

## **Appendix 9.2 Asbestos Material Investigation, ASM January 2012**

**Asbestos Material Investigation  
Barry Waterfront  
Report Number: A0712/030  
Visual**

**ASM Compliance Ltd  
Hortons House  
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**Premises  
Barry waterfront  
Barry**

**Commissioned By  
Cuddy Group**

## Disclaimer

This consultancy contract was completed by ASM Compliance Ltd. on the basis of a defined programme of work and terms and conditions agreed with the Client. We confirm that in preparing this report we have exercised all reasonable skill and care, bearing in mind the project objectives, the agreed scope of works, prevailing site conditions and the degree of manpower and resources allocated to the project, as agreed.

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This report is issued in confidence to the Client, ASM Compliance Ltd. cannot accept any responsibility to any 3<sup>rd</sup> parties to whom this report may be circulated, in part or in full, and any such parties rely on the contents of the report solely at their own risk.

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Any questions or matters arising from this report may be addressed in the first instance to the Project Manager.

Prepared by	Reviewed by
J Trimble Senior Consultant	P. Morgan Consultant

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## Management Summary

### General Recommendations

All ACMs (asbestos containing materials) identified in this Investigation should be managed to avoid the release of asbestos fibres. The Control of Asbestos Regulations 2012 (CAR) places a legal duty, to implement an Asbestos Management Policy to ensure that the asbestos containing materials are correctly managed. Therefore this report makes the following general recommendations: -

- Where appropriate, make safe any unsafe ACMs identified in this report
- If not already in place institute an Asbestos Management Policy, a suitable Asbestos Management Policy would address the following areas:-
  - Outline Management and staff responsibilities
  - Communications with employees, contractors and others
  - Safe systems of work in areas with asbestos materials present
  - Procedures for regular inspection and monitoring of identified ACMs
  - Emergency procedures for dealing with unplanned/uncontrolled disturbance of ACMs
- Update all existing asbestos information/registers to reflect the findings of this report.

*Further assistance is available from ASM Compliance in preparing a suitable Asbestos Management, based on this report content. If requested the detailed register in this report can be supplied in an updatable form for inclusion in your management plan.*

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## Management Summary

### Summary and Recommendations

This survey is an Asbestos Material investigation of the soil at Barry waterfront

Refer to site schematics for location of trial pits

ASM were initially brought in as a material had been found on the surface of the trial surcharge which had the appearance of sprayed asbestos coating a highly fibrous friable asbestos material. A sample was taken (W-23066 01) of the material and was found to contain Crocidolite asbestos. The area of the surcharge was inspected and a number of pockets of similar asbestos materials were found on the surface. The borrow pit where the material originated was walked through and similar material was found to be present in one area on the surface. The grass area between the surcharge was inspected and a couple of areas of loose flock were found and also a piece of asbestos cement with the flock still attached was present (W23066 02). Insulation debris found to contain amosite asbestos (W23066 05) was found near the work area on the surface of the road from the compound being used by plant. Because of the level of contamination found and no previous information indicating the levels of asbestos contamination a program of initial trial pits was initiated to try to ascertain if the contamination was wide spread or localised to the area found.

Asbestos materials were found in a number of the pits dug a full list can be found in the Results and Detailed Register. In addition to asbestos materials where the fibres are bonded more firmly in the matrix of the material (cement, ropes , gaskets etc) significant pockets of highly friable asbestos materials were found ( insulation, spray coatings). Under the CAR 2012 a risk assessment must be carried, out prior to any works being undertaken, to determine if the potential for exposure is high enough for the works to be classified as Licensed Asbestos Works.

As the materials are highly fibrous and/or of low density, most of the work would need to be carried out on them would require the services of a licensed asbestos contractor. Work of this nature requires written notification to be made to the appropriate enforcing authority 14 days prior to its commencement; in exceptional circumstances the enforcement authority may grant a waiver for emergency works.

