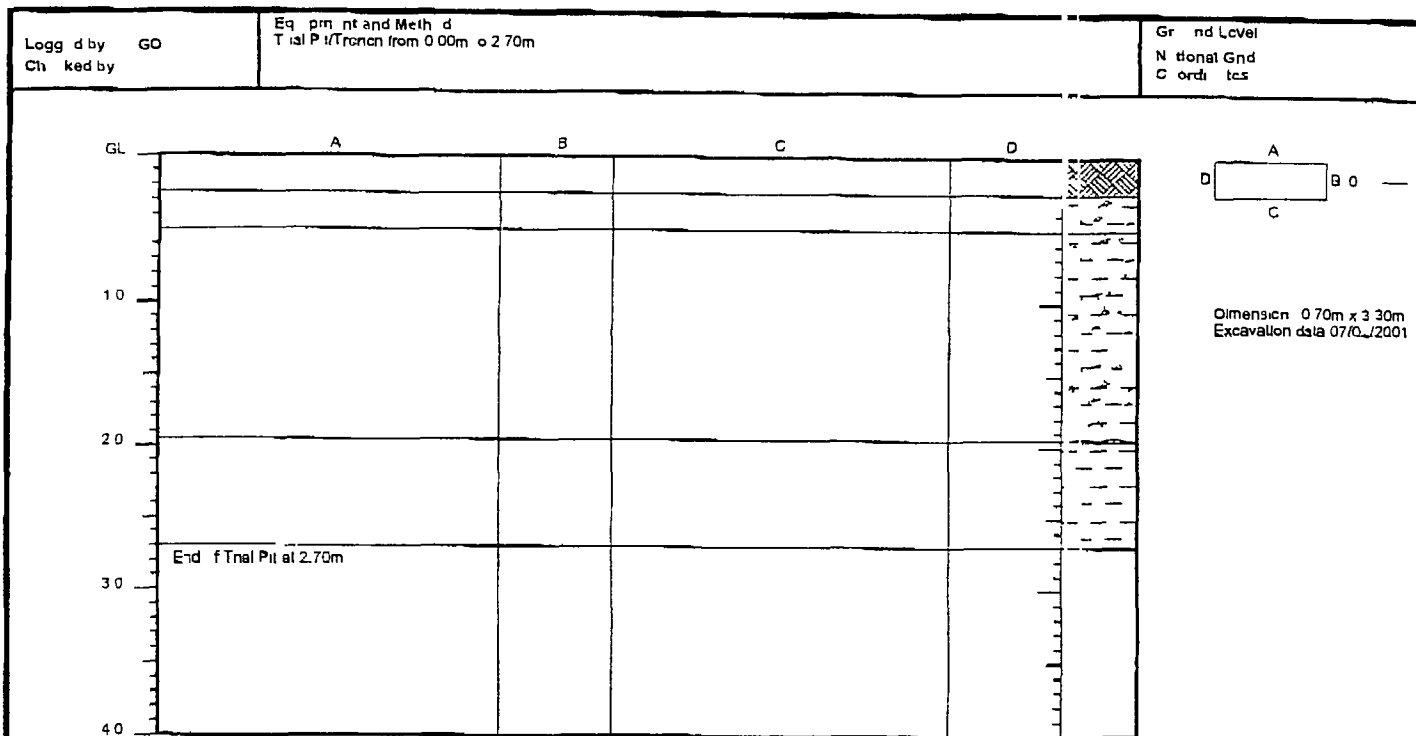


Appendix 1 – Geotechnical Information

Trial Pit Log



Exploration Associates



Samples and Tests			Strata		
Depth (m)	Typ & N	Records	Depth (m)	N	Description
			0.00-0.25	1	Thin veneer of turf or TOPSOIL
			0.25-0.50	2	Soft to firm dark brown granular CLAY Gravel is coarse and subrounded
0.65 0.65	B1 D2		0.50-1.95	3	Firm brown mottled orange slightly granular sandy CLAY Gravel is fine and subrounded
1.70 1.70	O3 D4		1.95-2.70	4	Soft blue grey CLAY

Groundwater No Struck Below 1 1.20m Slight seepage	Remarks Slightly Clayey below 2.50m Shallow None Hole backfill 0.00m to 2.70m Anon. (a)
--	---

