log](#)
- [↗ Add User Action](#)
- [✎ Edit Asset](#)
- [✖ Close](#)

Calibration: Passed

Asset Logs...						
Date	Possession of	Category	Reading	Comments	File	Photo
2023-09-21	Joe Bowker	Transfer Ownership				
2023-07-01	Paul Roberts	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2023-06-28	Paul Roberts	Transfer Ownership				
2023-06-26	Russell O'Regan	Transfer Ownership				
2023-06-26	Russell O'Regan	Transfer Ownership				
2023-06-13	Adam Hudson	Service		Item has been repaired and serviced	 pdf Airbox-Service- Repair-Report-- -742.pdf	
2023-02-01	Adam Hudson	Quarantine		Wont hold charge		
2022-06-20	Paul Roberts	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2022-06-20	Paul Roberts	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2022-01-05	Paul Roberts	Transfer Ownership				
2021-12-13	Conner Bradshaw	Transfer Ownership				
2021-08-27	Adam Hudson	Transfer Ownership				
2021-07-02	Paul Roberts	Transfer Ownership				
2021-06-28	Mike Castro	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2020-10-27	Mike Castro	Transfer Ownership				
2020-10-27	Adam Hudson	Service		Battery replaced during service.	 jpg 20201027_104353.jpg	

Pump 760

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2021-03-01	Adam Hudson	Quarantine	Stored at St Ashaph ready for service	Airbox-Service- Repair-Report--- Lucion--- JD161387.pdf
2018-09-18	Charlie Myers	Transfer Ownership		
2018-09-01	Brendan Wardle	Transfer Ownership		
2018-03-07	Ben Green	Asset Calibration	Asset log added after asset calibration form was completed. Asset calibration result: Passed.	
2018-03-01	Ben Green	Transfer Ownership		

Asset Calibration History...

Master Asset ID	Calibration Date	Calibrated By	Category	Result	Figures
	2018-03-07	Ben Green	Flow Pump	Passed	flow_reading: 8, start_flow: 8, mid_flow: 8, end_flow: 8, total_flow_time: 02:00
2884	2021-09-20	Adam Hudson	Flow Pump	Passed	flow_reading: , start_flow: 15.1, mid_flow: 15, end_flow: 15.1, total_flow_time: 02:00

User Actions: Raised against this asset.

Notes	Category	Raised By	Raised On	Assigned To	Action By	Completed
No user actions required...						

ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
▼ scroll down to load newer assets ▼							

Found 1 rows of data

ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
760	Yes	760*	Bradley Wild	High Flow Pump	JD Technical Standard static 16ltr air pump	12 months	2022-09-20

Calibration Expires: 2022-09-20
[+ Add New Asset Log](#)
[Add User Action](#)
[Edit Asset](#)
[Close](#)

Calibration: Passed


Asset Logs...

Date	Possession of	Category	Reading	Comments	File	Photo
2023-09-18	Bradley Wild	Transfer Ownership				
2023-08-21	Jamie Probert	Transfer Ownership				
2023-06-26	Russell O'Regan	Transfer Ownership				
2023-06-26	Russell O'Regan	Transfer Ownership				
2023-06-13	Adam Hudson	Service		Item has been repaired and serviced	pdf Airbox-Service- Repair-Report--- 760.pdf	
2022-09-29	Adam Hudson	Quarantine		Mast Damaged		
2022-09-05	Simon Oakley	Transfer Ownership				
2021-11-10	Conner Bradshaw	Transfer Ownership				
2021-09-20	Adam Hudson	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2021-09-09	Adam Hudson	Service		Unit has been serviced	pdf Airbox-Service- Repair-Report--- Lucion--- JD161387.pdf	
2021-03-01	Adam Hudson	Quarantine		Stored at St Ashaph ready for service		
2018-09-18	Charlie Myers	Transfer Ownership				
2018-09-01	Brendan Wardle	Transfer Ownership				

Pump 850

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						20180815_165348.pdf	
2018-05-08	Nathan Graham	Transfer Ownership				Repair due	
2018-04-27	Todd Pankhurst	Quarantine				Returned to store for repair	
2018-04-27	Daniel Hartwell	Transfer Ownership					
2018-04-26	Todd Pankhurst	Transfer Ownership				In store	
2018-03-08	Aaron Garnett	Asset Calibration				Asset log added after asset calibration form was completed. Asset calibration result: Passed.	
2017-11-14	Aaron Garnett	Transfer Ownership					

User Actions: Raised against this asset.

Notes	Category	Raised By	Raised On	Assigned To	Action By	Completed
No user actions required...						

Asset Calibration History...

Master Asset ID	Calibration Date	Calibrated By	Category	Result	Figures
	2018-03-08	Aaron Garnett	Flow Pump	Passed	flow_reading: , start_flow: 8.0, mid_flow: 8.0, end_flow: 8.0, total_flow_time: 02:00
2884	2021-08-23	Adam Hudson	Flow Pump	Passed	flow_reading: , start_flow: 15.1, mid_flow: 15.1, end_flow: 15.1, total_flow_time: 02:00

ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
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✖ Archived Asset
✔ Live / Active Asset
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ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
850	Yes	850	Bradley Wild	High Flow Pump	Airbox Standard static 16ltr air pump, formally SP165	12 months	2022-08-23

Calibration Expires: 2022-08-23

Calibration: Passed

+ Add New Asset Log
✦ Add User Action
🔗 Edit Asset
✖ Close

Asset Logs...

Date	Possession of	Category	Reading	Comments	File	Photo
2023-09-18	Bradley Wild	Transfer Ownership				
2023-06-26	Jamie Probert	Transfer Ownership				
2023-06-26	Jamie Probert	Quarantine				
2023-06-26	Jamie Probert	Quarantine				
2023-06-13	Adam Hudson	Service		Item has been serviced and repaired.	 pdf Airbox-Service- Repair-Report-- 850.pdf	
2021-11-11	Adam Hudson	Quarantine		Damaged mast needs repairing		
2021-08-24	Paul Bamber	Transfer Ownership				
2021-08-23	Adam Hudson	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2021-08-19	Adam Hudson	Service			 pdf Airbox-Service- Repair-Report-- Lucion-- AB16L0334.pdf	
2020-11-16	Adam Hudson	Quarantine		Spare kit Chester		
2020-08-11	Elena Carannante	Transfer Ownership				
2019-05-20	Jim Beaumont	Transfer Ownership				
2018-08-16	Rob Lowe	Transfer Ownership		Sent to Oldham office for allocation.		

Pump 802

ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
2019-08-09	Andrew Thacker		Transfer Ownership				
2019-02-12	Russell O'Regan		Transfer Ownership				
2018-10-01	Ayo Talabi		Transfer Ownership				
2017-11-08	Jason Lowry		Transfer Ownership				
2017-09-21	Jason Lowry		Asset Calibration				

SP102-
Repair.pdf

Asset Calibration History...

Master Asset ID	Calibration Date	Calibrated By	Category	Result	Figures
2739	2020-10-17	Thomas Morley	Flow Pump	Passed	flow_reading: 10, start_flow: 10, mid_flow: 10, end_flow: 10, total_flow_time: 09:23
2739	2021-11-30	John Hunter	Flow Pump	Passed	flow_reading: 8.0, start_flow: 8.0, mid_flow: 8.0, end_flow: 8.0, total_flow_time: 14:00
2827	2023-05-20	Adam Rollinson	Flow Pump	Passed	flow_reading: 15, start_flow: 15, mid_flow: 15, end_flow: 15, total_flow_time: 05:13

User Actions: Raised against this asset.

Notes	Category	Raised By	Raised On	Assigned To	Action By	Completed
No user actions required...						

ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
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ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
802	Yes	802	Adam Rollinson	High Flow Pump	JD Technical Standard static 16ltr air pump formally SP102	12 months	2024-05-20

Calibration Expires: 2024-05-20

Calibration: Passed

- [+ Add New Asset Log](#)
- [↗ Add User Action](#)
- [📄 Edit Asset](#)
- [✖ Close](#)

Asset Logs...

Date	Possession of	Category	Reading	Comments	File	Photo
2023-05-20	Adam Rollinson	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2023-05-09	Adam Rollinson	Transfer Ownership				
2023-01-02	Andrew Thacker	Quarantine		Out of service, John Hunter placed pump within Lutis lock up		
2021-11-30	John Hunter	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2021-10-31	John Hunter	General Note		Hi flo Pump 802 calibration was successful following 2 hour consistent flow 8ml of air p/hour.		
2021-05-17	John Hunter	Transfer Ownership				
2020-10-17	Thomas Morley	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2020-06-11	Thomas Morley	Transfer Ownership				
2019-12-18	Andrew Thacker	Repair		Repair - New Battery	pdf SP102- Repair.pdf	
2019-08-09	Andrew Thacker	Transfer Ownership				
2019-02-12	Russell O'Regan	Transfer Ownership				
2018-10-01	Ayo Talabi	Transfer Ownership				
2017-11-08	Jason Lowry	Transfer Ownership				
2017-09-21	Jason Lowry	Asset Calibration				

Asset Calibration History...

Pump 871

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2021-10-11	Adam Hudson	Asset Calibration	Asset log added after asset calibration form was completed. Asset calibration result: Passed.
2021-09-12	Adam Hudson	Service	Unit has been serviced and repaired
2021-03-08	Adam Hudson	Quarantine	Stored at St Ashaph ready for service and mast repair
2018-10-09	Sam McDougall	Transfer Ovnership	
2018-03-07	Joe Erahdun	Asset Calibration	Asset log added after asset calibration form was completed. Asset calibration result: Passed.
2017-10-28	Joe Erahdun	Transfer Ovnership	
2017-10-27	Jamie Probert	Transfer Ovnership	

Asset Calibration History...

Master Asset ID	Calibration Date	Calibrated By	Category	Result	Figures
	2018-03-07	Joe Erahdun	Flow Pump	Passed	flow_reading: 8.0, start_flow: 8.0, mid_flow: 8.0, end_flow: 7.9, total_flow_time: 02:00
2884	2021-10-11	Adam Hudson	Flow Pump	Passed	flow_reading: 15, start_flow: 15, mid_flow: 15.1, end_flow: 15, total_flow_time: 02:00
2754	2022-11-22	Luke Walker	Flow Pump	Passed	flow_reading: 15, start_flow: 15, mid_flow: 15, end_flow: 15, total_flow_time: 08:01

User Actions: Raised against this asset.

Notes	Category	Raised By	Raised On	Assigned To	Action By	Completed
No user actions required...						

ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
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ID	Checked Out	Unique Ref.	Assigned User	Category	Description	Valid For	Date Expires
871	Yes	871	Bradley Wild	High Flow Pump	Airbox Standard static 16ltr air pump, formerly SP189	12 months	2023-11-22

Calibration Expires: 2023-11-22

Calibration: Passed

+ Add New Asset Log
↗ Add User Action
✎ Edit Asset
✕ Close

Asset Logs...

Date	Possession of	Category	Reading	Comments	File	Photo
2023-09-18	Bradley Wild	Transfer Ownership				
2022-11-22	Luke Walker	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2022-10-31	Luke Walker	Transfer Ownership				
2022-09-28	Adam Hudson	Quarantine				
2021-11-09	Adam Hudson	Transfer Ownership				
2021-10-17	Matt Foster	Transfer Ownership				
2021-10-11	Adam Hudson	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2021-09-12	Adam Hudson	Service		Unit has been serviced and repaired	pdf Airbox-Service-Report-Report---Lucion---AB16L0478.pdf <small>Click to view/download the file</small>	
2021-03-08	Adam Hudson	Quarantine		Stored at St Ashaph ready for service and mast repair		
2018-10-09	Sam McDougall	Transfer Ownership				
2018-03-07	Joe Erahdun	Asset Calibration		Asset log added after asset calibration form was completed. Asset calibration result: Passed.		
2017-10-28	Joe Erahdun	Transfer Ownership				
2017-10-27	Jamie Probert	Transfer Ownership				

Asset Calibration History...

-Service-Report-Report---Lucion---AB16L0478.pdf

Appendix F - Lucion Technical Operating Procedures



LucionServices

Protecting people and planet

TOP02.02.08 Procedure for Asbestos Air Sampling

Author
C. Parr

Approver
R. Boulton

Revision date
02 May 2023



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Unless stated explicitly in relation to a particular aspect, this policy applies to all activities delivered by the Lucion Group Limited companies, inclusive of:

- **Lucion Services Limited (including Lucion Infrastructure and Lucion Marine)**

The Lucion Group companies operate an integrated management system for all policies and procedures in line with our certifications and accreditations, offering a streamlined service to our clients.

1.0 Purpose

1.1 To define the procedure for carrying out air sampling onto membrane filters to measure the concentration of airborne asbestos fibre and to include the method for the conductance of visual assessments undertaken for the purpose of clearance indicator testing.

2.0 Scope

2.1 Procedure TOP02.02.08 is applicable to all personnel undertaking air sampling for asbestos fibre as defined above using method HSG 248 (current version).



3.0 References

- 3.1 LGMS Manual, SOPs and TOPs
- 3.2 HSG 248 (current version)
- 3.3 Control of Asbestos Regulations (2012)
- 3.4 Health & Safety at Work Act 1974
- 3.5 HSG 247 (current version)

4.0 Definitions and Abbreviations

- 4.1 Four Stage Clearance - a mandatory requirement following Licensed Asbestos work

5.0 Specific Procedures

5.1 Introduction

- 5.1.1 Fully trained personnel of Lucion Services carry out air sampling. Prior to carrying out sampling unsupervised, the personnel will be trained in accordance with asbestos air monitoring module and possess all prerequisite modules. Evidence of competence and supervised work must be recorded on the training record. Analysts will subsequently be audited on site at least annually.

5.2 Method and planning

- 5.2.1 Air sampling, with reference to asbestos, is the means of determining the concentration of airborne asbestos or other fibres at a specific location at the time of sampling
- 5.2.2 The method of sampling and interpretation of findings is defined in HSG 248. Sampling should be carried out in compliance with the requirements of these documents, of which analysts must have a thorough knowledge. Any deviations, in exceptional circumstances, must be clearly documented in the air test report.
- 5.2.3 Prior to starting work all hazards shall be identified and a risk assessment carried out in accordance with SOP14.01.01
- 5.2.4 Set the microscope up in accordance with the relevant procedure.
- 5.2.5 Pre site planning. For recurring or repetitive works generic contract review may be used. More specific contract review notes will either be held in the Nexgen job or contract reference. A method statement and ASB5 must be provided prior to attendance on site and this must also be contained within NexGen. The planning should also include an estimate as to the length of time taken to conduct any visual inspections. The analyst should be made aware of all information prior to attending the site in order that they are aware of Lucion's responsibilities and duties within the overall works being monitored. Additional notes will be made in the Notes and Activities section in NexGen for that particular job.
- 5.2.6 The analyst must ensure that the equipment selected is appropriate for the work being undertaken and is in a clear and sound condition. On selection of the items of equipment to be taken on site the analyst must complete the appropriate checklist pro forma for the following equipment items:

5.3 Equipment

- 5.3.1 Sampling Pumps: In addition to checking that pumps and tubing selected are clean and functioning the analyst must ensure that each pump (numbered individually) is capable of:
 - giving a smooth airflow;
 - having flow set to within $\pm 10\%$ for flow rates $< 2 \text{ litres.min}^{-1}$ and within $\pm 5\%$ for flow rates $> 2 \text{ litres.min}^{-1}$;
 - maintaining this flow rate during the period of sampling.

In addition the analyst should ensure that the pump is in a charged state (the battery indicator should be



green for fully charged). Regular use of the pump is in itself an assessment of pump adequacy, however, pumps are assessed for flow stability and battery life by undertaking a Service of the pump which is fulfilled by one of two means:

- 1) Pumps will be serviced on a 3 year basis, or less if there is a fault, by FermionX. The service will include any minor repairs and battery replacement. This is a rolling 3 year programme, where pumps are required to be sent away for this service the following will need to be completed. Ownership of the pump will be transferred to the operations manager using Asset Management in NexGen. The pump will be sent to FermionX for service, upon return the service report will be included as a record within the Asset Log within [NexGen Assets](#).
- 2) All pumps (including newly purchased units), should be subject to a run test by the 'owner' of the pump prior to them being used for testing activities, and on a 12 monthly basis. The highest achievable flow rate should be recorded in the notes section, and for:
 - a) High flow pumps, the run test will involve running the pump at a minimum of 8L/min for two hours, checking at the start, after 1 hour intervals and at the end of 2 hours.
 - b) Low flow pumps, the run test will involve running the pump at a minimum of 1L/min ideally 2L/min for 2 hours, checking at the start, at 1 hour intervals, and at the end of 2 hours.

Details can be recorded via the owner's [My Profile](#) page and will be saved in the asset log for that item. Refer to 6.4 pump flow check.

- 5.3.2 Sampling Heads: Only use numbered heads and cowls. The exposed filter diameter is determined using TOP02.02.02 and a label affixed to the container in which they are kept. The analyst must check that heads and cowls are clean before use.
- 5.3.3 Open faced filter holders with cowls of a design detailed in HSG 248 (current revision) will be used at all times. Filter heads are of the JS Holdings plastic cowl type.
- 5.3.4 Membrane Filters: 25mm cellulose ester membrane filters with a printed grid and pore size 0.8 to 1.2um. Note: from each batch of filters purchased, one filter per 100 (1%) will be mounted using the acetone/triacetin method as defined in HSG 248 (current revision). These blanks (sampling media blanks) are counted and are deemed suitable if no more than five fibres are observed in 200 fields. Any batches not conforming to these criteria will be rejected and returned to the supplier. Each satisfactory batch is identified with a suitable unique number and the result recorded and the filters made available for use. Analysts must ensure that only filters that meet the criteria are withdrawn from stock. To eliminate error only those media conforming to the aforementioned criteria will be released for use in the consumables area.
- 5.3.5 Flowmeters. The analyst must check that this equipment is labelled indicating it to be within the current calibration period. Flowmeters are calibrated against a master flow meter [calibrated by a UKAS accredited calibration laboratory against a meter traceable to national standards]. Field flowmeter calibration will be quarterly or following repair or damage. Refer TOP 02.05.
- 5.3.6 Field timepiece/thermometer/barometer. This is a single item that is capable of taking all three measurements and will be calibrated every 12 months. Refer TOP02.02.03.
- 5.3.7 Microscope, Graticule Slide and NPL/HSE Slide: The analyst must ensure that the microscope is clean, functional and carries a current service label. (Service at least every 12 months following initial purchase). The graticule slide must bear a label showing valid calibration status.
- 5.3.8 Additional items of equipment needed are wet wipes, microscope slides, tweezers with flat spatulate ends, tally counters, tablet, printer and vaporiser.
- 5.3.9 The analyst must check all items on the visual checklist to ensure all necessary equipment and materials



have been accounted for.

5.3.10 At any time, any equipment found to be damaged or malfunctioning must be immediately labelled 'DO NOT USE' with details of malfunction etc. logged in NexGen Assets and withdrawn from use and repaired or replaced at the decision of a member of the assurance team or operations manager. The repaired or replacement item must be recalibrated/checked and labelled as appropriate prior to re-issue.

Calibration Expires: 2021-03-12
Calibration: Passed

+ Add New Asset Log + Add User Action Edit Asset Close

Date	In possession of?	Log category	Reading (odometer etc.)
YYYY-MM-DD	search id	General Note	

Detailed notes (e)

Asset photo
Select an image to upload
Use a large image if available

Cancel Save

Asset Logs...

Date	Possession of	Category	Reading	Comments	File	Photo
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5.4 General On Site procedure

5.4.1 On arrival on site the analyst must ensure that the location allocated for fibre counting is clean with unobstructed working surfaces and free from sources of contamination. If using the rear van compartment care should be taken when accessing and egressing due to restricted headroom. Work responsibilities may differ from project to site or even test-to-test and so the following should be applied as appropriate.

5.4.2 Work Area: Where applicable, prior to asbestos removal the analyst should inspect the construction of the enclosure (with Guidance HSG247 & 248 used as reference) and the extraction equipment assessed (current DOP certification and the capacity in relation to the enclosure size as described in L143 (second edition) paragraph 389). Relevant comments should be recorded in the NexGen air monitoring app including the extent and type of asbestos material to be removed. If a smoke test to determine enclosure integrity is carried out, the result must be recorded in the air test app (including any remedial action required). Note: witnessing of smoke tests is outside the scope of Lucion's UKAS accreditation and should normally be carried out by the contractor and only witnessed by the analyst. A bright beam "searchlight" type torch should be used to determine if any smoke is exiting from the enclosure. The negative pressure unit should remain off during this operation. The enclosure dimensions should be approximately measured in metres and noted in the air test app together with a sketch of the enclosure (sketch to include position of NPU and any roving heads used and three stage airlock entrance). A note should also be made of the hygiene facilities available (also refer to Guidance HSG247 & 248).

5.4.3 Preparation for Sampling. Filter heads, rings and cowls should be cleaned with wet wipes prior to use and must be allowed to dry completely. A membrane filter should be loaded onto the head with spatulate ended tweezers ensuring that the filter is positioned centrally in the head. The PTFE ring is placed on top of the filter and seated. The head is then secured to the cowl. Filter heads, cowls and filters must be



handled carefully to prevent any contamination arising.

- 5.4.4 Field Blanks. Where site sampling and counting is carried out in a field laboratory (ie a van) a field blank should be carried out prior to the start of sampling and counting. The field blank will constitute a filter taken from a loaded but unused filter head and mounted using the usual method as prescribed in this procedure. The cap of the loaded but unused filter head should be removed for 3 seconds and replaced at the point of sampling (i.e. in the case of a clearance sample, inside the enclosure). The head must not be in contact with the analyst (e.g. in a pocket).

Frequency of checks – one filter per project or per set of samples (e.g. a set of leak tests and personals performed on a site should be accompanied by a field blank) is adequate unless conditions are unusually dusty.

Field blank filters should be 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. The outcome of the count should not be subtracted from the count of any samples taken under test conditions (refer Analysts' Guide section on blanks).

When a field blank(s) has indicated a need for investigation further blanks at the main laboratory (laboratory blanks) are taken from the same batch to determine the cause of spurious results. In any case the compliance manager must be informed immediately.

- 5.4.5 Before proceeding further it is necessary to ensure the accuracy of flow measurements taken on site. The need for this check arises through differences in temperature and pressure between site and calibration conditions existing. This can in turn affect the reading given by a rotameter. Lab 30 (UKAS document) specifies that flowrate is to be measured within $\pm 5\%$. The fibre count spreadsheet requires that you input the temperature and pressure at calibration conditions and also at site conditions. A difference of greater than $\pm 5\%$ will lead to a correction automatically being made to the volume of air drawn.

5.5 Air sampling

5.5.1 To take an asbestos air sample load a filter head onto a corresponding pump. Take the pump to the point of sampling and measure the flowrate, ensuring the flowmeter is held vertically and adjust as necessary using the screw adjuster on the pump to the chosen flow rate for the sample type to be taken (please note: in the case of a clearance or work area, flow measurement will need to be done immediately adjacent the enclosure [i.e. second stage of the air lock] or work area and the pump carried to the sampling position whilst running). The pump may now be placed in position for sampling, with the filter head pointing downwards and normally 1 -2 metres above floor level by use of a suitable mast. The positioning of the pump must be as close to the area where asbestos has been removed from i.e. underneath the location of AIB ceiling tiles which have now been removed. Immediately following positioning of the running pump, the time is taken and recorded on the air sample sheet as well as the location and code for the sample being taken. In order to record the on and off times of the sampling a calibrated timepiece must be taken into the enclosure by the analyst. This instrument must be suitably decontaminated on enclosure exit. On completion of the sampling run, the end time is noted and the pump remains switched on. The pump is then carried to adjacent the enclosure / work area as noted above and the end flow rate taken at this point to avoid pump recovery errors on restarting of the pump. The read flow rate is corrected as necessary and recorded as above. The duration of the sample run should be recorded to an accuracy of $\pm 2\%$. Where samples are to be transported prior to counting, the end of the cowl(s) must be capped to prevent any cross contamination. Where pumps are used in



locations where contamination could occur, the pumps must be thoroughly wet wiped. Similarly, all used filter heads/cowls must be cleaned and dried before further use. Used wet wipes must be placed in sealable bags and disposed of as potentially contaminated waste.

5.5.2 On completion of sampling the filters are ready to be mounted and counted in accordance with procedure TOP02.02.09.

5.5.2.1 In the event of a failure of the test due to a malfunction of the equipment i.e the pump battery fails mid test, the details of the test and equipment used should still be recorded on the certificate with a note detailing the reasons for the failure of the test. If required the test should then be repeated. The action described in 5.3.10 should be followed.

5.5.3 Specific sampling regimes. Depending on the reason for testing for asbestos in air a slightly different sampling procedure may be adopted in addition to the aforementioned general considerations. HSG 248 gives the following sampling strategies: personal sampling; background and reassurance sampling; leak testing; personal sampling to assess respiratory protection and clearance indicator testing. Each of these will be dealt with in turn and their procedural considerations outlined.

5.5.3.1 Personal Sampling (test code P). When sampling is carried out to determine personal exposure to asbestos for assessing compliance with the control limit the method employed is clearly laid down in HSG 248. Personal samples are also taken in an enclosure on analysts or removal operatives wearing respiratory protection to assess the effectiveness of dust suppression techniques and suitability of the RPE, such information, eg, RPE worn, the fibre type worked on, tools used by the operative, location and the duration of the activity undertaken, this must be logged within the comments section of the air test. Specific Short Duration Activity (SSDA) is used to measure the fibre level for a specific activity with a defined set of conditions presented by the work. It is primarily used to feed into the LARCs database/library of anticipated fibre levels for similar work and to check the effectiveness of controls. It can also be used to confirm the suitability of the selected RPE, the suitability of methodologies, and, subject to meeting the WHO criteria (flow rate of 1-2 l/minute, minimum volume of 240 litres, which may be pooled from more than one sample), to calculate the exposure level for comparison with the Control Limit.

The operative should be observed by the analyst for the duration of the test for SSDA so that when the activity stops, so does the test.

The filter holder should point downwards and be fixed to the upper lapel or shoulder of the worker's clothing, as close to the mouth and nose as practicable, and preferably within 200mm. Consideration should be given as to whether the wearer is left or right handed and the cowl placed on this side of the body Due regard must be given to localised concentrations; in such cases the sampling head should be positioned on the side expected to give the higher result. If a respirator is worn, the sampling head should be positioned away from the clean air exhaust. Wherever possible the HSE approved method should be adhered to (HSG 248 Appendix 1, current revision). Flow rate or time may be adjusted if required, to give a fibre density in the range of 100 to 400 fibres mm⁻². **It is preferable to count 200 fields for each sample as this will lower the detection limit as highlighted in the table below:**

	Sample volume Minimum of 40 litres (10-minute short-term exposure limit)	Specific Short Duration Activities (SSDA)	Sample volume Minimum of 240 litres (4 hour control limit)
Sample rate	4 litres/minute	2-4l/min The sampling strategy (volume of air sampled and graticules	1 - 2 litres/minute



		<p>counted) must achieve a meaningful LOQ e.g., below 0.1 f/ml.</p> <p>This typically means higher flow rates for shorter durations.</p> <p>(at least a 30 minute test)</p>	
Purpose of test	10 minute control limit	To obtain accurate exposure levels for specific tasks undertaken which feeds into exposure record, e.g. removal of AIB, fine cleaning, bag run.	4 hour control limit Assessment of RPE
Fields counted (a minimum as stated in HSG248)	100	100	100
Detection limit (based on sample volume and fields counted)	0.24 fcm ⁻³	0.08 fcm ⁻³	0.04 fcm ⁻³
Fields counted (the ideal as this improves reporting accuracy)	200	200	200
Detection limit (based on sample volume and fields counted)	0.12 fcm ⁻³	0.04 fcm ⁻³	0.02 fcm ⁻³

Analysts and surveyors need to be certain that our work methods and RPE are suitable and provide adequate protection, therefore, personal monitoring representative of various tasks should be carried out. For example, assessment of control limits during refurbishment and demolition surveys, including sampling, and assessment of RPE adequacy during various visual inspections to include AIB, insulation and sprayed coating. Assessments, when possible, must be carried out monthly and the job number referenced in your timesheet. Therefore, in summary:

- Sample for as long as possible
- Always count 200 fields
- Always calculate detection limit
- Report results correctly, either less than the limit of detection or the calculated value if it is greater than the LOD.



5.5.3.2 Background Sampling (Pre-Work) (test code B). Analysts should carry out an air test or tests adjacent to the area enclosed (or being enclosed) prior to the start of asbestos removal. The test should aim to obtain a minimum volume of 480 litres. This test is important to establish what, if any, fibre levels are present, which may influence results taken during or after work has been completed. Sample distribution should cover likely sources of fibre.

5.5.3.3 Leak Testing (During Work) (test code L). The analyst should take samples during works to detect any possible fibre leakage from the enclosure. This should include extractor exhaust where extracted air cannot be vented externally. The sample location relative to the enclosure is selected by the analyst based on judgement related to on-going visual inspection of the enclosed area, any perceived 'weak spots', efficiency of NPU and work in hand (eg. double bagged waste coming out of enclosure). Guidance HSG248 states that, where leak samples show concentrations at or above 0.01 fml-1 work should be suspended and the source investigated. The investigation should include:

- Inspecting the enclosure for defects, checking there is sufficient airlock door flap deflection,
- Inspecting the NPUs to make sure that sufficient negative pressure and airflow is still being achieved,
- Checking with the licensed contractor to determine if there has been any change in removal methods or work practices or if operatives or waste bags have just come out of the enclosure.
- Consideration of other site factors which generate airborne material (eg dry brushing, handling machine-made mineral fibres (MMMF)).

Under normal circumstances, leak tests should have a minimum volume of 480 litres (in order to allow reporting down to 0.01 fibres per millilitre of air). When an elevated number of fibres are identified and the calculated LOD is exceeded, or in the analyst's opinion it is felt that fibres are more numerous than previous tests, but the LOD has not been exceeded, then the analyst shall advise the contractor and/or client that works should cease and the source of the fibres be investigated. Preventing the leak reoccurring (eg resealing the enclosure followed by smoke testing), cleaning of areas external to the enclosure and reassurance air testing are likely to be necessary before work can recommence.

