



CAUSEWAY
— GEOTECH



Project 15-1179

A14 CAMBRIDGE TO HUNTINGDON IMPROVEMENT SCHEME



CLIENT

A14IDT (Balfour Beatty/ Carillion
/ Costain / Skanska JV)



CLIENT REPRESENTATIVE

ACJV (Atkins / CH2M)



SITE OPERATIONS

May - Nov 2016, June 2017,
Sept - Oct 2017

Project 16-0676

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PROJECT OVERVIEW

Causeway Geotech were appointed by A14IDT to carry out the Ground Investigation for the proposed bypass road between Huntingdon and Cambridge. The scheme covers a total of 35km and the investigation was scoped to provide assessment of geo-environmental conditions to assist the design and construction of the highway and associated structures.

OUR APPROACH

- **158 Cable Percussion boreholes** to a maximum depth of 20m.
- **83 Rotary cored holes** using Geobor-S techniques to a maximum depth of 55m.
- **43 Dynamic sampling boreholes** to a maximum depth of 10m.
- **3 Light Percussion boreholes** with rotary follow on utilising a slope climbing rig to a max depth of 25m.
- Static Cone Penetration Testing (CPTs) at **4 locations**.
- **87 Trial pits** with a mechanical excavator to 4.5m depth.
- **Monitoring installations** inc. standpipes, gas monitor wells, piezometers and triple vibrating wire piezometers installed using cement bentonite grout.
- **Site monitoring** of water levels and gas concentrations, PID headspace readings, interface probe readings and VWP downloads.
- **Specialist surveys** including Laser Induced Fluorescence (LIF) and sampling for suspected anthrax.

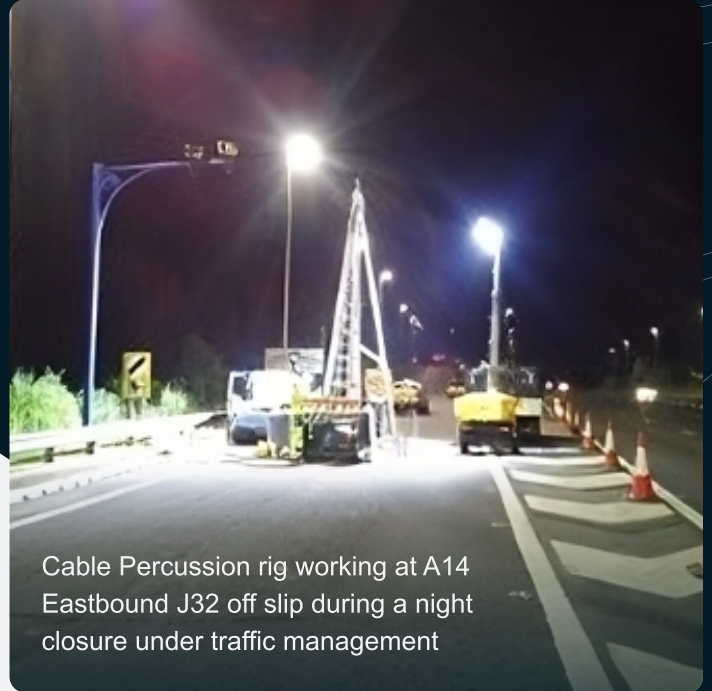


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Drilling works underway at the banks of the Great Ouse



Cable Percussion rig working at A14 Eastbound J32 off slip during a night closure under traffic management

THE PROCESS

The works were carried out across a variety of terrain including agricultural land, parkland, river banks, existing structures, carparks, existing road verges and carriageways under control of Traffic Management on day and night shift.

The investigation was successfully completed under the supervision of a Chartered Engineer and five Site Engineers from Causeway Geotech working closely with the Client's Representative and A14IDT.