



Norwest Holst Soil Engineering Ltd.

Borehole No.

1

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

BOREHOLE LOG

Sheet 1 of 2
Chainage
Ground Level 64.26 m.A.O.D.
Date 27.7.82

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 and red ash with pebbles		0.70	63.56		0.55		
Firm brown silty sandy CLAY		1.55	62.71		1.30	6	
Stiff brown grey mottled silty CLAY		3.20	61.06		2.55	(25)	
Stiff brown, black speckled silty sandy CLAY with medium angular sands tone gravel		4.40	59.86		3.55	(34)	
Sandstone BOULDER		4.75	59.51		4.55	(46)	
Firm grey and brown mottled silty sandy CLAY		6.00	58.26		5.55	14	
Soft brown, very sandy gravelly CLAY		7.35	56.91		6.55	62	
Medium dense fine claybound GRAVEL		7.80	56.46		7.55	3	
Brown and grey mottled gravelly CLAY with bands of shale (Weathered siltstone?)		9.25	55.01		8.55	15	
Light grey very weathered sandy SILTSTONE		9.45	54.81		9.30	21	
Grey weathered SANDSTONE.		9.90	54.36			90	
Light grey weathered sandy SILTSTONE							

Type of Sample	Remarks (Observations of Ground Water etc.)
<p>Is S.P.T. Undisturbed</p> <p>Ic. C.P.T. Vane</p> <p>O Jar Water</p> <p>● Bulk Piezometer</p>	<p>Water struck at 4.60. Rose to 4.30m in 20 mins. Sealed at 5m</p> <p>Water struck at 6.00 m, rose to 5.65m</p> <p>() Blows to drive U100</p> <p>Standing water level 4.80m</p> <p>Chisel boulder 4.40 m to 4.75 ,</p> <p>Chisel sandstone 9.45 m to 9.90 m, mudstone 10.50 m to 14.25 m</p>

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



Norwest Holst Soil Engineering Ltd.						Borehole No. 1	
Contract No. F5305		BOREHOLE LOG		Sheet 2 of 2			
Location Markham Colliery		Chainage		Ground Level 64.26 m.A.O.D.			
Client National Coal Board		Date 27.7.82					
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
Light grey weathered sandy SILTSTONE	+++++	10.50	53.78		10.50	50 for 50 mm	
Dark grey shaley MUDSTONE					11.50	50 for 62 mm	
					12.50	52 for 75 mm	
					13.50	79 for 50 mm	
					14.50	82	
					15.55	98	
End of borehole		17.05	47.21		16.60	118	

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

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

