

**Client:** DCC Housing Services  
64 Brighton Road  
Rhyl  
Denbighshire  
LL18 3HP

**Surveyor:** [REDACTED]  
**Date of Survey:** 12 January 2009  
**Report Reference:** CH/9/2/112/MP  
**Date of Report:** 09 February 2009  
**Purpose of Survey:** Type 2  
Compliance with  
The Control of Asbestos  
Regulations 2006.

**Report on Survey of Asbestos Materials  
at**

**48 Clawdd Poncen  
Corwen  
Denbighshire**



**Note**

APEC Environmental holds UKAS inspection body accreditation to ISO 17020 in relation to surveying for asbestos in premises and also testing accreditation to ISO 17025 for sampling and analysis of suspect asbestos-containing materials. Copies of in-house methods employed during surveying, bulk sampling and analysis are available upon request, along with our UKAS accreditation schedules.

## 1.0 SURVEY RESULTS

Site: 48 Clawdd Poncen, Corwen, Denbighshire

Date of survey: 12 January 2009

## 1.1 Asbestos Register

| Location<br>(refer to plan) | Material description   | Sample Numbers               | Asbestos Type <sup>4</sup>     | Quantity <sup>1</sup> | Accessibility <sup>6</sup> | Condition | Risk Assessment Scores <sup>2,5</sup> |   |    |    |       | Summary Recommendations               | Re-inspection Frequency <sup>3</sup> |
|-----------------------------|--|------------------------------|--------------------------------|-----------------------|----------------------------|-----------|---------------------------------------|---|----|----|-------|---------------------------------------|--------------------------------------|
|                             |  |                              |                                |                       |                            |           | M                                     | D | ST | AT | Total |                                       |                                      |
| External                    | Soffits - Insulation board                                     | 9/1/B/12/GB7                 | Amosite                        | Through out           | Medium                     | Fair      | 2                                     | 1 | 1  | 2  | 6     | Manage & Review<br>(See Section 1.3)  | 6 Months                             |
|                             | Redundant flue & elbow to garden - Cement                      | 9/1/B/12/GB8                 | Chrysotile                     | 3.5LM                 | High                       | Fair      | 1                                     | 1 | 1  | 1  | 4     | Remove & Dispose<br>(See Section 1.3) | -                                    |
|                             | Damp proof course - Bitumen                                    | 9/1/B/12/GB9                 | No Asbestos Detected           | -                     | -                          | -         | -                                     | - | -  | -  | -     | -                                     | -                                    |
|                             | Bitumen on flat roof to front of property                      | 9/1/B/12/GB10                | No Asbestos Detected           | -                     | -                          | -         | -                                     | - | -  | -  | -     | -                                     | -                                    |
|                             | Canopy over front door - Insulation board (as soffits)         | Refer to Sample 9/1/B/12/GB7 | Amosite (Strongly Presumed)    | 1.5m <sup>2</sup>     | High                       | Fair      | 2                                     | 1 | 1  | 2  | 6     | Manage & Review<br>(See Section 1.3)  | 6 Months                             |
| G.01<br>Front Hall          | Floor - Vinyl floor tiles and bitumen adhesive                 | 9/1/B/12/GB1                 | Chrysotile                     | 3m <sup>2</sup>       | High                       | Good      | 1                                     | 0 | 0  | 1  | 2     | Manage & Review<br>(See Section 1.3)  | 12 Months                            |
| G.02<br>Living Room         | Ceiling - Textured coating                                     | 9/1/B/12/GB2                 | Chrysotile                     | 21m <sup>2</sup>      | High                       | Good      | 1                                     | 0 | 0  | 1  | 2     | Manage & Review<br>(See Section 1.3)  | 12 Months                            |
|                             | Floor - Vinyl floor tiles and bitumen adhesive (as Front Hall) | Refer to Sample 9/1/B/12/GB1 | Chrysotile (Strongly Presumed) | 21m <sup>2</sup>      | High                       | Good      | 1                                     | 0 | 0  | 1  | 2     | Manage & Review<br>(See Section 1.3)  | 12 Months                            |

