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Attention: Liam Clark

CERTIFICATE OF ANALYSIS

Date of report Generation:	16 August 2024
Customer:	PJA Civil Engineering
Sample Delivery Group (SDG):	240809-96
Your Reference:	Swansea Bay Stockpiles
Location:	Swansea Bay University
Report No:	737900
Order Number:	24394

We received 12 samples on Friday August 09, 2024 and 12 of these samples were scheduled for analysis which was completed on Friday August 16, 2024. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Lauren Ellis

General Manager Western Europe Environmental





CERTIFICATE OF ANALYSIS

Validated

SDG: 240809-96
Client Ref.: Swansea Bay Stockpiles

Report Number: 737900
Location: Swansea Bay University

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
30198453	Stockpile E - Sample 03		0.00 - 0.00	07/08/2024
30198459	Stockpile E - Sample 04		0.00 - 0.00	07/08/2024
30198425	Stockpile F - Sample 07		0.00 - 0.00	07/08/2024
30198464	Stockpile G - Sample 03		0.00 - 0.00	07/08/2024
30198470	Stockpile G - Sample 04		0.00 - 0.00	07/08/2024
30198475	Stockpile G - Sample 05		0.00 - 0.00	07/08/2024
30198481	Stockpile G - Sample 06		0.00 - 0.00	07/08/2024
30198486	Stockpile G - Sample 07		0.00 - 0.00	07/08/2024
30198492	Stockpile H - Sample 01		0.00 - 0.00	07/08/2024
30198433	Stockpile H - Sample 02		0.00 - 0.00	07/08/2024
30198441	Stockpile H - Sample 03		0.00 - 0.00	07/08/2024
30198447	Stockpile H - Sample 04		0.00 - 0.00	07/08/2024

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

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SDG: 240809-96

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Superseded Report:

Client Ref.: Swansea Bay Stockpiles

Location: Swansea Bay University

Results Legend



Test



No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)

Customer Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

Asbestos ID in Solid Samples

All

NDPs: 0
Tests: 12

X

X

X

X

X

X

X

EPH CWG GC (S)

All

NDPs: 0
Tests: 12

X

X

X

X

X

X

GRO by GC-FID (S)

All

NDPs: 0
Tests: 12

X

X

X

X

X

X

Hexavalent Chromium (s)

All

NDPs: 0
Tests: 12

X

X

X

X

X

X

Metals in solid samples by OES

All

NDPs: 0
Tests: 12

X

X

X

X

X

X

PAH by GCMS

All

NDPs: 0
Tests: 12

X

X

X

X

X

X

pH

All

NDPs: 0
Tests: 12

X

X

X

X

X

X

Sample description

All

NDPs: 0
Tests: 12

X

X

X

X

X

X

Total Organic Carbon

All

NDPs: 0
Tests: 12

X

X

X

X

X

X

TPH CWG GC (S)

All

NDPs: 0
Tests: 12

X

X

X

X

X

X

VOC MS (S)

All

NDPs: 0
Tests: 12

X

X

X

X

X

X



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Superseded Report:

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm
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Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
30198453	Stockpile E - Sample 03	0.00 - 0.00	Dark Brown	Loamy Sand	Stones	Vegetation
30198459	Stockpile E - Sample 04	0.00 - 0.00	Dark Brown	Loamy Sand	Stones	Vegetation
30198425	Stockpile F - Sample 07	0.00 - 0.00	Dark Brown	Loamy Sand	Stones	Vegetation
30198464	Stockpile G - Sample 03	0.00 - 0.00	Dark Brown	Loamy Sand	Stones	None
30198470	Stockpile G - Sample 04	0.00 - 0.00	Light Brown	Sandy Loam	Stones	Vegetation
30198475	Stockpile G - Sample 05	0.00 - 0.00	Light Brown	Loamy Sand	Stones	Vegetation
30198481	Stockpile G - Sample 06	0.00 - 0.00	Light Brown	Sandy Loam	Stones	Crushed Brick
30198486	Stockpile G - Sample 07	0.00 - 0.00	Light Brown	Loamy Sand	Stones	Vegetation
30198492	Stockpile H - Sample 01	0.00 - 0.00	Dark Brown	Loamy Sand	Stones	None
30198433	Stockpile H - Sample 02	0.00 - 0.00	Dark Brown	Loamy Sand	Stones	Vegetation
30198441	Stockpile H - Sample 03	0.00 - 0.00	Dark Brown	Loamy Sand	Stones	None
30198447	Stockpile H - Sample 04	0.00 - 0.00	Dark Brown	Loamy Sand	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.



