



# Norwest Holst Soil Engineering Ltd.

Borehole No.

2

Contract No. F5305  
Location Markham Colliery  
Client National Coal Board  
Method of Boring Percussion  
Diameter of Borehole 150 mm

## BOREHOLE LOG

Sheet 1 of 3  
Chainage  
Ground Level 64.74 m.A.O.D.  
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
MADE GROUND - Black ash, stores and coal dust		0.50	64.24		0.50	65 for 125 mm	
MADE GROUND - Wooden railway sleeper		0.80	63.94				
MADE GROUND - Black ash and gravel		1.30	63.44		1.40	(31)	
MADE GROUND - Grey silty clay, coal dust and brick fragments		2.80	61.94		2.55	(25)	
Firm brown silty CLAY with occasional gravel		3.30	61.44		3.55		
Brown and grey mottled silty CLAY		4.00	60.74			(30)	
Soft brown mottled sandy gravelly CLAY		4.90	59.84		4.55	(33)	
Brown very sandy very gravelly CLAY		5.70	59.04		5.55	(61)	
Brown silty sandy CLAY with coarse angular sandstone gravel		6.20	58.54		6.50	12	
Fine to coarse sub angular GRAVEL							
Brown silty very sandy gravelly CLAY					7.55	15	
Brown sandy very gravelly CLAY		8.20	56.54		8.55	25	
Grey and brown silty CLAY with sandstone gravel		9.40	55.34		9.50		
Brown and grey weathered SANDSTONE		9.80	54.94			(56)	
					9.95		

### Type of Sample

- ☒ S.P.T. ☒ Undisturbed  
☒ C.P.T. ☒ Vane  
☒ Jar ☒ 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

Water levels are subject to seasonal or tidal variations and should not be taken as constant



Norwest Holst Soil Engineering Ltd.						Borehole No. <b>2</b>	
Contract No. F5305		BOREHOLE LOG		Sheet 2 of 3			
Location Markham Colliery				Chainage			
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	

Water levels are subject to seasonal or tidal variations and should not be taken as constant



<b>Norwest Holst Soil Engineering Ltd.</b>						Borehole No. <b>2</b>	
Contract No. F5305			<b>BOREHOLE LOG</b>			Sheet 3 of 3	
Location Markham Colliery			Chainage			Ground Level 64.74 m.A.O.D.	
Client National Coal Board			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
Grey silty MUDSTONE	X	20.95	43.79		20.00	84 for 150 mm*	
Dark grey shaley MUDSTONE	X				21.00	50 for 75 mm*	
End of borehole	X	22.05	42.69		22.00	50 for 25mm*	

<b>Type of Sample</b>  Is S.P.T.    Undisturbed Ic. C.P.T.    X Vane O Jar        Δ Water ● Bulk        Piezometer	<b>Remarks (Observations of Ground Water etc.)</b>  *Seating blows only. See sheet 1.  <div style="text-align: center; font-size: small;">Water levels are subject to seasonal or tidal variations and should not be taken as constant</div>
---	---