## Notes:-

- 1) Quantity is expressed as area (m<sup>2</sup>), volume (m<sup>3</sup>), length (m) or number of items as appropriate. All quantities given are approximate.
- 2) Risk category is as defined in Section 5 of this report, and is based on the risk material risk assessment algorithm detailed in MDHS100
- 3) Re-inspection frequency is the suggested maximum period at which asbestos-containing materials are re-inspected by a suitably competent person
- 4) Refer to bulk sample analysis record.
- 5) Abbreviations - M = Product Type, D = Damage, ST = Surface Treatment, AT = Asbestos Type
- 6) Low - difficult to reach, Medium - some effort required to reach (ladder etc), High - within easy reach

## 1.0 SURVEY RESULTS

Site: 48 Clawdd Poncen, Corven, Denbighshire

Date of survey: 12 January 2009

## 1.1 Asbestos Register

| Location<br>(refer to plan) | Material description   | Sample Numbers               | Asbestos Type <sup>4</sup>      | Quantity <sup>1</sup> | Accessibility <sup>6</sup> | Condition | Risk Assessment Scores <sup>2,5</sup> |   |    |    |       | Summary Recommendations            | Re-inspection Frequency <sup>3</sup> |
|-----------------------------|--|------------------------------|---------------------------------|-----------------------|----------------------------|-----------|---------------------------------------|---|----|----|-------|------------------------------------|--------------------------------------|
|                             |  |                              |                                 |                       |                            |           | M                                     | D | ST | AT | Total |                                    |                                      |
| G.03<br>Kitchen             | Floor - Vinyl floor tiles and bitumen adhesive (as Front Hall) | Refer to Sample 9/1/B/12/GB1 | Chrysotile (Strongly Presumed)  | 9m <sup>2</sup>       | High                       | Good      | 1                                     | 0 | 0  | 1  | 2     | Manage & Review (See Section 1.3)  | 12 Months                            |
|                             | Ceiling - Textured coating (as G.02 Living Room)               | Refer to Sample 9/1/B/12/GB2 | Chrysotile (Strongly Presumed)  | 9m <sup>2</sup>       | High                       | Good      | 1                                     | 0 | 0  | 1  | 2     | Manage & Review (See Section 1.3)  | 12 Months                            |
|                             | Sink - Bitumen pad   | 9/1/B/12/GB3                 | No Asbestos Detected            | -                     | -                          | -         | -                                     | - | -  | -  | -     | -                                  | -                                    |
| G.04<br>Utility Room        | Ceiling - Textured coating (as G.02 Living Room)               | Refer to Sample 9/1/B/12/GB2 | Chrysotile (Strongly Presumed)  | 8m <sup>2</sup>       | High                       | Good      | 1                                     | 0 | 0  | 1  | 2     | Manage & Review (See Section 1.3)  | 12 Months                            |
| G.05<br>Heater Cupboard     | Ceiling - Insulating board                                     | 9/1/B/12/GB4                 | Amosite                         | 1m <sup>2</sup>       | High                       | Very Poor | 2                                     | 3 | 2  | 2  | 10    | Remove & Dispose (See Section 1.3) | -                                    |
|                             | Door - Panel to door (insulation board) (as ceiling)           | Refer to Sample 9/1/B/12/GB4 | Amosite (Strongly Presumed)     | 2m <sup>2</sup>       | High                       | Fair      | 2                                     | 2 | 1  | 2  | 6     | Remove & Dispose (See Section 1.3) | -                                    |
| I.01<br>Bedroom             | Ceiling - Fibreboard   | 9/1/B/12/GB5                 | No Asbestos Detected            | -                     | -                          | -         | -                                     | - | -  | -  | -     | -                                  | -                                    |
| I.02<br>Bedroom             | Ceiling - Fibreboard (as I.01 Bedroom)                         | Refer to Sample 9/1/B/12/GB5 | No Asbestos Detected (Presumed) | -                     | -                          | -         | -                                     | - | -  | -  | -     | -                                  | -                                    |

## Notes:-

- 1) Quantity is expressed as area (m<sup>2</sup>), volume (m<sup>3</sup>), length (m) or number of items as appropriate. All quantities given are approximate.
- 2) Risk category is as defined in Section 5 of this report, and is based on the risk material risk assessment algorithm detailed in MDHS100
- 3) Re-inspection frequency is the suggested maximum period at which asbestos-containing materials are re-inspected by a suitably competent person
- 4) Refer to bulk sample analysis record.
- 5) Abbreviations – M = Product Type, D = Damage, ST = Surface Treatment, AT = Asbestos Type
- 6) Low – difficult to reach, Medium – some effort required to reach (ladder etc), High – within easy reach