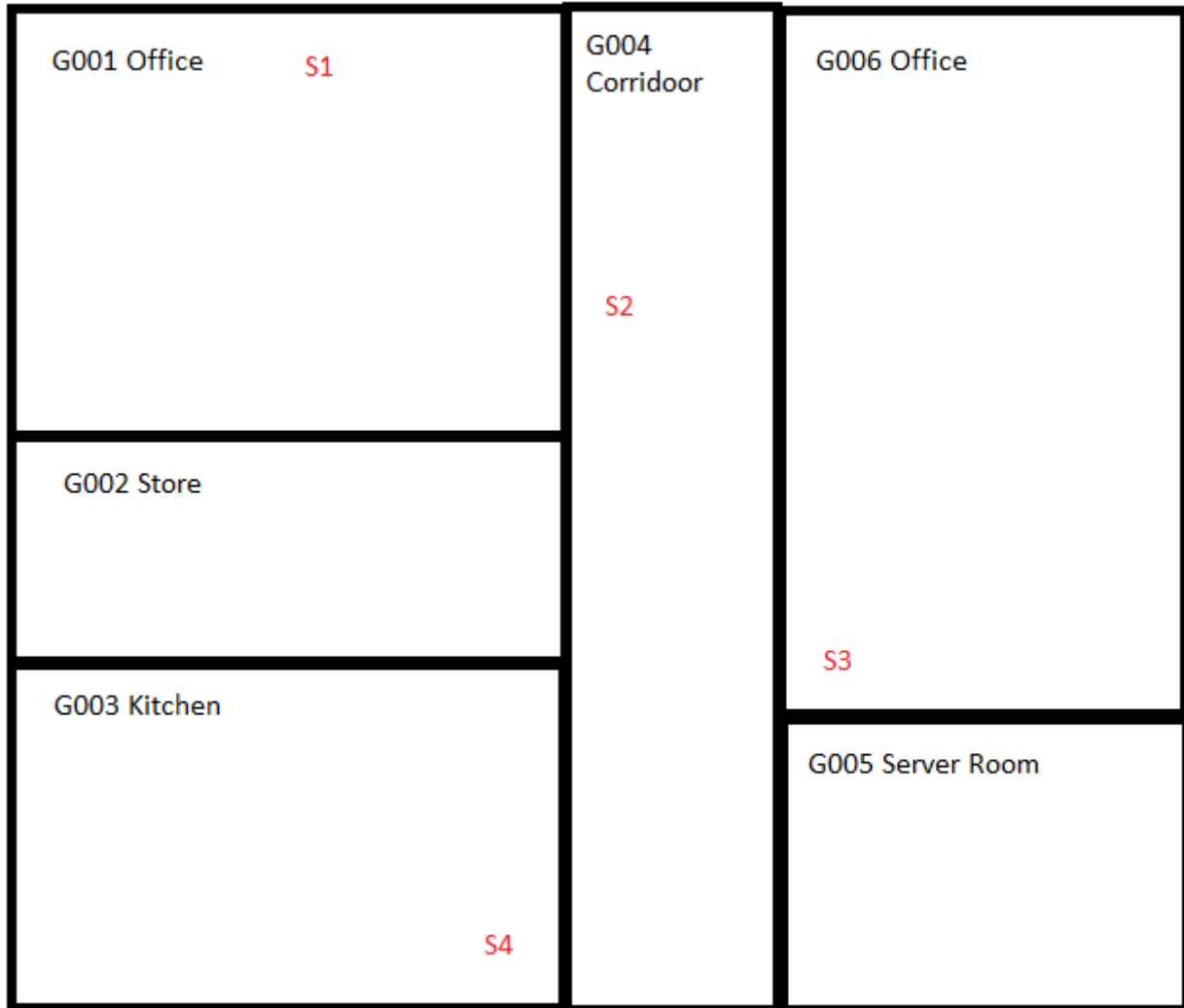
5.5.3.4 Clearance Testing. Following the completion of removal of asbestos the premises must be assessed to determine whether they are thoroughly clean and hence fit to be returned to normal occupation. It is important that this includes the premises, any plant or equipment or parts of the premises where work with asbestos has taken place and the surrounding areas that may have been contaminated. The areas requiring assessment for site clearance certification include: 1. The enclosed area including air locks of the delineated work area where an enclosure has not been used. 2. The immediate surrounding area (for enclosures this will include the outside of walls and underneath polythene sheeting used to cover floors; for delineated areas this will include surfaces nearby either where asbestos may have been spread or where the pre-cleaning was not done properly). 3. The transit route 4. The waste route and area around the waste skip.

5.5.3.5 Near Source Static Sampling. To assess the release and spread of asbestos fibre concentrations near sources (eg inside enclosures, work without an enclosure, near simulated disturbance activities in unoccupied areas, buildings and enclosures to represent typical release scenarios for normal occupation or maintenance activities, disturbance of asbestos in soil and made ground, or mineral processing etc)

5.5.3.6 Far-source Perimeter Sampling. Conducted around the perimeter of the site where there may be other workers, public access or residential and commercial buildings. Far source air tests must collect a minimum volume of 960L as per table 5.2 within HSG248 second edition



5.5.4 All air tests should be accompanied by a site plan showing the sampling locations along with any “landmarks” to allow for easy identification of where the air tests were carried out as shown below



5.6 The Four Stage Clearance

5.6.1 The process of site clearance certification. The analyst must ensure that the client or contractor has thoroughly cleaned and allowed the work area to dry. This may be done through communication with the removal supervisor and /or looking through vision panels in the enclosure. The four-stage site clearance certification may now proceed. The analyst should be carrying out personal air monitoring on themselves for 5% of the enclosures entered.

5.6.2 Stage 1. Preliminary check of site condition and job completeness. At this stage the analyst should discuss aspects of the work with the site supervisor, determine the readiness of the enclosure for visual inspection based on the supervisor’s own visual assessment and review the contractor’s method statement to assure themselves that the work specified has been carried out to completeness and in the correct manner. The site supervisor should provide a completed, signed handover form for review by the analyst. A photo of this should be included in the report. HSG248 gives an example of what information should be included on the handover form. If for any reason this cannot be discerned the 4 stage clearance



must be aborted and a stage failure reported. Should the process proceed, where practical, the areas to be assessed are dry (any deviation to be recorded on air test sheet). Occasionally some surfaces or materials will need to be sealed before the disturbed air test because there may be sufficient quantities of non-asbestos dust to prevent the air test being carried out. Sealants may be used in this situation under the analysts' direction (fact to be recorded on air test sheet). Sacrificial floor layers must be removed prior to commencement of site clearance certification. The work area, enclosure, hygiene facilities and controls must be intact, operable (e.g. doors closed, fully set up and running) and clean with all ACMs included in the scope of the work and non-essential asbestos contaminated equipment removed. First, the analyst must examine the work area (normally from a viewing panel or CCTV), surrounding area, transit route, waste route and area around the waste disposal storage and all areas of the hygiene facilities must be carefully examined for the presence of asbestos containing waste and debris. Photos of the hygiene facilities clean, shower and dirty section must be taken at this time. This should also include an inspection to ensure that all tools used in the removal process (except those needed during the thorough visual inspection) have been appropriately cleaned and are safely stowed. Record these pre-inspection findings by selecting the appropriate criteria on the air test sheet and append any supporting notes. The analyst must record any remaining asbestos outside the scope of work. The analyst is to include an estimated visual time based on their assessment of the size and complexity of the enclosure presented.



Handover form	
Licensed contractor's thorough visual inspection form (to be passed to the analyst before 4-stage clearance starts) Copy to be retained by licensed contractor	
Objective: To carry out the thorough visual inspection of enclosure/work area. Areas to be clean from visible debris and dust	
Site address	
Size of enclosure? (see POW) (LxW x H (metres))	
Has the NPU been switched off and new pre-filter inserted?	Yes/No (If No, explain)
Have all ACM removal locations been checked and certified as free from asbestos?	Yes/No (If No, explain)
Have all floor surfaces/walls/items been inspected and are they confirmed as visually clean?	Yes/No (If No, explain)
Have all ledges, sills, higher level surfaces (including voids where appropriate) been inspected and are they confirmed as visually clean?	Yes/No (If No, explain)
Have ACM removal locations been checked and confirmed as visually clean?	Yes/No (If No, explain)
Have all rooms been checked and confirmed as visually clean?	Yes/No (If No, explain)
Have all cables, wiring and any items to remain in enclosure during the 4-stage clearance been checked and confirmed as visually clean?	Yes/No (If No, explain)
How long did the supervisor's visual inspection take?	
Start time	
Finish time	
Total time hours/minutes	
I certify that I have carried out a thorough visual inspection of the enclosure/ work area and can confirm that the area is visually clean and ready to be made available to the analyst for the independent 4-stage clearance	Supervisor's signature
	Date
	Time
Form to be handed to analyst before 4-stage clearance starts	Analyst's signature
	Date
	Time



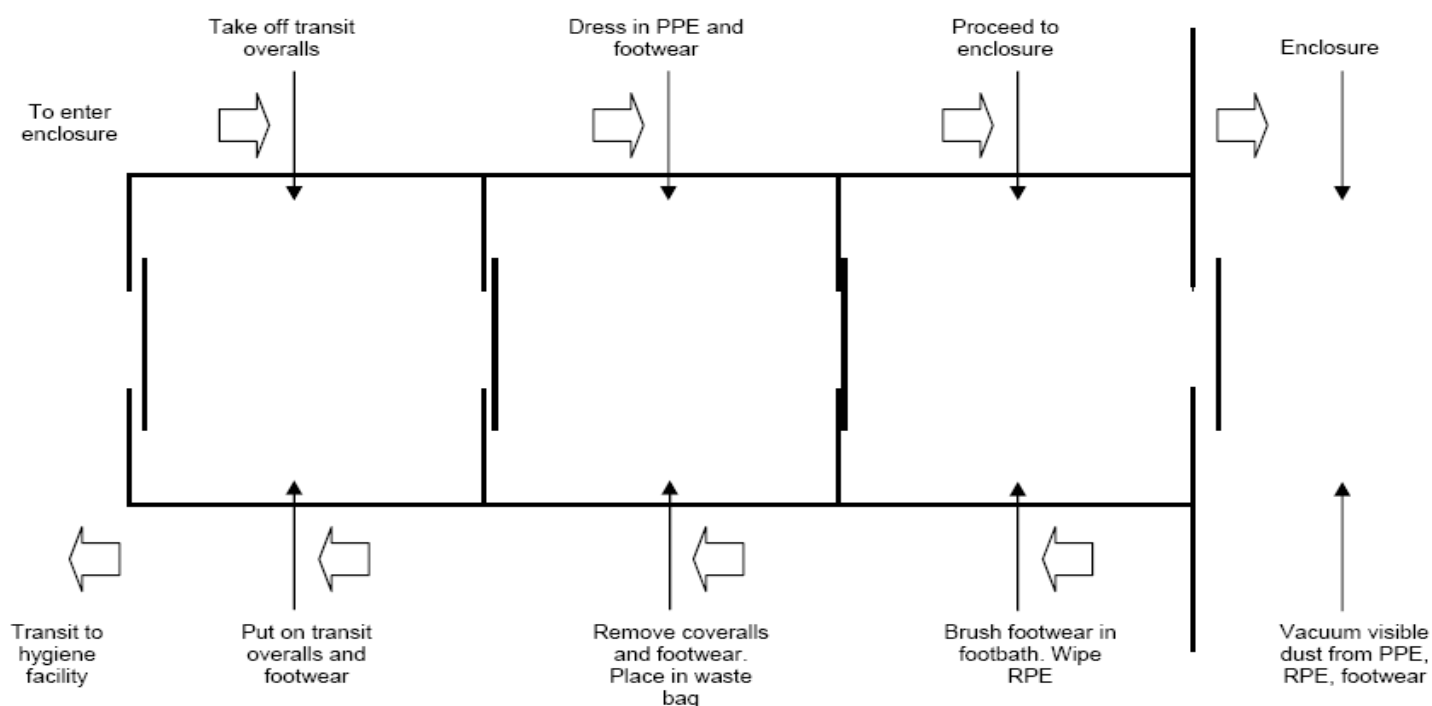
5.6.3 Stage 2. Thorough visual inspection. On entire completion of the asbestos removal and actions required via stage 1, the asbestos contractor's representative should carry out a visual examination to ensure that the work area has been suitably decontaminated.

5.6.4 Once satisfied that the area is ready for visual inspection the analyst shall enter the clean end of the decontamination unit and prepare for transit to the enclosure.

5.6.5 It is mandatory that the analyst removes all items of clothing (including underwear and socks) prior to any enclosure entry (normally stage 2 visual inspection, and deployment/retrieval of sampling pumps at stage 3). Disposable Type 5/6 overalls (white for work in the enclosure, blue for transit (if available, otherwise two pairs of white coveralls), transit shoes (and then wellingtons) and an orinasal P3 filtered mask shall be available to the analyst.

Note: Swimwear may be worn by the analysts under the coveralls for privacy purposes, this can be washed in the DCU during showering and reused.

5.6.6 Transit to the enclosure from the DCU, shall be carried out in accordance with Figures 6.1 (DCU and enclosure not connected) and 6.2 (DCU and enclosure connected) and is based on current guidance and procedure in HSG248. Transit through the airlock for access to, and egress from, the enclosure is as shown below:



5.6.7 During transit and visual inspection of the enclosure the analyst shall ensure that their head remains covered by the hood of the overalls. RPE straps shall be underneath the hood.

5.6.8 The analyst shall carry out an inspection to ensure that the enclosure, air locks and/or work area have been thoroughly decontaminated and that the stripped surfaces have not been sealed with any wetting agents or similar (e.g. poly vinyl acetate spray) and that the negative pressure unit pre-filter has been renewed. It is essential that, as well as complete removal of the asbestos material within the enclosure, thorough vacuuming and/or wiping to all surfaces has taken place to remove any dust present. This is important since all dust, not necessarily associated with the asbestos items, may be contaminated with



fine asbestos dust from the asbestos in situ or during removal. If any items within the enclosure have been sealed with polythene to prevent contamination, it is essential that the analyst has the sealing removed prior to the visual inspection or inspects these items after dismantling of the enclosure. The method statement or plan of work should also be consulted to see if there is any doubt over the scope of the works carried out. The findings of the visual inspection must be accurately recorded on the certificate for reoccupation where the main items often checked are listed (this list is not exhaustive and it is the responsibility of the analyst to ensure all relevant items are inspected and included in the stage 2 visual inspection report along with appropriate comments). In cases where asbestos may have been left in inaccessible areas, the location and approximate extent must be recorded on the air test sheet, if extent is uncertain, e.g. beneath a floor, then justification must be provided. The analyst must ensure that the enclosed area is entirely dry. Prior to clearance air sampling where any of the above aspects are unsatisfactory the analyst must instruct the contractor to carry out remedial work followed by a visual re-inspection by the analyst. Only then may this stage of the enclosure or work area be deemed complete.

When using a torch the following guidance from table A5.3 of the Analyst Guide (Current Revision) should be followed:

“The torch beam when shone along a surface at a shallow angle is useful in identifying fine settled dust on surfaces. The angle should be as low as possible to give a long beam of light along the surface (see Figures A5.2 and A5.3). It can allow particles to be more easily observed by the shadows they cast and by the scattered light. It can also augment the lighting in the enclosure.”

5.6.9 The analyst should ensure that he or she is accompanied during the thorough visual inspection by a representative of the contractor, who can rectify any minor problems found, such as:

- holes in the enclosure not visible from the outside;
- small amounts of dust or debris found during the course of the inspection

There is an increased chance of missing contamination if the analyst carries out cleaning and the mask worn (orinasal with P3 filter to EN 140 and EN 143) is not suitable for the potentially higher levels of asbestos fibre generated during prolonged cleaning. Therefore, if the analyst decides that there is still an unacceptable level of contamination in an enclosure, or the contractor refuses to carry out any cleaning that is requested, then the visual inspection shall fail. Remember: As an analyst you are there purely to ensure the enclosure is clean and not to clean it - this is the job of the licensed asbestos removal contractor. In the instance that the analyst deems it necessary to fail the stage 2 visual inspection, the analyst must begin again at stage 1 when carrying out the reinspection of the area. **Remember: The purpose of stage 1 amongst other things is to check the enclosure integrity and the surrounding area, anything could have happened to the enclosure in the time between visual inspections.**

5.6.10 The analyst is required to record details of any minor cleaning that is required to be undertaken by the contractor, and should the cleaning take more than ten minutes in total, the visual should be failed.

5.6.11 The analyst must ensure that all non-essential equipment is removed from the enclosure. Equipment that should remain in the enclosure to help the inspection includes:

- Step Ladders / scaffolding – depending on the height of the enclosure one or other will be needed to allow safe access to inspect ledges etc above head height
- Lighting – a thorough inspection needs lighting, a torch alone is not enough. The torch should be used to supplement the background lighting, not replace it
- Vacuum cleaner and other cleaning materials – this will allow the contractor to clean any minor amounts of debris identified immediately; a vacuum cleaner must also be available



for preliminary decontamination on leaving the enclosure

- Buckets of water and sponges and brushes or wipes in the airlock to allow preliminary decontamination following the visual inspection

5.6.12 On decision to leave the enclosure the analyst shall pass through the airlock as shown in the diagram above. Overalls should be removed and placed in an asbestos waste bag in the middle section of the three-stage airlock. Wellingtons should also be bagged prior to removal from the airlocks. The analyst should dress in clean transit overalls (or remain in the 'base layer' coveralls) and transit shoes in the first stage of the airlock prior to transit to the decontamination unit. (Refer to HSG248 and flow charts below in Section 6 of this TOP).

5.6.13 Stage 3: Clearance Air Monitoring (test code C). Following the successful completion of the visual inspection air monitoring must be carried out to check that the concentration of airborne fibres remaining in areas affected by the works is as low as is reasonably practicable. The analyst must ensure that the negative pressure unit is switched off and the enclosure side of the filter is capped prior to clearance sampling. However, if, in the opinion of the analyst, switching the air extraction system off would compromise the integrity of the enclosure, and there are people near the enclosure who may be exposed to airborne asbestos fibres as a consequence, the analyst can direct the contractors to leave the system switched on during the air test. Any decision to leave the air extraction system switched on should be noted, with reasons why, on the CfR Air clearance sampling may then proceed. Note: It is mandatory to follow the transit and decontamination procedure described above (5.6.3 Stage 2) if you leave the enclosure to collect any equipment you might have in the vehicle. Where all your pumps and other equipment are with you in the stage 2 airlock, you can directly proceed to carrying out stage 3.

5.6.14 The sampling procedure is to be carried out as described in HSG 248, with a minimum air volume of 480 litres being sampled at a rate not greater than 16 lmin^{-1} , with 15 lmin^{-1} being the normal expectation.

5.6.15 The minimum number of samples to be taken is to be based on the formula given in HSG 248 (current revision). It is important to note that the formula gives a minimum number of samples. In enclosed areas, which are subdivided, an increased number of samples may be required. A help sheet ([sample no's vs enclosure size](#)) is also available. The following should also be borne in mind:

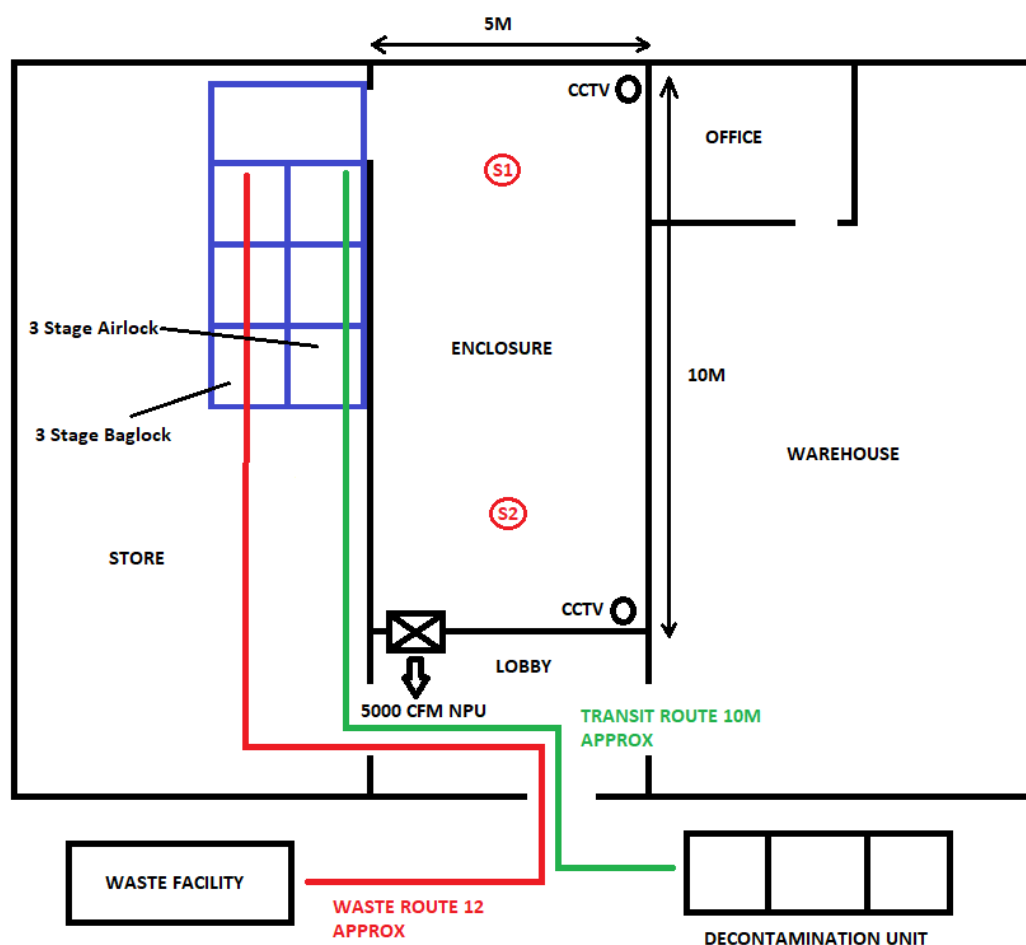
- Sampling equipment should be distributed throughout the enclosure
- At least half the samplers should be close to or underneath where the asbestos was removed
- Sampling heads should be 1-2m from the floor with filter holders pointing in a downward direction
- In tall enclosures (e.g. lift shafts etc) samplers should be placed at representative exposure heights. For enclosures with floor areas $>20\text{ m}^2$ a long-handled broom should be used to sweep the floor, for both ergonomic and practical reasons.
- There should always be at least two measurements taken except where enclosure areas are less than 10 m^3 .

When sample collection begins, enclosure surfaces must be disturbed for a minimum of 1.5 minutes per sample taken/pump run, where possible with the aid of a brush (to mimic normal post removal cleaning activities). The disturbance time and pump on and off times should be recorded. Sample locations within the enclosure should be recorded on the enclosure sketch. After disturbance, the brush should be left in the enclosure and treated as contaminated waste. At this point all primary records, i.e pump numbers, cowl numbers, pump on/off times should be recorded via the Nexgen app on a tablet, sealed within a clear plastic bag. If this method/tablet was to fail, a laminated enclosure sample location sheet should be used with a permanent marker to make an enclosure sketch, mark the sample locations and the pump/head numbers and the on and off times of the pumps. The collected information shall be transcribed into



the air monitoring app, additionally, the completed sheet should be photographed (as evidence of use) and saved within the CFR. The sheet shall be wiped clean once the information has been recorded.

5.6.16 It is at this point that the enclosure sketch will normally be drawn on the tablet or on the Lucion site sketch plan template. It is essential that this sketch is both accurate and detailed so it may be used to “piece together” the work area and surrounding facilities in the future. As a minimum the sketch must (where appropriate) identify the enclosure location, 3 stage airlock position, NPU position, hygiene facility location, waste route and waste storage facility (“van” may be marked if appropriate) and personnel transit route. Cut through style lines may be used to indicate greater distances than the scale of the drawing will allow. Approximate dimensions and distances should also be marked on the sketch in addition to sampling locations. An example follows. Transit route, waste route and enclosure location should be marked relative to “landmarks” to allow these elements to be located in future.



5.6.17 On completion of the sampling carried out the sampling details are recorded and the fibre count, this is carried out in accordance with TOP02.02.09. In the instance that the air sampling results exceed the clearance indicator of 0.01 fibres ml⁻¹ then the analyst should proceed to fail stage 3 and inform the supervisor of the necessary actions. The analyst is not required to restart the 4 stage clearance and can continue to retest the area following completion of the informed actions.

5.6.18 Stage 3 of the 4 stage clearance is deemed to have passed if:

- Less than 5 pumps are being used and all air tests are below the clearance indicator of 0.01 fibres ml⁻¹ or
- Greater than 5 pumps are used and; 80% of the air tests are below the clearance indicator of 0.01 fibres ml⁻¹ and the remaining 20% are no greater than 0.015 fibres ml⁻¹



Stage 4 of the clearance procedure now applies. A type H vacuum cleaner and suitable PPE & RPE should be kept available during dismantling allowing any small amounts of trapped debris to be cleared up. Once the enclosure has been entirely removed, the analyst should finally reinspect the area to ensure that no debris remains. If excessive debris or dust is released the enclosure should be re-erected, the area cleaned and the clearance procedure reinitiated. The analyst on site may make this decision, however, the regional technical lead or regional manager should be informed at the analyst's earliest convenience.

Throughout all stages of the 4 stage clearance, photographs must be taken using the NexGen mobile app as prompted and required. A sufficient number of photographs must be taken of the enclosure after the visual inspection and stage 4.

5.6.19 Clearance Certification. Following successful completion of all four stages, the certificate of reoccupation can be signed (using a finger on the tablet screen), uploaded to NexGen and issued by email (this is the standard Lucion issue format) to the client and removal contractor. If, on occasion a hardcopy is required, then a printed copy can be generated. The analyst must also ensure that the signature of the contractor's representative is obtained on the tablet (During Covid-19, if the analyst is uncomfortable with the supervisor using their handheld device, this step maybe skipped but a note must be made as to why). In the event of failure (at any stage), the analyst is to issue those pages completed up to the fail point and mark the fail section as being unsuccessful. A reason may be given in the notes box of the certificate for the failed stage. In addition, the site sketch plan should also be completed to include those elements inspected up to the point of failure e.g. the transit and waste routes should be included if a stage 1 failure is incurred.

5.6.20 Hygiene facility testing. Prior to departure from site analyst should be asked to perform a visual examination and clearance air test in the dirty end and shower section of the decontamination unit. This test is to be carried out only upon the request of the contractor or their site representative. This test should be carried out as a separate air test (the same project may be used).

5.6.21 Reassurance Sampling (test code R). This type of sampling is used to check that no significant fibre has been released when areas are detented or where asbestos has been worked or encapsulated without enclosing the area. The sampling strategy is at the discretion of the analyst in terms of number and location, but samples should be of sufficient volume that results be expressed to the lower limit of accurate measurement of 0.01 fibres per millilitre of air, i.e. 480 litres. Numbers of samples should also be sufficient to give a representative cross-section of the area of concern. Reassurance air tests should not be conducted until the location has been inspected to confirm that there is no suspect dust and debris. This should be recorded in the NexGen app with supporting photos where required.

5.6.22 Following completion of the abatement works, the analyst should utilise the "link air certificate" function within NexGen to update the current asbestos register. If an analyst, who doesn't hold a valid P402 or equivalent is required to amend the material assessment score, e.g the product has been encapsulated, then this amendment to the data must be reviewed by an authorised surveyor or report checker. (An internal note can be included in NexGen). Reporting of results. All data must be synchronised with NexGen at the end of each day. Standard issue of any air monitoring or COR report is by email to the client. A unique link is provided to the report's location in NexGen. On occasion when a hard copy may be required immediately on site, the analyst has the facility to print a copy.

5.6.23 Length of Visual Inspection. The analyst should make sure that there is sufficient time available to



complete the visual inspection. The estimated time should be recorded in stage 1. If the actual time taken recorded on stage 2 differs by more than 20% then additional comments should be recorded detailing the reasons for this difference. HSG248 has given guidance on suggested visual lengths for various remediation works.

ACM	Location	Size of area or volume	Complexity/difficulty	Estimated time required
AIB				
AIB	Ceiling tiles plus void	500–600 m ²	Very difficult	8 hours
AIB	Selective ceiling tile removal	200–300 m ²	Not very complex but time-consuming	3–4 hours
AIB single panel	Domestic cupboard, small enclosure	6–10 m ²	Not very complex. Some pipes, shelf, skirting etc	15–30 minutes but up to 1 hour
AIB soffit	External	20–40 linear metres	Not complex but high-level with mobile platform	1–4 hours
AIB	Panel(s) below window	20–30 m ²	Not complex	0.5–2 hours
AIB	Ceiling tiles plus void	25–50 m ²	Quite difficult. Services, cable trays	1–4 hours
AIB	Ceiling tiles plus void	100–150 m ²	Quite difficult. Services, cable trays	2–6 hours
AIB	Ceiling tiles plus void	200–300 m ²	Quite difficult. Services, cable trays. Time-consuming	4–8 hours
Lagging/insulation				
Pipe insulation/lagging	Boiler room	50–100 m ² (pipes) (150–300 m ³) (vessels)	Complex. Various vessels, pipes, ledges	2–4 hours to 1–2 days
Pipe insulation/lagging remnants from previous removal	Boiler room	50–100 m ² (pipes) (150–300 m ³) (vessels)	Complex. Various vessels, pipes, ledges	2–4 hours to 1–2 days
Asbestos debris (lagging/AIB)	Ceiling void	25–50 m ²	Quite difficult. Services, cable trays. Time-consuming	1–6 hours

Notes

- 1 The degree of 'sheeting out' by the licensed contractor will greatly affect the time needed to conduct a visual inspection on similar removal works.
- 2 Ceiling voids may be devoid of fixtures/fittings or full of them; this will also affect the time required.

5.7 Site Safety

5.7.1 Analysts are required to comply with individual site safety requirements (safety footwear, hi-vis, ear protectors etc where applicable) and any specific transit procedures that the Licensed Asbestos Contractor may require that you follow.



