

## Borehole Log

P16R

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Project Name: Crossrail Project No: CR\_REV5

Borehole ID: P16R

Location: Co-ords (British National Grid): 526691.165 - 181348.819 Level: 27.78

Hole Type: CP+RC Logged By: Dates: 2008-01-15 - 2008-01-23

Client: Crossrail Limited Contractor: Project Engineer: GCG

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
		0.0	W						
		0.15 - 0.2	B						
		0.4 - 0.6	B						
		0.6 - 1.2	B		0.60	27.18		MADE GROUND 50mm Tarmacadam over 100mm granite setts to 0.15m over 50mm gravelly fine sand to 0.20m over 200mm concrete to 0.40m over 200mm brick and concrete fragments with sand and flint gravel	0.5
		1.2 - 1.65	D	8	1.20	26.58			1.0
		1.2 - 1.7	B						
		1.7 - 2.15	U					MADE GROUND Brown slightly gravelly clayey sand Gravel is subangular to subrounded fine and medium flint and sandstone with fragments up to 60mm of brick and concrete	1.5
		2.2 - 2.15	D	12					2.0
		2.2 - 2.65	B						
		2.7 - 3.15	U					Firm yellow brown with occasional grey mottling slightly sandy to sandy slightly gravelly CLAY Gravel is subangular to subrounded fine and medium flint	2.5
		3.2 - 3.15	D	44	3.20	24.58			3.0
		3.2 - 3.65	B						
		3.2 - 3.7	B						3.5
		4.2 - 4.7	B	34				Dense locally medium dense or very dense yellow brown and red brown very sandy subangular to subrounded fine to coarse flint GRAVEL Sand and gravel proportions variable	4.0
									4.5

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Project Name: Crossrail Project No: CR\_REV5


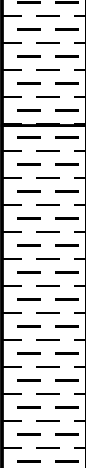
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		Depth (m)	Type						
		5.2 - 5.7	B	35				Dense locally medium dense or very dense yellow brown and red brown very sandy subangular to subrounded fine to coarse flint GRAVEL Sand and gravel proportions variable	5.5
		6.2 - 6.7	B	50/250					6.0
		7.2 - 7.7	B	27				Stiff brown slightly gravelly CLAY Gravel is subrounded fine and medium flint	7.0
		8.0 - 8.4	B					Stiff becoming very stiff fissured dark grey brown CLAY with a silty texture Locally with lenses 25mm diameter of dark grey fine sand Fissures are very closely to closely spaced locally extremely closely spaced randomly orientated and generally smooth Locally slightly polished to polished and tight	7.5
		8.5	D		8.50	19.28			8.0
		8.6 - 9.05	U						8.5
					8.90	18.88			9.0
		9.1	D						9.5
		9.2 - 9.65	U						
		9.7	D						

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Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
		10.8 - 11.09	CL					Stiff becoming very stiff fissured dark grey brown CLAY with a silty texture Locally with lenses 25mm diameter of dark grey fine sand Fissures are very closely to closely spaced locally extremely closely spaced randomly orientated and generally smooth Locally slightly polished to polished and tight	10.5
									11.0
									11.5
									12.0
									12.5
									13.0
									13.5
									14.0
		14.3 - 14.59	CL						14.5

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		Depth (m)	Type						
		15.0	V K CD					Stiff becoming very stiff fissured dark grey brown CLAY with a silty texture Locally with lenses 25mm diameter of dark grey fine sand Fissures are very closely to closely spaced locally extremely closely spaced randomly orientated and generally smooth Locally slightly polished to polished and tight	15.5
									16.0
									16.5
									17.0
		17.4	V K						17.5
									18.0
									18.5
									19.0
		19.5 - 19.79	CL						19.5
		19.8	V K						

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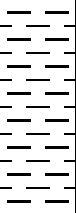
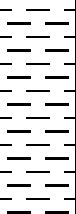
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Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
		22.5 - 22.79	CL		20.70	7.08		Stiff becoming very stiff fissured dark grey brown CLAY with a silty texture Locally with lenses 25mm diameter of dark grey fine sand Fissures are very closely to closely spaced locally extremely closely spaced randomly orientated and generally smooth Locally slightly polished to polished and tight	20.5 21.0 21.5 22.0 22.5
								Very stiff fissured locally thinly bedded very dark grey brown slightly sandy CLAY with occasional lenses 2mm of dark grey fine sand Fissures are very closely to closely spaced randomly orientated smooth and tight with slightly polished to polished surfaces locally dusted with fine sand silt	23.0 23.5 24.0 24.5

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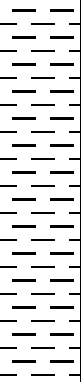
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Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
		25.5 - 25.77	CL		26.22	1.56		Very stiff fissured locally thinly bedded very dark grey brown slightly sandy CLAY with occasional lenses 2mm of dark grey fine sand Fissures are very closely to closely spaced randomly orientated smooth and tight with slightly polished to polished surfaces locally dusted with fine sand silt	25.5 26.0 26.5 27.0 27.5 28.0 28.5 29.0 29.5

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## GENERAL REMARKS

Prior to boring a Cable Avoidance Tool (CAT) survey was carried out. An inspection pit was hand-dug to 1.20m depth and ones at 6.00m on 15/01/2008 and from 5.42m to 6.10m on 16/01/2008 after pulling back casing. See separate sheets. Test on 15/01/2008 possibly silted up; k value for test on 16/01/2008  $3 \times 10^{-4} \text{m/s}$ .; An amount of water was added to facilitate boring and to maintain a positive hydrostatic head in granular strata from 4.20m to 8.60m, which may have obscured any groundwater strike.;; The borehole was advanced by cable percussion means to 10.00m and then progressed by rotary coring means to 26.22m using Geobor S wireline, coreline and a TSD 5mm cube core bit.;; A standpipe piezometer was installed at 23.00m. The installation was aborted as the hole collapsed during the withdrawal of the casing.;