**1.0 SURVEY RESULTS**

Site: 48 Clawdd Poncen, Corwen, Denbighshire

Date of survey: 12 January 2009

**1.1 Asbestos Register**

| Location<br>(refer to<br>plan) | Material description                      | Sample Numbers                  | Asbestos<br>Type <sup>3</sup>         | Quantity <sup>1</sup> | Accessibility <sup>6</sup> | Condition | Risk Assessment Scores <sup>2,5</sup> |   |    |    |       | Summary Recommendations | Re-<br>inspection<br>Frequency <sup>3</sup> |
|--------------------------------|---|---------------------------------|---------------------------------------|-----------------------|----------------------------|-----------|---------------------------------------|---|----|----|-------|-------------------------|---|
|                                |   |                                 |                                       |                       |                            |           | M                                     | D | ST | AT | Total |                         |   |
| 1.03<br>Bedroom                | Ceiling - Fibreboard<br>(as 1.01 Bedroom) | Refer to Sample<br>9/1/B/12/GB5 | No Asbestos<br>Detected<br>(Presumed) | -                     | -                          | -         | -                                     | - | -  | -  | -     | -                       | -   |
| 1.04<br>Bathroom               | Ceiling - Fibreboard<br>(as 1.01 Bedroom) | Refer to Sample<br>9/1/B/12/GB5 | No Asbestos<br>Detected<br>(Presumed) | -                     | -                          | -         | -                                     | - | -  | -  | -     | -                       | -   |
| 1.05<br>Boiler<br>Cupboard     | Ceiling - Fibreboard<br>(as 1.01 Bedroom) | Refer to Sample<br>9/1/B/12/GB5 | No Asbestos<br>Detected<br>(Presumed) | -                     | -                          | -         | -                                     | - | -  | -  | -     | -                       | -   |
| 1.06<br>Landing                | Ceiling - Fibreboard<br>(as 1.01 Bedroom) | Refer to Sample<br>9/1/B/12/GB5 | No Asbestos<br>Detected<br>(Presumed) | -                     | -                          | -         | -                                     | - | -  | -  | -     | -                       | -   |
| 2.01<br>Roof<br>Space          | Floor - Redundant paper<br>packing        | 9/1/B/12/GB6                    | No Asbestos<br>Detected               | -                     | -                          | -         | -                                     | - | -  | -  | -     | -                       | -   |

**Notes:-**

- 1) Quantity is expressed as area (m<sup>2</sup>), volume (m<sup>3</sup>), length (m) or number of items as appropriate. All quantities given are approximate.
- 2) Risk category is as defined in Section 5 of this report, and is based on the risk material risk assessment algorithm detailed in MDHS100
- 3) Re-inspection frequency is the suggested maximum period at which asbestos-containing materials are re-inspected by a suitably competent person
- 4) Refer to bulk sample analysis record.
- 5) Abbreviations – M = Product Type, D = Damage, ST = Surface Treatment, AT = Asbestos Type
- 6) Low – difficult to reach, Medium – some effort required to reach (ladder etc), High – within easy reach

## 1.2 Areas Not Accessed

### 1.2.1 It is considered that all areas were been adequately accessed, with exception to the following;

| Location/Item                                       | Reason for non-access                               |
|---|---|
| 1.04 Bathroom – Vertical Timber Boxing<br>Electrics | Intrusive access required<br>Live at time of survey |

No internal access was made to partition walls, internal to doors, concealed bulkheads or risers unless a Type 3 survey was instructed. For safety reasons, access above suspended ceilings and to high level was limited to those areas that could be reasonably accessed from stepladders available on site, or those carried by our surveyors. Access was only made to high level, roof, loft areas and ducts provided that suitable access and walkways are available or two surveyors are present.

Where a room, area or item of equipment is identified as not accessed, it should be presumed that ACM's might be present unless observations made elsewhere in this report indicate otherwise.