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## Management Summary

However work of very short duration and unlikely to generate significant levels of airborne fibres, may not require a licensed contractor. CAR 2012 still requires the work to be fully risk assessed, carried out by suitable trained staff, properly equipped, utilising a documented method statement which aims to minimise the potential exposure.

Asbestos materials were found at differing levels from the surface down to 3.5m.

In addition to the visual samples taken random soil samples were taken to test for asbestos fibres in the soil. Asbestos fibres were present in all samples taken including in areas where no visible asbestos contamination was visible. Due to pockets of high levels of asbestos contamination found in areas when visual inspection was undertaken quantification of asbestos in the soil was not undertaken.

From the results an L shaped area of land highly contaminated with asbestos is seen to be present to the west and south of the rising main. To the west of the Rising main (West Pond area) in the trial pits dug only one piece of asbestos cement was found to be present, no soil samples were taken in the area. Due to the incompleteness of previous information and the limited current investigation in the area it is advised that a more comprehensive systematic program of inspection is introduced of the area to confirm if the area is free from contamination.

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## Introduction and Survey Information

### Survey Specification and Aims

ASM Compliance Ltd., where instructed by D Evans of Cuddy Group to undertake an investigation of the ground at Barry Waterfront. The purpose of Investigation was ascertain if the ground at Barry waterfront was contaminated with asbestos

The Inspection was carried out by Jon Trimble



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## Introduction and Survey Information

### Scope of Survey

As agreed with our client this Inspection was deemed to be for: -

Initial investigation into asbestos contamination at Barry Waterfront.

A program of initial trial pits was initiated to try to ascertain if the contamination was wide spread or localised to the area already found.

Location of trail pits can be found in site Schematics

Areas of the soil were excavated to a depth of 4 meters to look for areas of high contamination as found on the surcharge. The soil was removed slowly with each 1 meter depth of Excavated soil inspected for visual signs of asbestos contamination. Location and description of any suspect materials was recorded and material removed for analysis/disposal.

In addition to the visual samples taken random soil samples were taken to test for asbestos fibres in the soil.

## Detailed Survey Report and Register

### Summary of Asbestos Containing Materials

Trial Hole	Eastings	Northings	Level	Visible asbestos materials	Identification	Result	Soil sample investigation	Amosite	Chrysotile	Crocidolite
1	311062.874	167277.007	1.8m	Spray debris to brick	W-23066-004	Crocidolite	-	-	-	-
2	311048.723	167247.888	1.8m	Cement debris	W-23066-003	Chrysotile	-	-	-	-
			2m	Cement debris	As	Chrysotile	-	-	-	-
3	311038.704	167230.882	1m	Cement debris	W-23066-003	Chrysotile	-	-	-	-
					A0712/030/001	Chrysotile	-	-	-	-
3			1.8m	Cement debris	A0712/030/001	Chrysotile				
3			2.5m	Cement debris	A0712/030/001	Chrysotile				
3			2.5m	Rope	A0712/030/002	Chrysotile	-	-	-	-
3			3m	Gasket debris	A0712/030/003	Chrysotile	-	-	-	-
3			3m	Cement Debris	As	Chrysotile	-	-	-	-
					A0712/030/001	Chrysotile				
4	311015.173	167216.584	1m	Cement debris	A0712/030/004	Chrysotile	5948379		Detected	
4			1.5m	Cement debris	A0712/030/005	Chrysotile	-	-	-	-
4			2m	Cement debris	As	Chrysotile	-	-	-	-
					A0712/030/001	Chrysotile				
4			2.3m	Textile	A0712/030/006	Chrysotile	-	-	-	-
5	311006.403	167232.119	1.3m	Cement debris	As	Chrysotile	5948380		Detected	
					A0712/030/001	Chrysotile				
5			1.5m	Rope	As	Chrysotile	-	-	-	-
					A0712/030/002	Chrysotile				
5			2.0m	Rope	As	Chrysotile	-	-	-	-
					A0712/030/002	Chrysotile				
5			2.3m	Cement Debris	A0712/030/008	Chrysotile	-	-	-	-

