

- 1. UTILITY AND SERVICE INFORMATION ADDED TO TOPOGRAPHICAL SURVEY PRODUCED BY GREENHATCH GROUP. JOB No. 13514\_02\_P\_rev1. DATE AUGUST 2009. NO SITE VERIFICATION CARRIED
- OUT BY MK SURVEYS. THIS SURVEY SHOULD ALWAYS BE READ IN CONJUNCTION WITH THE HISTORICAL DESKTOP UTILITY INFORMATION, THAT WAS PROVIDED

Equipment Information						
Equipment	Manufacturer	Model	Serial Number	MKS REF	Date of Calibration	
EML Tx Transmitter	SPX Radiodetection	RD TX10	10/TX-10B-10896	RD16	09/10/2018	
EML Rx Receiver	SPX Radiodetection	RD8100	10/81PDL-2707	RD16	09/10/2018	
GPR	IDS Georadar	Opera Duo	SN 010-17-000374	GPR10	Day of Survey	

## **DETECTION SURVEY REPORT**

This survey was carried out in accordance with PAS 128:2014 (Publicly Available Specification from BSI). After a pre-survey consultation with the client it was agreed to carry out the detection survey using methodology M1 as per Table 2 of the PAS 128:2014. The survey boundary has been shown on the drawing; please see linestyle section of the key for

Topographical survey supplied by client is significantly out of date due to areas of demolition or placement of construction facilities. Hoarding and construction materials have restricted access further and it is recommended that the site is cleared so that the survey can be completed. In lieu of the site being cleared it is recommended that trial excavations are

The client has provided MK Surveys with historical record information. As per PAS 128:2014 this record information is classed as historical and must be referenced with extreme caution. There is no guarantee of the completeness and accuracy of this information.

t was not possible to survey manhole chambers or drainage network from surface inspection due to the depth of soffit and the chambers being offset in MH2801A and MH2701 - please

see supplied photographs. Recommend confined space entry to survey further. No access to external rainwater pipes and external soil stacks or they have been removed during site demolition. Where possible gullies have been proven by radio sonde location and/or GPR. Unable to survey gullies which have been removed or buried. All drainage should be cross checked in critical areas by CCTV survey or verification survey type A.

Water mains within site boundary were located within a surface scar. Where possible the utility has been surveyed using GPR with radar derived crown depths recorded to quality level QB2. Recommend trial excavations in critical areas to confirm depth and location.

No evidence of gas utility detected within site boundary. Unable to locate gas main shown on received record information. This has been added to the drawing but is indicative only and has a quality level of QB4. Recommend trial excavations in critical areas to confirm depth and

LV cables within the site boundary were located using EML and GPR methods with electronically derived and radar derived depths recorded where possible. Where GPR techniques have confirmed EML results the quality level has been recorded as QB1. HV cables within the site boundary were located using EML methods with electronically derived depths recorded where possible to QB2. Recommend trial excavations in critical areas

apparatus all ducts have been located using remote detection techniques only and compared with record information. Chamber sizes have been recorded using GPR techniques wherever possible. For further information regarding BT apparatus please contact Openreach directly. Unable to confirm the utility layout within TEL2.

No evidence of CATV detected within site boundary. Recommend trial excavations in critical Fibre optic cable belonging to Vodafone have been added to the drawing to quality level QB4.

t is positioned in the carriageway.

Unknown non-linear responses have been positioned using GPR methodologies. These anomalies are not consistent and as such don't suggest the presence of further utilities. It is recommended that these anomalies are investigated using trial excavations in critical areas.

SEE CAUTIONARY NOTES WITHIN THE UTILITY KEY

10 12 14 16 18 20 22

# mksurveys

West Midlands

www.mksurveys.com

www.surveys4bim.co.uk

Llewelyn Davies

The Middlesex Annex Fitzrovia Fitzrovia London

PAS 128:2014 Utility Survey

cale	Sheet Size:		Sheet Number:	Date:	
1:200	A1		1	August 2019	
roject Number:		Rev:	Surveyed By:	Approved By:	
27522		ı	RL / TJW	GL	