### 1.2.2 Electrical Services

Wall mounted fuse boxes and various other electrical items of equipment may be present within the building. It was assumed that all such equipment was live at the time of survey and therefore only visual inspection was made of these items, unless it could be verified that the equipment was disconnected.

It should be noted that it is not uncommon to find asbestos-containing materials within electrical equipment. Such items include arc shield panels and gasket seals to electrical equipment doors etc., as well as woven asbestos arc shields below individual fuses in fuse boxes.

### 1.3 RECOMMENDATIONS

Recommendations made within this report and in the register are based primarily on the condition, type, location and extent of the material, as well as the considered observations of the surveyor carrying out the survey. All recommendations should be regarded as a minimum precaution, and additional remedial measures or complete asbestos removal should also be considered.

- **Asbestos based vinyl floor tiles and bitumen adhesive.**

Sample No: 9/1/B/12/GB1.

Sample Location: G.01 (Front Hall) – Floor.

(Refer to Section 1.1 for other locations).

This material is in a fair condition and is unlikely to generate airborne asbestos fibre during normal occupation and provided undisturbed. We would recommend that this material is managed and periodically re-inspected as required by **The Control of Asbestos Regulations 2006**. This material should remain undisturbed and any future remedial or removal works undertaken only by suitably trained personnel, working under the guidance of a safe working procedure and in accordance with the requirements of **The Control of Asbestos Regulations 2006** and **The Hazardous Waste Regulations 2005**.

\*Note that due to the nature / characteristics of the adhesive material, if any future remedial or removal works are undertaken, the **Vinyl Floor Tiles / Covering** to which the adhesive is in contact with should also be treated as an Asbestos containing material and removed and disposed of accordingly, working under the guidance of a safe working procedure and in accordance with the requirements of **The Control of Asbestos Regulations 2006** and **The Hazardous Waste Regulations 2005**.

- **Asbestos based textured coating to ceiling.**

Sample No: 9/1/B/12/GB2.

Sample Location: G.02 (Living Room) – Ceiling.

(Refer to Section 1.1 for other locations).

These materials are in a good condition and are unlikely to generate airborne asbestos fibre during normal occupation and provided undisturbed. We would recommend that these materials are managed and periodically re-inspected as required by **The Control of Asbestos Regulations 2006**. These materials should remain undisturbed and any future remedial or removal works undertaken only by suitably trained personnel, working under the guidance of a safe working procedure and in accordance with the requirements of **The Control of Asbestos Regulations 2006** and **The Hazardous Waste Regulations 2005**.

If these materials are likely to be disturbed during the Refurbishment Works then they should be removed and disposed of prior to these works commencing by suitably trained personnel, working under the guidance of a safe working procedure and in accordance with the requirements of **The Control of Asbestos Regulations 2006** and **The Hazardous Waste Regulations 2005**.

- **Asbestos based insulation board to heater cupboard.**

Sample No: 9/1/B/12/GB4.

Sample Location: G.05 (Heater Cupboard) – Ceiling & door panel.

(Refer to Section 1.1 for other locations).

These materials are in a poor condition, therefore are likely to generate airborne asbestos fibre if disturbed. We would recommend that these materials are either removed completely, or repaired and encapsulated to provide a greater level of protection / prevention of fibre release at the earliest possible opportunity. We would also recommend that these materials are managed and periodically re-inspected as required by **The Control of Asbestos Regulations 2006**. These materials should remain undisturbed and any future remedial or removal works undertaken only by suitably trained personnel, working under the guidance of a safe working procedure and in accordance with the requirements of **The Control of Asbestos Regulations 2006** and **The Hazardous Waste Regulations 2005**.

If these materials are likely to be disturbed during the Refurbishment Works then they should be removed and disposed of prior to these works commencing by suitably trained personnel, working under the guidance of a safe working procedure and in accordance with the requirements of **The Control of Asbestos Regulations 2006** and **The Hazardous Waste Regulations 2005**.

**14 Days Notification must be given to The Health and Safety Executive prior to any works being carried out to these materials.**

- **Asbestos based insulation board soffits.**

Sample No: 9/1/B/12/GB7.

Sample Location: Exterior.

(Refer to Section 1.1 for other locations).