- 5.7.2 Equipment used in the enclosure (ie sampling pumps, screwdriver, mirror etc) must be wiped with wet wipes in the airlock prior to removal from the enclosure.
- 5.7.3 Remember RPE and PPE must be inspected before and after each use and a recorded inspection carried out weekly.
- 5.7.4 HSG53 states that wearing a half mask for over 1 hour can lead to the face seal being compromised. Where an analyst is required to wear a mask for longer than 1 hour, they should retreat to the airlock where a check of the seal is performed. If the seal check is satisfactory then the work can continue. Should there be an issue with the face seal, or the analyst feels it necessary to remove the RPE, then the analyst should decontaminate and take a short break before recommencing activities. If when the job is being set up there is a likelihood of the visual inspection lasting longer than 1 hour, the use of a full face powered respirator should be considered.
- 5.7.5 The analyst should decide, based on the on site risk assessment, and their assessment of the enclosure, whether a full face or half mask is most appropriate. This should include the length of inspection, physical access requirements, and comfort. The analyst should record the ID number of the mask they have worn during the Four Stage Clearance.

5.8 Non Licensed Removal Works - Visual inspections/ Statement of Cleanliness (Outside the Scope of Accreditation)

- 5.8.1 On occasion a client may require visual confirmation from the analyst that a non licensed material has been removed (in addition to reassurance air monitoring). Where this is requested the following procedure shall be used for the inspection itself and recording of information.
- 5.8.2 The basis of the recording of this visual assessment will be the “Statement of Cleanliness” function of the air monitoring app.
- 5.8.3 The analyst must hold any Four stage clearance authorisation to carry out the Visual Inspection.
- 5.8.3 The analyst shall establish the exact scope of the removal in the contractor’s method statement. The visual inspection should then confirm that all the non licensed materials have been removed as per the scope of works and that no visible fragments or residues remain. Where there are unavoidably areas of no access or ACMs from the scope of works remaining in situ then these must be recorded (see 5.8.5). Note: the contractor must provide safe access to all areas for this inspection. It is not acceptable to rely on the contractor’s word that “everything has been removed”. The analyst should have a sufficiently bright torch (and have suitable tools if necessary i.e: flat end screwdriver etc) to aid the inspection.
- 5.8.4 The analyst must draw a sketch plan of the work area. This should show the positions of any air tests and the extent and locations of the ACMs removed. It should also show the locations of any ACMs that unavoidably are remaining in situ and any unavoidable non accessed areas as well as any transit/waste routes and any decontamination facilities/skips.
- 5.8.5 Photographic evidence, with appropriate accompanying statements, will be required showing:
 - A clear photograph of the site sketch plan.
 - A photograph of the scope of removal in the contractor’s method statement with a brief statement summarising the scope i.e: removal of cement pipe from riser in room 10, vinyl floor tiles from rooms 1, 2, 3 etc.
 - At least one photograph of the area from where the ACMs have been removed to show that they are no longer present. For larger jobs or for numerous non licensed removals several photos will be required. If all ACMs have been removed as per scope of works then the following statement should accompany this photograph: “All ACMs have been removed as per the scope of works”.
 - Photographs of any ACMs remaining in situ and any areas that were inaccessible along with a suitable description.



- Photographs of the transit/waste routes after the removal as well as waste facilities.
- Any other additional information that you think might be of relevance.
- Note: If you are on site before removal takes place it is good practice to photograph the area before removal.

5.8.6 When organising site works of this type, managers should provide all necessary information regarding the location, scope of works etc to the surveyor by populating the appropriate areas of the “job details” on NexGen.

5.8.7 Half masks with P3 filters and disposable coveralls should be worn during the visual inspection, however due to the much lower levels of risk from fibres on licensable works, normal clothing can be worn underneath. RPE, any tools used, tablets etc can be decontaminated with wet wipes. Used coveralls and used wet wipes should be disposed of as asbestos waste.

5.9 Monitoring of Enclosure Negative Pressure

5.9.1 If required under the terms of the contract. Lucion will in the first instance instruct the Licenced Removal Contractor to conduct negative pressure monitoring on their enclosures using the methods laid out in their own procedures.

5.9.2 If the contractor is unable to carry out these measurements, the analyst will measure the negative pressure at agreed locations on the enclosure using either an Electronic Differential Pressure Monitor or a Dwyer Gauge. Monitoring locations will be agreed between the Analyst and the LARC supervisor due to each enclosure being unique with differing configurations and air movement.

5.9.3 If the pressure difference between inside and outside the enclosure is greater or equal to 5 Pa on the electronic meter or 0.5mm / 0.02 inch water gauge on the scale of a Dwyer Gauge then it will be deemed satisfactory.

5.9.4 It should be noted that pressure in an enclosure may not be uniform and subject to other influences, e.g. outside wind pressure, particularly when doors and windows are open in the building. Other indicators, such as correct functioning of NPUs and deflection of airlock flaps will often provide viable evidence of airflow and that the air management within the enclosures is functioning correctly.

5.9.5 Results of satisfactory measurements will not be recorded. In the event of an unsatisfactory reading, an external comment (via Job Notes) will be added to the air monitoring certificate detailing the unsatisfactory reading value, location, actions taken to rectify the situation and confirmation that the negative pressure is now satisfactory following actions completed.

5.10 Failure of Electronic Equipment During On Site Works

5.10.1 In the event of a hardware/software failure on site, paper hard copies of the air monitoring documentation should not be used. The local office should be contacted and a replacement device requested.

If a replacement device can not be sourced in a reasonable time frame then the details of the works can be dictated to another user to be entered into a working device. An external note should be included in the job to acknowledge that results etc were dictated by the analyst on site to another person over the phone.

5.10.2 In the event of the app being unavailable the calculations required to report fibre concentrations are located in [TOP02.02.09](#)

5.11.3 If at Contract Review stage it is identified that electronic devices can not be used then a blank version of



the CfR should be printed out and all details recorded in writing. This information must be transcribed to the user's tablet once available. A photograph of the handwritten notes uploaded to the file store and any relevant external/internal notes recorded.



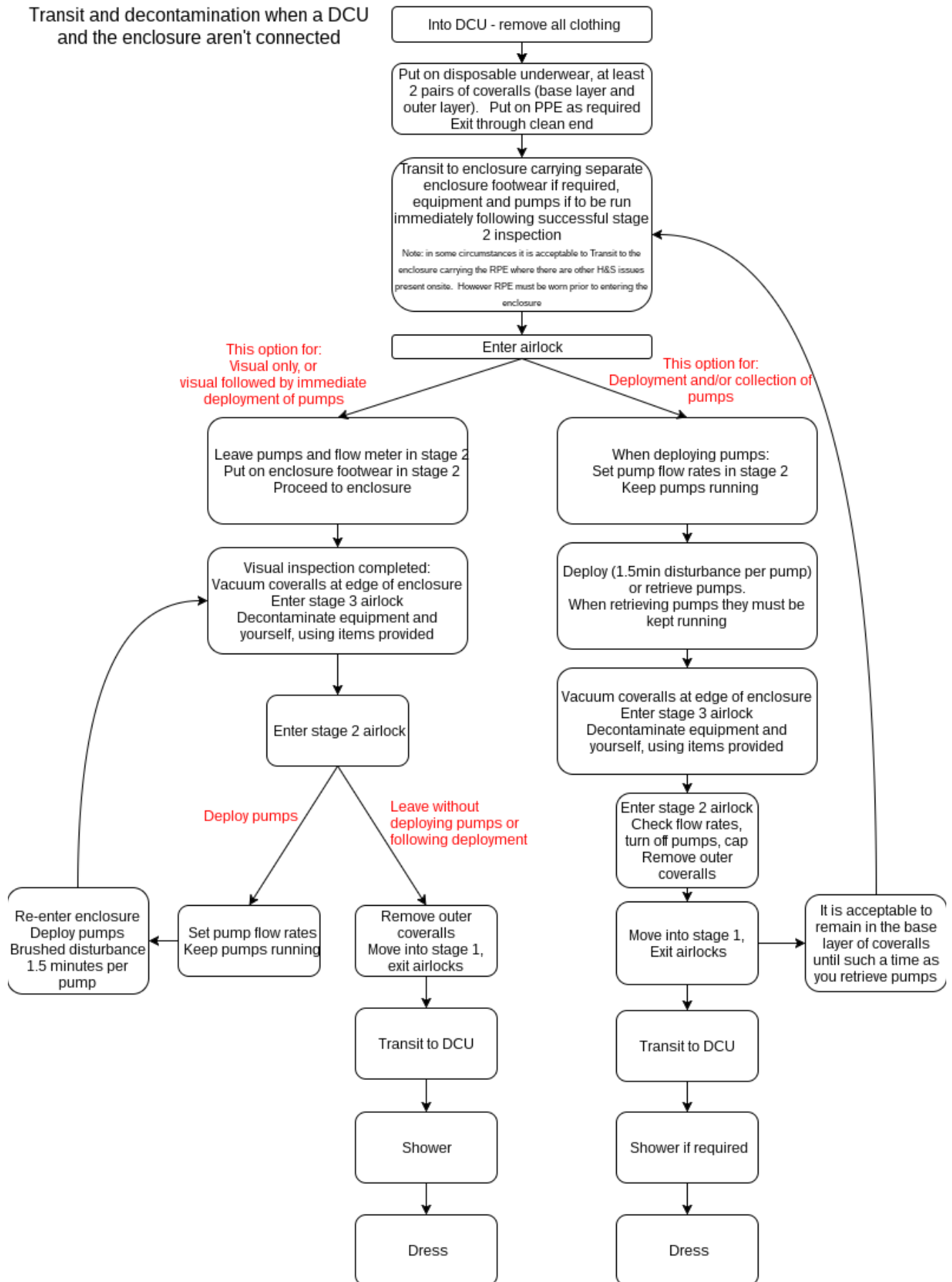
6.0 Documentation/Tables

Note: In addition to the procedures outlined below swimwear may be worn by the analysts under the coveralls for privacy purposes, this can be washed and cleaned in the DCU during showering and reused.



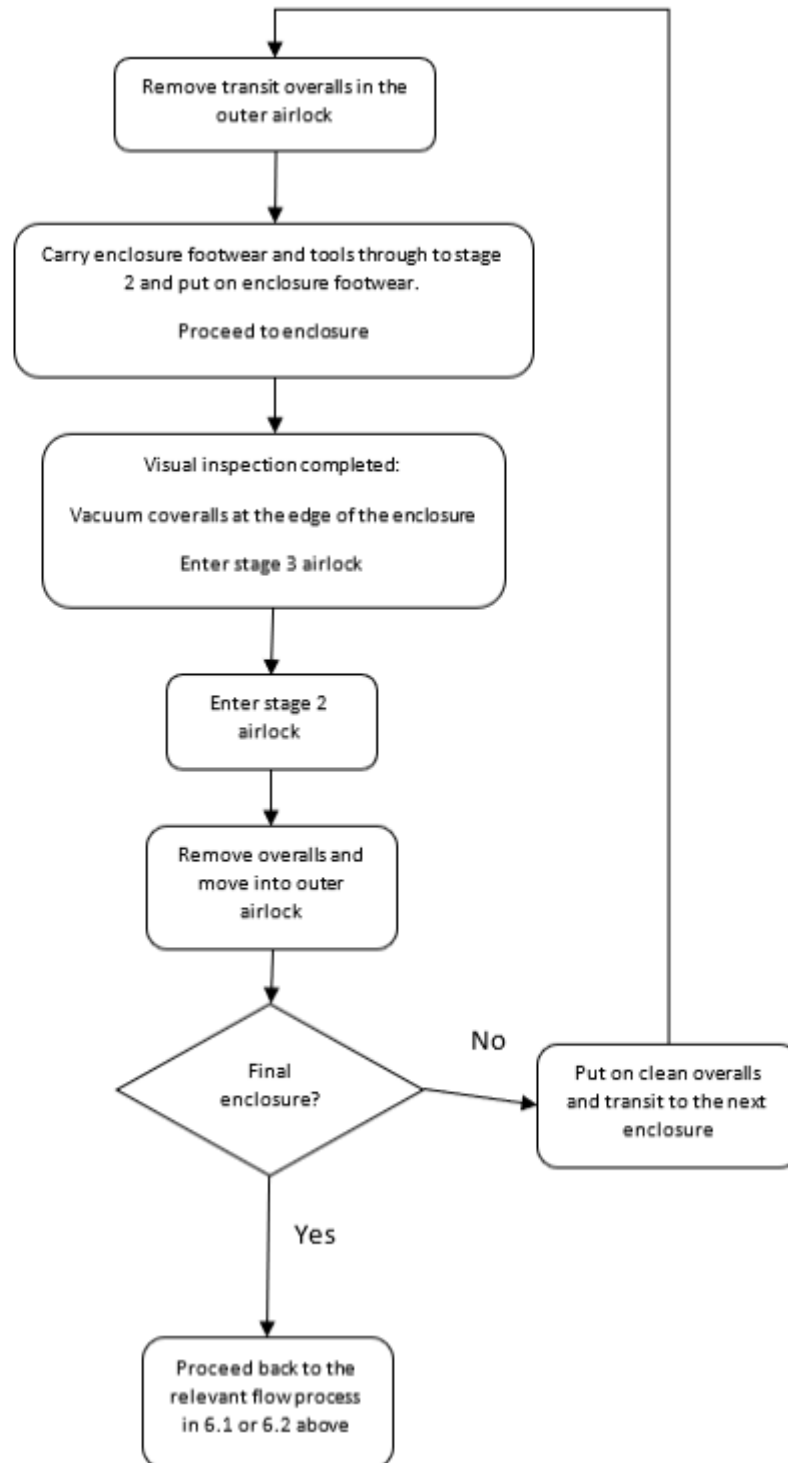
6.1 Transit and Decontamination when a DCU and the enclosure aren't connected

Transit and decontamination when a DCU and the enclosure aren't connected





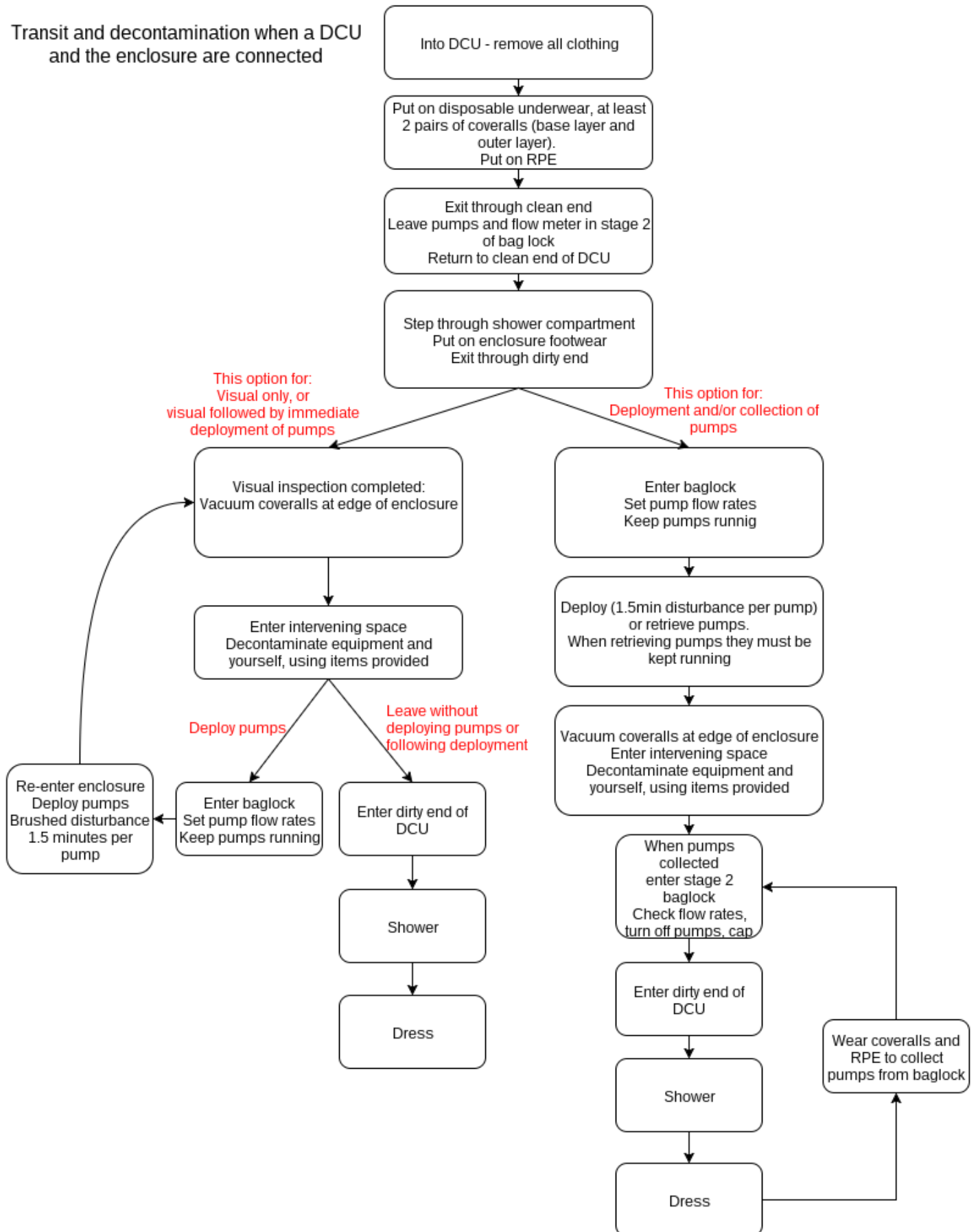
6.1.1 Transit between multiple enclosures – Refer back to 6.1 for specifics outside of this process





6.2 Transit and Decontamination when a DCU and the enclosure are connected

Transit and decontamination when a DCU and the enclosure are connected

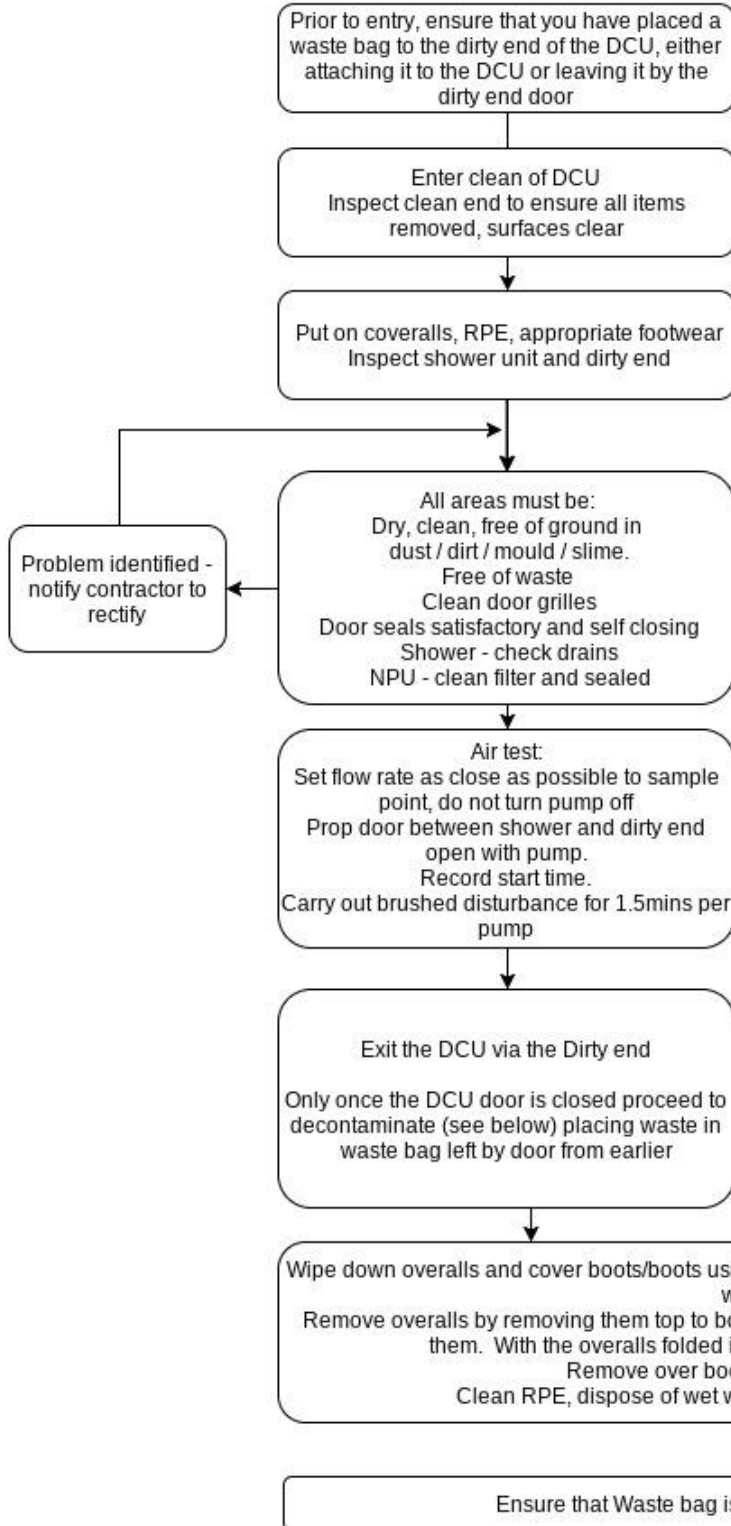




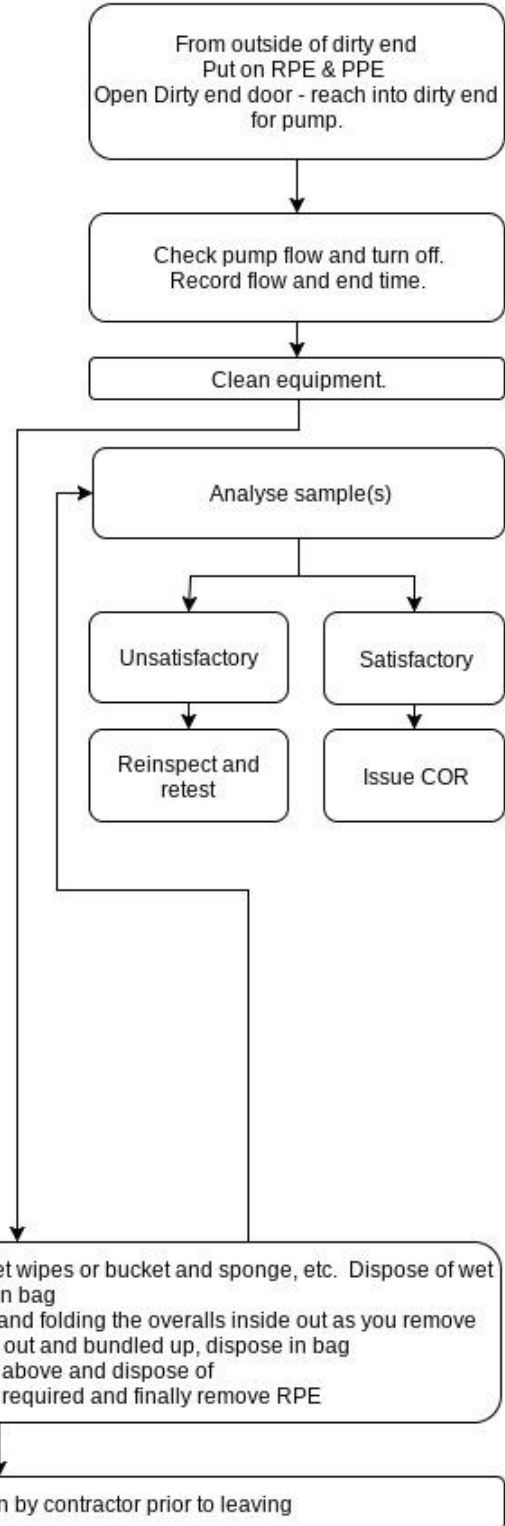
6.3 Decontamination Unit Clearance process

Inspection and clearance testing of Decontamination unit

Inspect and sample



Sample retrieval and analysis

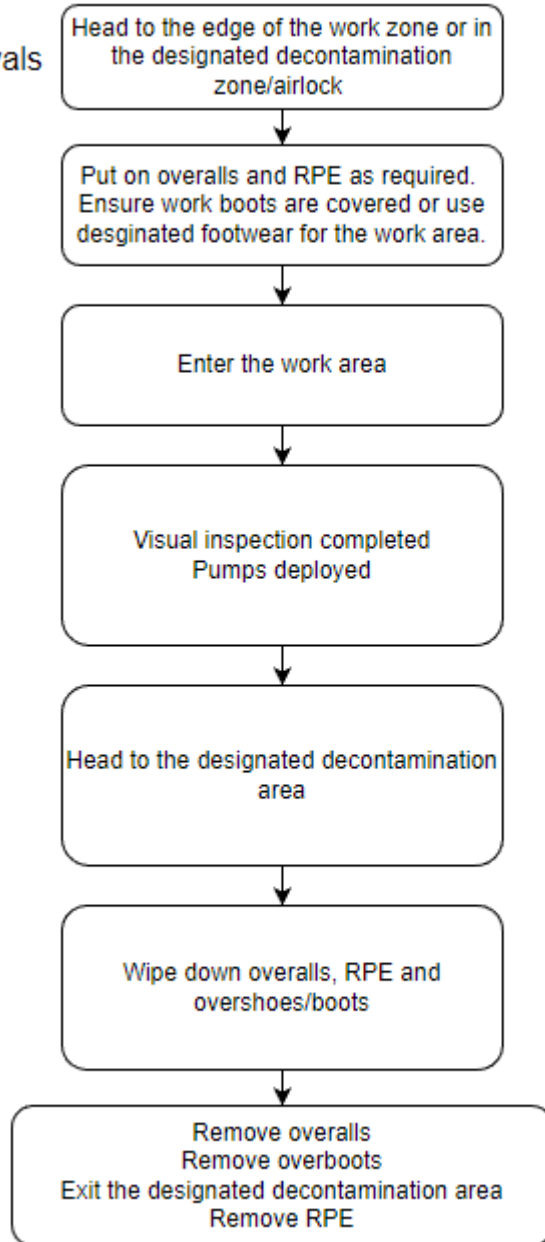


Inspection and clearance of DCU 20170710



6.4 Non-Licensed Transit and Decontamination Process

Decontamination for non-licensed removals where there is no DCU on site





6.5 Pump flow check - via [My Profile](#)

Calibrate :: Flow Pump

TOP02.08 (5.3.1)

ID		
--		
Master Asset		Asset
search	id	SP86 - JD Technical Standard static 16ltr air pump - High Flow Pump 1062
Date		
YYYY-MM-DD		
Calibration category		
Flow Pump		
Flow rate reading		
Start flow rate	Mid flow rate	End flow rate
Total flow time		

End of document



LucionServices

Protecting people and planet

TOP02.02.09.03 SEM Procedure for identification and quantification of asbestos fibres on filter paper

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Approver
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Revision date
08 June 2022



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Unless stated explicitly in relation to a particular aspect, this policy applies to all activities delivered by the Lucion Group Limited companies, inclusive of:

- **Lucion Services Limited (including Lucion Environmental, Lucion Infrastructure and Lucion Marine)**
- **Lucion Consulting Ltd**
- **Delta-Simons Ltd**

The Lucion Group companies operate an integrated management system for all policies and procedures in line with our certifications and accreditations, offering a streamlined service to our clients.

1.0 Purpose

- 1.1 This procedure sets out the steps needed to quantify and identify asbestos fibres collected onto filter paper using Scanning Electron Microscopy



2.0 Scope

- 2.1 It applies to all personnel performing the test to identify the type of asbestos fibres present and the quantity of asbestos fibres as f/mm² or f/ml using the Scanning Electron Microscope.

3.0 References

- 3.1 Tescan Vega 3 manual
- 3.2 HSG 248: The Analysts Guide
- 3.3 Oxford Instruments Aztec Instruction Manual
- 3.4 Control of Asbestos Regulations 2012
- 3.5 TOP02.08 Procedure for asbestos air sampling
- 3.6 ISO14966:2019 Determination of numerical concentration of inorganic fibrous particles — scanning electron microscopy method
- 3.7 VDI3492 Measurement of inorganic fibrous particles Scanning electron microscopy method
- 3.8 LAB 30 edition 3
- 3.9 TOP02.09.01 and TOP02.09.02
- 3.10 MDHS 87 Methods for the Determination of Hazardous Substances
- 3.11 TOP01.03.01

4.0 Definitions and Abbreviations

- 4.1 SEM Scanning Electron Microscope
- 4.2 EDS Energy dispersive Xray spectroscopy
- 4.3 SEM PT - SEM proficiency testing scheme

5.0 Specific Procedures

5.1 Introduction

- 5.1.1 This procedure will be carried out only in the SEM laboratory and prep room. Personnel must be trained to carry out this operation and a track of this must be made in their training record.
- 5.1.2 Sample Traceability: samples arrive at the laboratory and are booked into the NexGen system.
- 5.1.3 Samples collected on filter papers will be in accordance with TOP 02.08. However, the volume of the air sampled should be in the region of 1440 litres to ensure the detection limit of 0.0005 fibres per cm³ is achieved. The preferred media for collection of airborne fibres for analysis by SEM are pre-loaded gold coated 0.8 µm pore diameter and 25 mm diameter filters. Alternatively 25 mm 0.8 µm cellulose nitrate filters can be used. However if the sample is taken using an untreated cellulose nitrate filter, using an non-disposable sampling head, care must be taken so that any fibres on the filter paper are not lost during transportation. The filter paper should be placed inside a petri dish and attached with tape to a very small portion of the unused outer edge of the filter paper. This will prevent the exposed surface of the filter having direct contact with any other surface and losing fibres during transportation. The petri dish should then be taped externally for transport.
- 5.1.4 Sample Preparation: samples will be prepared for SEM analysis dependent upon the sample collection



method in accordance with TOP02.09.01. The status and condition of the sample should be noted in the NexGen notes prior to sample prep

- sample arrives in disposable sample head on pre prepared gold coated polycarbonate filter
- sample arrives on untreated cellulose nitrate filter.