## Detailed Survey Report and Register

Trial Hole	Eastings	Northings	Level	Visible asbestos materials	Identification	Result	Soil sample investigation	Amosite	Chrysotile	Crocidolite
5			3.2m	Cement debris	As A0712/030/001	Chrysotile	-	-	-	-
5	311006.403	167232.119	3.2m	Rope	As A0712/030/002	Chrysotile	-	-	-	-
6	310997.24	167246.233	1.4m	Rope	As A0712/030/002	Chrysotile	5948381		Detected	
7	310991.714	167266.659	1.6m	Rope	As A0712/030/002	Chrysotile	5948383	Detected	Detected	
7			2.7m	Rope	As A0712/030/002	Chrysotile	-	-	-	-
7			3.1m	Debris on wood	A0712/030/009	Amosite/ Chrysotile/ Crocidolite	-	-	-	-
8	311012.418	167261.623		None visible			5948384	Detected	Detected	
9	311027.737	167249.723	2.5m	Cement debris	As A0712/030/001	Chrysotile	5948385		Detected	Detected
9				Rope	As A0712/030/002	Chrysotile	-	-	-	-
10	311034.562	167263.145	1.4m	Cement debris	As A0712/030/001	Chrysotile	-	-	-	-
11	311064.303	167195.267		None Visible	-	-	-	-	-	-

## Detailed Survey Report and Register

Trial Hole	Eastings	Northings	Level	Visible asbestos materials	Identification	Result	Soil sample investigation	Amosite	Chrysotile	Crocidolite
12	311049.44	167198.207	3.5m	Significant amounts insulation debris	A0712/030/010	Amosite/ Chrysotile/ Crocidolite	-	-	-	-
13	311036.141	167201.859	-	None visible	-	-	-	-	-	-
14	311011.172	167201.211	-	None visible	-	-	-	-	-	-
15	310993.747	167202.488	-	None visible	-	-	-	-	-	-
16	310969.66	167194.001	3.4m	Insulation within sack	A0712/030/011	Amosite/ Chrysotile/ Crocidolite	-	-	-	-
17	310952.865	167192.636		None visible			-	-	-	-
18	311011.856	167101.75	3m	Rope	As A0712/030/002	Chrysotile	-	-	-	-
19	311014.786	167101.75	2.5m	Rope	As A0712/030/002	Chrysotile	-	-	-	-
20	311010.743	167113.622	-	None Visible	-	-				
21	311014.261	1671390.653	-	None Visible	-	-	5948896		Detected	Detected
22	311011.739	167148.081	-	None Visible	-	-	-	-	-	-
23	311003.93	167161.749	3m	Cement debris	As A0712/030/001	Chrysotile	-	-	-	-
24	311022.132	167163.997	-	None visible	-	-	-	-	-	-
25	311035.09	167166.295	-	None visible	-	-	-	-	-	-