These materials are encapsulated, in a fair condition and are unlikely to generate airborne asbestos fibre during normal occupation and provided undisturbed. We would recommend that these materials are managed and periodically re-inspected as required by **The Control of Asbestos Regulations 2006**. These materials should remain undisturbed and any future remedial or removal works undertaken only by suitably trained personnel, working under the guidance of a safe working procedure and in accordance with the requirements of **The Control of Asbestos Regulations 2006** and **The Hazardous Waste Regulations 2005**.

If these materials are likely to be disturbed during the Refurbishment Works then they should be removed and disposed of prior to these works commencing by suitably trained personnel, working under the guidance of a safe working procedure and in accordance with the requirements of **The Control of Asbestos Regulations 2006** and **The Hazardous Waste Regulations 2005**.

**14 Days Notification must be given to The Health and Safety Executive prior to any works being carried out to these materials.**

- **Asbestos based cement.**

Sample No: 9/1/B/12/GB8.

Sample Location: Exterior - Redundant cement flue & elbow in garden.

These materials are in a poor condition and could cause fibre release if disturbed. These materials should be removed and disposed of by suitably trained personnel, working under the guidance of a safe working procedure and in accordance with the requirements of **The Control of Asbestos Regulations 2006** and **The Hazardous Waste (England and Wales) (Amendment) Regulations 2009**

#### **Additional Recommendations**

As noted, other asbestos materials may be present that could not be accessed within the remit of this survey. Care should be taken during any works in areas identified as not accessible, with any additional suspect materials identified for subsequent analysis.

We would recommend that all asbestos removal or remedial works and disposal of asbestos materials indicated, should be undertaken only by suitably trained personnel, working under the guidance of a safe working procedure and in accordance with the requirements of the **Control of Asbestos at Work Regulations, 2002** and **Schedule 3 of The Hazardous Waste Regulations 2005**. In particular, all remedial and removal works to ACM's covered by the requirements of the **Asbestos Licensing Regulations** should only be undertaken by a licensed asbestos removal contractor.



## 2.0 RISK ASSESSMENTS AND PRIORITISATION SYSTEM

### 2.1 Material Risk Assessment

The risk assessments for asbestos materials identified in this survey in this survey are included in the asbestos register.

The material risk is based on that established in MDHS 100, and is based on allocation of points, relating to the condition, surface treatment, material type, and asbestos content of the material, using an algorithm pro-forma. This risk assessment relates to the **material** only, and an additional **priority** assessment (see below), should be allocated to accommodate the likely use of the area and the potential for disturbance to the material. The material risk assessment point scores are based on the following examples;

| Sample variable                | Score | Examples  |
|--------------------------------|-------|---|
| Product Type                   | 1     | Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, decorative finishes, asbestos cement etc). |
|                                | 2     | Asbestos insulating board, mill boards, paper cardboard and felts, asbestos textiles, gaskets and ropes.                                |
|                                | 3     | Thermal insulation, sprayed asbestos, loose fill asbestos, packing and mattresses   |
| Extent of Damage/Deterioration | 0     | Good condition, no visible damage.  |
|                                | 1     | Low damage, surface scratches or marks, broken edges on boards.   |
|                                | 2     | Medium damage, significant breakage of materials, or several small damaged areas revealing visible fibre.                               |
|                                | 3     | High damage or delamination of materials with visible fibre and debris  |
| Surface Treatment              | 0     | Asbestos reinforced composites, plastics, vinyls etc.   |
|                                | 1     | <i>Enclosed</i> sprays and laggings, painted or encapsulated AIB and asbestos cement  |
|                                | 2     | Unsealed AIB or <i>encapsulated</i> lagging or sprays   |
|                                | 3     | Unsealed lagging or spray asbestos  |
| Asbestos Type                  | 1     | Chrysotile  |
|                                | 2     | Amphibole asbestos types excluding Crocidolite  |
|                                | 3     | Crocidolite   |

More complete guidance on the application of material risk assessment may be found in MDHS 100

### 2.2 Management Assessment

In addition to the above material assessment, as part of the management plan, a risk assessment should be carried out which should take into account the location of the material, its extent, the use of the location, occupancy, work activities and likelihood/frequency of maintenance activities.

*Comment on the extent and location of the materials is recorded in the asbestos register (Section 4). However, we do not consider we are able to accurately provide information on the other aspects of the risk assessment, and the Client should establish this information as part of the Management Plan.*

Recommendations made within this report and in the register are based primarily on the condition, type, location and extent of the material.