5.1.5 Sample preparation is described below.

5.1.6 Scanning: samples will be scanned in the Tescan Vega 3 Microscope following the protocol for analysis and counting outlined below

5.1.7 Reporting: results will be recorded in the SEM fibre Counting form and uploaded onto the NexGen system

5.1.8 Retention of samples: sample will be retained for a period of 6 months from analysis

5.2 Selection, Training and Authorisation of Personnel

5.2.1 Staff will be trained according to SOP 01.03 before being authorised to analyse samples using SEM.

5.2.2 During training, staff may observe and carry out tasks under the supervision of an authorised SEM analyst

5.2.3 Staff authorised to analyse membrane filters for the presence of asbestos fibres will hold the BOHS P403 certificate and will have attended training relating to the use of the SEM and EDS provided either by the manufacturer of the equipment or inhouse authorised analysts.

5.2.4 Prior to authorisation, staff will have completed all necessary training , completed 5 SEM QC samples and successful witnessed audit as outlined in SOP01.03

5.3 Sample Preparation

5.3.1 A proportion of filters as described below are checked to ensure that they have a uniform pore distribution and the background level of fibres is sufficiently low so as not to influence the results:

- Pre-loaded gold coated filter in disposable sampling head: 1 filter per batch of 50 heads
- Loose gold coated filters: 1 sample per batch of 100 filters
- Cellulose nitrate filters: 1 per batch of 100 as described in TOP02.09 (only contamination check)

5.3.2 Plasma Ashing: The SEM procedure requires that all organics are removed in order to facilitate counting using the WHO rules. Pre-loaded gold coated filters are surface etched in O₂ at approximately 20W for 5 minutes, cellulose nitrate filters filters are surface etched in O₂ at approximately 20W for 20 minutes, this removes the organic material leaving the asbestos fibres and inorganics exposed for SEM examination. Refer to TOP02.09.01

5.4 Fibre counting and analysis by EDXA

5.4.1 Operation of the SEM shall be carried out in accordance with the Vega 3 instruction manual and operation of the EDS in accordance with course instruction.



5.4.2 The operating conditions for the analysis are described below. The instrument setup/calibration checks are to be conducted each day before analysis is commenced as described in the ISO 14966 method Annex B. A reference sample will be used to enable checks to be carried out. Once all checks satisfactory a two images of fibres and accompanying spectra will be retained on the drive [SEM calibration checks folder](#).

5.4.2.1 The operating conditions for the SEM micrograph acquisition should be:

- electron beam (HV) - 15kV
- beam intensity - 12
- scanning mode - resolution
- scanning speed - in the region of 4-5
- detector - SE
- magnification - 2070:1
- view field - 100 μm
- working distance (WD) - in the region of 15 mm

5.4.2.2 The operating conditions for the EDS assessment should be:

- electron beam (HV) - 15kV
- beam intensity - 12
- scanning mode - resolution
- scanning speed - 4
- detector - SE
- magnification - in the region of 10000:1
- working distance (WD) - in the region of 15 mm
- process time 5 - to ensure analysis within 100 seconds with a total count at 60 000 on a reference sample (0.2 μm wide chrysotile fibre as per ISO 14966 Annex B)

5.4.3 The exposed filter surface is assessed to ensure even distribution of particles across the filter. Where distribution is inhomogeneous the filter shall not be used for quantitative analysis.

5.4.4 120 points (area of each point is 0.01mm²) are marked at random using the Image Snapper programme and 120 micrographs produced. This gives an analysed area of 1.2mm². Micrographs are stored into a file with the unique job number.

5.4.5 Micrographs are carefully analysed to find countable fibres (>5 μm length, <3 μm width, with a length to width ratio of at least 3:1). By clicking onto the micrograph the SEM will return to the area scanned and a “live” image of the micrograph will appear. Using this “live” image and increasing the magnification to about 10000x the fibre dimensions are measured and recorded. The analysis is possible on the principle that the sample is not removed from the chamber. Micrographs containing the measurement bars are saved to the job file. Using the Oxford Instruments Aztec system and Energy Dispersive Spectroscopy (EDS/EDX) the fibre is identified against a spectrum analysis of a known standard asbestos type (definitive spectral analysis of the IOM supplied samples of the six regulated asbestos types is used as the reference and shown in 6.3).

5.4.6 During analysis fibres are counted in accordance with the WHO fibre counting rules and as shown schematically in 6.1.

Additionally, the following shall apply:



- Fibres with both ends in the micrograph are counted
- Fibres with only one end in the image field are counted and given the weighting 0.5
- Fibres with both ends outside of the image field are not counted
- If more than one eighth of the area of an image field is obscured or overloaded with particles/fibres, that field shall be rejected
- If more than 10% of the image fields are rejected, the entire sample shall be rejected.

5.4.7 Geometric and morphological criteria:

- As per HSG248 guidance asbestos is recognised by the fineness of its fibres which often are present in closely packed bundles of fibrils that divide along their length. The amphibole minerals which form asbestos also occur in non-fibrous forms, however, the asbestos regulations only apply to the asbestos forms of the minerals.
 - a range of aspect ratios ranging from 20:1 to 100:1 or higher for fibres longer than 5 µm;
 - capability of splitting into very thin fibrils;
 - two or more of the following:
 - ❖ parallel fibres occurring in bundles;
 - ❖ fibre bundles displaying frayed ends;
 - ❖ fibres in the form of thin needles;
 - ❖ matted masses of individual fibres; and/or
 - ❖ fibres showing curvature
- Count fibres meeting the definition of a countable fibre
- A split fibre shall be included if it meets the definition of a countable fibre
- If individual fibres can be distinguished in a bundle, they shall be counted individually
- If individual fibres cannot be distinguished in a bundle, the bundle shall be counted as a single fibre if the bundle complies with the definition of a countable fibre. Unresolved fibre bundles shall be recorded in the fibre count form
- Where contacting fibres conceal the end of another fibre, only the visible part of the fibre is included in the measurement.

5.4.8 Fibre classification is based on the EDS spectra with the classification rules as per MDHS 87

Fibres are classified on the basis of the comparison of their EDX spectrum with spectra collected from reference standards analysed using the same SEM operating conditions. The same types of strategies can be applied as for discrimination by light microscopy. SEM-EDS is limited in its ability to discriminate by the quality of the EDS spectrum generated. The morphology of the fibres is also important and must be considered at all times in combination with the EDS spectrum.

A fibre is counted as asbestos if:

- the EDS spectrum is effectively the same as that of a reference asbestos type;
- the EDS spectrum has the same elements as a reference asbestos type but the elemental X-ray proportions differ by up to ±30%;



- the EDS spectrum contains elements typical of a reference type but also contains elements from a known contaminant dust;
- the fibre diameter is too small to produce an EDS spectrum (0.20 µm or less).

A fibre is counted as a non-asbestos fibre if:

- the fibre is >0.2 µm diameter and contains no major metal elements or silicon;
- the EDS spectrum contains some or all of the elements found in one of the reference types but the proportions are very different, eg high Ca, very low Si, very low Mg;
- the EDS spectrum contains high proportions of elements that are not found in any of the reference asbestos types and there are no signs of obvious contamination of the fibre, eg very high Fe, very low Si

5.4.9 Fibres are classified as follows:

- asbestos
 - chrysotile (C) - as per MDHS 87 - chrysotile is usually found as fine fibres (curly or straight) with diameters <1µm. The fibres often display splitting at the ends and often occur in bundles. When examined at high magnification their fibrillar nature may be seen. The EDXA spectrum shows peaks for magnesium and silicon in the approximate height ratio 3:4/Mg:Si; also a very small iron peak may be seen.
 - amphibole asbestos (A) - as per MDHS 87 - normally amosite or crocidolite, occasionally anthophyllite, actinolite and tremolite. Generally the amphibole asbestos minerals are parallel sided, needle-like or lath-shaped, fibres with aspect ratios >10:1 (sometimes up to 100:1). Fibres with widths >1µm usually show splitting at the ends, occur in bundles and show gentle curving (without sharp angular bends). Usually in airborne dust samples fibres are <1µm in diameter and appear straight with parallel sides.
- calcium sulphate (gypsum) (CS)
- other inorganic fibres (including MMMF) (I)

5.4.10 Each measured and classified fibre is recorded in the Fibre counting table (6.5)

5.4.11 Density of fibres on the filter paper in fmm² is calculated using the following equation:

$$d = f/FA$$

where:

d = the fibre density (in fibres per mm²)

f = the number of fibres counted

F = the number of fields evaluated

A = the area of a single field (mm²)



5.4.12 Where a known volume of air has been drawn through the filter paper the following shall be applied in order to calculate the airborne concentration of fibres in fcm^{-3} .

$$C_i = \frac{n_i}{V_p}$$

$$V_p = \frac{V \cdot N \cdot F_b}{\Pi \cdot (d_{eff}/2)^2}$$

where:

C_i = numerical fibre concentration of fibre class i

n_i = number of fibres of class i

V_p = evaluated volume of air sampled

N = number of image fields examined (120 - fields rejected)

F_b = area of an image field (0.01mm^2)

V = sampled air volume (l)

d_{eff} = effective filter diameter (22.5mm^2 for pre loaded sample heads)

5.4.13 Detection limit (E) can be calculated based on the 95% probability as described in VDI3492 using the following equation:

$$E = \frac{3}{V_p}$$

where:

E = detection limit

V_p = evaluated volume of air sampled

5.4.14 All calculations and results are reported in the SEM Asbestos Fibre Counting Test Certificate (6.7) and stored as a pdf in the applicable NexGen job.

5.4.15 Micrographs of all assessed fields are stored locally on the SEM machine. The folder can be also copied to the applicable job in NexGen if requested.

5.4.16 Termination of counting - counting can be terminated if one of the below conditions is fulfilled:

- area of 1.2 mm has been assessed, i.e. 120 micrographs
- The 50th inorganic fibre (other than calcium sulphate fibres, including asbestos fibres) occurs. If, after examination of 50 image fields, 50 fibres have not been detected, further fields shall be examined until either a total of 50 inorganic fibres has been counted or sufficient area has been examined to achieve the desired analytical sensitivity.



- over 10% of the micrographs have been rejected - filter is reported as unsuitable for counting. Continue the examination until completion of the field in which the 50th inorganic fibre (other than calcium sulphate fibres, including asbestos fibres) occurs. If, after examination of 50 image fields, 50 fibres have not been detected, further fields shall be examined until either a total of 50 inorganic fibres has been counted or sufficient area has been examined to achieve the desired analytical sensitivity. For most applications, it is recommended that at least 1 mm² of the filter area be examined. Fibre counting can be terminated early with respect to a fibre type as a function of a limit or guide value K_R (fibres per m³). If more than N_A fibres of this type have been found fibre counting can be terminated. N_A is calculated as follows:

$$N_A = \frac{3 \cdot K_R \cdot V'_S}{F_A}$$

where

N_A is the fibre number of a specific type;

K_R is the benchmark or limit to be tested, in m⁻³;

V'_S is dependent from V_S the sampled volume of air per filter area:

$$V'_S = 1 \text{ m}^3/\text{cm}^2 \text{ for } V_S \leq 1 \text{ m}^3/\text{cm}^2;$$

$$V'_S = V_S \text{ for } V_S > 1 \text{ m}^3/\text{cm}^2;$$

F_A is a constant (= 100 cm⁻²).

5.4.18 As per ISO 17025 and SOP01.11 when it is necessary to issue a complete new test report due to additional samples taken, the new report will be uniquely identified and shall contain a reference to the original that it replaces.

5.5 Measurement uncertainty and limit of detection

5.5.1 ISO14966:2019 section 8.2 describes and calculates measurement uncertainty associated with this method of determining the concentration of inorganic fibre particles by SEM. We have calculated uncertainty associated with the measurement of a fibre dimension at <3%. Validation of the Lucion method has been carried out by comparison of analytical results with those of UKAS Accredited Testing Body 0374 which also applies the ISO14966:2019 methodology. This validation has demonstrated that our method and the results achieved are comparable (<1 ESD) to testing Body 0374, therefore, we can use the proceeding data as an equivalent measurement of uncertainty.



5.5.2 It considers:

- systematic errors
 - sampling
 - SEM specimen preparation
 - analysis
- random errors
 - particularly important for low fibre counts

5.5.3 Sampling errors - a relative standard deviation was determined to be:

$$2\sigma_p < 15\%$$

5.5.4 SEM examination errors - a relative standard deviation was determined to be:

$$2\sigma_A \leq 35\%$$

5.5.5 Subjective error of the operator - a relative standard deviation was determined to be:

$$2\sigma_{SF} = 15\%$$

5.5.6 Total error of the measurement was calculated:

$$\sigma_T = \sqrt{\sigma_p^2 + \sigma_A^2 + \sigma_S^2}$$

where

- σ_T is the standard deviation for the overall measurement
- σ_S is the standard deviation for sampling errors
- σ_A is the standard deviation for analysis errors
- σ_p is the standard deviation for Poisson variability

5.5.7 The standard deviation for the combination of sampling and analysis is calculated from σ_p and σ_A to give:

$$2\sigma_V \leq 38\%$$

5.5.8 Random errors - assuming numerical fibre concentrations are low, the probability of detecting fibres can be described using the Poisson distribution - Table 2, ISO14966 and reproduced in this document as Table 6.9.

5.5.9 Limit of detection is defined as the numerical concentration below which, with 95% confidence, the actual fibre concentration lies when no fibres are detected during the SEM examination.

5.5.10 Detection limit, E, is calculated in accordance with ISO14966:

$$E = \frac{2.99}{N.V_B}$$

For each sample analysed the above is applied and the Certificate of Analysis states:

‘Detection limit is reported as the numerical fibre concentration below which, with 95% probability, the actual concentration lies when no fibres are detected. Detection limit depends on sampled volume of air and the examined filter area. Detection limit is determined in accordance with ISO14966.’

5.5.11 The Uncertainty of Measurement for BIA 7487 method used for analysis of asbestos in Gypsum has reported the following:



Measurement uncertainty and detection limit are essentially determined by the condition of the sample material (particle size, homogeneity), the care in suspension and filter specimen preparation, the density and uniformity of filter stacking and the care in asbestos fibre identification and measurement as well as by Poisson statistics. In this regard we provide below benchmarks that can be attained for the suspended sample under usual working conditions and when analyzing 0.5 mm² of filter area.

At a mass content of 0.1% of asbestos fibres in the suspended sample, the measurement uncertainty is about 0.07% to 0.16%, at 0.05% about 0.03% to 0.09% and at 0.01% about 0.003% to 0.03%.

The detection limit for 0.5 mm² of evaluation area and under simplistic assumptions is estimated to be 0.008%. This means: if no asbestos fibre is found on the 0.5 mm² filter area, the mass content of asbestos fibres in the suspended sample ought to be under 0.008%.

5.6 Sample retention

5.6.1 Samples are retained in the dedicated archive system for a period of 6 months from analysis, unless specifically requested by the client.

5.7 SEMS , LACS PT and internal QC

5.7.1 A control of inter laboratory comparability is maintained by the laboratory participating in the HSL SEMS & LACS schemes . All authorised SEM fibre counters and trainees (where possible to gain experience) will count the number of samples specified by the scheme. Each analyst shall analyse a unique set of 120 images collected by the Image Snapper programme. Results will be passed directly to the Quality Manager for collation and compliance according to SEMS requirements.

5.7.2 Results Analysis/Corrective Measures. The quality manager will assess the results when received from SEMS / LACS and inform the counters accordingly.

5.7.3 A set of internal quality control samples (already mounted on stubs) that were either initially supplied for the SEMS, validated internally or internal air tests that have also be analysed by IOM, are kept by the Lab Manager who shall issue one of these each month to authorised and trainee SEM counters and ensure that monthly QC's include both amphiboles and serpentine with various fibre densities. Monthly QC stubs shall cover the range of analysis required and shall include air filters/ soil / gypsum. Each analyst shall analyse a unique set of 120 images collected by the Image Snapper programme. The results will be submitted to the Quality Manager for assessment/comparison with the results detailed on the system.

5.7.4 It is expected that total counts of these quality control samples fall within Bands A and B as described in the



RICE scheme and as applied in SEMS or within the Z score ± 2 as applied for LACS. Additionally, the identification of the fibres by EDX (amphibole, chrysotile and inorganic fibres) will be assessed to ensure that the calculated density of fibres observed also meets the banding criteria of the RICE scheme. The densities of each fibre type will be recorded in SEM QC Data Checker.

Where C counts are achieved, investigation will be necessary to determine the cause and the retraining will be given.

5.7.5 Each SEM analyst will be given quality control samples as detailed below:
monthly:

- 2 bulk QC library samples
- 1 soil QC library sample
- 1 soil QC library sample for quantification
- 4 internal fibre QC
- 1 SEM QC analysis (to include gypsum sample stubs)
- 1 SEM random cross-check of a colleague's sample

as the scheme dictates:

- AIMS
- AISS
- RICE
- SEMS
- LACS

5.7.6 One random routine sample per month will be re-assessed by a second analyst and the result compared with the original count. The sample is aimed to be representative of the work undertaken by the analyst. These counts shall be recorded in the SEM Cross Counting spreadsheet to determine whether the two counts are within the estimated standard deviation; if they are not, then an investigation shall be carried out by the Quality Manager

5.7.7 The SEM and EDS service is to be done annually and will contain the following documents saved in dedicated folder:

- Screen area calibration image,
- EDS line measurement calibration image,
- EDS calibration image.

Measurements are to be performed using Lucion owned certified silicon specimen (Spec No. B615)

5.8 Quantification of fine asbestos fibres in soil

5.8.1 The TOP01.03.01 will be followed to produce a cellulose nitrate filter to be analysed by SEM.

5.8.2 Cellulose nitrate filter will be prepared according to TOP02.09.01.

5.8.3 Standard analysis steps as described in 5.4.

5.8.4 Countable fibre criteria for the soil quantification are $>5\mu\text{m}$ length, $<5\mu\text{m}$ width, with a length to width ratio



of at least 3:1.

5.8.7 The exact dimensions of each fibre is recorded and the approximate volume is counted based on the equation

$$V=\pi r^2 * h$$

where:

r = radius of the fibre

h = length of the fibre

5.8.8 The mass of each the fibre identified as asbestos is estimated based on the standard density of the asbestos minerals as per table 6.6. Due to the method recognising asbestos as chrysotile and amphibole asbestos fibres the density for chrysotile fibres is counted at 2.5 g/ml, all amphibole asbestos fibres are counted at 3.1 g/ml.

Sum of the weight of all asbestos fibres is counted and the mass of the total asbestos weight per subsample is calculated.

5.8.9 The LOD is based on the weight of the soil aliquot, the accuracy of the scales used (calibrated balances to 4 decimal places), and micro-pipette and nozzles.

5.8.10 The result is reported in a soil quantification certificate and added to the mass asbestos as a density of free fibres in fine fraction of analysed soil.

5.9 Identification and Quantification of asbestos fibres in Gypsum

5.9.1 Sample Preparation: On receipt, the entire sample (if appropriate) will be crushed, sieved then depending upon sample size may be reduced in size by the cone and quarter method or if the sample is too large, 10 random scoops of approx 2.5g may be taken from the sample within the HEPA cabinet. The resulting sub-sample size should be approximately 20 - 25g

5.9.2 From this sub-sample, randomly select approximately 1 g of powder, if individual particles are visible then crush using pestle and mortar, applying minimum pressure to the pestle in order to obtain a homogeneous particle size. If the particle size remains non-uniform, the ground powder will be passed through a 100µm mesh sieve , any residue too large to pass through the sieve will then be further crushed until the entire sample has passed through the sieve)

5.9.3 Between 10mg and 50mg of the prepared sample is then randomly selected. This will be accurately weighed using the 4 decimal place balance and weight recorded. This will then be suspended into 500ml of demineralised filtered water.



- 5.9.4 The suspension is then thoroughly mixed for several minutes using the ultrasonic bath.
10ml-50ml are immediately pipetted off and filtered through a gold coated nuclear pore filter (polycarbonate Filter, 25mm diameter, 0.8µm pore size, gold layer approx. 40nm thick on the glossy front approx. 20nm thick on the back)
- 5.9.5 The filter will be prepared according to TOP02.09.01 followed by Standard analysis steps as described in 5.4.
- 5.9.6 Contract Review will determine the level of analysis required ie Identification only or Identification and quantification. If Quantification is requested Contract review shall also determine if the client requires the fibres to be counted against WHO countable fibre criteria >5µm length, <5µm width, with a length to width ratio of at least 3:1 or if all asbestos fibres are counted with no upper diameter limit. For Identification only see 5.4 of this procedure
- 5.9.8 The exact dimensions of each fibre is recorded and the approximate volume is counted based on the equation
- $$V = \pi r^2 * h$$
- where:
- r = radius of the fibre
- h = length of the fibre
- 5.9.9 The mass of each fibre identified as asbestos is estimated based on the standard density of the asbestos minerals as per table 6.6. Due to the method recognising asbestos as chrysotile and amphibole asbestos fibres the density for chrysotile fibres is counted at 2.5 g/ml, all amphibole asbestos fibres are counted at 3.1 g/ml.
- Sum of the weight of all asbestos fibres is counted and the mass of the total asbestos weight per subsample is calculated.
- 5.9.11 As per the Contract requirement following additional quantification of inorganic fibres can be undertaken.
- Due to the method limited to recognising respirable fibres in just four classes
- chrysotile fibres
 - amphibole asbestos fibres
 - calcium sulphate fibres
 - inorganic fibres.



The density for the mass of each fibre classed as inorganic shall be estimated based on the assumption of the majority of fibres present being man made mineral fibres and assessed at 2.55 g/ml

Sum of the weight of all inorganic fibres is counted and the mass of the total inorganic fibre weight per subsample is calculated.

Inorganic fibre quantification is not UKAS accredited and an appropriate entry shall be made in the report to note this.

5.9.11 The LOD is based on the weight of the powder aliquot, the accuracy of the scales used (calibrated balances to 4 decimal places), and micro-pipette and nozzles.

5.8.12 The result is reported in the format agreed at contract review



6.0 Tables

6.1 Schematic examples illustrating fibre counting rules (Figure 6, from ISO14966)

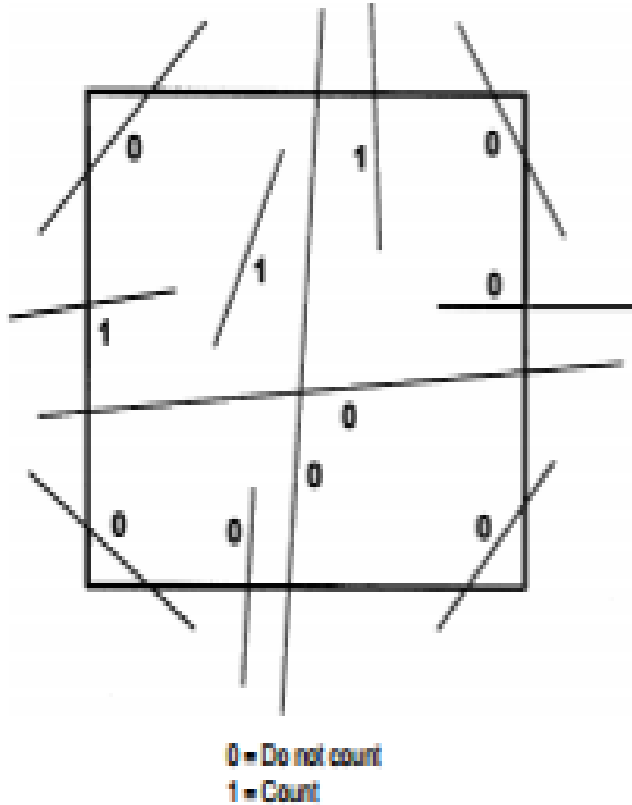
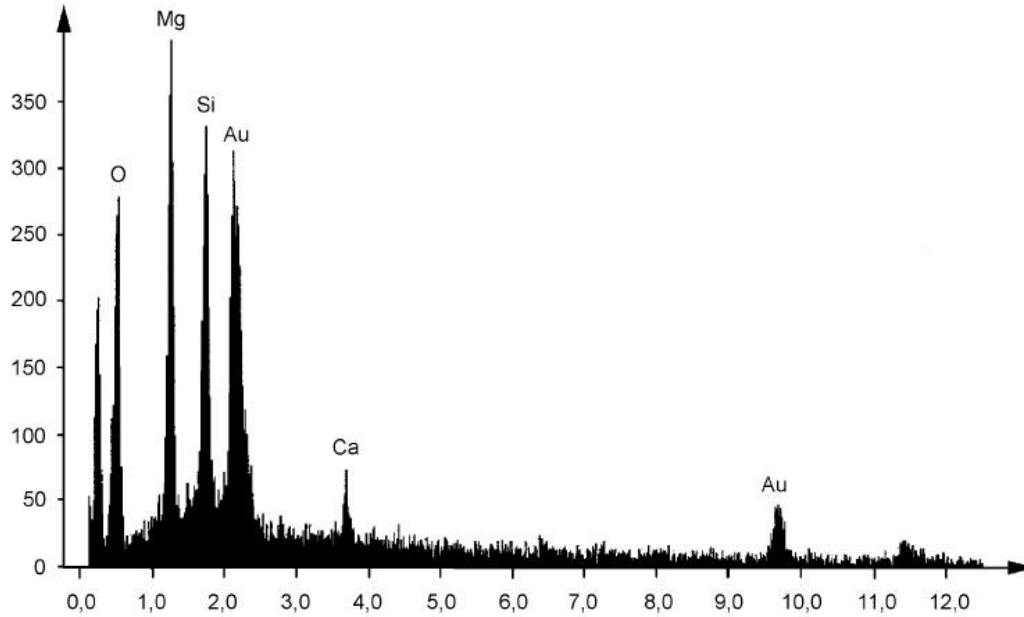


Figure 6 — Examples of fibres extending outside the image field



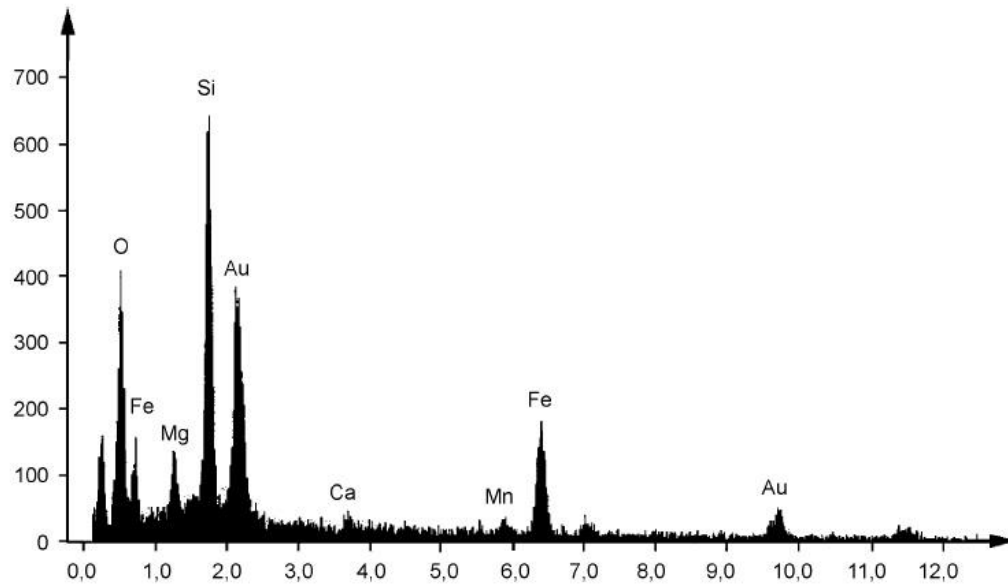
6.2 Spectra of the three common regulated asbestos types (from ISO14966)