## Detailed Survey Report and Register

Trial Hole	Eastings	Northings	Level	Visible asbestos materials	Identification	Result	Soil sample investigation	Amosite	Chrysotile	Crocidolite
26	311051.843	167166.643	-	-	-	-	-	-	-	-
27	311061.304	167166.336	1.5m	Cement debris	As A0712/030/001	Chrysotile	-	-	-	-
28	310967.671	167046.222	-	None visible	-	-	5948397	Detected	Detected	Detected
29	310984.503	167057.596	-	None visible	-	-	5948398		Detected	
30	310999.076	167059.564	-	None visible	-	-	5948399		Trace	
31	311011.96	167110.904	1m	Rope	As A0712/030/002	Chrysotile	5948400		Detected	
32	311015.308	167101.471	-	None visible	-	-	5948401	Detected	Detected	
33	311024.857	167081.889	-	None visible	-	-	5948402		Detected	
34	311044.699	167073.182	0.5m	Spray debris	As W-23066-001	Crocidolite	5948403		Detected	
35	311081.102	167068.383	-	None visible	-	-	-	-	-	-
36	311092.48	167042.659	-	None visible	-	-	5948406		Detected	
37	311097.402	167016.665	0.5m	Rope	As A0712/030/002	Chrysotile	5948407		Detected	
38	311055.581	167043.519	-	None visible	-	-	5948410		Detected	
39	310973.789	167284.008	-	None visible	-	-	-	-	-	-
40	310963.725	167268.356	-	None visible	-	-	-	-	-	-
51	310860.827	167026.944	2m	Rope	As A0712/030/002	Chrysotile	-	-	-	-
52	310858.475	167017.797	-	None visible	-	-	-	-	-	-
53	310859.433	167010.062	-	None visible	-	-	-	-	-	-
54	310857.706	167002.349	-	None visible	-	-	-	-	-	-
55	310869.736	166979.651	-	None visible	-	-	-	-	-	-
56	310870.439	166965.743	3m	Insulation	A0712/030/012	Amosite/ Chrysotile/ Crocidolite	-	-	-	-

## Detailed Survey Report and Register

Trial Hole	Eastings	Northings	Level	Visible asbestos materials	Identification	Result	Soil sample investigation	Amosite	Chrysotile	Crocidolite
S6			3m	Insulation	A0712/030/013	Amosite/ Chrysotile/ Crocidolite	-	-	-	-
S7	310886.946	166964.006	-	-	-	-	-	-	-	-
S8	310906.053	166971.847	2m	Cement debris	As A0712/030/001	Chrysotile	-	-	-	-
S9	310928.605	166987.252		None visible						
S10	310913.708	167003.136	1.5m	Cement debris	As A0712/030/001	Chrysotile	-	-	-	-
S10			1.5m	Insulation	As A0712/030/013	Amosite/ Chrysotile/ Crocidolite	-	-	-	-
S11	310904.41	167007.742	0.5m	Spray debris	As W-23066-001	Crocidolite	-	-	-	-
S11			0.5m	Rope	As A0712/030/002	Chrysotile	-	-	-	-
S12	310904.644	167000.593	-	None visible						
S13	310952.447	167191.975	-	None visible						
S14	310960.694	167145.278	2.5m	Rope	As A0712/030/002	Chrysotile	-	-	-	-
S15	310985.381	166994.421	-	-						
S16	310989.237	166966.358	2.5m	Rope	As A0712/030/002	Chrysotile	5948388	-	Detected Trace	
S17	311046.593	166940.066	2.5m	Rope	As A0712/030/002	Chrysotile	-	-	-	-
S17			2.5m	Cement debris	As A0712/030/001	Chrysotile	-	-	-	-
S18	311058.048	166975.564	-	-						

## Detailed Survey Report and Register



Trial Hole	Eastings	Northings	Level	Visible asbestos materials	Identification	Result	Soil sample investigation	Amosite	Chrysotile	Crocidolite
S19	311071.014	166990.587	-	None visible	-	-	5948393		Detected	
S20	311071.346	167006.314	-	None visible	-	-	5948395		Detected	
S21	311140.925	166997.462	surface	Insulation debris	W-23066-005	Amosite	-	-	-	-
S21			Surface to 0.5m	Significant amount spray material	A0712/030/015	Amosite/ Chrysotile/ Crocidolite	-	-	-	-
S22	311160.417	166999.517	-	None visible	-	-	-	-	-	-
S23	311196.544	166975.437	-	None visible	-	-	-	-	-	-
S24	311234.582	166950.539	1.1m	Cement debris	As A0712/030/001	Chrysotile	-	-	-	-
S25	311230.964	166975.426	1m	Significant amount Insulation debris	A0712/030/014	Amosite/ Chrysotile/ Crocidolite	-	-	-	-
S26	311233.133	166987.682	-	None Visible	As A0712/030/015	Amosite/ Chrysotile/ Crocidolite	-	-	-	-
S27	311234.048	166998.555	-	None Visible	-	-	-	-	-	-
S28	311218.979	166980.847	-	None Visible	-	-	-	-	-	-
S29	311224.988	167018.132	-	None Visible	-	-	-	-	-	-
S30	311151.747	167033.158	-	None Visible	-	-	-	-	-	-
S31	311144.015	167045.042	-	None Visible	-	-	-	-	-	-
S32	311147.207	167072.21	-	None Visible	-	-	-	-	-	-
S33	31125.818	167125.259	-	None Visible	-	-	-	-	-	-
S34	311162.147	167209.744	-	None Visible	-	-	-	-	-	-
S35	311178.304	167209.744	-	None Visible	-	-	-	-	-	-

