

# CASE STUDY

## EAST LONDON



### CPT READY FOR ITS CLOSE-UP

Lankelma's video cone provided crucial insight on an investigation in east London just before Christmas, allowing engineers to get a closer look at a potential geological 'anomaly' beneath a Victorian sewer.

Lankelma deployed the video cone in the soft silts beneath the sewer, to depths of up to 15 m or until the underlying River Terrace Gravels were reached.

Pushed into the ground at 0.5 cm/s using standard CPT equipment, the video cone has a camera, plus LEDs to adjust the light intensity, sitting behind a glass window. Progress can be viewed live on a monitor in the CPT truck, with the facility to record certain layers or the entire test if necessary.

"The image allows particles such as shells and sand grains to be distinguished easily and small voids and gas bubbles to be visible," Lankelma Engineer Emma Stickland explained.

PROJECT SPECIFICATION	
LOCATION	East London
DATE OF WORKS	August – December 2014
TESTING UNDERTAKEN	CPT Videocone
RIG	UK8

"The recording software is also being upgraded in 2015 to include a graticule that will allow grain size comparison to be carried out on-screen.

"The video cone can gather additional data for building a ground model, when used in combination with other CPT techniques. It can also be used to establish reliable soil contamination transport models by mapping floating layers such as petrol and diesel, as well as sinking layers, such as creosote oil and chloroethenes".