Superseded Report:

Location: Swansea Bay University



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Location: Swansea Bay University



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SDG: 240809-96
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Superseded Report:

Asbestos Identification - Solid Samples

Results Legend

ISO17025 accredited.
M mCERTS accredited.
* Subcontracted test.
(F) Trigger breach confirmed
1-5$@ Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Asbestos Actinolite	Asbestos Anthophyllite	Asbestos Tremolite	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile E - Sample 03 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198453 TM048	14/08/24	Ashia Jackson	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile E - Sample 04 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198459 TM048	14/08/24	Ashia Jackson	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile F - Sample 07 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198425 TM048	14/08/24	Ashia Jackson	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile G - Sample 03 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198464 TM048	14/08/24	Ashia Jackson	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile G - Sample 04 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198470 TM048	14/08/24	Danielle Duncan	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile G - Sample 05 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198475 TM048	14/08/24	Danielle Duncan	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile G - Sample 06 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198481 TM048	14/08/24	Ashia Jackson	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile G - Sample 07 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198486 TM048	14/08/24	Danielle Duncan	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



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		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Asbestos Actinolite	Asbestos Anthophyllite	Asbestos Tremolite	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile H - Sample 01 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198492 TM048	14/08/24	Ashia Jackson	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile H - Sample 02 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198433 TM048	14/08/24	Danielle Duncan	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile H - Sample 03 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198441 TM048	14/08/24	Ashia Jackson	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	Stockpile H - Sample 04 0.00 - 0.00 SOLID 07/08/2024 00:00:00 09/08/2024 09:00:00 240809-96 30198447 TM048	14/08/24	Ashia Jackson	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected



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Table of Results - Appendix

Method No	Description
TM414	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID
TM048	Identification of Asbestos in Bulk Material
TM218	The determination of PAH in soil samples by GC-MS
TM089	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM151	Determination of Hexavalent Chromium using Kone analyser
TM181	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
TM116	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



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Test Completion Dates

Lab Sample No(s) Customer Sample Ref.	30198453	30198459	30198425	30198464	30198470	30198475	30198481	30198486	30198492	30198433
	Stockpile E - S sample 03	Stockpile E - S sample 04	Stockpile F - S sample 07	Stockpile G - S sample 03	Stockpile G - S sample 04	Stockpile G - S sample 05	Stockpile G - S sample 06	Stockpile G - S sample 07	Stockpile H - S sample 01	Stockpile H - S sample 02
AGS Ref.										
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Asbestos ID in Solid Samples	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	15-Aug-2024	15-Aug-2024	14-Aug-2024	15-Aug-2024	14-Aug-2024	15-Aug-2024
EPH CWG GC (S)	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024
GRO by GC-FID (S)	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	13-Aug-2024	13-Aug-2024
Hexavalent Chromium (s)	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	14-Aug-2024	14-Aug-2024
Metals in solid samples by OES	16-Aug-2024	15-Aug-2024	16-Aug-2024	16-Aug-2024	16-Aug-2024	16-Aug-2024	16-Aug-2024	16-Aug-2024	15-Aug-2024	15-Aug-2024
PAH by GCMS	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	14-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
pH	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024
Sample description	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	13-Aug-2024	12-Aug-2024	12-Aug-2024
Total Organic Carbon	16-Aug-2024	16-Aug-2024	16-Aug-2024	16-Aug-2024	16-Aug-2024	16-Aug-2024	16-Aug-2024	16-Aug-2024	15-Aug-2024	16-Aug-2024
TPH CWG GC (S)	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024	14-Aug-2024
VOC MS (S)	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024	15-Aug-2024

Lab Sample No(s) Customer Sample Ref.	30198441	30198447
	Stockpile H - S sample 03	Stockpile H - S sample 04
AGS Ref.		
Depth	0.00 - 0.00	0.00 - 0.00
Type	Soil/Solid (S)	Soil/Solid (S)
Asbestos ID in Solid Samples	14-Aug-2024	14-Aug-2024
EPH CWG GC (S)	14-Aug-2024	14-Aug-2024
GRO by GC-FID (S)	14-Aug-2024	13-Aug-2024
Hexavalent Chromium (s)	14-Aug-2024	14-Aug-2024
Metals in solid samples by OES	15-Aug-2024	15-Aug-2024
PAH by GCMS	15-Aug-2024	15-Aug-2024
pH	15-Aug-2024	15-Aug-2024
Sample description	12-Aug-2024	12-Aug-2024
Total Organic Carbon	15-Aug-2024	15-Aug-2024
TPH CWG GC (S)	14-Aug-2024	14-Aug-2024
VOC MS (S)	15-Aug-2024	15-Aug-2024



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Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.