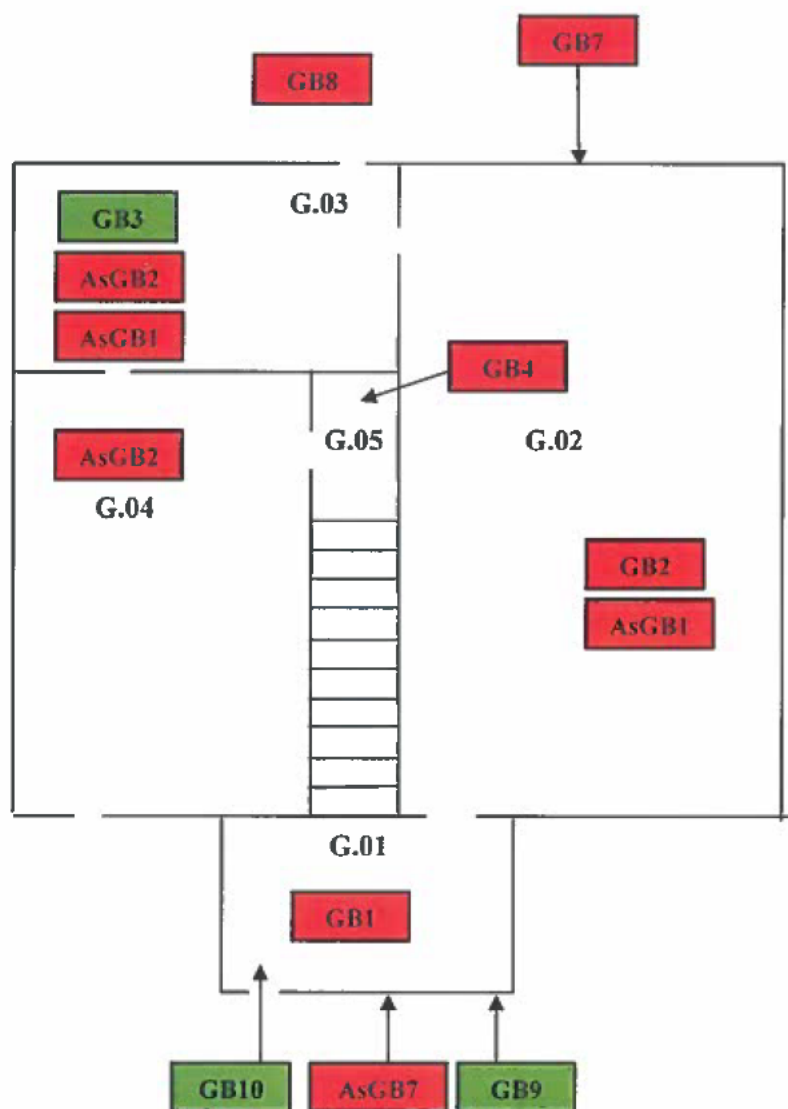
### **2.3 Type 3 (Demolition) Surveys**

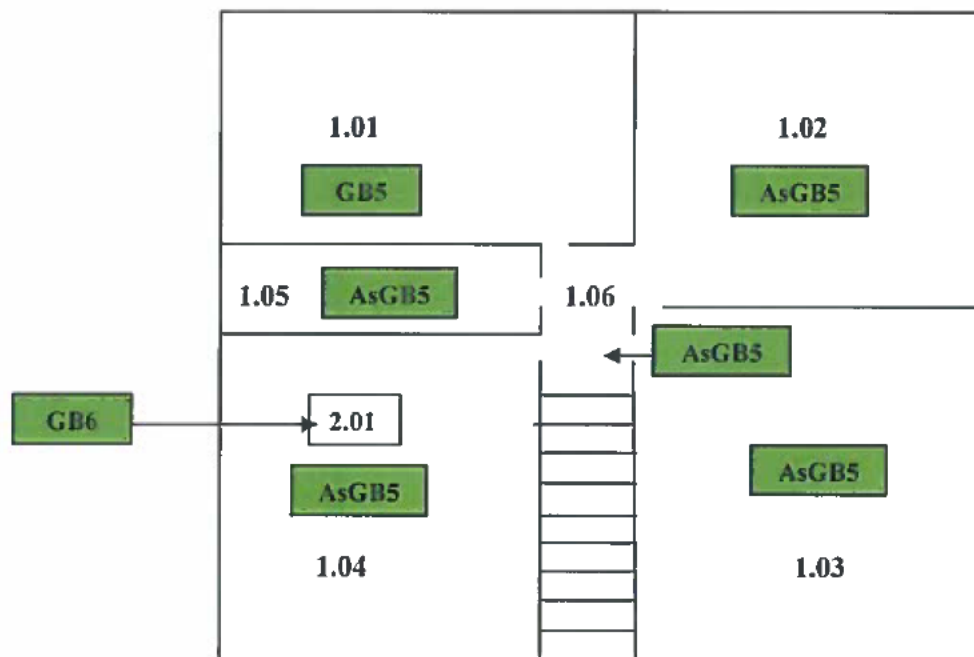
Where a Type 3 survey has been carried out prior to demolition of an unoccupied property, all asbestos materials identified should be removed prior to or as part of the demolition process. In such instance, recommendations may be made for the purposes of operatives entering the property and are indicated in the asbestos register of this report, although no risk assessment is undertaken unless specifically requested by the client.

**Site Plan for: 48 Clawdd Poncen****Key to Site Plans.**

Asbestos containing samples

None asbestos containing samples

**Ground Floor****Not To Scale**

**First Floor****Not To Scale**

### 3.0 Statement of Conformity

#### 3.1 Compliance

This survey was carried out by the undersigned lead surveyor, and is considered to be an accurate representation of the condition of accessible ACM's encountered at the time the survey was carried out.

Signed:



Name (print)



Position: Surveyor

Date: 4<sup>th</sup> March 2009

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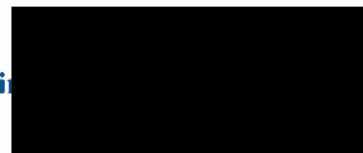
The content of this report and the recommendations made herein have been checked by the undersigned authorised person, and are considered to be in line with current APEC Environmental company policy and guidance issued by the Health and Safety Executive.

