



<h2 style="margin: 0;">Norwest Holst Soil Engineering Ltd.</h2>						Borehole No. 2	
BOREHOLE LOG				Sheet 1 of 3			
Contract No. F5305				Chainage			
Location Markham Colliery				Ground Level 64.74 m.A.O.D.			
Client National Coal Board				Date 29.7.82 - 2.8.82			
Method of Boring Percussion							
Diameter of Borehole 150 mm							

Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.Q.D.%	Daily Progress
MADE GROUND - Black ash, stores and coal dust	[Cross-hatch pattern]	0.50	64.24		0.50	65 for 125 mm	
MADE GROUND - Wooden railway sleeper	[Cross-hatch pattern]	0.80	63.94				
MADE GROUND - Black ash and gravel	[Cross-hatch pattern]	1.30	63.44		1.40	(31)	
MADE GROUND - Grey silty clay, coal dust and brick fragments	[Cross-hatch pattern]	2.80	61.94		2.55	(25)	
Firm brown silty CLAY with occasional gravel	[Dotted pattern]	3.30	61.44		3.55	(30)	
Brown and grey mottled silty CLAY	[Dotted pattern]	4.00	60.74		4.55		
Soft brown mottled sandy gravelly CLAY	[Dotted pattern]	4.90	59.84		5.55	(33)	
Brown very sandy very gravelly CLAY	[Dotted pattern]	5.70	59.04		6.50	(61)	
Brown silty sandy CLAY with coarse angular sandstone gravel	[Dotted pattern]	6.20	58.54		7.55	12	
Fine to coarse sub angular GRAVEL	[Dotted pattern]	6.60	58.14		8.55	15	
Brown silty very sandy gravelly CLAY	[Dotted pattern]	8.20	56.54		9.50	25	
Brown sandy very gravelly CLAY	[Dotted pattern]	9.40	55.34		9.95	(56)	
Grey and brown silty CLAY with sandstone gravel	[Dotted pattern]	9.80	54.94				
Brown and grey weathered SANDSTONE	[Dotted pattern]						

Type of Sample Is S.P.T. Undisturbed Ic. C.P.T. X Vane O Jar Δ Water ● Bulk Piezometer	Remarks (Observations of Ground Water etc.) Water seepage at 4.30m Chisel shale 20.95m to 22.00m Water struck at 5.50m rising to 5.00 m Standing water level 5.20m () Blows to drive U100 Chiselling sandstone 9.80m to 10.50m, 11.40m to 15.00m Chisel mudstone (intermittently) 17.50m to 20.95m
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Water levels are subject to seasonal or tidal variations and should not be taken as constant



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Client National Coal Board				Ground Level 64.74 m.A.O.D.			
Method of Boring Percussion				Date 29.7.82 - 2.8.82			
Diameter of Borehole 150 mm							
Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.Q.D.%	Daily Progress
Brown and grey weathered SANDSTONE	[Pattern]	10.50	54.24			78	
Light grey weathered sandy SILTSTONE	[Pattern]	11.40	53.34		11.00	73	
Light grey weathered silty SANDSTONE	[Pattern]	12.25	52.49		11.50 12.00	64 for 150 mm* 68 for 150 mm*	
Light grey weathered sandy SILTSTONE	[Pattern]	15.00	49.74		13.00 14.00	74 for 150 mm 73 for 150 mm	
Grey weathered clayey SILTSTONE	[Pattern]	17.50	47.24		15.00 16.00 17.00	88 for 150 mm 87 for 125 mm 82 for 125 mm	
Grey silty MUDSTONE	[Pattern]				18.00 19.00	50 for 75 mm 50 for 50 mm	

Type of Sample	Remarks (Observations of Ground Water etc.)
<input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> Undisturbed	* Seating blows only
<input checked="" type="checkbox"/> C.P.T. <input checked="" type="checkbox"/> Vane	See sheet 1
<input checked="" type="checkbox"/> Jar <input checked="" type="checkbox"/> Water	
<input checked="" type="checkbox"/> Bulk <input checked="" type="checkbox"/> Piezometer	

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<h2 style="margin: 0;">Norwest Holst Soil Engineering Ltd.</h2>						Borehole No. 2	
<h3 style="margin: 0;">BOREHOLE LOG</h3>				Sheet 3 of 3			
Contract No. F5305				Location Markham Colliery			
Client National Coal Board				Chainage			
Method of Boring Percussion				Ground Level 64.74 m.A.O.D.			
Diameter of Borehole 150 mm				Date 29.7.82 - 2.8.82			
Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.Q.D.%	Daily Progress
Grey silty MUDSTONE	<div style="display: flex; justify-content: space-around;"><div><div style="width: 10px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div></div><div><div style="width: 10px; height: 10px; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px);"></div></div></div>	20.95	43.79		20.00	84 for 150 mm*	
Dark grey shaley MUDSTONE	<div style="display: flex; justify-content: space-around;"><div><div style="width: 10px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div></div><div><div style="width: 10px; height: 10px; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px);"></div></div></div>				21.00	50 for 75 mm*	
End of borehole	<div style="display: flex; justify-content: space-around;"><div><div style="width: 10px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div></div><div><div style="width: 10px; height: 10px; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px);"></div></div></div>	22.05	42.69		22.00	50 for 25mm*	

Type of Sample

S.P.T.

Undisturbed

C.P.T.

Vane

Jar

Water

Bulk

Piezometer

Remarks (Observations of Ground Water etc.)

*Seating blows only.
See sheet 1.

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