

Case Study — Water Extraction Mains 02

Synthotech's Water Extraction System for live gas mains responds to "root cause" helping get pupils back to school & supplies restored to 400 properties.

The facts

- 6" main supplying gas to secondary school with 1400 pupils, & 400 other properties.
- Tree root breaks into water main which fractures adjacent gas main, filling it with water & cutting the supply to the school & properties. School closed & 400 homes without gas.
- Alan Taylor unit deployed immediately to remove 22,000 litres of water.
- New Synthotech Water Extraction System launched to simultaneously locate & extract over 600 litres of water from low points.
- Water Extraction System located & removed water from the supply to the school, allowing it to re-open promptly.
- Works carried out in January 2016.



The Water Extraction System solution

- Access to the main via standard drilling system, under live gas conditions.
- System surveyed 240m along the main, simultaneously locating & extracting over 600 litres of water, via 4 entry excavations.
- System also located additional 250 litres of water for removal by Alan Taylor unit.
- To achieve the same volume of water extraction using just the Alan Taylor unit would have required an additional 6 to 8 excavations.



The detail

- The key to success was being able to continuously extract water whilst carrying out the CCTV survey, all under live gas conditions.
- The combination of removing water from localised areas enabled the operative to identify & clear the supply to the school.
- Savings in excess of £1,200 based on 6 excavations at £200 each.



+44 (0) 1423 816 060

INNOVATIVE ENGINEERING

WWW.SYNTHOTECH.COM