## Detailed Survey Report and Register

Trial Hole	Eastings	Northings	Level	Visible asbestos materials	Identification	Result	Soil sample investigation	Amosite	Chrysotile	Crocidolite
S36	311179.73	167250.294	-	None Visible	-	-	-	-	-	-
S37	311168.568	167271.274	-	None Visible	-	-	-	-	-	-
S38	311240.269	167038.677	-	None Visible	-	-	-	-	-	-
S39	311226.736	167035.088	-	None Visible	-	-	-	-	-	-
S40	311238.676	167067.002	-	None Visible	-	-	-	-	-	-
S41	311257.463	167082.662	-	None Visible	-	-	-	-	-	-
S42	311279.144	167109.359	-	None Visible	-	-	-	-	-	-
S43	311326.853	167162.916	-	None Visible	-	-	-	-	-	-
S44	311291.685	167164.689	-	None Visible	-	-	-	-	-	-
S45	311274.944	167213.664	-	None Visible	-	-	-	-	-	-
S46	311260.428	167248.999	-	None Visible	-	-	-	-	-	-
S47	311264.825	167287.327	-	None Visible	-	-	-	-	-	-
S48	311297.084	167292.696	-	None Visible	-	-	-	-	-	-
S49	311317.772	167262.102	-	None Visible	-	-	-	-	-	-
S50	311360.31	167189.588	2m	Cement debris	As A0712/030/001	Chrysotile	-	-	-	-



## Example Photos

<b>Example photos of highly friable/ loose asbestos products found at Barry Waterfront</b>	
	
Loose spray coating on surface of surcharge	Spray coating on ground between trial pit and surcharge
	
Loose asbestos insulation out of pit 12	Bag containing spray material and loose material on plant road to site
<b>Comments</b>	<b>Examples of fibrous materials at Barry Waterfront. Pockets of severe contamination were found in a number of areas of the site</b>
<b>Recommendations</b>	
Under the 2012 Control of Asbestos Regulations most work on this material would usually require a licensed contractor, however any works would have to be risked assessed and the potential fibre release considered before making a final decision	

## Example Photos

### Example photos asbestos products found at Barry Waterfront



Gasket material from pit 3



Rope & textile material pit 3



Cement material pit 3

#### Comments

#### Recommendations

Under the 2012 Control of Asbestos Regulations most work on this material would not usually require a licensed contractor, however any works would have to be risked assessed and the potential fibre release considered before making a final decision

# Appendix I Analysis Certificates

(TOTAL) Pages 11



**BULK SAMPLE ANALYSIS TEST  
CERTIFICATE**

**No: W-23066**



**Client Contact:**  
John Trimble

**Life Environmental Services Ltd Contact:**  
Kevin Williams

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BS2 0RJ

Tel: 0844 856 0668  
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Tel: 0117 955 6009  
Fax: 0117 955 4555

