



Client

**GRAHAM**

**Location:**

Birmingham, West Midlands



**Products Used:**



MONITEX®  
Monitoring  
Solutions

## Dust, noise and vibration monitoring keeps patients safe and redevelopment on track at Birmingham Children's Hospital

### Project Overview

Birmingham Children's Hospital provides specialist paediatric centre, caring for sick children and young people up to the age of 16. They are a global centre of excellence for complex heart conditions, the treatment of burns, cancer and liver and kidney disease.

The hospital was due to undergo extensive redevelopment works which included demolishing existing hospital buildings whilst the rest of the hospital remained live.

### Challenge

GRAHAM was tasked with carrying out redevelopment works and had to plan carefully to navigate works around a live hospital environment. GRAHAM's top priority was protecting workers, patients and hospital staff from potential health hazards that could arise as the project progressed.

GRAHAM identified that with the scope of works planned and equipment that would be used for demolition, that dust, noise and vibration could be a serious health hazard and would require measuring at every stage.

Minimising disruption was a high priority, because if works disrupted usual operations, the consequences could be severe. For example, migration and inhalation of hazardous airborne contaminants such as dust could be life threatening to patients, especially those immunocompromised.

## The solution used:

### 1 MONITEX® Dust Monitor

- Real-time measurements of PM10, PM2.5, PM1 or TSP dust particles
- Measures and reports data in 1 minute intervals
- Rugged weatherproof enclosure
- Quick set up and relocation

### 2 MONITEX® Noise Monitor

- IEC 61672 class 1 (Class 2 option)
- Automatic upload & display of data
- Plug & play - connect power & your system is running
- Weather data logged automatically with your sound level data.

### 3 MONITEX® Vibration Monitor

- An industry leading 5 month battery life
- Remote control of monitors with online access and analysis
- Automatic alerts via text & email
- Easy to use with one-button operation

## Solution

RVT Group supplied GRAHAM with 2 stands, each one housing a MONITEX® Dust, Noise and Vibration monitor. By strategically locating these on the project dust, noise and vibrations were measured successfully. Placing the monitors next to doors in the live environment meant they measured the real impact from nearby works without being needlessly invasive for hospital staff and patients.

As the monitors record statistics in real-time and only alert when pre-set parameters are breached, there was little requirement for manual intervention once installed. Due to the sensitive environment that works took place in, it is not surprising that the measurements were reviewed a number of times to ensure GRAHAM kept on top of specific activities which required additional planning and care whilst underway.

With the GRAHAM team being able to rely on the measurements provided by the monitors supplied by RVT Group, it meant that site teams were able to focus on the job at hand, safe in the knowledge they would be alerted should reactive hazard controls be required.

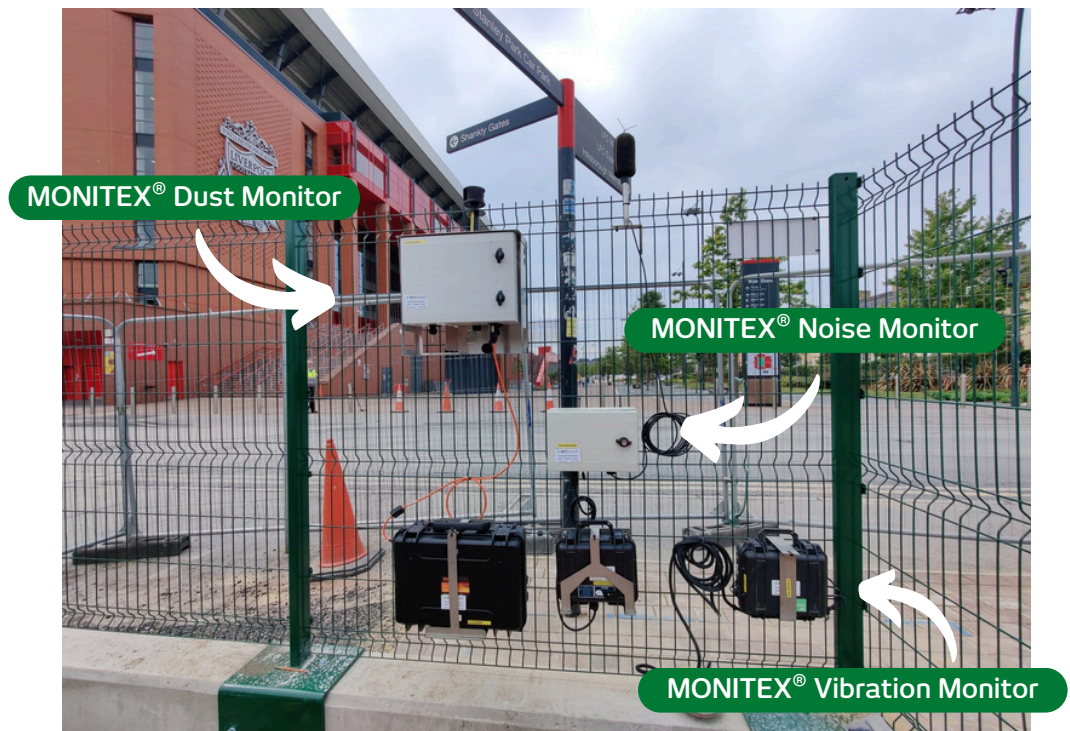


Image used for illustration purposes only, not from the Birmingham Children's Hospital Project

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The service you provided to monitor the dust, noise and vibration on such a sensitive healthcare project was excellent, the live system gave us evidenced reassurance that we were maintaining a dust-free environment.

*Regional SHE Advisor, GRAHAM*

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