



## CASE STUDY : IVER SUBSTATION

### The Project

We were contracted by South Eastern Electricity Substation Alliance (SEESA) to undertake work at National Grid's Iver Substation, located off the M25.

All site operatives held the relevant training for working on Electricity Alliance projects including Competent Persons, Persons, BESC, HSG47 and CSCS.

### The Challenge

The presence of a man-made earth bund to the north of the site where a proposed Super Grid Transformer was to be constructed meant that a conventional drilling rig could not be used. In addition, the base of the mound consisted of gravels.

The site proved more challenging due to highly sensitive ecology and hazards on site: newts, badgers and Japanese Knotweed.

### The Solution

Borehole drilling on top of the steep-sided earth bund meant that our unique slope climbing rotary rig was the ideal candidate for the task. Cable percussive holes were formed at the base of the bund using a shell & auger rig.

The high quality dynamic samples from the bund allowed for the detailed makeup to be assessed and suitable chemical samples to be taken for waste categorization.

GEL performed CBR in-situ tests to determine the bearing capacity of the ground in specific locations.

Whilst undertaking the works, GEL staff liaised with the onsite ecologist to ensure the sensitive nature of the area was not compromised. Wheels and tracks of equipment were cleaned prior to leaving site each day to prevent the spread of the highly invasive Knotweed.

### Project Overview

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**Project Name:**

Iver Substation

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**Project Type:**

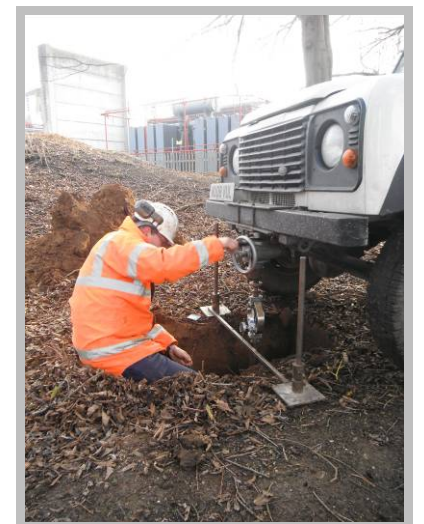
Ground Investigation

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**Client Name:**

SEESA

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