6.1.1 Chrysotile



a) Fibre of chrysotile on a gold-coated filter with other particles

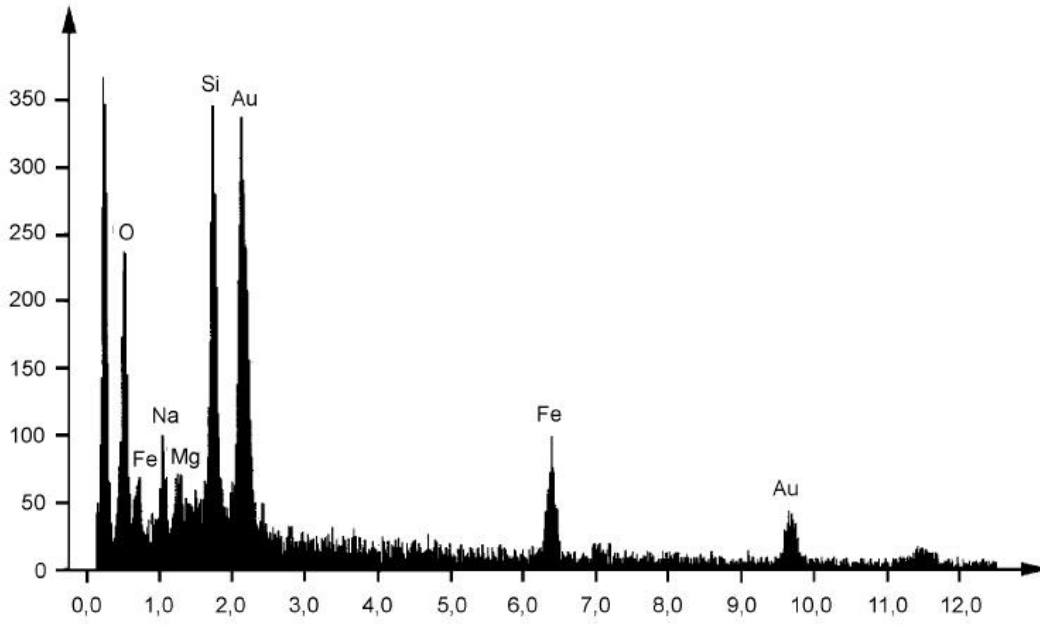
6.1.2 Amosite



b) Fibre of amosite on a gold-coated filter with other particles



6.1.3 Crocidolite

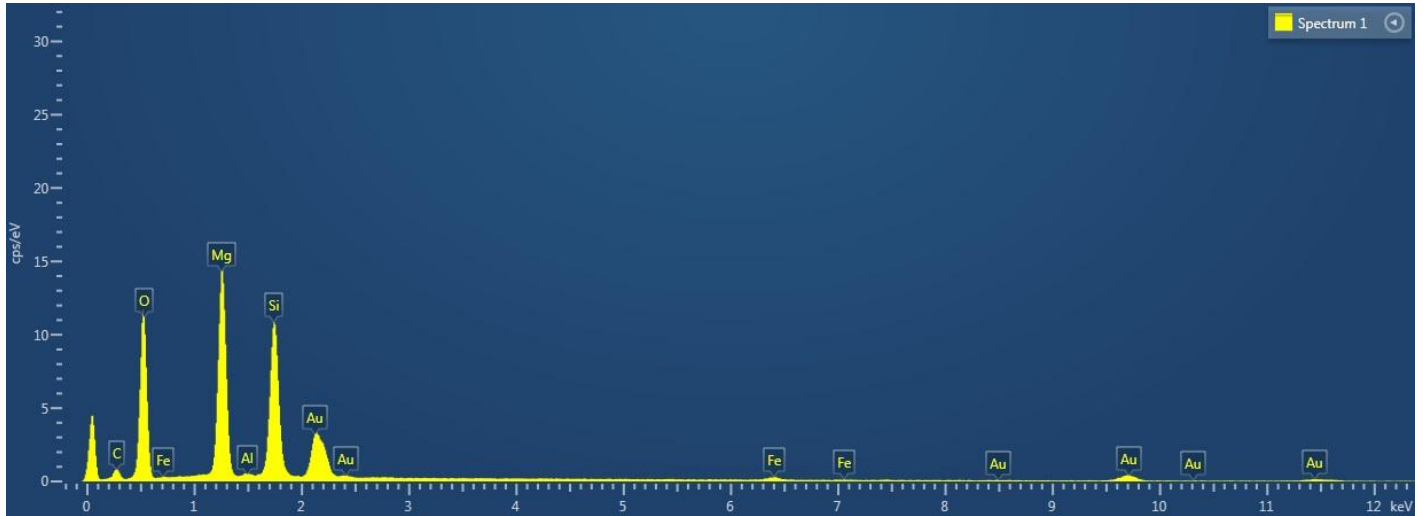


c) Fibre of crocidolite on a gold-coated filter with other particles

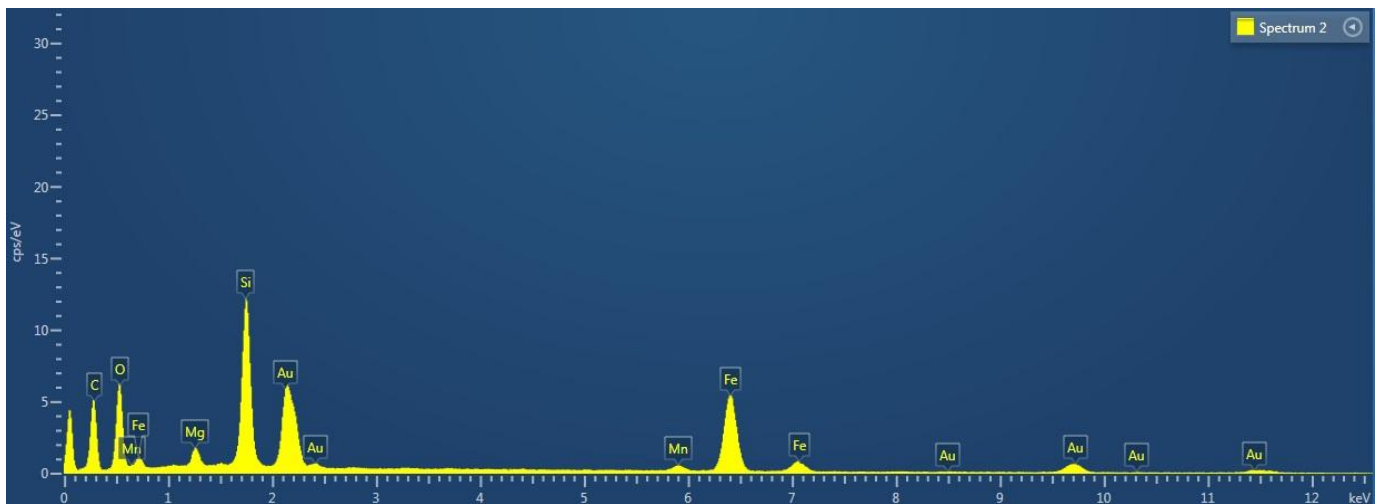


6.3 Inhouse asbestos standards spectra (from IOM reference samples).

Chrysotile:

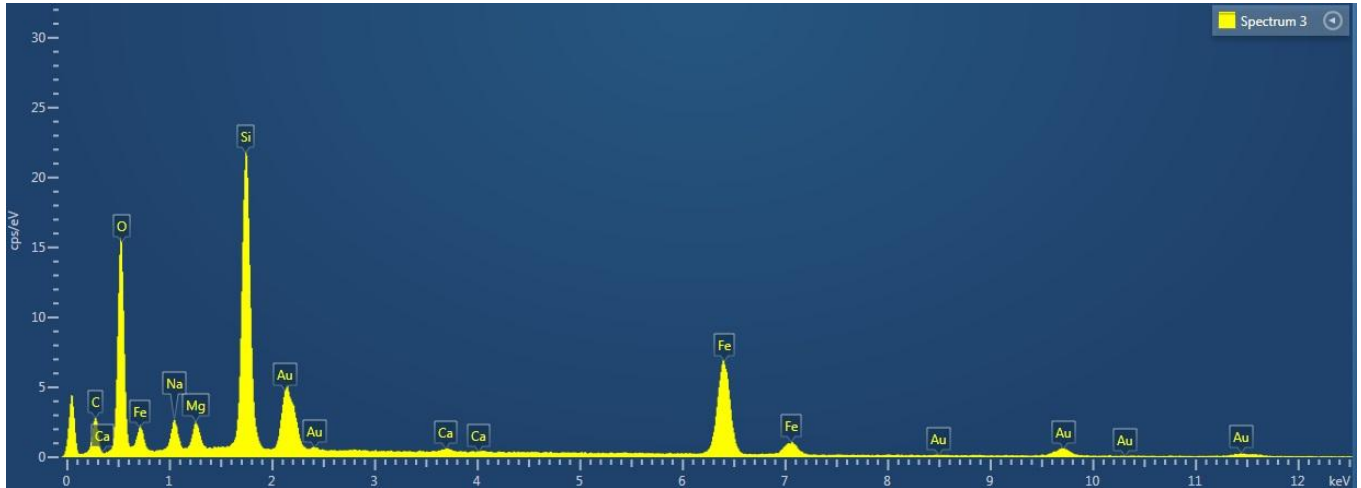


Amosite:

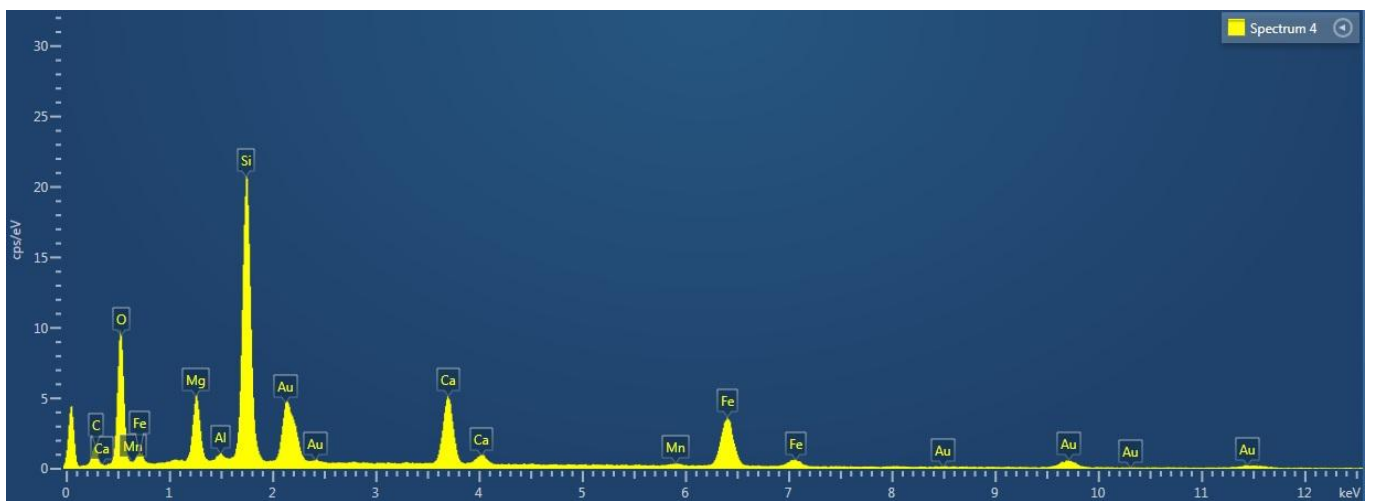




Crocidolite:

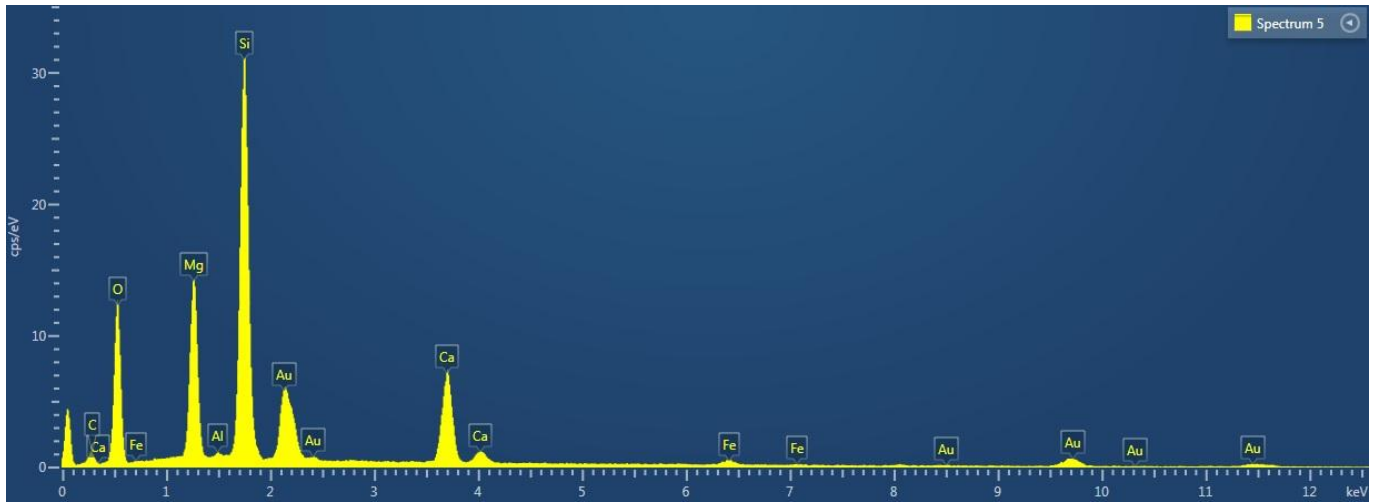


Actinolite:

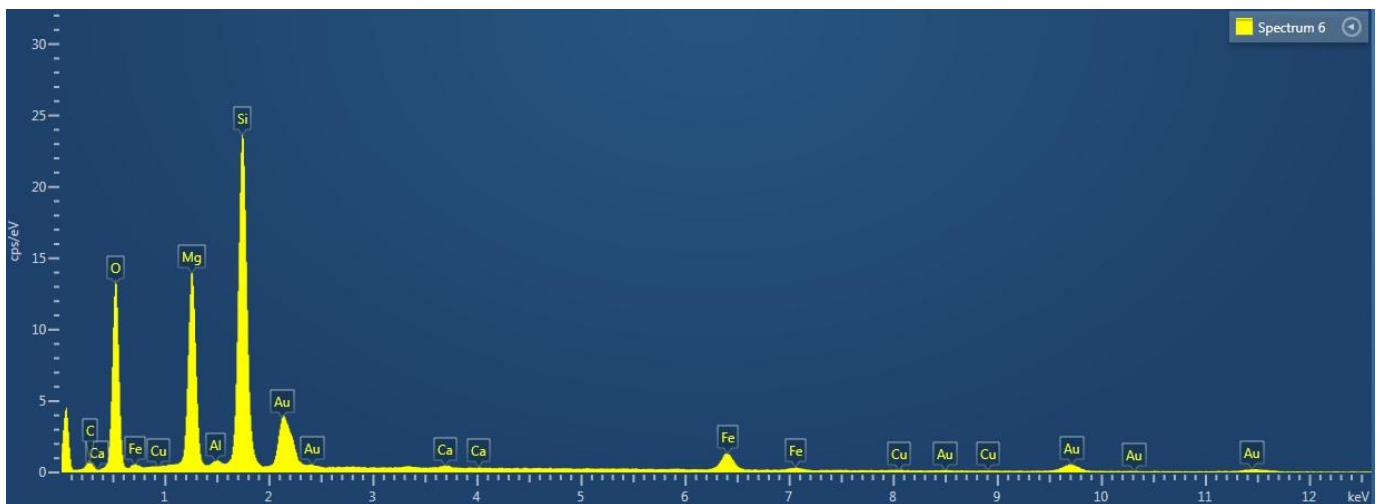




Tremolite:



Anthophyllite:





6.4 Specific characteristics of asbestos types (from Table D1, VDI 3492)

Group	Serpentine absestos	Amphibole asbestos				
Mineral	Chrysotile	Anthophyllite	Amosite	Tremolite ^{a)}	Actinolite ^{a)}	Crocidolite
Formula	Mg ₃ [(OH) ₄ Si ₂ O ₅]	(Mg, Fe) ₇ [OH/Si ₄ O ₁₁] ₂	(Fe, Mg) ₇ [OH/Si ₄ O ₁₁] ₂	Ca ₂ Mg ₅ [OH,F/Si ₄ O ₁₁] ₂	Ca ₂ (Mg,Fe) ₅ [OH,F/Si ₄ O ₁₁] ₂	Na ₂ Fe ²⁺ ₃ Fe ³⁺ ₂ [OH/Si ₄ O ₁₁] ₂
Transition temperature, in °C	450 to 700	600 to 850	600 to 800	950 to 1040	620 to 960	400 to 600
Melting temperature, in °C	1500	1450	1400	1315	1400	1200
Morphology of the fibres	fibrous twisted	fibrous, columnar or acicular		acicular, columnar		fibrous, columnar, felt-like
Acid resistance	low	very good	moderate	very good	moderate	good
Akaline resistance	very good	very good	good	good	good	good
Chemical composition, in %						
SiO ₂	36 to 44	53 to 60	49 to 53	55 to 60	51 to 56	49 to 56
MgO	38 to 42	17 to 34	1 to 7	20 to 26	12 to 20	0 to 3
FeO	0 to 3	3 to 20	34 to 44	0 to 5	5 to 15	13 to 21
Fe ₂ O ₃	0 to 5	0 to 5	0 to 5	0 to 5	0 to 5	13 to 20
Al ₂ O ₃	0 to 2	0 to 3	0 to 1	0 to 5	0 to 3	0 to 1
CaO	0 to 2	0 to 3	0 to 2	0 to 3	10 to 13	0 to 3
K ₂ O	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Na ₂ O	0 to 1	0 to 1	0 to 1	0 to 2	0 to 2	4 to 9
H ₂ O	12 to 14	1 to 6	2 to 5	1 to 3	1 to 3	2 to 5
Additional elements	Ni, Mn, Cr	Mn, Ti, Cr, Co, Ni	Mn, Ti, Cr	Mn	Ti, Mn, Cr, Ni	Mn

^{a)} common mixed crystal series

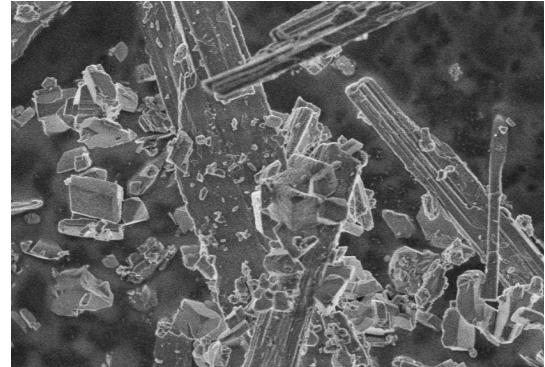


6.5 Examples of common non-asbestos fibres

Cotton:



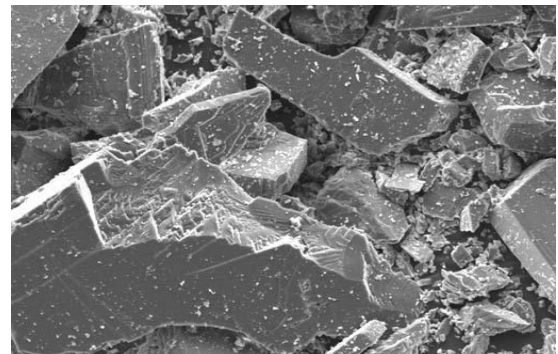
Wollastonite (I):



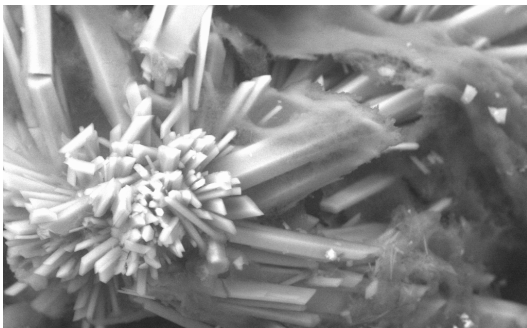
MMMF (I):



Calcium carbonate (I):



Gypsum needle (CS):



6.6 Asbestos density for quantification of fine asbestos fibres in soil as per Badollet, 1951

asbestos type	density measured g/cm³	density average g/cm³
chrysotile	2.4-2.6	2.50
amosite	3.1 - 3.25	3.18
crocidolite	3.2-3.3	3.25
actinolite	3.0 - 3.2	3.10
tremolite	2.9 - 3.2	3.05
anthophyllite	2.85 - 3.1	2.98



6.7 Fibre counting table and density calculation (fmm²)

Fibre Counting form for analysis (VDI 3492)											
Sample		Date:		Name:							
Calcium Sulphate: 1		0.00		Rejected Fibres: Ta		0					
Coordinates											
Field location (X)	Field location (Y)	Fibre Number	Image field number	Fibre length (µm)	Fibre width (µm)		Elemental Composition	Count of Fibre Type - C	Count of Fibre Type - A	Count of Fibre Type - I	Count of Fibre Type - CS
				D≥0.2µm	D<0.2µm						
		1									
		2									
		3									
		4									
		5									
		6									
		7									
		8									
		9									
		10									
		11									
		12									
		13									
		14									
		15									
		16									
		17									
		18									
		19									
		20									
Totals											
Chrysotile (C):	0		Chrysotile (density)	0.0		Number rejected					
Amphibole (A):	0		Amphibole (density)	0.0		0					
Other Inorganic fibres	0		Inorganic (density)	0.0		Number fibres without spectrum					
Calcium Sulphate	0		Calcium Sulphate	0.0							
Total number of	120		Asbestos containing structures not counted:								
Magnification (Kx)	2.07										
Screen area (mm2):	0.01		Remarks								
Total Area examined	1.2										
Fibre Concentration form (VDI 3492)											
Effective filter diameter (mm)			22.50								
Effective filter area (mm2)			397.61								
Volume of air collected (litres)			1440								
Evaluated volume of air sampled (litres)			4.346								
Totals from fibre counting											
Chrysotile (C):	0		Chrysotile (density)	0.0		Chrysotile (density)	0.000000000				
Amphibole (A):	0		Amphibole (density)	0.0		Amphibole (density)	0.000000000				
Other Inorganic fibres	0		Inorganic (density)	0.0		Inorganic (density)	0.000000000				
Calcium Sulphate	0		Calcium Sulphate	0.0		Calcium Sulphate	0.000000000				
Total number of	120										
Magnification (Kx)	2.07										
Screen area (mm2):	0.01		Remarks								
Total Area examined	1.2										
95% confidence	Sample air volume -	Number of image	Area of an image	effective diameter -	Confidence						
0.6879903834	1,440.00	120	0.01	22.50	0.00048						

6.8 SEM Asbestos Fibre Counting Test Certificate




Head Office
 7 Halifax Court, Dunston,
 Gateshead, NE11 9JT
 E: enquiries@lucionservices.com
 T: 0345 5040 303

Lucion Environmental Ltd
 Registered in England + Wales 6495874
 VAT Registration Number 208156326

SEM Asbestos Fibre Counting Test Certificate

This certificate is for the attention of

Contract Title
 Site Address
 Test material sampled by
 Sampling date
 Analyst(s)

Analyst signature(s)
 Analysis date
 Approved signatory **Nichola Byron**
 Approved signature 
 Approval date
 Report rendered on **8/6/2022**

Sample description

Analysis requested Fibre counting of airborne respirable fibres using Scanning Electron Microscopy and chemical identification of the analysed fibres using Energy Dispersive X-ray Spectroscopy

Analysis method The analysis was carried out using our in-house documented method based upon ISO14966 and VDI3492. Our method includes initial ashing of the filters (all organic fibres are also

Results and comments

- Amphibole fibres found
- Chrysotile fibres found

Job number &	Sampled air volume	Respirable fibres	No of fields searched	Total fibre	Asbestos fibre	Detection limit based	Reported
	1440	0	120	0.0000	0.0000	0.0005	<0.0005
	1440	0	120	0.0000	0.0000	0.0005	<0.0005
	1440	0	120	0.0000	0.0000	0.0005	<0.0005
	1440	0	120	0.0000	0.0000	0.0005	<0.0005
	1440	0	120	0.0000	0.0000	0.0005	<0.0005
	1440	0	120	0.0000	0.0000	0.0005	<0.0005
	1440	0	120	0.0000	0.0000	0.0005	<0.0005
	1440	0	120	0.0000	0.0000	0.0005	<0.0005
	1440	0	120	0.0000	0.0000	0.0005	<0.0005
	1440	0	120	0.0000	0.0000	0.0005	<0.0005

Detection limit is reported as the numerical fibre concentration below which, with 95% probability, the actual concentration lies when no fibres are detected. Detection limit

Lucion bear no responsibility for sample collection or sample description related information provided by the client.

Where Lucion Environmental Ltd has not undertaken the sampling; any prior sampling activity is beyond the company's responsibility. Where Lucion Environmental Ltd has sampled the test material, this has been done in accordance with TOP02.09 and TOP02.09.03. Any opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



6.9 Upper and lower limits of the Poissonian 95% confidence interval of a count (Table 2, ISO14966)

Fibre count	Lower λ_L	Upper λ_U	Fibre count	Lower λ_L	Upper λ_U	Fibre count	Lower λ_L	Upper λ_U
0	0	3,689 ^a	46	33,678	61,358	92	74,164	112,83
1	0,025	5,572	47	34,534	62,501	93	75,061	113,94
2	0,242	7,225	48	35,392	63,642	94	75,959	115,04
3	0,619	8,767	49	36,251	64,781	95	76,858	116,14
4	1,090	10,242	50	37,112	65,919	96	77,757	117,24
5	1,624	11,669	51	37,973	67,056	97	78,657	118,34
6	2,202	13,060	52	38,837	68,192	98	79,557	119,44
7	2,814	14,423	53	39,701	69,326	99	80,458	120,53
8	3,454	15,764	54	40,567	70,459	100	81,360	121,66
9	4,115	17,085	55	41,433	71,591	110	90,400	132,61
10	4,795	18,391	56	42,301	72,721	120	99,490	143,52
11	5,491	19,683	57	43,171	73,851	130	108,61	154,39
12	6,201	20,962	58	44,041	74,979	140	117,77	165,23
13	6,922	22,231	59	44,912	76,106	150	126,96	176,04
14	7,654	23,490	60	45,785	77,232	160	136,17	186,83
15	8,396	24,741	61	46,658	78,357	170	145,41	197,59
16	9,146	25,983	62	47,533	79,482	180	154,66	208,33
17	9,904	27,219	63	48,409	80,605	190	163,94	219,05
18	10,668	28,448	64	49,286	81,727	200	173,24	229,75
19	11,440	29,671	65	50,164	82,848	210	182,56	240,43
20	12,217	30,889	66	51,042	83,969	220	191,89	251,10
21	13,000	32,101	67	51,922	85,088	230	201,24	261,75
22	13,788	33,309	68	52,803	86,207	240	210,60	272,39
23	14,581	34,512	69	53,685	87,324	250	219,97	283,01
24	15,378	35,711	70	54,567	88,441	260	229,36	293,62
25	16,178	36,905	71	55,451	89,557	270	238,75	304,23
26	16,983	38,097	72	56,335	90,673	280	248,16	314,82
27	17,793	39,284	73	57,220	91,787	290	257,58	325,39
28	18,606	40,468	74	58,106	92,901	300	267,01	335,96
29	19,422	41,649	75	58,993	94,014	310	276,45	346,52
30	20,241	42,827	76	59,880	95,126	320	285,90	357,08
31	21,063	44,002	77	60,768	96,237	330	295,36	367,62
32	21,888	45,175	78	61,657	97,348	340	304,82	378,15
33	22,715	46,345	79	62,547	98,458	350	314,29	388,68
34	23,545	47,512	80	63,437	99,567	360	323,77	399,20
35	24,378	48,677	81	64,328	100,68	370	333,26	409,71
36	25,213	49,840	82	65,219	101,79	380	342,75	420,22
37	26,050	51,000	83	66,111	102,90	390	352,25	430,72
38	26,890	52,158	84	67,003	104,00	400	361,76	441,21
39	27,732	53,315	85	67,897	105,11	410	371,27	451,69
40	28,575	54,469	86	68,790	106,21	420	380,79	462,18
41	29,421	55,622	87	69,684	107,32	430	390,32	472,65
42	30,269	56,772	88	70,579	108,42	440	399,85	483,12
43	31,119	57,921	89	71,474	109,53	450	409,38	493,58
44	31,970	59,068	90	72,370	110,63	460	418,92	504,04
45	32,823	60,214	91	73,267	111,73	470	428,47	514,50

^a The one-sided upper 95 % confidence limit for zero structures is 2,99.



End of document

Appendix G - Lucion Staff Qualifications

This is to certify that

Adam Rollinson

has been awarded the

**RSPH Level 3 Award in Asbestos Air
Monitoring and Clearance Procedures**

601/8286/6

PASS

Date of Award
14 April 2023



Director of Qualifications

Faculty of
Occupational
Hygiene



Daniel Embleton

has been awarded the

Proficiency Certificate
in
P403 - Asbestos Fibre Counting (PCM) (including
Sampling Strategies)

A handwritten signature in black ink that reads 'LAM' followed by a flourish.



Leonard Morris
Chief Examiner

January 2019

Certificate No: 20190116-39311-11518

BOHS, 5/6 Melbaume Business Court, Millennium Way, Pride Park, Derby, DE24 8LZ, UK
BOHS Incorporated by Royal Charter No. RC000858 Registered Charity No. 1150455

Appendix J IOM laboratory testing certificates for supplementary Maw Green air monitoring

Certificate Number	J267581/IJ01
Page 1 of 5	



Reassurance Test Certificate

Site Address: Maw Green Maw Green Road Crewe CW1 5NG	Client: Provectus Group	Test Location: Soil Processing, Equipment & Landfill Areas
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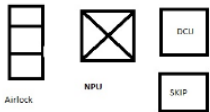
Test / Inspection details and comments

Internal Procedure: 4No SEM Air Tests

Description: 4No SEM Air Tests

Key

Works/Sample Location Diagram



VP = Vision Panel

Disclaimers: Comments, opinions and interpretations are outside the scope of UKAS accreditation

Analyst's Name: Steve Minto	Analyst Signature: 	Issue Date: 07 September 2023
--------------------------------	------------------------	----------------------------------



Hollow Farm, Hilton Road, Fenstanton, Cambridgeshire, PE28 9LJ
Company Number: 02647438 | Registered: England & Wales

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Certificate Number	J267581/IJ01
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Test Type
Reassurance (Android)

	Yes/No
Is test area dry?	Yes
Is an airflow present?	Yes
Are any obvious sources of fibre present (Non Asbestos)?	No
If leak testing has enclosure been inspected?	N/A
Is area clean and dust free	No

Comments
Carrying out 4No SEM testing as agreed with Provectus



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Certificate Number	J267581/IJ01
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Test Type
Reassurance (Android)

Analytical Details																			
Disturbance Method				NA				Duration (Mins)				N/A mins							
Microscope No		MS41		NPL Test Slide No		NPL11		Timer Barometer No				Stage Micrometer No		SM5					
Flowmeter No		FL29		Band 5 Seen		Yes		Area Size		0 m ³		Graticule Diameter		100					
Calibration Location				Temperature				N/A				Atmospheric Pressure				N/A			
Test Area				Temperature				N/A				Atmospheric Pressure				N/A			
No	Cowl No	Pump No	Start Flow (L/min)	Finish Flow (L/min)	Average Flow (L/min)	Time On	Time Off	Duration (Mins)	Volume (Litres)	Fibres	Fields	LOQ	Calculated Result f/ml	Reported Result f/ml	Location				
IJ000674	H128	JD30	15.5	15.5	15.5	09:08	13:08	240	3720	Dirty Slide					Equipment Area - Gantry Above Holding Tank				
IJ000675	H72	JD16	15.5	15.5	15.5	09:13	13:13	240	3720	Dirty Slide					Processing Area - Between Scrap Metal Skip & Picking Pod - 50 Metres From IJ-674				
IJ000676	H114	JD46	15.5	15.5	15.5	09:17	13:17	240	3720	Dirty Slide					Landfill Area - 50 Metres From IJ-675				
IJ000677	H174	JD12	15.5	15.5	15.5	09:19	13:19	240	3720	Dirty Slide					Landfill Area - 50 Metres From IJ-676				

Further Comments:

Carrying out 4No SEM testing as agreed with Provectus

0830 - Weather Condition:-

Temperature - 19.4

Wind - South Easterly / Gust 3 / Average 1

Humidity - 93



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Certificate Number	J267581/IJ01
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Rainfall 0.0 / Spitting Overnight

Reassurance Testing: This refers to testing in circumstances not covered by other forms of tests, an example being following removal of an enclosure upon completion of asbestos removal works. Generally results should be below 0.010 fibres per millilitre to be considered satisfactory. Thames Laboratories is the trading name of The Hazard Management and Environmental Services Laboratories Limited

Reported Result: The reported result will be the limit of quantification (LOQ) for the test when the calculated result is below the LOQ this will be reported within the table above in the reported result column all LOQ results will be pre fixed by a < symbol



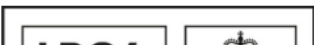
Hollow Farm, Hilton Road, Fenstanton, Cambridgeshire, PE28 9LJ
 Company Number: 02647438 | Registered: England & Wales
 The Hazard Management and Environmental Services Laboratories Limited trading as Thames Laboratories

Certificate Number	J267581/IJ01
Page 5 of 5	



Site Activity Log		
Job Number: J267581/IJ01	Site Address: Maw Green, Maw Green Road, Crewe, CW1 5NG	Client: Provectus Group

Date	Time	Activity	Staff Member
There were no diary entries.			