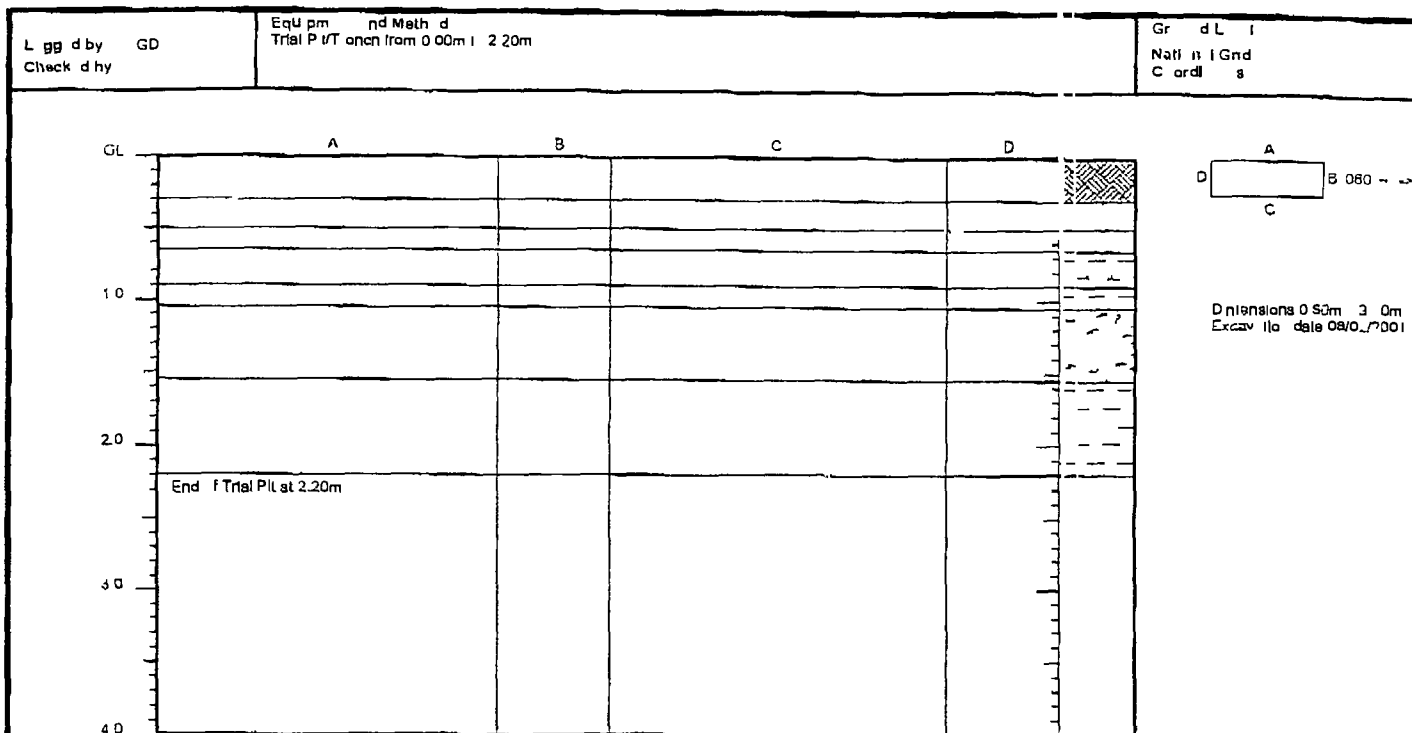
Note: For explanation of symbols and abbreviations refer to sheet All depths in meters Scale 1:50	Project: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project No: 120210 Carried out by: Environmental Agency	Trial Pit TP1 Sheet 1 of 1
--	--	---

704201112405ESGLog 205



Exploration Associates

Trial Pit Log



Samples and Tests			Strata		
Depth (m)	Type & N	Remarks	Depth (m)	N	Description
			0.00-0.30	1	Thin veneer of turf over TOPSOIL
			0.30-0.50	2	Soft brown slightly clayey silty fine to coarse SAND
			0.50-0.65	3	Dark brown fine to coarse SAND Possible elict topsoil
0.70	B1		0.65-0.90	4	Firm orange brown sandy CLAY
0.70	D2		0.90-1.05		Stiff orange CLAY
1.50	93		1.05-1.55		Pale grey orange slightly clayey medium and coarse SAND and subrounded medium and coarse GRAVEL
1.80	B4		1.55-2.20	7	Stiff thinly laminated brown CLAY
1.90	D5				
1.90	W5				

Groundwater: No Standing Water 1.175m Seepage	Remarks: Stability Stable Shoring None Hole backfill: 0.00m to 2.20m Arisings (a)
---	---