All results and observations made are considered to be correct at the time of survey. APEC Environmental Ltd cannot accept any responsibility for subsequent deterioration of asbestos-containing materials, or failure on behalf of the client to act on recommendations made in this report.

Sign



Name (print)



Position: OPS MANAGER

Date: 12/3/09

#### 3.1 Confidentiality

The content of this report is deemed to be in confidence between APEC Environmental Ltd and the instructing client. APEC will not release additional copies of this report to other parties without written permission from the client or his representative.

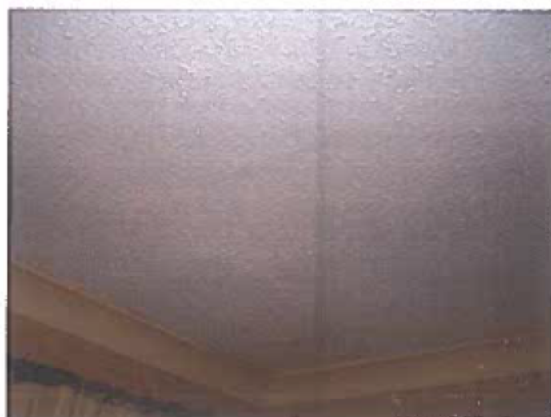
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### Photographs



Sample No: 9/1/B/12/GB1.  
G.01 – Front Hall.

Asbestos based vinyl floor tiles & bitumen adhesive.



Sample No: 9/1/B/12/GB2.  
G.02 – Living Room.

Asbestos based textured coating to ceiling.



Sample No: 9/1/B/12/GB4.  
G.05 – Heater Cupboard.

Asbestos based insulation board forming ceiling.



Sample No: 9/1/B/12/GB7.  
Exterior.

Asbestos based insulating board forming soffits.



Sample No: 9/1/B/12/GB8.  
Exterior. Asbestos based redundant cement flue & elbow in garden.