**Site:** Barry Waterfront

**Date Received:** 12/07/2012 Samples taken by David Rolfe (Life Environmental Services Ltd)

No.	Item	Material	Location/Comments	Asbestos Result
01	Flock	Loose Insulation	Surcharge Mound	Crocidolite (Blue)
02	Flock & Asbestos Cement	Loose Insulation	Surcharge Mound	Crocidolite (Blue) Chrysotile (White)
03	Cement Debris	Debris	Pit 01 (1.8m)	Chrysotile (White)
04	Spray Debris	Debris	Pit 01 (1.8m)	Crocidolite (Blue)
05	Insulation Debris	Debris	Within Tyre Tracks	Amosite (Brown)
06	Insulation Debris	Debris	Pit 02 (Within Raised Mound)	No Asbestos Detected

**Analyst's Name:** James Bolt

**Signature:**

**Test Date:** 19/07/2012

**Life Environmental Services**

*The natural choice for environmental compliance and risk management solutions*

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## **BULK SAMPLE ANALYSIS TEST** **CERTIFICATE**

No: **W-23066**



### **TEST NOTES:**

1. Samples submitted for examination have been analysed to determine the presence of asbestos fibres using the methods documented in the HSG248: The Analyst Guide for Sampling, Analysis and Clearance Procedures & in house procedures in section 11 of the Quality Manual.
2. Samples in this test report have been analysed at our Bristol Laboratory. Please note the material description is outside the scope of our UKAS accreditation.
3. This test report shall not be reproduced or copied without the written approval of Life Environmental Services Limited.
4. Opinion and interpretations are outside the scope of accreditation and are not included within this test report.
5. Samples taken by Life Environmental Services Ltd are in accordance with the HSG 248: The Analyst Guide for Sampling, Analysis and Clearance Procedures and HSG 264.
6. Life Environmental Services Ltd is not responsible for sampling errors where they have not taken the sample.
7. Life Environmental Services do not carry out wet sample preparation involving acids when performing fibre identification in the mobile laboratory only.

**TEST CERTIFICATES ISSUED UNDER HEAD OFFICE UKAS ACCREDITATION No. 0610**

### **Life Environmental Services**

***The natural choice for environmental compliance and risk management solutions***

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Quayside Bus. Park  
Francis House  
George Mann Way  
Hunslet,  
Leeds  
LS10 1DJ

Tel: 0113 271 8534  
Fax: 0113 270 5599

**SDG:** 120727-72  
**Job:** H\_ASMCOM\_LLAN-1  
**Client Reference:**  
**Location:** The Quays, Barry Waterfront

**Customer:** ASM Compliance Ltd  
**Attention:** Mark Williams  
**Order No.:**

## Asbestos Identification - Soil

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	21 NS Z  SOLID  120727-72 5948396 TM048	8/8/12	Kevin Bowron	Loose fibres in soil	Not Detected	Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	33 NS Z  SOLID  120727-72 5948402 TM048	8/8/12	Kevin Bowron	Loose fibres in soil	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	34 NS Z  SOLID  120727-72 5948403 TM048	8/8/12	Kevin Bowron	Loose fibres in soil	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	36 NS Z  SOLID  120727-72 5948406 TM048	8/8/12	Kevin Bowron	Loose fibres in soil	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	PIT 9 NS Z  SOLID  120727-72 5948385 TM048	8/8/12	Kevin Bowron	Soil containing loose fibres & ACM debris	Not Detected	Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected

**SDG:** 120727-72  
**Job:** H\_ASMCOM\_LLAN-1  
**Client Reference:**  
**Location:** The Quays, Barry Waterfront

**Customer:** ASM Compliance Ltd  
**Attention:** Mark Williams  
**Order No.:**

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	S 15 NS Z  SOLID  120727-72 5948387 TM048	8/8/12	Kevin Bowron	Loose fibres in soil	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	S 16 NS Z  SOLID  120727-72 5948388 TM048	8/8/12	Kevin Bowron	Loose fibres in soil	Not Detected	Trace	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	S 18 NS Z  SOLID  120727-72 5948391 TM048	8/8/12	Kevin Bowron	Loose fibres in soil	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	S 19 NS Z  SOLID  120727-72 5948393 TM048	8/8/12	Kevin Bowron	Soil containing loose fibres and ACM debris	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	S 20 NS Z  SOLID  120727-72 5948395 TM048	8/8/12	Kevin Bowron	Loose fibres in soil	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Preliminary