CERTIFICATE OF ANALYSIS

ANALYSIS REQUESTED BY: Thames Laboratories
Hollow Farm
9 Hilton Road
Fenstanton
PE28 9LJ

CONTRACT NO: S35800-3

DATE OF ISSUE: 18.09.23

DATE ANALYSIS REQUESTED: 12.09.23

DATE ANALYSIS COMPLETED: 15.09.23

SAMPLES: Four airborne dust samples each supplied on a gridded MCE membrane filter.

ANALYSIS REQUESTED: Fibre Counting using Scanning Electron Microscopy (SEM) with fibre identification by Energy Dispersive X-ray Spectroscopy (EDXS)

METHOD:

Each membrane filter is ashed in a low temperature plasma asher. The residue is recovered using filtered, distilled water and filtered through a 25mm, 0.4µm pore size polycarbonate filter. A portion of each polycarbonate filter is excised and mounted on a 13mm aluminium stub, coated with gold and examined by SEM. Each filter is searched systematically at 2000X magnification until an area of 1mm² has been examined or 50 whole fibres found. All respirable fibres (aspect ratio >3:1, length >5µm and diameter <3µm and including fibres in contact with particles >3µm diameter) detected are analysed by EDXS and identified as closely as possible, by comparing morphology and composition with standard reference materials. Fibre counting rules based on those of ISO14966:2019 were used.

The method used for analysis is documented in IOM instruction manual No.1 and is based on **International Standards Organisation (2019), International Standard 14966, Ambient Air: Determination of numerical concentration of inorganic fibrous particles - Scanning electron microscopy method.**

RESULTS:

Client Ref: Maw Green

Sample No.	Volume (l)	(¹) No. of Resp. Fibres Found	(¹) No. of Fields Searched	Total Fibres <i>Fibre Concⁿ (fml⁻¹)</i>	AMX Fibre <i>No. of Resp. Fibres/ Fibre Concⁿ (fml⁻¹)</i>	CMX Fibre <i>No. of Resp. Fibres/ Fibre Concⁿ (fml⁻¹)</i>	MMMF <i>No. of Resp. Fibres/ Fibre Concⁿ (fml⁻¹)</i>	NAM Fibre <i>No. of Resp. Fibres/ Fibre Concⁿ (fml⁻¹)</i>
J267581 IH674 (07/09/23)	3720	2.5	600	<0.00005*	0 / <0.00005*	0 / <0.00005*	2.5 / <0.00005*	0 / <0.00005*
J267581 IH675 (07/09/23)	3720	1	600	<0.00005*	0 / <0.00005*	0 / <0.00005*	0 / <0.00005*	1 / <0.00005*
J267581 IH676 (07/09/23)	3720	3	600	0.00005	0 / <0.00005*	0 / <0.00005*	3 / 0.00005	0 / <0.00005*
J267581 IH677 (07/09/23)	3720	2	600	<0.00005*	1 / <0.00005*	0 / <0.00005*	0 / <0.00005*	1 / <0.00005*

AMX-Amphibole Asbestos

CMX-Chrysotile Asbestos

MMMF-Machine Made Mineral Fibres

NAM-Non Asbestos Mineral

*** DETECTION LIMIT**

When no fibres of a given type are detected, the fibre concentration can be reported as less than the concentration equivalent to three fibres (the one sided upper 95% confidence limit of the Poisson distribution). Therefore, when 0, 1 or 2 fibres are detected, 2.99 is used in the calculation of fibre concentrations. It expresses the 95% confidence detection limit for airborne fibre concentrations. When a volume of 3720 litres is used the 95% confidence limit is 0.00005 fml⁻¹ for the number of fields searched.

CONTRACT NO: S35800-3
DATE OF ISSUE: 18.09.23

COMMENTS:

A single amphibole asbestos fibre was detected during the analysis of sample number J267581 IH677. No asbestos fibres were detected during the analysis of any of the other samples.

At the client's request, a greater number of screen areas than that used for our standard analysis were analysed in order to achieve the required limit of detection.

Any organic fibres present on the original samples would be destroyed during plasma ashing.

⁽¹⁾ UKAS accreditation for this work is limited to results obtained directly from the analysis. Calculated results based on sampling information provided by the client are out with the scope of this accreditation.

Any opinions and interpretations expressed herein are out with the scope of our UKAS accreditation.

IOM Consulting cannot accept responsibility for samples sent for analysis that have been incorrectly collected or despatched.



AUTHORISED BY:

S Clark
Head of Mineralogy

Appendix K Maw Green monitoring Hydrock daily diaries

DAILY DIARY

Project: Maw Green	Date: 04.09.2023
Client: FCC&P	Engineer: Becky Homer
Contract No.: 28480	

Weather Details:	
Time Taken	10:14
Wind Direction	SSE
Wind Speed (mph)	3
Gust Speed (mph)	6
Pressure (mb)	1022.3
Temperature (°C)	22.0
Humidity (%)	81
Dew Point (°C)	17.7
Other	No rain overnight Details taken from onsite Skyview monitoring station

Site Activities:
<ul style="list-style-type: none"> Six samples taken by Hydrock engineer; 2x samples from concrete slab, 2x samples from pre-screened stockpile and 2x samples from post-screened (fines) stockpile. Samples taken during active processing by Provectus between 10:30am and 14:00pm. Asbestos in air samples taken by Lucion engineer; one upwind, two downwind and one adjacent to processing area, 11 dust monitoring readings taken; at locations adjacent to air monitoring stations in both morning and afternoon and additional reading in site cabin. Water/dust suppression completed at 8:00am and after slab sampling completed.

DAILY DIARY



DAILY DIARY

Project: Maw Green	Date: 05.09.2023
Client: FCC&P	Engineer: Becky Homer
Contract No.: 28480	

Weather Details:	
Time Taken	08:38
Wind Direction	S
Wind Speed (mph)	1
Gust Speed (mph)	3
Pressure (mb)	1020.8
Temperature (°C)	17.4
Humidity (%)	-
Dew Point (°C)	17.0
Other	No rain overnight Details taken from onsite Skyview monitoring station
Time Taken	12:45
Wind Direction	-
Wind Speed (mph)	11
Gust Speed (mph)	18
Pressure (mb)	-
Temperature (°C)	25.4
Humidity (%)	46
Dew Point (°C)	26
Other	No rain overnight Details taken from onsite Skyview monitoring station and local forecasts

DAILY DIARY

Site Activities:

- Six samples taken by Hydrock engineer; 2x samples from concrete slab (09:20am) 2x samples from pre-screened stockpile and 2x samples from post-screened (fines) stockpile (09:30-10:00 and 11:00-11:45)
- Samples taken during active processing by Provectus between 08:45am and 13:00pm.
- Asbestos in air samples taken by Lucion engineer; one upwind, two downwind and one adjacent to processing area.
- 6 dust monitoring readings taken; at locations adjacent to air monitoring stations in both morning and afternoon and additional reading in site cabin.
- Water/dust suppression completed at 11:00am.



DAILY DIARY



DAILY DIARY

Project: Maw Green	Date: 06.09.2023
Client: FCC&P	Engineer: Becky Homer
Contract No.: 28480	

Weather Details:	
Time Taken	08:30
Wind Direction	SSE
Wind Speed (mph)	3
Gust Speed (mph)	3
Pressure (mb)	1020.8
Temperature (°C)	16.9
Humidity (%)	50
Dew Point (°C)	-
Other	No rain overnight Details taken from onsite Skyview monitoring station
Time Taken	12:30
Wind Direction	SSW
Wind Speed (mph)	4
Gust Speed (mph)	12
Pressure (mb)	1021
Temperature (°C)	23.8
Humidity (%)	73
Dew Point (°C)	-
Other	Details taken from onsite Skyview monitoring station

DAILY DIARY

Site Activities:

- Six samples taken by Hydrock engineer; 2x samples from concrete slab 2x samples from pre-screened stockpile and 2x samples from post-screened (fines) stockpile.
- Samples taken during active processing by Provectus between 08:30 and 13:00.
- Asbestos in air samples taken by Lucion engineer; one upwind, two downwind and one adjacent to processing area.
- 7 dust monitoring readings taken; at locations adjacent to air monitoring stations in both morning and afternoon and additional reading in site cabin.
- Water/dust suppression completed at 11:15am.



DAILY DIARY



DAILY DIARY

Project: Maw Green	Date: 07.09.2023
Client: FCC&P	Engineer: Becky Homer
Contract No.: 28480	

Weather Details:	
Time Taken	08:15
Wind Direction	SE
Wind Speed (mph)	1
Gust Speed (mph)	3
Pressure (mb)	1017.4
Temperature (°C)	19.6
Humidity (%)	93
Dew Point (°C)	-
Other	Light rain overnight however none recorded on Skyview. Details taken from onsite Skyview monitoring station

Site Activities:
<ul style="list-style-type: none"> Six samples taken by Hydrock engineer; 2x samples from concrete slab 2x samples from pre-screened stockpile and 2x samples from post-screened (fines) stockpile. Samples taken during active processing by Provectus between 08:30 and 13:00. Asbestos in air samples taken by Lucion engineer; one upwind, two downwind and one adjacent to processing area, 6 dust monitoring readings taken; at locations adjacent to air monitoring stations in both morning and afternoon and additional reading in site cabin. Water/dust suppression completed at approx. 11:30am.

DAILY DIARY



Appendix L Chemtest laboratory test certificates for supplementary soil testing at Maw Green

Reception soil acceptance test certificates for the batch of soil processed during the period of Hydrock monitoring



Final Report

Report No.: 23-23273-1

Initial Date of Issue: 13-Jul-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
Bath Road
Wolverhampton
WV1 4EG

Contact(s): Andy Clee
Andy Stockton
Charlie Gould
Jon Owens
Sam Gould

Project MG MAW GREEN

Quotation No.: Q20-21354 **Date Received:** 10-Jul-2023

Order No.: MG/233 **Date Instructed:** 10-Jul-2023

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 14-Jul-2023

Date Approved: 13-Jul-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: MG MAW GREEN

Client: Provectus Soils Management Ltd	Chemtest Job No.:				23-23273	23-23273	23-23273
Quotation No.: Q20-21354	Chemtest Sample ID.:				1671661	1671662	1671663
Order No.: MG/233	Client Sample Ref.:				Woodford	Woodford	Shotton Mill
	Client Sample ID.:				DW2236412/1	DW2236412/2	DW2236085/6
	Sample Location:				MG	MG	MG
	Sample Type:				SOIL	SOIL	SOIL
	Date Sampled:				06-Jul-2023	07-Jul-2023	07-Jul-2023
	Time Sampled:				12:00	8:30	11:15
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	Cement	Cement, Fibres/Clumps	Fibres/Clumps
Asbestos Identification	U	2192		N/A	Chrysotile	Chrysotile	Chrysotile
Asbestos by Gravimetry	U	2192	%	0.001	0.031	0.016	<0.001
Asbestos By Fibre Counting	U	2192	%	0.001	<0.001	<0.001	<0.001
Total Asbestos	U	2192	%	0.001	0.031	0.016	<0.001
Moisture	N	2030	%	0.020	17	18	7.7
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones and Roots	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Loam
pH	M	2010		4.0	8.0	8.0	9.4
Sulphate (2:1 Extract)	M	2120	mg/kg	20	660	720	420
Sulphur (Elemental)	M	2180	mg/kg	1.0	340	180	8.3
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	0.50
Arsenic	M	2455	mg/kg	0.5	7.2	5.4	8.7
Boron	N	2455	mg/kg	50.00	< 50	< 50	< 50
Cadmium	M	2455	mg/kg	0.10	7.4	5.6	0.30
Chromium	M	2455	mg/kg	0.5	34	25	35
Copper	M	2455	mg/kg	0.50	230	180	19
Mercury	M	2455	mg/kg	0.05	0.38	0.34	0.32
Nickel	M	2455	mg/kg	0.50	57	49	13
Lead	M	2455	mg/kg	0.50	120	74	82
Selenium	M	2455	mg/kg	0.25	1.7	< 0.25	< 0.25
Zinc	M	2455	mg/kg	0.50	290	290	290
Florisil Cleanup	N		-	N/A	Done	Done	Done
TPH >C6-C10	N	2670	mg/kg	1.0	1.6	9.6	< 1.0
TPH >C10-C21	N	2670	mg/kg	1.0	160	480	15
TPH >C21-C40	N	2670	mg/kg	1.0	< 1.0	< 1.0	52
Total TPH >C6-C40	M	2670	mg/kg	10	160	490	67
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	1.3	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: MG MAW GREEN

Client: Provectus Soils Management Ltd	Chemtest Job No.:				23-23273	23-23273	23-23273
Quotation No.: Q20-21354	Chemtest Sample ID.:				1671661	1671662	1671663
Order No.: MG/233	Client Sample Ref.:				Woodford	Woodford	Shotton Mill
	Client Sample ID.:				DW2236412/1	DW2236412/2	DW2236085/6
	Sample Location:				MG	MG	MG
	Sample Type:				SOIL	SOIL	SOIL
	Date Sampled:				06-Jul-2023	07-Jul-2023	07-Jul-2023
	Time Sampled:				12:00	8:30	11:15
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD			
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Naphthalene	N	2800	mg/kg	0.010	0.40	0.26	0.16
Acenaphthylene	N	2800	mg/kg	0.010	< 0.010	0.19	< 0.010
Acenaphthene	N	2800	mg/kg	0.010	< 0.010	0.48	< 0.010
Fluorene	N	2800	mg/kg	0.010	< 0.010	0.46	< 0.010
Phenanthrene	N	2800	mg/kg	0.010	0.82	5.6	0.27
Anthracene	N	2800	mg/kg	0.010	0.27	1.8	0.12
Fluoranthene	N	2800	mg/kg	0.010	1.5	18	0.49
Pyrene	N	2800	mg/kg	0.010	1.6	16	0.49
Benzo[a]anthracene	N	2800	mg/kg	0.010	0.69	8.0	0.46
Chrysene	N	2800	mg/kg	0.010	0.55	7.4	0.40
Benzo[b]fluoranthene	N	2800	mg/kg	0.010	1.2	12	0.55
Benzo[k]fluoranthene	N	2800	mg/kg	0.010	0.36	3.7	0.32
Benzo[a]pyrene	N	2800	mg/kg	0.010	1.1	11	0.48
Indeno(1,2,3-c,d)Pyrene	N	2800	mg/kg	0.010	0.95	7.5	0.54
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.010	0.18	1.0	0.28
Benzo[g,h,i]perylene	N	2800	mg/kg	0.010	0.90	6.6	0.44
Total Of 16 PAH's	N	2800	mg/kg	0.20	11	100	5.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 23-26942-1

Initial Date of Issue: 17-Aug-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
Bath Road
Wolverhampton
WV1 4EG

Contact(s): Andy Clee
Andy Stockton
Charlie Gould
Jon Owens
Sam Gould

Project MG Maw Green

Quotation No.: Q20-21354 **Date Received:** 10-Aug-2023

Order No.: MG/233 **Date Instructed:** 10-Aug-2023

No. of Samples: 4

Turnaround (Wkdays): 5 **Results Due:** 16-Aug-2023

Date Approved: 17-Aug-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: MG Maw Green

Client: Provectus Soils Management Ltd		Chemtest Job No.:		23-26942	23-26942	23-26942	23-26942
Quotation No.: Q20-21354		Chemtest Sample ID.:		1686900	1686901	1686902	1686903
Order No.: MG/233		Client Sample Ref.:		Daresbury	Padiham	Stockport	Liverpool
		Client Sample ID.:		DW2237058/1 A	DW2237059/1 A	DW2237136/1	DW2236729/1
		Sample Location:		MG	MG	MG	MG
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Date Sampled:		03-Aug-2023	07-Aug-2023	08-Aug-2023	09-Aug-2023
		Time Sampled:		12:00	12:00	12:00	12:00
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	Bitumen	-	-
Asbestos Identification	U	2192		N/A	Chrysotile	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry	U	2192	%	0.001	<0.001		
Total Asbestos	U	2192	%	0.001	<0.001		
Moisture	N	2030	%	0.020	16	26	12
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones and Roots	None
Soil Texture	N	2040		N/A	Sand	Sand	Sand
pH	M	2010		4.0	8.0	8.2	9.0
Sulphate (2:1 Extract)	M	2120	mg/kg	20	30	< 20	620
Sulphur (Elemental)	M	2180	mg/kg	1.0	< 1.0	2.1	31
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	1.2	< 0.50	0.70
Arsenic	M	2455	mg/kg	0.5	28	12	10
Boron	N	2455	mg/kg	50.00	< 50	50	< 50
Cadmium	M	2455	mg/kg	0.10	1.4	1.1	0.38
Chromium	M	2455	mg/kg	0.5	45	27	17
Copper	M	2455	mg/kg	0.50	180	36	84
Mercury	M	2455	mg/kg	0.05	0.10	0.12	0.30
Nickel	M	2455	mg/kg	0.50	25	30	19
Lead	M	2455	mg/kg	0.50	230	240	180
Selenium	M	2455	mg/kg	0.25	0.69	1.2	0.69
Zinc	M	2455	mg/kg	0.50	620	150	170
Florisil Cleanup	N		-	N/A	Done	Done	Done
TPH >C6-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C21	N	2670	mg/kg	1.0	79	7.2	78
TPH >C21-C40	N	2670	mg/kg	1.0	220	420	2600
Total TPH >C6-C40	M	2670	mg/kg	10	300	420	2700
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	3.4
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: MG Maw Green

Client: Provectus Soils Management Ltd		Chemtest Job No.:		23-26942	23-26942	23-26942	23-26942
Quotation No.: Q20-21354		Chemtest Sample ID.:		1686900	1686901	1686902	1686903
Order No.: MG/233		Client Sample Ref.:		Daresbury	Padigham	Stockport	Liverpool
		Client Sample ID.:		DW2237058/1 A	DW2237059/1 A	DW2237136/1	DW2236729/1
		Sample Location:		MG	MG	MG	MG
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Date Sampled:		03-Aug-2023	07-Aug-2023	08-Aug-2023	09-Aug-2023
		Time Sampled:		12:00	12:00	12:00	12:00
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Naphthalene	N	2800	mg/kg	0.010	0.84	0.35	0.62
Acenaphthylene	N	2800	mg/kg	0.010	0.79	< 0.010	< 0.010
Acenaphthene	N	2800	mg/kg	0.010	0.29	0.14	0.40
Fluorene	N	2800	mg/kg	0.010	0.48	0.11	0.32
Phenanthrene	N	2800	mg/kg	0.010	12	0.71	2.4
Anthracene	N	2800	mg/kg	0.010	1.0	0.15	0.54
Fluoranthene	N	2800	mg/kg	0.010	16	0.85	2.6
Pyrene	N	2800	mg/kg	0.010	13	0.73	2.6
Benzo[a]anthracene	N	2800	mg/kg	0.010	4.3	0.31	1.3
Chrysene	N	2800	mg/kg	0.010	7.0	0.33	1.4
Benzo[b]fluoranthene	N	2800	mg/kg	0.010	9.4	0.58	2.1
Benzo[k]fluoranthene	N	2800	mg/kg	0.010	3.4	0.14	0.74
Benzo[a]pyrene	N	2800	mg/kg	0.010	7.3	0.42	1.8
Indeno(1,2,3-c,d)Pyrene	N	2800	mg/kg	0.010	4.3	0.24	0.83
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.010	0.88	< 0.010	0.27
Benzo[g,h,i]perylene	N	2800	mg/kg	0.010	4.6	0.32	1.1
Total Of 16 PAH's	N	2800	mg/kg	0.20	86	5.4	19
Total Phenols	M	2920	mg/kg	0.10	< 0.10	6.2	0.64

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 23-28020-1

Initial Date of Issue: 26-Aug-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
Bath Road
Wolverhampton
WV1 4EG

Contact(s): Andy Clee
Andy Stockton
Charlie Gould
Jon Owens
Sam Gould

Project MG Maw Green

Quotation No.: Q20-21354 **Date Received:** 21-Aug-2023

Order No.: MG/233 **Date Instructed:** 21-Aug-2023

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 25-Aug-2023

Date Approved: 26-Aug-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: MG Maw Green

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-28020		
Quotation No.: Q20-21354	Chemtest Sample ID.:		1691297		
Order No.: MG/233	Client Sample Ref.:		Shotton Mill		
	Client Sample ID.:		DW2236448/1A		
	Sample Location:		MG		
	Sample Type:		SOIL		
	Date Sampled:		17-Aug-2023		
	Time Sampled:		8:00		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	Fibres/Clumps
Asbestos Identification	U	2192		N/A	Chrysotile
Asbestos by Gravimetry	U	2192	%	0.001	<0.001
Asbestos By Fibre Counting	U	2192	%	0.001	<0.001
Total Asbestos	U	2192	%	0.001	<0.001
Moisture	N	2030	%	0.020	9.8
Soil Colour	N	2040		N/A	Brown
Other Material	N	2040		N/A	Stones
Soil Texture	N	2040		N/A	Sand
pH	M	2010		4.0	8.6
Sulphate (2:1 Extract)	M	2120	mg/kg	20	62
Sulphur (Elemental)	M	2180	mg/kg	1.0	5.9
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	19
Arsenic	M	2455	mg/kg	0.5	7.3
Boron	N	2455	mg/kg	50.00	< 50
Cadmium	M	2455	mg/kg	0.10	0.43
Chromium	M	2455	mg/kg	0.5	28
Copper	M	2455	mg/kg	0.50	31
Mercury	M	2455	mg/kg	0.05	0.08
Nickel	M	2455	mg/kg	0.50	10
Lead	M	2455	mg/kg	0.50	71
Selenium	M	2455	mg/kg	0.25	0.25
Zinc	M	2455	mg/kg	0.50	370
Florisil Cleanup	N		-	N/A	Done
TPH >C6-C10	N	2670	mg/kg	1.0	< 1.0
TPH >C10-C21	N	2670	mg/kg	1.0	27
TPH >C21-C40	N	2670	mg/kg	1.0	96
Total TPH >C6-C40	M	2670	mg/kg	10	120
Benzene	M	2760	µg/kg	1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0

Results - Soil

Project: MG Maw Green

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-28020		
Quotation No.: Q20-21354	Chemtest Sample ID.:		1691297		
Order No.: MG/233	Client Sample Ref.:		Shotton Mill		
	Client Sample ID.:		DW2236448/1A		
	Sample Location:		MG		
	Sample Type:		SOIL		
	Date Sampled:		17-Aug-2023		
	Time Sampled:		8:00		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
Naphthalene	N	2800	mg/kg	0.010	< 0.010
Acenaphthylene	N	2800	mg/kg	0.010	< 0.010
Acenaphthene	N	2800	mg/kg	0.010	< 0.010
Fluorene	N	2800	mg/kg	0.010	< 0.010
Phenanthrene	N	2800	mg/kg	0.010	0.25
Anthracene	N	2800	mg/kg	0.010	< 0.010
Fluoranthene	N	2800	mg/kg	0.010	0.41
Pyrene	N	2800	mg/kg	0.010	0.41
Benzo[a]anthracene	N	2800	mg/kg	0.010	< 0.010
Chrysene	N	2800	mg/kg	0.010	< 0.010
Benzo[b]fluoranthene	N	2800	mg/kg	0.010	< 0.010
Benzo[k]fluoranthene	N	2800	mg/kg	0.010	< 0.010
Benzo[a]pyrene	N	2800	mg/kg	0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	2800	mg/kg	0.010	< 0.010
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.010	< 0.010
Benzo[g,h,i]perylene	N	2800	mg/kg	0.010	< 0.010
Total Of 16 PAH's	N	2800	mg/kg	0.20	1.1
Total Phenols	M	2920	mg/kg	0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
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2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
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2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

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Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Soil test certificates for samples of pre-processing , post-screening, post-picking and slab dust



Final Report

Report No.: 23-28016-1

Initial Date of Issue: 24-Aug-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
Bath Road
Wolverhampton
WV1 4EG

Contact(s): Andy Clee
Andy Stockton
Charlie Gould
Jon Owens
Sam Gould

Project MG Maw Green

Quotation No.: Q20-21354 **Date Received:** 21-Aug-2023

Order No.: MG/233 **Date Instructed:** 21-Aug-2023

No. of Samples: 9

Turnaround (Wkdays): 5 **Results Due:** 25-Aug-2023

Date Approved: 24-Aug-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: MG Maw Green

Client: Provectus Soils Management Ltd	Chemtest Job No.:				23-28016	23-28016	23-28016	23-28016	23-28016	23-28016	23-28016	23-28016
Quotation No.: Q20-21354	Chemtest Sample ID.:				1691274	1691275	1691276	1691277	1691278	1691279	1691280	1691281
Order No.: MG/233	Client Sample Ref.:				Maw Green	Maw Green	Maw Green	Maw Green	Maw Green	Maw Green	Maw Green	Maw Green
	Client Sample ID.:				ASB 12/PS14/08	ASB 12/AS14/08	ASB 12/AP14/08	ASB 12/PS15/08	ASB 12/AS15/08	ASB 12/AP15/08	ASB 12/PS16/08	ASB 12/AS16/08
	Sample Location:				MG	MG	MG	MG	MG	MG	MG	MG
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				14-Aug-2023	14-Aug-2023	14-Aug-2023	15-Aug-2023	15-Aug-2023	15-Aug-2023	16-Aug-2023	16-Aug-2023
	Time Sampled:				15:45	15:45	15:45	10:00	10:00	10:00	9:15	9:15
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192		N/A	Fibres/Clumps	Fibres/Clumps, bitumen	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps	Fibres/Clumps
Asbestos Identification	U	2192		N/A	Chrysotile	Chrysotile	Chrysotile	Chrysotile	Chrysotile	Chrysotile	Chrysotile	Chrysotile
Asbestos by Gravimetry	U	2192	%	0.001	0.001	0.011	0.001	0.002	0.002	<0.001	0.001	<0.001
Total Asbestos	U	2192	%	0.001	0.001	0.011	0.001	0.002	0.002	<0.001	0.001	<0.001

Results - Soil

Project: MG Maw Green

Client: Provectus Soils Management Ltd	Chemtest Job No.:		23-28016		
Quotation No.: Q20-21354	Chemtest Sample ID.:		1691282		
Order No.: MG/233	Client Sample Ref.:		Maw Green		
	Client Sample ID.:		ASB 12/AP16/08		
	Sample Location:		MG		
	Sample Type:		SOIL		
	Date Sampled:		16-Aug-2023		
	Time Sampled:		9:15		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	Fibres/Clumps
Asbestos Identification	U	2192		N/A	Chrysotile
Asbestos by Gravimetry	U	2192	%	0.001	<0.001
Total Asbestos	U	2192	%	0.001	<0.001

Test Methods

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

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Sample Deviation Codes

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D - Broken Container

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Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 23-28781-1

Initial Date of Issue: 31-Aug-2023

Re-Issue Details:

Client Provectus Soils Management Ltd

Client Address: Regents House
Bath Road
Wolverhampton
WV1 4EG

Contact(s): Andy Clee
Andy Stockton
Charlie Gould
Jon Owens
Sam Gould

Project MG Maw Green

Quotation No.: Q20-21354 **Date Received:** 29-Aug-2023

Order No.: MG/233 **Date Instructed:** 29-Aug-2023

No. of Samples: 15

Turnaround (Wkdays): 5 **Results Due:** 04-Sep-2023

Date Approved: 31-Aug-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: MG Maw Green

Client: Provectus Soils Management Ltd	Chemtest Job No.:				23-28781	23-28781	23-28781	23-28781	23-28781	23-28781	23-28781	23-28781
Quotation No.: Q20-21354	Chemtest Sample ID.:				1694179	1694180	1694181	1694182	1694183	1694184	1694185	1694186
Order No.: MG/233	Client Sample Ref.:				Maw Green	Maw Green	Maw Green	Maw Green	Maw Green	Maw Green	Maw Green	Maw Green
	Client Sample ID.:				ASB 12/PS21/08	ASB 12/AS21/08	ASB 12/AP21/08	ASB 12/PS22/08	ASB 12/AS22/08	ASB 12/AP22/08	ASB 12/PS23/08	ASB 12/AS23/08
	Sample Location:				MG	MG	MG	MG	MG	MG	MG	MG
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				21-Aug-2023	21-Aug-2023	21-Aug-2023	22-Aug-2023	22-Aug-2023	22-Aug-2023	23-Aug-2023	23-Aug-2023
	Time Sampled:				11:30	11:30	11:30	8:00	8:00	8:00	11:00	11:00
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192		N/A	-	Fibres/Clumps	-	-	Fibres/Clumps	-	-	Fibres/Clumps
Asbestos Identification	U	2192		N/A	No Asbestos Detected	Chrysotile	No Asbestos Detected	No Asbestos Detected	Chrysotile	No Asbestos Detected	No Asbestos Detected	Chrysotile
Asbestos by Gravimetry	U	2192	%	0.001		<0.001			<0.001			<0.001
Total Asbestos	U	2192	%	0.001		<0.001			<0.001			<0.001