09 February 2009

DCC Housing Services  
64 Brighton Road  
Rhyl  
Denbighshire  
LL18 3HP

FOR THE ATTENTION OF: [REDACTED]

### CONFIRMATION OF ANALYSIS

**DOCUMENT NUMBER:** CH/9/2/111/MP

**SITE ADDRESS:** 48 Clawdd Poncen, Corwen, Denbighshire

**SITE LOCATION:** Type 2 Survey

**SAMPLES TAKEN BY APEC:** [REDACTED]

**ON:** 12 January 2009

**DATE CLIENT SAMPLES RECEIVED:** N/A

**SAMPLES ANALYSED BY:** [REDACTED]

**ON:** 01 February 2009

| Sample Number | Sample Location and Description                            | Asbestos Content          |
|---------------|--|---------------------------|
| 9/1/B/12/GB1  | G.01 – Front Hall<br>Vinyl floor tiles & bitumen adhesive  | Chrysotile<br>*(See Note) |
| 9/1/B/12/GB2  | G.02 – Living Room<br>Textured coating to ceiling          | Chrysotile                |
| 9/1/B/12/GB3  | G.03 – Kitchen<br>Bitumen pad to sink                      | No Asbestos Detected      |
| 9/1/B/12/GB4  | G.05 – Heater Cupboard<br>Insulation board forming ceiling | Amosite                   |
| 9/1/B/12/GB5  | 1.01 – Bedroom<br>Fibreboard ceiling panels                | No Asbestos Detected      |
| 9/1/B/12/GB6  | 2.01 – Roof Space<br>Redundant roll of paper packing       | No Asbestos Detected      |

APEC environmental limited

**DOCUMENT NUMBER:** CH/9/2/111/MP

**SITE ADDRESS:** 48 Clawdd Poncen, Corwen, Denbighshire

**SITE LOCATION:** Type 2 Survey

**SAMPLES TAKEN BY APEC:** [REDACTED]

**ON:** 12 January 2009

**DATE CLIENT SAMPLES RECEIVED:** N/A

**SAMPLES ANALYSED BY:** [REDACTED]

**ON:** 01 February 2009

| Sample Number | Sample Location and Description                            | Asbestos Content     |
|---------------|--|----------------------|
| 9/1/B/12/GB7  | Exterior<br>Insulating board forming soffits               | Amosite              |
| 9/1/B/12/GB8  | Exterior<br>Redundant cement flue & elbow<br>In garden     | Chrysotile           |
| 9/1/B/12/GB9  | Exterior<br>Bitumen damp proof course                      | No Asbestos Detected |
| 9/1/B/12/GB10 | Exterior<br>Bitumen flat felt roof to front of<br>property | No Asbestos Detected |



## NOTES

If asbestos is present in the material which the sample represents, and if this material is to be removed or otherwise disturbed, then safety precautions must be taken in accordance with the Control of Asbestos Regulations 2006 and amendments, in addition to relevant Health and Safety Executive (HSE) Codes of Practice.

Chrysotile – **WHITE** asbestos

Amosite - **BROWN** asbestos

Crocidolite – **BLUE** asbestos

Other less common types of asbestos are fibrous **actinolite, anthophyllite and tremolite**, which for legislative purposes must be treated similar to amosite.

Estimates of concentration are outside the scope of our UKAS Accreditation and the method of analysis employed. However, further guidance on typical percentages of asbestos used in various products is available within MDHS 100, published by the HSE.

## Method of Analysis

The bulk samples were analysed using documented in house methods based upon HSG 248 – Asbestos: The analysts' guide for sampling, analysis and clearance procedures, as published by the HSE.

Samples are subjected to initial stereo microscope examination to determine the presence of fibre, accompanied by mechanical and / or chemical treatment to release fibres from the sample matrix. Fibres are then analysed using polarised light microscopy techniques, including central stop dispersion staining, to confirm asbestos type.

## Clients' Samples


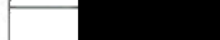
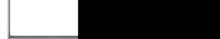
Where clients have provided their own samples of bulk materials, APEC is not responsible for such sampling, nor for the consequences of inaccurate results or conclusions based on these samples.

\*Note: Present in bitumen adhesive.

On behalf of APEC Environmental Limited

SIGNED



|  |  |
|--|--|
|  | - Operations Director                                      |
|  | - Asbestos Survey Manager /<br>Assistant Technical Manager |
|  | - Administration Manager                                   |