# ALcontrol Laboratories Analytical Services

**SDG:** 120727-72  
**Job:** H\_ASMCOM\_LLAN-1  
**Client Reference:**  
**Location:** The Quays, Barry Waterfront

**Customer:** ASM Compliance Ltd  
**Attention:** Mark Williams  
**Order No.:**

## Asbestos Identification - Soil

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Customer Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	32 NS Z  SOLID  120727-72 5948401 TM048	8/8/12	Lauren Sargeant	Soil containing ACM debris	Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected





CERTIFICATE FOR IDENTIFICATION OF ASBESTOS FIBRES

STANDARD	<input type="checkbox"/>
PREMIUM	<input type="checkbox"/>
EMERGENCY	<input type="checkbox"/>

Client:	ASM COMPLIANCE LTD
Address:	HORTON HOUSE HORTONS YARD LLANDARCY SA10 6EN
Attention:	JON TRIMBLE BARRY WATERFRONT
Site Address:	
Date sample taken:	UNKNOWN
Date sample received:	25/07/12
Date of Analysis:	25/07/12

Analysis Report No.	SCO/12/22782
Report Date.	25/07/12
Site Ref No.	N/A
Page No:	1 Of 1
No. of Samples:	7
Obtained:	DELIVERED

Samples of material, referenced below, have been examined to determine the presence of asbestos fibres, using Scopes Asbestos Analysis "in house" method of transmitted/polarised light microscopy and centre stop dispersion staining, based on HSE's HSG248. If samples have been DELIVERED the site address and actual sample location is as given by the client at the time of delivery. Scopes Asbestos Analysis Services Limited are not responsible for the accuracy or competence of the sampling by third parties. Under these circumstances Scopes Asbestos Analysis Services Limited cannot be held responsible for the interpretation of the results shown.

SCOPE SAMPLE	CLIENT SAMPLE No.	Sample Location	Fibre Type Detected
1	A0712/030/009	PIT 12- DEBRIS ON WOOD	AMOSITE/ CHRYSOTILE/ CROCIDOLITE
2	A0712/030/010	PIT 12- INSULATING DEBRIS	AMOSITE/ CHRYSOTILE/ CROCIDOLITE
3	A0712/030/011	PIT 16- INSULATING IN BLANKET	AMOSITE/ CHRYSOTILE/ CROCIDOLITE
4	A0712/030/012	PIT 56- INSULATING	AMOSITE/ CHRYSOTILE/ CROCIDOLITE
5	A0712/030/013	PIT 56- INSULATING	AMOSITE/ CHRYSOTILE/ CROCIDOLITE
6	A0712/030/014	PIT S25- INSULATING	AMOSITE/ CHRYSOTILE/ CROCIDOLITE
7	A0712/030/015	PIT S21- SPRAY INSULATION	CROCIDOLITE

KEY: NADIS - No Asbestos Detected in Sample

Note: All samples will be retained for a minimum of six months.

Note: This Certificate for Identification of Asbestos Fibres shall not be reproduced except in full without the written approval of the Laboratory.

Analysed by:	W. JEFFERIES	Authorised signatory:	
		Print name:	S BOLTON- Q.C.M

BULK 001-VER 5 12-AUGUST-09-QCM



CERTIFICATE FOR IDENTIFICATION OF ASBESTOS FIBRES

STANDARD	<input type="checkbox"/>
PREMIUM	<input type="checkbox"/>
EMERGENCY	<input type="checkbox"/>

Client:	ASM COMPLIANCE LTD
Address:	HORTON HOUSE HORTONS YARD LLANDARCY SA10 6EN
Attention:	JON TRIMBLE BARRY WATERFRONT
Site Address:	
Date sample taken:	UNKNOWN
Date sample received:	25/07/12
Date of Analysis:	25/07/12