Results - Soil

Project: MG Maw Green

Client: Provectus Soils Management Ltd	Chemtest Job No.:				23-28781	23-28781	23-28781	23-28781	23-28781	23-28781	23-28781
Quotation No.: Q20-21354	Chemtest Sample ID.:				1694187	1694188	1694189	1694190	1694191	1694192	1694193
Order No.: MG/233	Client Sample Ref.:				Maw Green	Maw Green	Maw Green	Maw Green	Maw Green	Maw Green	Maw Green
	Client Sample ID.:				ASB 12/AP23/08	ASB 12/PS24/08	ASB 12/AS24/08	ASB 12/AP24/08	ASB 12/PS25/08	ASB 12/AS25/08	ASB 12/AP25/08
	Sample Location:				MG	MG	MG	MG	MG	MG	MG
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				23-Aug-2023	24-Aug-2023	24-Aug-2023	24-Aug-2023	25-Aug-2023	25-Aug-2023	25-Aug-2023
	Time Sampled:				11:00	9:30	9:30	9:30	8:00	8:00	8:00
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD							
ACM Type	U	2192		N/A	Fibres/Clumps	Fibres/Clumps	-	Fibres/Clumps	-	-	Fibres/Clumps
Asbestos Identification	U	2192		N/A	Chrysotile	Chrysotile	No Asbestos Detected	Amosite	No Asbestos Detected	No Asbestos Detected	Amosite
Asbestos by Gravimetry	U	2192	%	0.001	0.004	0.002		0.001			0.001
Total Asbestos	U	2192	%	0.001	0.004	0.002		0.001			0.001

Test Methods

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

Report Information

Key

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customerservices@chemtest.com

Appendix M DETS laboratory test certificates for supplementary soil testing at Maw Green

Provectus samples



Jon Owens
Provectus Remediation Ltd
Regent House
Bath Avenue
Wolverhampton
WV1 4EG

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-10841

Site Reference: Maw Green Asbestos Treatment Sampling
Project / Job Ref: None Supplied
Order No: RR391
Sample Receipt Date: 23/08/2023
Sample Scheduled Date: 23/08/2023
Report Issue Number: 1
Reporting Date: 18/09/2023

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 23-10841	Date Sampled	14/08/23	14/08/23	14/08/23	15/08/02	15/08/02
Provectus Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green Asbestos Treatment	TP / BH No	ASB 12/PS 14/08	ASB 12/AS 14/08	ASB 12/AP 14/08	ASB 12/PS 15/08	ASB 12/AS 15/08
Sampling						
Project / Job Ref: None Supplied	Additional Refs	MG	MG	MG	MG	MG
Order No: RR391	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 18/09/2023	DETS Sample No	671521	671522	671523	671524	671525

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Detected	Detected	Detected	Detected
Sample Matrix ^(S)	Material Type	N/a	NONE		Chrysotile present in bundles	Detected Amosite & Chrysotile present in microscopic insulation	Chrysotile present in bundles	Detected Chrysotile present in microscopic insulation debris & bundles
Asbestos Type ^(S)	PLM Result	N/a	ISO17025		Chrysotile	Chrysotile Amosite	Chrysotile	Chrysotile
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	21700.000	52400.000	44700.000	44700.000	34500.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate					
DETS Report No: 23-10841	Date Sampled	16/08/23	16/08/23	16/08/23	17/08/23
Provectus Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green Asbestos Treatment Sampling	TP / BH No	ASB 12/PS 16/08	ASB 12/AS 16/08	ASB 12/AP 16/08	ASB 12/PS 17/08
Project / Job Ref: None Supplied	Additional Refs	MG	MG	MG	MG
Order No: RR391	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 18/09/2023	DETS Sample No	671526	671527	671528	671530

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Sample Matrix ^(S)	Material Type	N/a	NONE					Chrysotile present in bundles
Asbestos Type ^(S)	PLM Result	N/a	ISO17025					Chrysotile
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	28100.000	58700.000	42100.000	43400.000	17900.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate					
DETS Report No: 23-10841	Date Sampled	17/08/23	18/08/23	18/08/23	18/08/23
Provectus Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green Asbestos Treatment Sampling	TP / BH No	ASB 12/AS 17/08	ASB 12/AP 17/08	ASB 12/PS 18/08	ASB 12/AS 18/08
Project / Job Ref: None Supplied	Additional Refs	MG	MG	MG	MG
Order No: RR391	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 18/09/2023	DETS Sample No	671531	671532	671533	671534

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Detected
Sample Matrix ^(S)	Material Type	N/a	NONE					Amosite & Chrysotile present in microscopic insulation
Asbestos Type ^(S)	PLM Result	N/a	ISO17025					Amosite
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	28100.000	21700.000	7660.000	19200.000	Chrysotile
								28100.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 23-10841	Date Sampled	21/08/23	21/08/23	21/08/23	22/08/23	22/08/23
Provectus Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green Asbestos Treatment	TP / BH No	ASB 12/PS 21/08	ASB 12/AS 21/08	ASB 12/AP 21/08	ASB 12/PS 22/08	ASB 12/AS 22/08
Sampling						
Project / Job Ref: None Supplied	Additional Refs	MG	MG	MG	MG	MG
Order No: RR391	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 18/09/2023	DETS Sample No	671536	671537	671538	671539	671540

Determinand	Unit	RL	Accreditation	Detected	Not Detected	Detected	Detected	Detected
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Not Detected	Detected	Detected	Detected
Sample Matrix ^(S)	Material Type	N/a	NONE	Chrysotile fibres present in microscopic insulation		Amosite present as bundles	Amosite & Chrysotile present as fibre bundles	Chrysotile present in bundles
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile		Amosite	Amosite Chrysotile	Chrysotile
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	19200.000	12800.000	24300.000	5110.000	16600.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 23-10841	Date Sampled	22/08/23	17/08/23	18/08/23	21/08/23	22/08/23
Provectus Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green Asbestos Treatment Sampling	TP / BH No	ASB 12/AP 22/08	Pad 17/08	Pad 18/08	Pad 21/08	Pad 22/08
Project / Job Ref: None Supplied	Additional Refs	MG	MG	MG	MG	MG
Order No: RR391	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 18/09/2023	DETS Sample No	671541	671542	671543	671544	671545

Determinand	Unit	RL	Accreditation	Detected	Not Detected	Not Detected	Detected	Not Detected
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Not Detected	Not Detected	Detected	Not Detected
Sample Matrix ^(S)	Material Type	N/a	NONE	Chrysotile present in bundles			Chrysotile present in microscopic cement and as loose bundles	
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile			Chrysotile	
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	39600.000	12800.000	15300.000	25500.000	30600.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 23-10841

Provectus Remediation Ltd

Site Reference: Maw Green Asbestos Treatment Sampling

Project / Job Ref: None Supplied

Order No: RR391

Reporting Date: 18/09/2023

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphénylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCS	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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List of HWOL Acronyms and Operators
DETS Report No: 23-10841
Provectus Remediation Ltd
Site Reference: Maw Green Asbestos Treatment Sampling
Project / Job Ref: None Supplied
Order No: RR391
Reporting Date: 18/09/2023

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
<u> </u>	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym



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DETS Report No: 23-10977

Site Reference: Maw Green Asbestos Treatment Sampling

Project / Job Ref: None Supplied

Order No: RR391

Sample Receipt Date: 29/08/2023

Sample Scheduled Date: 29/08/2023

Report Issue Number: 1

Reporting Date: 26/09/2023

Authorised by:

A handwritten signature in black ink, appearing to read "Kevin Old", is written over a thin horizontal line.

Kevin Old
Operations Director

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 23-10977	Date Sampled	23/08/23	23/08/23	23/08/23	24/08/23	24/08/23
Provectus Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green Asbestos Treatment Sampling	TP / BH No	ASB 12/PS 23/08	ASB 12/AS 23/08	ASB 12/AP 23/08	ASB 12/PS 24/08	ASB 12/AS 24/08
Project / Job Ref: None Supplied	Additional Refs	MG	MG	MG	MG	MG
Order No: RR391	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 26/09/2023	DETS Sample No	672089	672090	672091	672092	672093

Determinand	Unit	RL	Accreditation					
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	38300.000	16600.000	15300.000	28100.000	17900.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 23-10977	Date Sampled	24/08/23	25/08/23	25/08/23	25/08/23	23/08/23
Provectus Remediation Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green Asbestos Treatment Sampling	TP / BH No	ASB 12/AP 24/08	ASB 12/PS 25/08	ASB 12/AS 25/08	ASB 12/AP 25/08	Pad 23/08
Project / Job Ref: None Supplied	Additional Refs	MG	MG	MG	MG	MG
Order No: RR391	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 26/09/2023	DETS Sample No	672094	672095	672096	672097	672098

Determinand	Unit	RL	Accreditation					
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	48500.000	17900.000	30600.000	30600.000	20400.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 23-10977	Date Sampled	24/08/23	25/08/23			
Provectus Remediation Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Maw Green Asbestos Treatment Sampling	TP / BH No	Pad 24/08	Pad 25/08			
Project / Job Ref: None Supplied	Additional Refs	MG	MG			
Order No: RR391	Depth (m)	None Supplied	None Supplied			
Reporting Date: 26/09/2023	DETS Sample No	672099	672100			

Determinand	Unit	RL	Accreditation			
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	6390.000	25500.000	

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 Subcontracted analysis (S)



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Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-10977
Proventus Remediation Ltd
Site Reference: Maw Green Asbestos Treatment Sampling
Project / Job Ref: None Supplied
Order No: RR391
Reporting Date: 26/09/2023

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCS	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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List of HWOL Acronyms and Operators
DETS Report No: 23-10977
Provectus Remediation Ltd
Site Reference: Maw Green Asbestos Treatment Sampling
Project / Job Ref: None Supplied
Order No: RR391
Reporting Date: 26/09/2023

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym

Hydrock samples



Becky Homer
Hydrock
4 lakeside
Festival Park
Stoke on Trent
ST1 5RY

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t: 01622 850410

DETS Report No: 23-11454

Site Reference: Maw Green
Project / Job Ref: 28480
Order No: PO28511
Sample Receipt Date: 11/09/2023
Sample Scheduled Date: 11/09/2023
Report Issue Number: 1
Reporting Date: 19/09/2023

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 23-11454	Date Sampled	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23
Hydrock	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green	TP / BH No	SP/PS/4.9.23/-1	SP/PS/4.9.23/-2	SP/F/4.9.23/-1	SP/F/4.9.23/-2	SLAB/F/4.9.23/-1
Project / Job Ref: 28480	Additional Refs	Stockpile	Stockpile	Stockpile	Stockpile	Surface
Order No: PO28511	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 19/09/2023	DETS Sample No	674180	674181	674182	674183	674184

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Detected	Detected	Detected	Detected
Sample Matrix ^(S)	Material Type	N/a	NONE	Chrysotile present as fibre bundles	Chrysotile present as fibre bundles	Chrysotile present as fibre bundles	Chrysotile present as fibre bundles	Chrysotile present as fibre bundles
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile	Chrysotile	Chrysotile	Chrysotile	Chrysotile

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 23-11454	Date Sampled	04/09/23	05/09/23	05/09/23	05/09/23	05/09/23
Hydrock	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green	TP / BH No	SLAB/F/4.9.23/-2	SP/PS/5.9.23/-1	SP/PS/5.9.23/-2	SP/F/5.9.23/-1	SP/F/5.9.23/-2
Project / Job Ref: 28480	Additional Refs	Surface	Surface	Stockpile	Stockpile	Stockpile
Order No: PO28511	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 19/09/2023	DETS Sample No	674185	674186	674187	674188	674189

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Detected	Detected	Detected	Detected
Sample Matrix ^(S)	Material Type	N/a	NONE	Chrysotile present as fibre bundles	Amosite present as fibre bundles	Chrysotile present as fibre bundles	Amosite present as fibre bundles	Chrysotile present as fibre bundles
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile	Amosite	Chrysotile	Amosite	Chrysotile

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 23-11454		Date Sampled	05/09/23	05/09/23		
Hydrock		Time Sampled	None Supplied	None Supplied		
Site Reference: Maw Green		TP / BH No	SLAB/F/5.9.23/-1	SLAB/F/5.9.23/-2		
Project / Job Ref: 28480		Additional Refs	Surface	Surface		
Order No: PO28511		Depth (m)	None Supplied	None Supplied		
Reporting Date: 19/09/2023		DETS Sample No	674190	674191		

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Detected		
Sample Matrix ^(S)	Material Type	N/a	NONE	Chrysotile present in microscopic cement fragment	Chrysotile present as fibre bundles		
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile	Chrysotile		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 23-11454	
Hydrock	
Site Reference: Maw Green	
Project / Job Ref: 28480	
Order No: PO28511	
Reporting Date: 19/09/2023	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCS	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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List of HWOL Acronyms and Operators
DETS Report No: 23-11454
Hydrock
Site Reference: Maw Green
Project / Job Ref: 28480
Order No: PO28511
Reporting Date: 19/09/2023

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym



Becky Homer
Hydrock
4 lakeside
Festival Park
Stoke on Trent
ST1 5RY

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DETS Report No: 23-11455

Site Reference: Maw Green
Project / Job Ref: 28480
Order No: PO28511
Sample Receipt Date: 11/09/2023
Sample Scheduled Date: 11/09/2023
Report Issue Number: 1
Reporting Date: 06/10/2023

Authorised by:

A handwritten signature in black ink, appearing to read "Dave Ashworth".

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 23-11455	Date Sampled	04/09/23	04/09/23	04/09/23	04/09/23	04/09/23
Hydrock	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green	TP / BH No	SP/PS/4.9.23/-1	SP/PS/4.9.23/-2	SP/F/4.9.23/-1	SP/F/4.9.23/-2	SLAB/F/4.9.23/-1
Project / Job Ref: 28480	Additional Refs	Stockpile	Stockpile	Stockpile	Stockpile	Surface
Order No: PO28511	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 06/10/2023	DETS Sample No	674192	674193	674194	674195	674196

Determinand	Unit	RL	Accreditation					
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	19200.000	28100.000	20400.000	17900.000	38300.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 23-11455	Date Sampled	04/09/23	05/09/23	05/09/23	05/09/23	05/09/23
Hydrock	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green	TP / BH No	SLAB/F/4.9.23/-2	SP/PS/5.9.23/-1	SP/PS/5.9.23/-2	SP/F/5.9.23/-1	SP/F/5.9.23/-2
Project / Job Ref: 28480	Additional Refs	Surface	Stockpile	Stockpile	Stockpile	Stockpile
Order No: PO28511	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 06/10/2023	DETS Sample No	674197	674198	674199	674200	674201

Determinand	Unit	RL	Accreditation					
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	21700.000	12800.000	24300.000	26800.000	29400.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 23-11455	Date Sampled	05/09/23	05/09/23			
Hydrock	Time Sampled	None Supplied	None Supplied			
Site Reference: Maw Green	TP / BH No	SLAB/F/5.9.23/-1	SLAB/F/5.9.23/-2			
Project / Job Ref: 28480	Additional Refs	Surface	Surface			
Order No: PO28511	Depth (m)	None Supplied	None Supplied			
Reporting Date: 06/10/2023	DETS Sample No	674202	674203			

Determinand	Unit	RL	Accreditation			
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	29400.000	12800.000	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 23-11455	
Hydrock	
Site Reference: Maw Green	
Project / Job Ref: 28480	
Order No: PO28511	
Reporting Date: 06/10/2023	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCS	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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List of HWOL Acronyms and Operators
DETS Report No: 23-11455
Hydrock
Site Reference: Maw Green
Project / Job Ref: 28480
Order No: PO28511
Reporting Date: 06/10/2023

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym



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DETS Report No: 23-11456

Site Reference: Maw Green
Project / Job Ref: 28480
Order No: PO28511
Sample Receipt Date: 11/09/2023
Sample Scheduled Date: 11/09/2023
Report Issue Number: 1
Reporting Date: 19/09/2023

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 23-11456	Date Sampled	06/09/23	06/09/23	06/09/23	06/09/23	06/09/23
Hydrock	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green	TP / BH No	SP/PS/6.9.23/-1	SP/PS/6.9.23/-2	SP/F/6.9.23/-1	SP/F/6.9.23/-2	SLAB/F/6.9.23/-1
Project / Job Ref: 28480	Additional Refs	Stockpile	Stockpile	Stockpile	Stockpile	Surface
Order No: PO28511	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 19/09/2023	DETS Sample No	674204	674205	674206	674207	674208

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Not Detected	Not Detected	Detected	Not Detected
Sample Matrix ^(S)	Material Type	N/a	NONE	Bundle of Chrysotile fibres			Bundle of Chrysotile fibres	
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile			Chrysotile	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 23-11456	Date Sampled	06/09/23	07/09/23	07/09/23	07/09/23	07/09/23
Hydrock	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green	TP / BH No	SLAB/F/6.9.23/-2	SP/PS/7.9.23/-1	SP/PS/7.9.23/-2	SP/F/7.9.23/-1	SP/F/7.9.23/-2
Project / Job Ref: 28480	Additional Refs	Surface	Stockpile	Stockpile	Stockpile	Stockpile
Order No: PO28511	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 19/09/2023	DETS Sample No	674209	674210	674211	674212	674213

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Not Detected	Not Detected	Detected	Detected
Sample Matrix ^(S)	Material Type	N/a	NONE	Bundles of Chrysotile fibres			Bundle of Chrysotile fibres	Bundles of Chrysotile fibres
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile			Chrysotile	Chrysotile

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 23-11456		Date Sampled	07/09/23	07/09/23		
Hydrock		Time Sampled	None Supplied	None Supplied		
Site Reference: Maw Green		TP / BH No	SLAB/F/7.9.23/-1	SLAB/F/7.9.23/-2		
Project / Job Ref: 28480		Additional Refs	Surface	Surface		
Order No: PO28511		Depth (m)	None Supplied	None Supplied		
Reporting Date: 19/09/2023		DETS Sample No	674214	674215		

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Detected		
Sample Matrix ^(S)	Material Type	N/a	NONE	Chrysotile present in microscopic cement debris	Chrysotile present in microscopic cement debris		
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile	Chrysotile		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 23-11456	
Hydrock	
Site Reference: Maw Green	
Project / Job Ref: 28480	
Order No: PO28511	
Reporting Date: 19/09/2023	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCS	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

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List of HWOL Acronyms and Operators
DETS Report No: 23-11456
Hydrock
Site Reference: Maw Green
Project / Job Ref: 28480
Order No: PO28511
Reporting Date: 19/09/2023

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym



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DETS Report No: 23-11457

Site Reference: Maw Green
Project / Job Ref: 28480
Order No: PO28511
Sample Receipt Date: 11/09/2023
Sample Scheduled Date: 11/09/2023
Report Issue Number: 1
Reporting Date: 11/10/2023

Authorised by:

Ela Mysia
Quality Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate					
DETS Report No: 23-11457	Date Sampled	06/09/23	06/09/23	06/09/23	06/09/23
Hydrock	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green	TP / BH No	SP/PS/6.9.23/-1	SP/PS/6.9.23/-2	SP/F/6.9.23/-1	SP/F/6.9.23/-2
Project / Job Ref: 28480	Additional Refs	Surface	Surface	Surface	Surface
Order No: PO28511	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/10/2023	DETS Sample No	674216	674217	674218	674219

Determinand	Unit	RL	Accreditation					
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	23000.000	25500.000	5110.000	16600.000	21700.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate					
DETS Report No: 23-11457	Date Sampled	06/09/23	06/09/23	06/09/23	06/09/23
Hydrock	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Maw Green	TP / BH No	SLAB/F/6.9.23/-2	SP/PS/7.9.23/-1	SP/PS/7.9.23/-2	SP/F/7.9.23/-1
Project / Job Ref: 28480	Additional Refs	Surface	Surface	Surface	Surface
Order No: PO28511	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 11/10/2023	DETS Sample No	674221	674222	674223	674224

Determinand	Unit	RL	Accreditation					
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	12800.000	12800.000	7660.000	5110.000	6390.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate					
DETS Report No: 23-11457	Date Sampled	06/09/23	06/09/23		
Hydrock	Time Sampled	None Supplied	None Supplied		
Site Reference: Maw Green	TP / BH No	SLAB/F/7.9.23/-1	SLAB/F/7.9.23/-2		
Project / Job Ref: 28480	Additional Refs	Surface	Surface		
Order No: PO28511	Depth (m)	None Supplied	None Supplied		
Reporting Date: 11/10/2023	DETS Sample No	674226	674227		

Determinand	Unit	RL	Accreditation		
Asbestos - Respirable Dust ^(S)	f/mg	0.001	NONE	12800.000	35800.000

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 23-11457

Hydrock

Site Reference: Maw Green

Project / Job Ref: 28480

Order No: PO28511

Reporting Date: 11/10/2023

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphénylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCS	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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List of HWOL Acronyms and Operators
DETS Report No: 23-11457
Hydrock
Site Reference: Maw Green
Project / Job Ref: 28480
Order No: PO28511
Reporting Date: 11/10/2023

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
<u> </u>	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym

Appendix N Hydrock photolog

Hydrock Photolog for Maw Green Monitoring



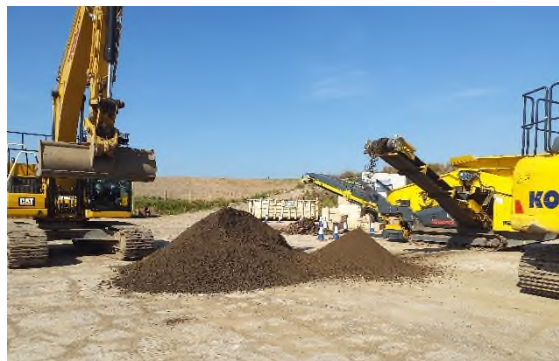
Photograph 1 – 04/09/23 Processing area setup (picking line to the left)



Photograph 2 – 04/09/23 Site overview



Photograph 3 – 04/09/23 pre-screened material stockpile



Photograph 4 – 04/09/23 Fines stockpile



Photograph 5 – 04/09/23 Dust/debris to slab for sampling A



Photograph 6 – 04/09/23 Dust/debris to slab for sampling B



Photograph 7 – 04/09/23 Picking line setup



Photograph 8 – 04/09/23 End of the day clean up (@17:55)



Photograph 9 – 04/09/23 Slab sampling locations



Photograph 10 – 04/09/23 50m SEM Sample point (Downwind)



Photograph 11 – 04/09/23 100m SEM Sample point (Downwind)



Photograph 12 – 05/09/23 Site setup



Photograph 13 – 05/09/23 pre-screened material stockpile



Photograph 14 – 05/09/23 processed fines



Photograph 15 – 05/09/23 50m SEM Sample point (Downwind)



Photograph 16 – 05/09/23 100m SEM Sample point (Downwind)



Photograph 17 – 05/09/23 Adjacent SEM Sample point (Downwind)



Photograph 18 – 05/09/23 50m SEM Sample point (Upwind)



Photograph 19 – 05/09/23 Slab sampling locations



Photograph 20 – 06/09/23 pre-screened material stockpile



Photograph 21 - 06/09/23 Fines stockpile



Photograph 22 – 06/09/23 50m SEM Sample point (Downwind)



Photograph 23 – 06/09/23 100m SEM Sample point (Downwind)



Photograph 23 – 06/09/23 Adjacent SEM Sample point (Downwind)



Photograph 24 – 06/09/23 50m SEM Sample point (Upwind)



Photograph 25 – 06/09/23 Slab sampling locations



Photograph 26 – 07/09/23 pre-screened material stockpile



Photograph 27 – 07/09/23 Fines stockpile



Photograph 28 – 07/09/23 50m SEM Sample point (Downwind)



Photograph 29 – 07/09/23 100m SEM Sample point (Downwind)



Photograph 30 – 07/09/23 Adjacent SEM Sample point (Downwind)



Photograph 31 – 07/09/23 50m SEM Sample point (Upwind)



Photograph 32 - 07/09/23 Slab sampling locations

Appendix O Provectus STF Work Instructions

STC – WI 002 - SOIL RECEPTION PROCEDURE

Author:	Andy Clee – Ops Man	Approved By:	Jon Owens – STC Director
Distribution:	Z/QMS/Work Instructions - STC		

Document Changes

Revision No:	Summary of Changes	Date
5	Incorporates asbestos reception procedure	16.12.2022

Introduction

This procedure relates to the measures to be undertaken for the assessment of data and inspection of waste received at the soil treatment facility. It allows rejection of non-conforming waste to ensure no contaminated soils are accepted which cannot be treated by the treatment facility to a standard suitable for reuse, or which breach the list of permitted wastes as shown in the site’s Environmental permit.



Principle of Operation

The inspection will allow the following to be assessed prior to acceptance:

1. Presence of untreatable and hazardous materials (e.g. tars, clinker, asbestos insulation etc.) in the contaminated soil.
2. Presence of excessive litter/debris in the contaminated soil.
3. Compliance with the previously supplied chemical/physical analysis information (supplied by waste producer).
4. Potential for the waste to behave as a liquid or have free water/oil in the waste

If the waste material is not compliant with the agreed conditions of the Environmental Permit and pre-acceptance assessment, then the waste will be declined/rejected. As a note, if the STC is permitted to accept asbestos the forms of untreatable asbestos described in point 1 are predominantly insulation products as follows in Table 1.

Table 1. Unacceptable Forms of Asbestos Insulation Products

Form of asbestos	Example
Asbestos pipe lagging	
Loose asbestos fill	

Asbestos insulation board (AIB)	
---------------------------------	--

Procedure

Pre-Acceptance Assessment

Pre-acceptance is undertaken by Provectus to confirm treatability to meet the reuse criteria. A set of Terms and Conditions for acceptance are sent to the Waste Producer/client including a clear statement of any waste characterisation samples that are deemed untreatable. These are agreed in writing between the Waste Producer/client and Provectus prior to an authorisation number (contract line) being issued by FCC at the weighbridge for deposit at the Soil Treatment Facility.

Where data gaps exist or queries remain about the suitability of material for treatment, Provectus or FCC will offer to attend the site of origin to undertake pre-acceptance analysis and visually inspect the material and obtain further information about the waste description. Alternatively, the material may be quarantined on arrival at the STF and subject to further testing.

If the moisture content of the material is >30% then the potential for free water or oil will be further reviewed. Where moisture contents are at this level and the material does not behave as a liquid, have the potential for releasing water/oil etc and is suitable for the site infrastructure then it would be accepted on a case by case basis. Material must be able to support its own weight and ideally be able to be formed into a larger batch.

Should either Provectus, or after consultation, FCC determine that there is the high potential for material to contain untreatable inclusions or to behave as a liquid or contain free water or oil then the waste will be rejected for acceptance.

Duty of Care Documentation

No tipping on the STC will be permitted without relevant duty of care documentation from the waste producer. With this information, the job can be set up with FCC and a DW number issued to the client. All loads must be accompanied with the correct paperwork which must be checked on-site at the STC to ensure that the load is indeed destined for the STC, and that the documents are correctly completed. The consignee section of Consignment notes, for hazardous waste, and waste transfer notes for non-hazardous waste, shall be completed by Provectus at the STC once the load has been deemed acceptable by the STC site manager.

Health and Safety

The STC manager is to provide guidance on where the soil is to be tipped, and any relevant safety information prior to tipping of soil. On STC's where asbestos is permitted, it is crucial that loads are placed in the correct tipping areas.

Technicians and site personnel are to stand well away from the lorry when tipping to avoid any crush injuries/incidents as a result of being in close proximity to the tipping lorry. Any drivers must be informed of the requirement to wear a hard hat and high visibility vest when outside of the lorry cabin.

Lorries shall be informed to check that any waste/debris is removed from their lorry prior to leaving the STF.

If loads are to be tipped into the asbestos area, then additional site-specific driver rules apply and must be adhered to.

Visual Inspection: Waste Input

The following locations will be used for accepting wastes:

- Hydrocarbons only: biopile treatment area
- Asbestos only, or asbestos and hydrocarbons: designated asbestos processing area

The following plant and personnel are required as part of this procedure:

- Provectus STC manager
- Excavator

Each load of soil for inspection (new jobs) will be tipped onto the designated area. The STC manager will inform the tipper lorry driver to remain at the tipping area until the inspection has been completed.

In the event of the material containing free water or oil, the load will be immediately rejected.

In the event of untreatable forms of asbestos being present, the load will be immediately rejected

If the STC is not permitted to accept asbestos, any asbestos found will result in a rejection

The excavator will be used to expose any unsuitable materials and allow a comprehensive visual assessment. The technician will determine the next action when this has been completed, this will comprise of the following:

- Waste is accepted and tipper lorry is permitted to leave the STF with the accompanying paperwork, or;
- Waste is not accepted and the unsuitable element of waste load, either partial or complete load is removed by excavator and placed back into the tipper lorry. A rejection form is filled in on-site and both Landfill Manager (LM) and Sales Manager (SM) are informed. It is the duty of FCC to inform the Environment Agency of any rejected loads.

At the end of the formal waste acceptance procedure the soil will be prepared for processing or biotreatment. Coordination of further treatment/processing events is to be decided by the STC Manager.

Continual visual inspections are to be made by the trained excavator operator who is to inform the STC manager of any material that may be deemed unsuitable.

Chemical Analysis: Waste Input

Based on visual inspection, sampling frequency will be considered; this is in relation to the volume from each hazardous waste production site. Sampling will be undertaken on soils using composite sampling methods described in BS812.

The chemical analysis of soils generally takes 5-7 days to complete, therefore limited storage times are required. Materials will be placed into treatment as soon as practicable from the receipt of chemical analysis and formal acceptance of the waste.

The range of contaminants for analysis will be based upon the original contaminating substances. A copy of the analysis shall be checked by the STC operations manager for

verification against the original client data. In the event of non-conformity (i.e. will soils be unable to achieve the final reuse criteria), the STC operations manager shall liaise with the STC sales manager, and a decision on the next course of action will be taken.