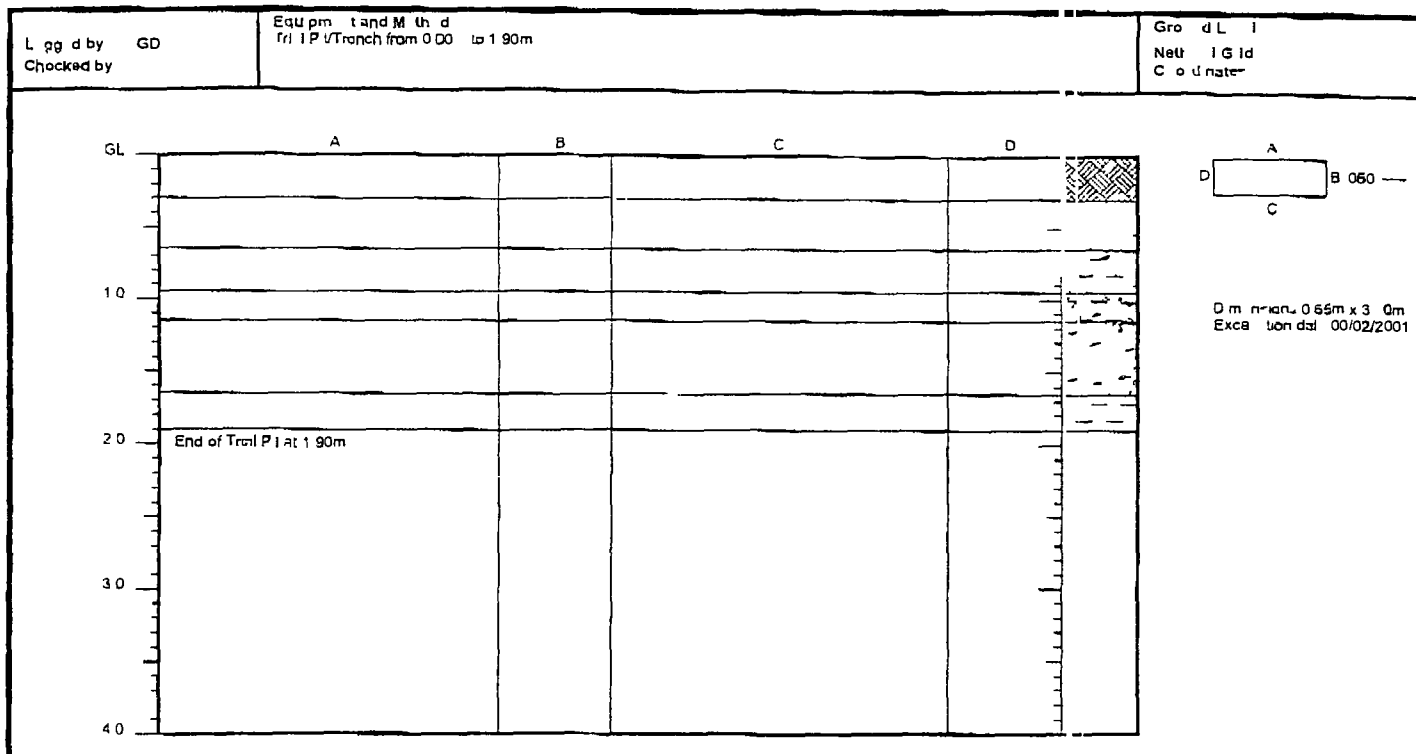
Notes: For explanation of symbols and abbreviations see key sheet. All depths in metres. Scale: 1:50	Project: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project no: 120219 Contractor: [unclear]	Trial Pit: TP12 Sheet 1 of 1
---	---	---

27/04/2001 11:24:10 ESGL02 2.08



Exploration Associates

Trial Pit Log



Samples and Tests			Strata		
Depth (m)	Type & No	Record	Depth (m)	N	Description
0.0	S1		0.00-0.30	1	Thin veneer of turf over TOPSOIL
0.70	D2	Hand V. ca. 0.9 m 35 40 18	0.30-0.35	2	Orange brown silty fine to coarse SAND
			0.85-0.95	3	Dark brown slightly gravelly very clayey fine to coarse SAND Gravel is fine to medium Possible relic topsoil
1.30	B3		0.95-1.15	4	Firm orange brown slightly gravelly sandy CLAY Gravel is fine to medium subrounded
1.30	D4		1.15-1.65	5	Grey brown fine to coarse SAND and medium and coarse GRAVEL
1.80	B5		1.65-1.90	6	Stiff blue grey CLAY
1.80	D6				

