

# CASE STUDY

**PROJECT: FORMER WHITTINGHAM HOSPITAL**

**LOCATION: PRESTON**

**VALUE: £150K**

## BACKGROUND

Whittingham Hospital, near Preston in Lancashire, treated thousands of psychiatric patients every year and had its own railway, brewery and sewage works.



*Former Whittingham Hospital site, before and after demolition*

The main hospital closed in 1995, and following several unsuccessful attempts to promote development, the site was purchased by Homes England in 2005.

A Tibbalds Campbell Reith JV was appointed by Homes England in December 2017 to develop a new masterplan for the site; the current proposal is for 750 homes to be built in four phases.

Harrison Group was awarded the ground investigation contract by the Tibbalds Campbell Reith JV in order to assess ground conditions and contamination risk beneath demolished buildings and parts of the site deemed to present potential risk, that had been identified during previous investigations. These included historic landfills, areas of soft ground and asbestos containing material from the hospital buildings.

## SCOPE OF WORK

Harrison Group acted as the Principal Contractor for the ground investigation works, which due to the size of the site included over 200 exploratory locations.

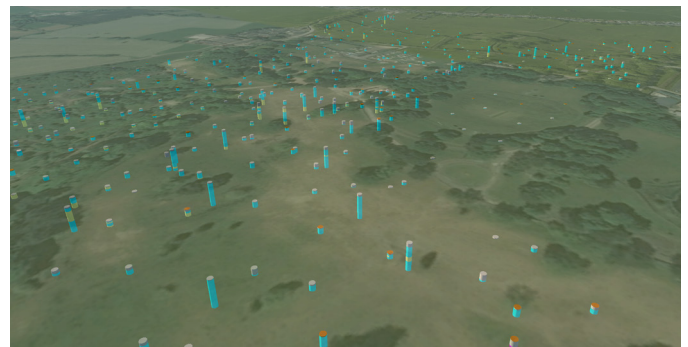
Investigations included almost 50 boreholes, drilled using cable percussive and dynamic continuous sampling methods, in excess of 150 machine and hand-excavated trial pits, extensive sampling and in-situ testing and installation of monitoring wells.

Post-intrusive works included comprehensive gas and groundwater sampling, chemical and geotechnical testing and the production of a GIR.



*Artist impression of completed development*

In addition to the large quantity of data collected through the investigation, the company were also asked to convert historic investigation records and reports into AGS format, to allow production of a more detailed ground model and to enhance data assessment.



*3D data stick representation*

The historic data included an additional 200 exploratory locations across 4 different investigation phases. The data also included over 10000 chemical analysis results and numerous geotechnical test reports in paper format, which were digitised and converted to AGS data format.

The large volume of data created, enabled us to compile detailed 3D models of the geology, contaminants and geotechnical properties, using our award-winning data management team.