For avoidance of doubt, the limits for asbestos from laboratory testing will be as follows:

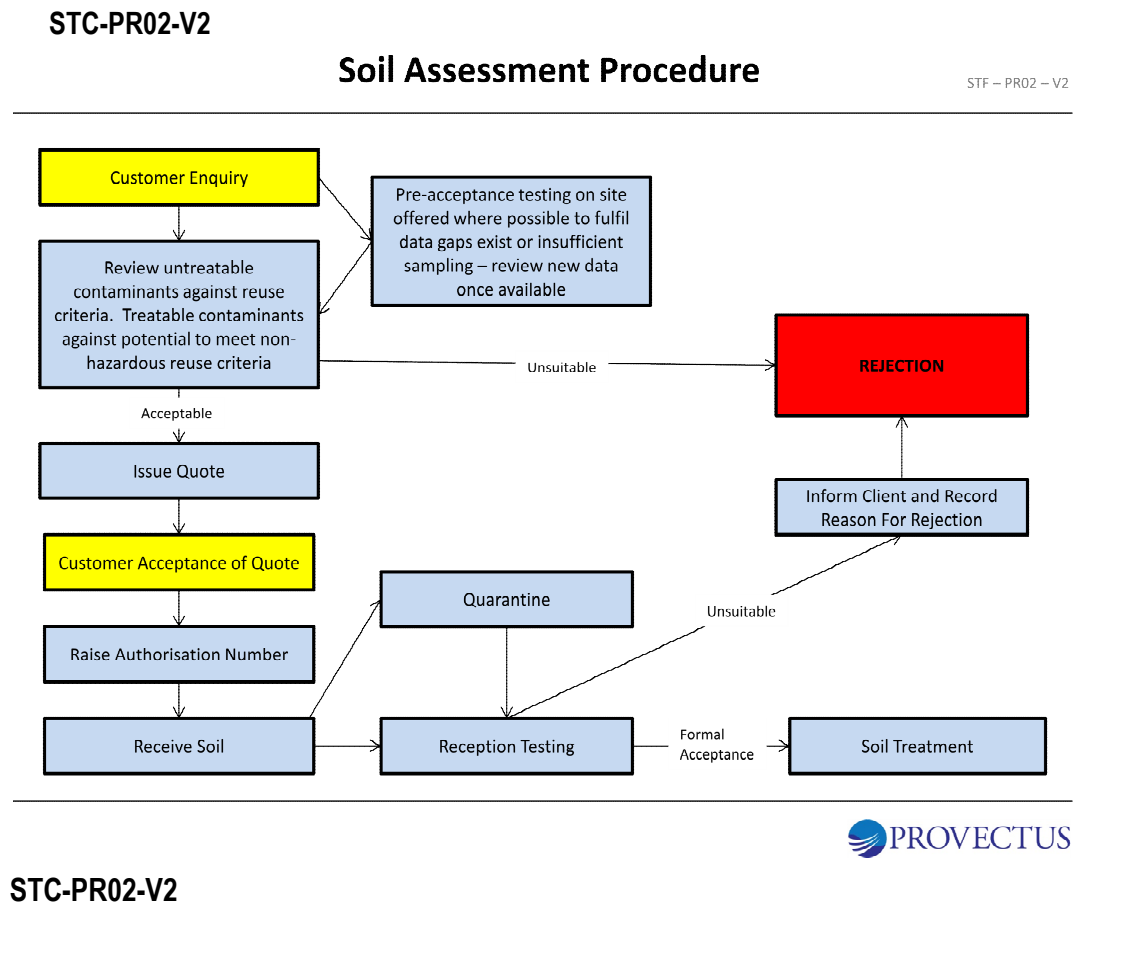
- Chrysotile only: 0.1%
- Other forms of asbestos (or chrysotile and others): 0.01%
- Asbestos debris limited to those which can be removed as Notifiable Non-Licensed Works (NNLW) if the site is permitted to accept asbestos.

The waste will only be formally accepted once reception analyses are received and approved in accordance with Soil Assessment Procedure illustrated in STC-PR02-V2 (Figure 1) below.

Summary of Waste Reception

Figure 1 is a flow diagram for the waste reception procedure. The procedure is implemented to ensure that the waste is only formally accepted once visual inspections and chemical analysis of received wastes have been successfully completed. This ensures that any soils that are formally accepted are suitable for further soil processing/treatment. All non-compliant wastes will be rejected.

Figure 1. Summary of Waste Acceptance Procedure



Soils with similar contaminants will be formed into stockpiles to enter treatment. Batches must also be formed whilst respecting the following key points:

- No mixing of hazardous and non-hazardous wastes
- No mixing of soils or pre-treated soils with non-soil wastes unless specified on the permit as a directly associated activity (e.g. use of wood wastes as a bulking agent on cohesive soils)
- No mixing of soils with different contaminant types – e.g. soils from a fuel storage source should not be mixed with soils from a former gasworks
- No mixing of soils where there is the potential for emissions that are not listed in the operating techniques or can be mitigated by the existing infrastructure

Once soils are formed into a batch for biotreatment the next steps are highlighted in STC WI 004. For asbestos contaminated soils the next steps are provided in STC WI0011.

STC – WI 003 - SOIL CHARACTERISATION PROCEDURE

Author:	Andy Clee – Ops Man	Approved By:	Jon Owens – STC Director
Distribution:	Z/QMS/Work Instructions - STC		

Document Changes

Revision No:	Summary of Changes	Date
8	Slight change in wording	14.12.22

Introduction

This procedure relates to the measures to be undertaken for the sampling of soils received at the STC. See procedure STC – WI 002 Soil Reception for background information.

Objectives

The main objective of the operation is to ensure soils received at the Soil Treatment Centre (STC) are visually, structurally, and chemically similar to those described by the waste producer/client during pre-acceptance, and therefore compliant with the Environmental permit and suitable for treatment and reuse. This will allow any non-conforming waste to be rejected.

Procedure

The sampling of soils will be performed by the STC technician or STC site manager. The procedure follows composite sampling methods as described in BS812.

A minimum of at least one composite sample must be taken from each job (unique authorisation code/DW number) and at the frequency highlighted in Table 1 below. Chemical testing is undertaken to ensure that the material being tipped is consistent with the analysis and description provided by the client at the pre-characterisation stage. It also checks to see if the material remains consistent throughout the project.

Table 1: Requirements for sampling:

Volume of soil (t)	No. of samples needed (before or during acceptance at STC)
< 100	1
100 - 500	2
500 +	2 + 1 for every 500t

The general suite of analysis for soils shall include:

- pH
- CLEA Metals
- Total TPH
- Total PAHs
- Total Cyanide

- Phenols
- SVOCs and VOCs (where required)
- PCBs (where required)
- Asbestos (screen and quantification where asbestos is identified)
- Moisture content

These parameters may be adapted by the STC operations manager or FCC compliance due to prior knowledge of contaminants derived from client waste description, history and data.

Liquid oil phase wastes are not permitted for treatment at the site.

All analysis will be undertaken by a UKAS/MCERTS accredited laboratory using accredited methods.

Once the analysis results are received, they will be assessed by a suitably qualified and experienced STC manager to confirm they meet the requirements for treatment. These results are to be stored electronically onto the STC server.

Where possible, the soils are to be placed into a batch with similar contamination level. The receiving batch has contaminant limits (these are not contaminant limits for soil inputs which can vary and exceed the average batch limits). The hydrocarbons in the batches will be limited to an average as shown in Table 2.

Concentrations for inorganics to be reviewed in accordance with WM3 (Jan 2021).

Asbestos concentrations to be assessed using criteria in Table 3.

Should the results not conform to the requirements for treatment the waste will be rejected following the formal rejection procedure.

Table 2. Maximum Average Contaminant Concentrations for Receiving Batch

Substance	Carbon Range	Lower Elimination Rate	Upper Elimination Rate	Maximum average batch concentration (lower level) - mg/kg	Maximum average batch concentration upper level) - mg/kg	Comments
Petrol range organics	C6-C10	95%	99%	20,000	100,000	Limited by odour potential
Diesel	C10-C25	60%	90%	2,500	10,000	Target of below 1,000mg/kg for reuse even though diesel is only hazardous at 1% (10,000mg/kg)
Lube Oils	C25+	40%	65%	1,667	2,857	Review age of spill and soil type before assessing which elimination rate to use
Unknown Oil	C10+	40%	80%	1,667	5,000	Review age of spill, source and soil type before assessing which elimination rate to use
PAHs	C10+	30%	90%	1,429	10,000	Limited by odour potential
Phenols	C6+	90%	99%	10,000	100,000	Limited by odour potential
Solvents	C2+	95%	99%	20,000	100,000	Limited by odour potential
VOCs	C2+	99%	99%	100,000	100,000	Limited by odour potential

Table 3. Maximum Asbestos Contaminant Concentrations for Treatment

Substance	Maximum concentration (%)	Comments
Chrysotile	<0.1%	Bound forms of ACM only
Amphibole ACM Types	<0.01%	Bound forms of ACM only
Asbestos insulation/unbound asbestos	Absent	No acceptance of any form of asbestos in friable/insulation form

STC – WI 006 - SOIL ANALYSIS

Author:	Andy Clee – Ops Man	Approved By:	Jon Owens – STC Director
Distribution:	Z/QMS/Work Instructions - STC		

Document Changes

Revision No:	Summary of Changes	Date
5	Minor alteration to wording	14.12.2022

Introduction

This procedure relates to the measures to be undertaken for the testing of soils treated at the Soil Treatment Centre (STC). This ensures that soils are suitable when received, maintained in optimal treatment ranges, and are validated in accordance with the permit. Once treatment is complete soils may be reused in several ways depending on the site. This includes quarry backfill works or restoration soil for the landfill site.

Principle of Operation

The main objective is to ensure, in accordance with the Environmental Permit, that any soil treated by Provectus is reused in a safe and environmentally acceptable manner. Quality control measures are implemented in order to prevent the reuse of soils to destinations either unintended, or unsuitable for the receipt of such soils. This operation is performed in conjunction with FCC, who operate the sites where the soils shall be reused.

In-treatment batches of soil are monitored periodically as described in STC WI 004. When a batch of treated soil displays strong chemical evidence of meeting a non-hazardous reuse standard, a 'validation' sample is to be taken and used to generate a data report. This is to be reviewed by the STC operations manager and can then be sent to FCC to be formally approved for disposal.

Validation sampling is to be carried out by the STC site technician or site manager, using a grid formation sampling plan. As a general rule one composite sample should be taken for every 500t.

The reception and validation samples should be submitted for the following analytical tests –

- Metals (As, B, Cd, Cr, Cu, Pb, Hg, Ni, Se & Zn)
- pH
- Speciated TPH (including BTEX)
- Speciated PAHs
- Phenols
- Total Sulphate
- Elemental sulphur
- Free Cyanide
- Total Cyanide
- Asbestos screen

Dependent on the contaminants of concern it may be necessary to request further parameters for testing on validation. Leachate analyses are required for reuse of soils in the restoration part of the landfill in accordance with the agreed risk assessment.

Procedure

Once the soil batch has been analysed by an accredited laboratory, and the results reviewed by the STC operations manager; a validation report shall be compiled with information regarding soil volumes, validation analysis results, soil origin and ultimate destination. This shall be communicated to both the FCC Waste Assessment team and to the FCC site manager for approval and so that provisions can be made for the transfer of soils to the approved destination. The validation report and any supporting information shall be stored on the STC server.

STC – WI 009 – PROCESS WATER MONITORING

Author:	Andy Clee – Ops Man	Approved By:	Jon Owens – STC Director
Distribution:	Z/QMS/Work Instructions - STC		

Document Changes

Revision No:	Summary of Changes	Date
5	Change in wording	16.12.2022

Definitions and Abbreviations

- VOC – Volatile Organic Compound
- TPH – Total Petroleum Hydrocarbon
- PAH – Polycyclic Aromatic Hydrocarbon
- BTEX – Benzene, Toluene, Ethyl Benzene, Xylene

Introduction

This procedure relates to the monitoring of process water from the biotreatment area and asbestos area (if applicable) at the Soil Treatment Centre (STC). The water treatment system is designed to reduce the concentrations of suspended solids, TPH/BTEX, PAHs and VOCs from from the biotreatment pad and asbestos area (if applicable) prior to discharge.

The standard layout of the water treatment system is provided in Figure 1 and comprise of:

- 54m³ primary settlement tank and transfer pump
- Oil water separator/secondary settlement tank and transfer pump
- Sand/carbon vessels in series
- Water discharge meter
- Discharge sampling point on effluent pipe to foul sewer

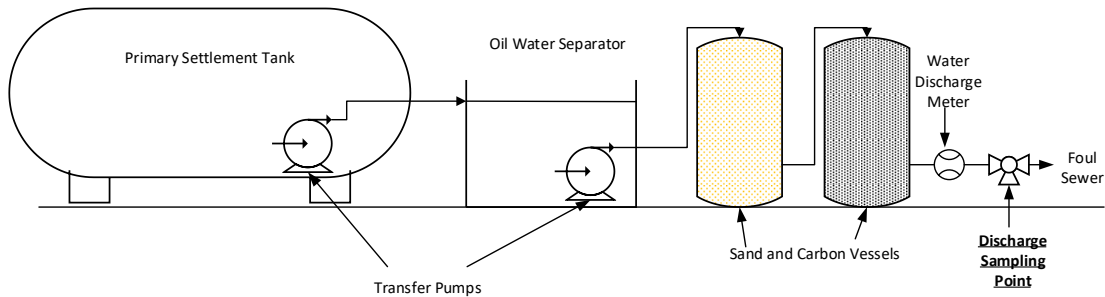


Figure 1. Standard Water Treatment System

Principle of Operation

Air and process water are drawn from the treatment pads, *via* secondary pipes, into a primary pipe. This mixture then enters an air-water separator, where water is separated from the air fraction by gravity. This air fraction is then extracted through a treatment module, and eventually exhausted to the biofilter.

The water is pumped to the primary settlement tank (Figure 1). On the Biotreatment pad and in the asbestos shed (if applicable) there are drainage gullies that intercept water run-off. Water collected in these drainage gullies is pumped directly into the primary settlement tank.

Water in the primary settlement tank is pumped into the oil-water separator/secondary settlement tank and then into the sand/carbon filters. The treated water leaves the carbon vessel and is discharged into foul sewer under consent – this is sometimes via a final holding tank.

Procedure

As part of the quality control system for the STC, Provectus will sample the treated water on a monthly basis to provide analytical results to FCC to pass onto the Environment Agency at the frequency required by the Environmental Permit.

The analysis results are to be compared with the contaminant limits on the discharge consent (Appendix 1) immediately upon receipt by the STC site manager and STC operations manager, with results recorded on the STC server. Any parameters that are found to be close to the discharge consent limits shall result in an action plan being created by Provectus. If any exceedances occur, then the discharge shall be stopped immediately until further investigations/alterations are made to the treatment system as well as additional sampling.

Appendix P Hydrock soil sampling protocol

GEO Field Procedure for Sampling of Asbestos in Soil

Field procedure title	Sampling of Asbestos in Soil		
Document reference	FP004		
Author	Simon Cole		
Revision	0		
Date	21 July 2023	Approved	✓

1. Purpose and Scope

This document describes the standard field procedure used by Hydrock for sampling asbestos in soil, Made Ground or construction and demolition materials which are known to contain asbestos containing materials, and the work is classified as Non-Licensed under the Control of Asbestos Regulations (CAR) 2012. In order to determine the licensing status of the proposed work, a work category risk assessment in accordance with prevailing UK best practice as described by the CL:AIRE/JIWG CAR-SOIL™ guidance¹ should be undertaken and reported in the associated RAMS for this work.

All work must be undertaken in accordance with the requirements of the project-specific health and safety documents, including the Method Statement and Risk Assessment, and the Construction Phase Plan.

The key objectives of sampling are:

- » to obtain samples of material that are representative of conditions encountered; and
- » to minimise the potential release of asbestos fibres during sample collection and handling.

Additional requirements apply relating to equipment, clothing and procedures to avoid cross-contamination when sampling soils containing (or suspected to contain) asbestos. Hydrock provides specific training and more detailed procedures that apply when sampling for asbestos. Please refer to the Project Director or Manager for more information.

This procedure does not cover sampling of material where there is a low potential that asbestos is present but has not been proven (i.e. where normal sampling procedures are appropriate). Nor does it cover procedures for work which is licensed. If the conditions encountered during the works are different to what is anticipated and may form licensed work, then all work must be stopped and the Project Manager notified.

2. Training Requirements

Works described in this procedure should only be completed by field staff and/or subcontractors that have been trained by a competent trainer and their training verified. Staff must hold relevant non-licensed work training prior to undertaking the tasks described in this procedure.

¹ [Asbestos in Soil \(claire.co.uk\)](https://www.claire.co.uk)

3. Selecting Sampling Approach

Soil sampling for suspected or identified asbestos is typically undertaken under two circumstances; firstly, for the assessment of potential land contamination, and secondly, for waste characterisation and classification. The first requires discrete sampling, the second requires composite sampling.

Key considerations:

- » **Sample size.** Laboratories will ordinarily require a 500g to 1kg plastic tub to be filled to enable laboratory analysis. This is ok if only dispersed asbestos fibres, fibre bundles and very small fragments of ACM are present in the material. A different strategy is required if larger ACM fragments are present. Do not pick up a visible piece of ACM, place in the sample tub and then simply fill the remainder of the tub with soil. This will not be a representative of the material/soil being sampled. Where visible fragments are present, follow the sampling protocol published by SoBRA which requires an initially larger 10 litre sample to be visually inspected on site to count, size, and weigh ACM fragments, and then a 500g-1kg sub-sample of the finer material taken for laboratory analysis.
- » **Sample frequency:** For site characterisation purposes, discrete samples can be taken in accordance with a BS10175-compliant sampling plan as per other contaminants. For stockpiled material (of particular relevance for waste characterisation and classification) composite samples should be taken on a minimum frequency as set out [here](#).

4. Standard Procedure

4.1 Planning

Step 1: Confirm sampling plan with the Project Manager.

Step 2: Review available site information and undertake a work category risk assessment to determine the licensing status of the works. Make sure you understand anticipated ground conditions, and likely types and forms of asbestos present. The Field Engineer is responsible for knowing what to expect at the site and being able to recognise and react if unusual/inconsistent conditions are encountered on site.

Step 3: Discuss works with the Project Manager and confirm training needs for task.

Step 4: Establish required method for collection, handling, storage and disposal of asbestos contaminated materials and equipment (as required).

Step 5: Ensure that all arrangements are in place for personal (and environmental if required) monitoring as set out in the RAMS.

Step 6: Confirm decontamination procedure and requirements. Consideration should be given to areas for putting on and removing PPE and RPE, work area set up, use of sheeting for spoil to prevent cross-contamination, and decontamination areas at each sampling location.

Step 7: Make sure all required field equipment is available and in good working order before arriving at site.

4.2 Sampling

Step 8: Walkover survey. The work area should be subject to a walkover survey by someone suitably experienced and trained (if not already carried out). The Plan of Work should be adjusted accordingly if the condition of the land is markedly different to that anticipated.

Step 9: Damping down. For surface / stockpile sampling, if soil is dry and dusty, dampen it with a handheld water mister/sprayer (such as a horticultural 5 litre pump action pressure sprayer) prior to sampling to minimise airborne fibre release. Water should contain a wetting agent (such as biodegradable washing up liquid or Decon90) if amphibole asbestos is (or is suspected of being) present.

If large plant or equipment, such as drilling rigs, or excavators are being used to obtain samples, damping down should be achieved in accordance with the RAMS. This should stipulate the use of hand-held hoses, and/or commercially available air misters that are capable of damping down the entire work area.

Step 10: Sampling. Sampling should be undertaken from material retrieved from a trial pit or sub sampled from a drilling core or taken directly from stockpiled material using a clean stainless-steel trowel whilst wearing appropriate PPE as defined in the RAMS (this should typically include disposable coveralls, nitrile gloves, and respiratory protection with P3 filter [if required]). The samples should be placed in laboratory provided containers suitable for the testing required. Where ACM fragments are observed either at surface or in disturbed soil destined for sampling, these should be carefully picked out and double bagged separately in accordance with HSE EM9. A record should be kept of the estimated area and volume of material to which the ACM was a part of. The fragment should be sent for laboratory analysis in addition to the soil sample.

Step 11: Management of sampling spoil. Spoil should be placed such that it does not contaminate adjacent soil with asbestos. This will only be relevant for evident hotspots of asbestos contamination and should be mitigated by the use of disposable sheeting to hold the spoil temporarily prior to replacement in the ground from where it originated. Spoil should not be allowed to dry out and should be dampened periodically to minimise airborne fibre release if replacement is delayed for any reason.

Step 12: Sample packaging, labelling and storage. All packaging used to transport asbestos containing materials must be designed to reduce the risk of release of asbestos material or asbestos fibres during transit, (e.g. double bagging of samples). Each sample should be photographed and have a written field record of visual observations on characteristics of suspected ACM identified. Soil samples must be labelled such that subsequent handlers of that sample are aware of the potential presence of asbestos in the samples. The laboratory chain of custody form and the sample container should be labelled with "may contain asbestos". Sample cool boxes for courier transport should not be labelled on the outside of the box as containing asbestos. Store samples in accordance with laboratory instructions, and in accordance with HSE EM9 where appropriate.

Step 13: Chain of custody. A chain-of-custody form must be kept with the samples, recording the sample type, sampling time, date and required analysis. This form should also be used to record the handover of the samples. All samples should be transferred by same-day or overnight courier to the laboratory (generally within 24 hours of sampling if volatile chemicals are being tested for) in the sealed insulated cool boxes.

Step 14: Decontamination. Hand sampling equipment should be carefully wiped down with disposable damp cloths as per HSE EM7. If large plant or equipment, as above, are being used to obtain samples, there must be a sufficient procedure in place for decontamination. This should include a dedicated area for jet washing and/or wheel washing. Personal decontamination should be in accordance with NLW training procedure and include removal of disposable clothing (coveralls and gloves) in reverse (i.e. in side out) and P3 dusk masks/respirator with P3 filter, and then cleaning boots using water and a brush. Re-usable RPE should be cleaned with disposable damp cloths and returned to its storage bag/case.

Step 15: Waste handling. All disposable PPE, RPE and sampling waste potentially contaminated with asbestos is to be separated from other uncontaminated wastes and securely bagged, labelled, stored, and disposed of in accordance with HSE EM9.

Step 16: Record of sample location. Photograph sample location and record GPS co-ordinates

4.3 QA/QC Samples

QA/QC samples must be kept with the primary samples while on site and during transport to the laboratory. The only relevant QA/QC sample type for soil sampling is field duplicate. Field duplicate samples should be collected in the same manner and at the same time as the primary samples. The requirement for duplicate samples

Refer to the separate Hydrock Technical Note on sample and laboratory QA/QC.

4.4 Terms and Definitions

AiS: Asbestos in soil (also covers asbestos in Made Ground and construction demolition materials in this context)

Asbestos: Any of six fibrous silicate minerals: chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite regulated under the Control of Asbestos Regulations 2012

Trace: More than 2 fibres detected as per HSG248 method. Practical limit of detection for soil is 0.0001%wt/wt (1mg/kg) = trace. Practical limit of quantification for soil is 0.001%wt/wt (10mg/kg) – may be trace if only occasional/sporadic and random ACMs present based on a suitable and sufficient investigation

ACM: Asbestos containing material (for example asbestos cement sheeting, asbestos insulation board, or asbestos-reinforced plastic or resin)

RAMS: Task-specific risk assessment and method statement. This field procedure can form part of or be the method statement subject to the specific plan of work

HSE EM7: Health and Safety Executive asbestos essentials guidance on using damp rags to clean surfaces of minor asbestos contamination [em7.pdf \(hse.gov.uk\)](#)

HSE EM9: Health and Safety Executive asbestos essentials guidance on disposal of asbestos waste [em9.pdf \(hse.gov.uk\)](#)

PPE: Personal protective equipment

RPE: Respiratory protective equipment

5. References

CL:AIRE, 2016. Control of Asbestos Regulations 2012 - Interpretation for Managing and Working with Asbestos in Soil and Construction and Demolition Materials: Industry guidance. CL:AIRE, London. ISBN 978-1-905046-30-0

6. Records

Photolog

Trial pit log

Borehole log

Laboratory chain of custody

7. Attachments

Attachment 1 – Composite sampling approach for stockpiles

Attachment 2 – Sampling of dusts

8. Revision No.

Rev #	Change Date	Description of Change	Location of Change

ATTACHMENT 1

Composite Sampling Approach for Stockpiles

This approach is based on Appendix D of Environment Agency WM3², ISO 10381-8:2006³, and Environment Agency on-line guidance on disposal of waste to landfill (last updated 29 June 2023)⁴.

EA (2023) outlines the following sampling frequencies for minimum laboratory testing for basic waste characterisation:

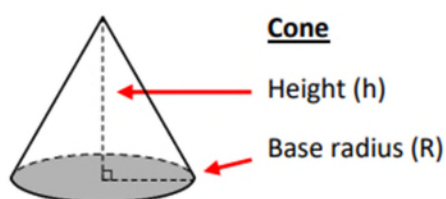
Amount of waste (tonnes)	Homogeneous waste (number of samples)	Heterogeneous and new waste (number of samples)
Less than 100 t	2	5
100 to 500 t	3	8
500 to 1,000 t	5	14
1,000 to 10,000 t	11	22
Plus (per additional) 10,000 t	+5 (pro rata)	+10 (pro rata)

Composite samples should be comprised of 10 incremental samples taken in a systematic pattern across the stockpile. If the laboratory sample size is 1kg, each increment should be 100g. To minimise sample handling it is not advocated that asbestos contaminated soil sample increments are taken as oversize samples and subsequently reduced in volume using cone and quartering to provide the final composite sample for laboratory testing.

Further calculations to determine sample size are not required unless material is particularly coarse in its particle size distribution.

Approximate stockpile volumes can be calculated as follows:

For conical stockpiles:



Formula to calculate the volume of a cone:

$$V = \frac{1}{3} \pi R^2 h$$

Where:

$$V = \text{Volume} \quad \pi = \text{pi (3.14159)}$$

$$R^2 = \text{Radius x Radius} \quad h = \text{Height}$$

² Environment Agency, 2021. Waste Classification. Guidance on the classification and assessment of waste (1st edition v1.2.GB). Technical Guidance WM3, Environment Agency, Bristol, October 2021

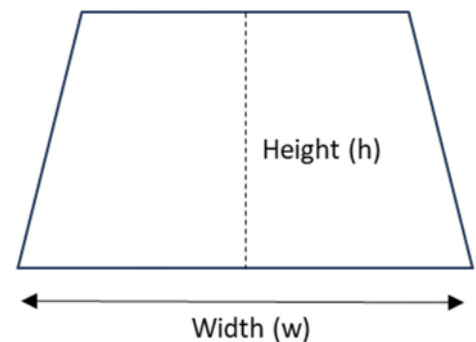
³ ISO 10381-8:2006. Soil Quality – sampling – Part 8: Guidance on sampling of stockpiles.

⁴ [Dispose of waste to landfill - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/dispose-of-waste-to-landfill)

Base diameter (m)	Height (m)				
	1	2	3	4	5
	Volume (m ³)				
2	1	2	3	4	5
3	2	5	7	9	12
4	4	8	13	17	21
5	7	13	20	26	33
10	26	52	79	105	131

For elongated stockpiles:

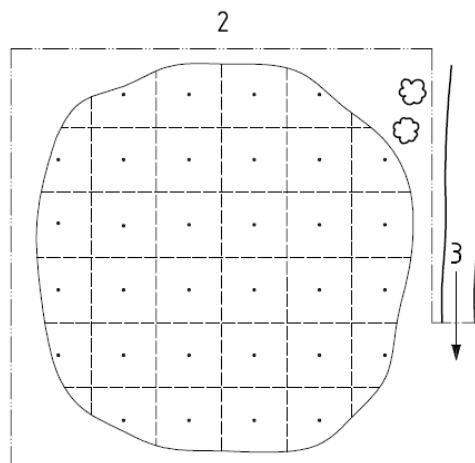
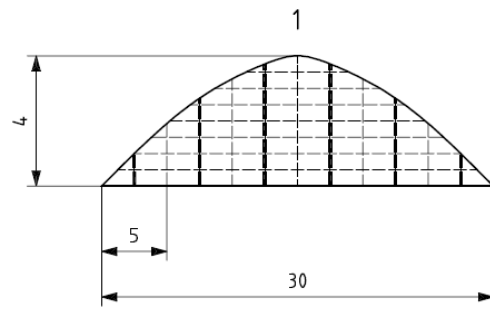
Width (m)	Height (m)				
	1	2	3	4	5
	Volume per unit length (m ³ /m)				
2	1	3	4	5	7
3	2	4	6	8	10
4	3	5	8	11	13
5	3	7	10	13	17
10	7	13	20	27	33



The above calculation assumes the stockpile cross-sectional area is in between that for a triangle and a rectangle (approx. 2/3rds of the latter).

The sampling pattern required (including depth of samples) will be dependent on the size of the stockpile. For small stockpiles, incremental samples can be taken by hand using a hand-held trowel or spade. For larger stockpiles, trial pitting techniques will be required to extract material from sufficient depth within the stockpile.

An example sampling pattern is illustrated below (reproduced from ISO 10381-8:2006 Figure 4 – example of the definition of a systematic sampling pattern on a soil stockpile):



ATTACHMENT 2

Sampling of roadway, track and hardstanding slab dusts

To sample dust deposition on roadways, tracks or hardstanding slabs supplement the procedure outlined for soil sampling with the following:

1. Determine the number of samples required based on the extent of surfacing requiring sampling. Assuming a 0.5mm thickness of dust, a 1 litre sample will require a swept area of 2m².
2. Determine the area of surfacing that will need to be swept to provide the sample size required for laboratory testing. The sample areas should ideally be square areas that can be measured, and surveyed for delineation on a sampling plan.
3. Damping down is critical as the need to sweep the dust using a hand-held brush will inherently generate more dust than comparable soil sampling. Dust surface needs to be very lightly misted using a hand-held sprayer. If too wet the dust will clog in the brush.
4. Use a long-handled brush to collect the dust sample so that the breathing zone of the operative is as far away from the dust surface as possible (i.e. as opposed to using a short-handled dustpan-type brush).
5. Use a dust-pan and brush to collect the brushed dust and fill the required sample container.
6. Thoroughly decontaminate the brushes in between samples using soapy water. Brushes will need to be dried before collecting the next sample to avoid the dust clogging the brush bristles.