Groundwater: No Struck Bottom 1 1.50m Slight seepage	Remarks: Stability C (loosing below 1.70m Showing N ne Hole backfill 0.00m to 1.90m As mgs ()
--	--

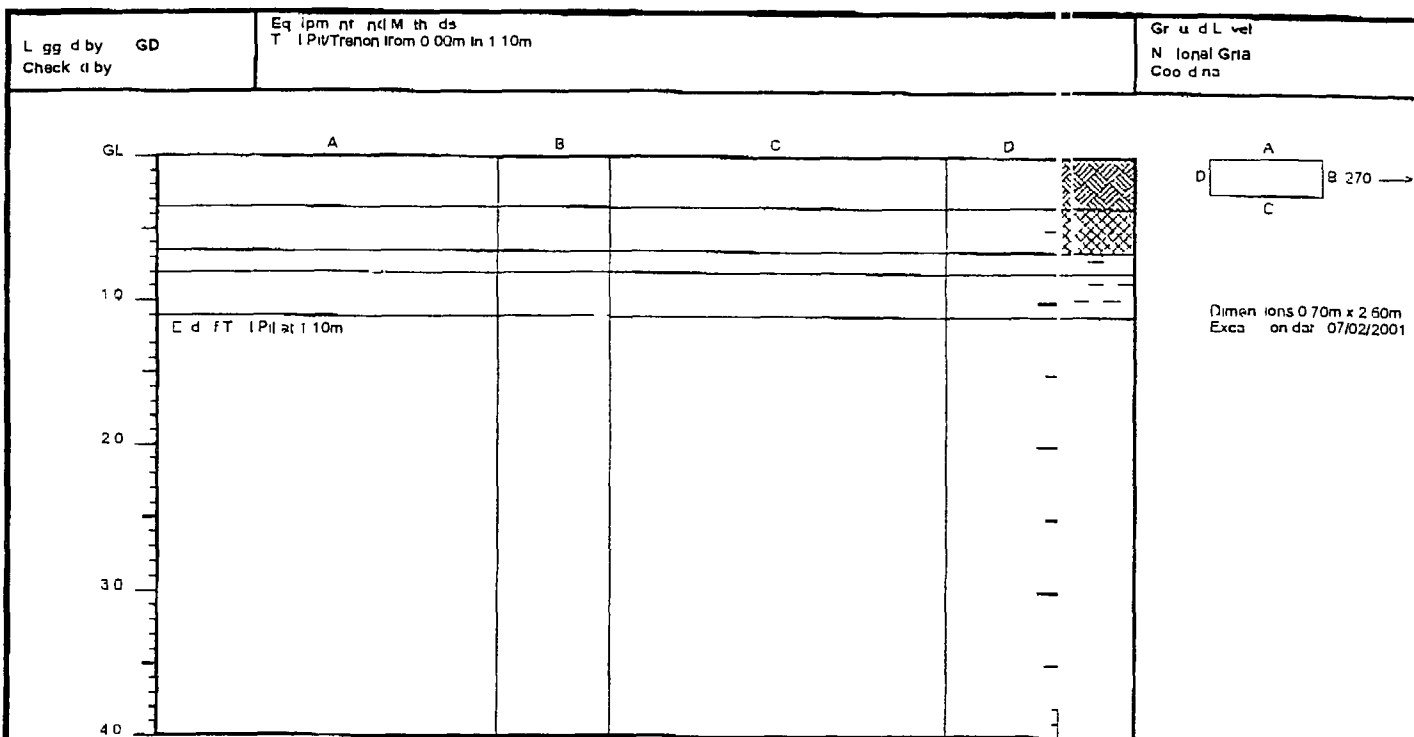
Notes: For explanation of symbols and abbreviations see key sheet. All depths in metres. Scale: 1:50	Project: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Plot No: 120219 Contractor: Environmental Agency	Trial Pit TP13 Sheet 1 of 1
---	---	--

27/04/2001 11:24:14 EsGL 3 v2.00



Exploration Associates

Trial Pit Log



Samples and Tests		Strata			
Depth (m)	Type & No	Record	Depth (m)	No	Description
			0.00-0.35	1	Thin veneer of turf over TOPSOIL
0.50	B1		0.35-0.35	2	MADE GROUND Dark brown fine to coarse gravelly sand Gravel is coarse and angular With bricks and brick fragments Cobbles of limestone
0.0	O2		0.65-0.90	3	Pale grey brown clayey coarse SAND
			0.80-1.10	4	Soft dark brown CLAY