Analysis Report No.	SCO/12/22660
Report Date.	25/07/12
Site Ref No.	N/A
Page No:	1 Of 1
No. of Samples:	6
Obtained:	DELIVERED

Samples of material, referenced below, have been examined to determine the presence of asbestos fibres, using Scopes Asbestos Analysis "in house" method of transmitted/polarised light microscopy and centre stop dispersion staining, based on HSE's HSG248. If samples have been DELIVERED the site address and actual sample location is as given by the client at the time of delivery. Scopes Asbestos Analysis Services Limited are not responsible for the accuracy or competence of the sampling by third parties. Under these circumstances Scopes Asbestos Analysis Services Limited cannot be held responsible for the interpretation of the results shown.

SCOPE SAMPLE	CLIENT SAMPLE No.	Sample Location	Fibre Type Detected
1	A0712/030/001	PIT 3- CEMENT	CHRYBOTILE
2	A0712/030/002	PIT 3- ROPE	CHRYBOTILE
3	A0712/030/003	PIT 3- GASKET	CHRYBOTILE
4	A0712/030/004	PIT 4- CEMENT	CHRYBOTILE
5	A0712/030/005	PIT 4- CEMENT	CHRYBOTILE
6	A0712/030/006	PIT 4- TEXTILE	CHRYBOTILE

KEY: NADIS - No Asbestos Detected in Sample  
 Note: All samples will be retained for a minimum of six months.  
 Note: This Certificate for Identification of Asbestos Fibres shall not be reproduced except in full without the written approval of the Laboratory.

Analysed by:	J. BARNETT	Authorised signatory:	
		Print name:	S BOLTON- Q.C.M

BULK 001-VER 5 12-AUGUST-09-QCM



CERTIFICATE FOR IDENTIFICATION OF ASBESTOS FIBRES

STANDARD	<input type="checkbox"/>
PREMIUM	<input type="checkbox"/>
EMERGENCY	<input type="checkbox"/>

Client:	ASM COMPLIANCE LTD
Address:	HORTON HOUSE HORTONS YARD LLANDARCY SA10 6EN
Attention:	JON TRIMBLE BARRY WATERFRONT
Site Address:	
Date sample taken:	UNKNOWN
Date sample received:	25/07/12
Date of Analysis:	25/07/12

Analysis Report No.	SCO/12/22757
Report Date.	25/07/12
Site Ref No.	N/A
Page No:	1 Of 1
No. of Samples:	2
Obtained:	DELIVERED

Samples of material, referenced below, have been examined to determine the presence of asbestos fibres, using Scopes Asbestos Analysis "in house" method of transmitted/polarised light microscopy and centre stop dispersion staining, based on HSE's HSG248. If samples have been DELIVERED the site address and actual sample location is as given by the client at the time of delivery. Scopes Asbestos Analysis Services Limited are not responsible for the accuracy or competence of the sampling by third parties. Under these circumstances Scopes Asbestos Analysis Services Limited cannot be held responsible for the interpretation of the results shown.

SCOPE SAMPLE	CLIENT SAMPLE No.	Sample Location	Fibre Type Detected
1	A0712/0301/07	PIT 4 – DEBRIS ON BRICK	NADIS
2	A0712/0301/08	PIT 5 – CEMENT WITH POSSIBLE SPRAY ON	CHRYBOTILE

KEY: NADIS - No Asbestos Detected in Sample  
 Note: All samples will be retained for a minimum of six months.  
 Note: This Certificate for Identification of Asbestos Fibres shall not be reproduced except in full without the written approval of the Laboratory.

Analysed by:	M ZHOU	Authorised signatory:	
		Print name:	S BOLTON- Q.C.M

BULK 001-VER 5 12-AUGUST-09-QCM

## Appendix II Site Schematics

(TOTAL) Pages 1

# Appendix II Site Schematics

