

Phoenix Environmental Safety Ltd.

AIR MONITORING REPORT

**Client: Cavan County Council,
Cavan Courthouse, Farnham Street, Abbeyland, Cavan**

**Location: Erne Palais Ballroom,
Holborn Hill, Belturbet, Co. Cavan**

Date of Tests: 25th September 2018

Report No. PE18-756



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AIR MONITORING

A measured volume of air is drawn through a membrane filter, which is subsequently mounted on a microscope slide and rendered transparent. Fibres on a measured area of filter are counted using phase contrast microscopy (PCM), and the number concentration of fibres in the air calculated.

REASSURANCE AND BACKGROUND AIR MONITORING

The sampling strategy employed in the above locations will usually be the same as in clearance indicator sampling. To achieve the limit of detection (0.01 f/ml), each sample must result from a total of at least 480 litres in volume. The distribution of samples should cover likely sources of fibre and likely areas of frequent human occupation.

SCOPE AND LIMITATIONS

200 graticule areas must be inspected on samples of the minimum of 480 litre volume. Countable fibres are defined as particles with length $>5 \mu\text{m}$, width $<3 \mu\text{m}$ and aspect ratio (length: width ratio) $>3:1$.

Fibre discrimination is not permitted using PCM. PCM cannot be used on its own to distinguish unambiguously between different fibre types.

REFERENCES:

HSG 248 (The analysts guide for sampling, analysis and clearance procedure) 2005

SITE LAYOUT:



Location of fire damaged Erne Palais Ballroom

AIR MONITORING LOCATIONS



AIR MONITORING LOCATIONS: X DATE: 25th SEPTEMBER 2018. WEATHER CONDITIONS: DRY & CLOUDY. 12°. SSW WIND 17 KM/H. GUSTS OF 22 KM/H

AIR MONITORING LOCATIONS



Area X1



Area X2



Area X3



Area X4



Area X5



Area X6



Area X7



Area X8

AIR MONITORING REPORT



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AIR MONITORING REPORT

REPORT NO:	PE18-756	DATE OF TESTS:	25 th September 2018	DATE OF REPORT:	25 th September 2018
CLIENT DETAILS:	Cavan County Council, Cavan Courthouse, Farnham Street, Abbeyland, Cavan				
LOCATION OF MONITORING:	Erne Palais Ballroom, Holborn Hill, Belturbet, Co. Cavan				

INSTRUMENT & SITE DETAIL

THERMOMETER	N/A	SITE TEMPERATURE (°C)	12°	TEST STATUS	Background
BAROMETER	N/A	PRESSURE AT SITE (KPA)	N/A	NUMBER OF PUMPS	8
FLOWMETER	PE-FM-03	EXPOSED FILTER DIAMETER (MM)	22	APPROX AREA (M ²)	Open areas
HSE/NPL TEST SLIDE	PE-TS-04	TEST SLIDE RESULT (GRID NO.)	5 th Band visible	SAMPLED BY	John Hickey
STAGE MICROMETER	PE-SM-04	GRATICULE DIAMETER (µm)	100	COUNTED BY	John Hickey
MICROSCOPE	PE-PCM-06	CENTRED PHASE ANNULI. & CONDSR.	Yes	ANALYSIS LOCATION	Base Laboratory

TEST RESULTS

Sample Ref.	Pump & Cowl	Sample Location	Start Time (hh.mm)	End Time (hh.mm)	Run Time (Mins.)	Start Flow (Ltrs/min)	End Flow (Ltrs/min)	Volume (Litres)	Fields Counted	Fibres Counted	Concentration Fibres/ml.
756-01-01	18-62	Area X1.	12:17	13:44	87 min	10 ltrs/min	10 ltrs/min	870 ltrs	200	2	<0.01
756-01-02	20-53	Area X2.	12:18	13:45	87 min	10 ltrs/min	10 ltrs/min	870 ltrs	200	0	<0.01
756-01-03	17-25	Area X3.	12:19	13:46	87 min	10 ltrs/min	10 ltrs/min	870 ltrs	200	2	<0.01
756-01-04	19-03	Area X4.	12:21	13:46	85 min	10 ltrs/min	10 ltrs/min	850 ltrs	200	3	<0.01
756-01-05	17-26	Area X5.	12:24	13:47	83 min	10 ltrs/min	10 ltrs/min	830 ltrs	200	1	<0.01
756-01-06	43-14	Area X6.	12:35	13:50	75 min	10 ltrs/min	10 ltrs/min	750 ltrs	200	0	<0.01
756-01-07	48-48	Area X7.	12:36	13:52	76 min	10 ltrs/min	10 ltrs/min	760 ltrs	200	0	<0.01
756-01-08	15-44	Area X8.	12:38	13:52	74 min	10 ltrs/min	10 ltrs/min	740 ltrs	200	1	<0.01

COMMENTS: Air monitoring carried out in areas adjacent to the Erne Palais Ballroom. The purpose of the air monitoring was to check the ambient air for the presence of airborne asbestos following a recent fire the Erne Palais Ballroom. The recent fire completely engulfed the corrugated asbestos cement roof on the property which caused fragments of asbestos cement debris to spread downwind to adjacent areas.

WEATHER CONDITIONS: Dry & cloudy. 12°. SSW wind 17 km/h. Gusts of 22 km/h.

RESULTS: All air monitoring results are satisfactory

DATE OF ANALYSIS	25 th September 2018	ANALYST	<i>John Hickey</i>
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