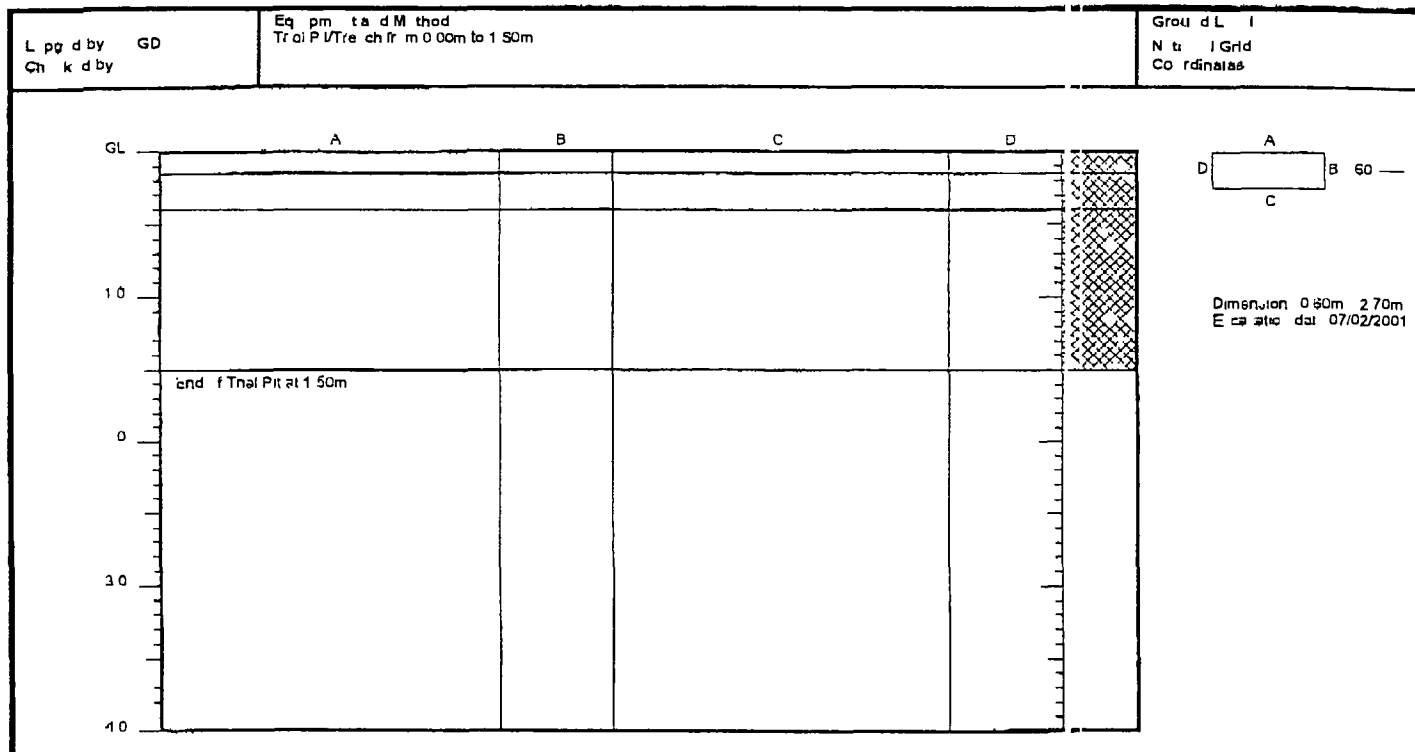
Groundwater No Suck Behaviour 1.060m Steady Seepage	Remarks Stably Collapsing below 1.00m showing No Hole backfill 0.00m to 1.10m and g-()
---	--

Notes For explanation of symbols and abbreviations see key sheet All depths in metres Scale 1:50	Project MALTON NORTON AND OLO MALTON FLOOD ALLEVIATION SCHEME Project no 120219 Contract no En 10m (Ag ny)	Trial Pit TP2 Sheet 1 of 1
---	---	---



Exploration Associates

Trial Pit Log



Samples and Tests		Strata			
Depth (m)	Type % N	Remark	Depth (m)	N	Description
0.00 0.55	B1 D2		0.00-0.15	1	MADE GROUND Grey granular clay Gravel is medium to coarse angular to subangular
			0.15-0.40	2	MADE GROUND Pale grey white rubble Boulders and cobbles of limestone with a coarse sand matrix
			0.40-1.0	3	MADE GROUND Dark brown clayey coarse sand With bricks and brick fragments

