

CASE STUDY

WEMBLEY PARK



PROJECT SPECIFICATION	
LOCATION	Wembley Park, London
CLIENT	Harrison Group
DATE OF WORKS	October 2014
TESTING UNDERTAKEN	CPT Magnetometer Pressuremeter
RIG	UK15

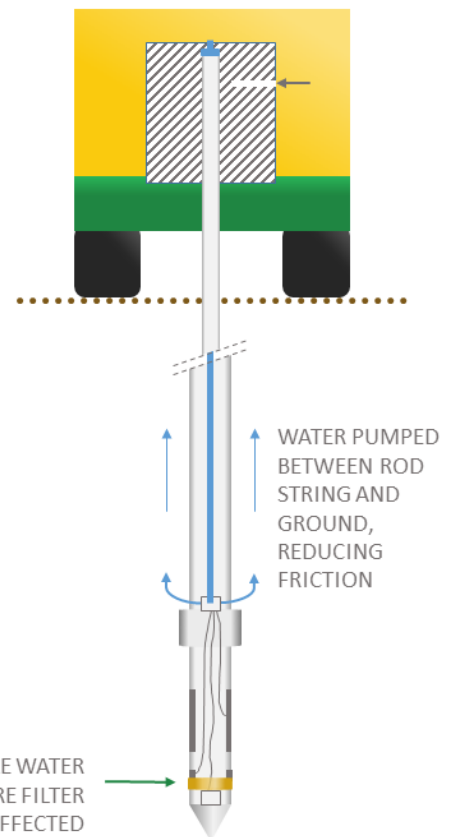
LUBRICATING CONE SCORES AT WEMBLEY

Lankelma made two visits to a project at Wembley Park, North West London, working on behalf of Harrison Group and consultant CH2M Hill in October 2014.

The ground investigation works comprised of 13 combined piezocone and magnetometer tests, 2 nr. dissipation tests and 12 nr. pressuremeter tests.

During the first visit eight combined cone penetration magnetometer tests along with dissipations tests were carried out to refusal at 20.5 m in the underlying London Clay. Due to the shallow refusal depths in the stiff clay Lankelma decided to trial its newly developed lubricating module on the second visit. As a result, the CPT sounding advanced to 40 m below ground level, much to the delight of the client.

The module works by pumping water at hydrostatic pressure down the rod string to an outlet opening 0.5 m behind the cone tip. As the cone advances the water forms



a lubricating layer between the rods and the ground, helping to reduce the friction and allowing for greater penetration depths in more cohesive soils.

Lankelma hopes this technique, although still in development will revolutionise the way CPTs are undertaken in stiff clays.

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