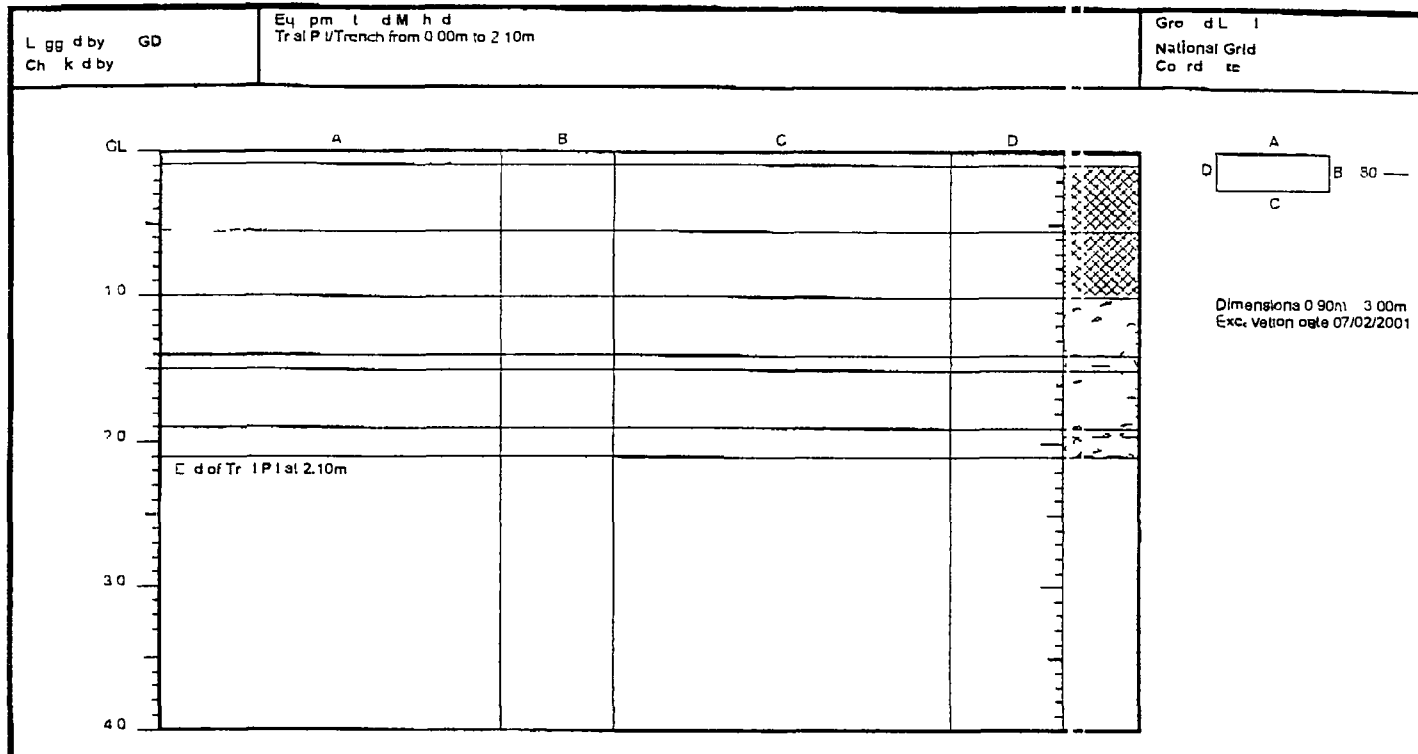
Groundwater: Not struck Below 1.50m Slotted saepags	Remarks: Pit terminated 1.50m due to water flow making and quite resistant to most difficult and costly depth increased Stability: Stable Shoring: None Make backfill 0.00m to 1.0m Above ()
---	--

Note: For explanation of symbols and abbreviations see key sheet. All depths in metres. Scale: 1:50	Project: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project No: 120219 Carried out for: Environment Agency	Trial Pit TP3 Sheet 1 of 1
--	---	---



Exploration Associates

Trial Pit Log



Samples and Tests			Strata		
Depth (m)	Type & No	Records	Depth (m)	No	Description
			0.00-0.09	1	MADE GROUND Tarmac
			0.09-0.55	2	MADE GROUND Brick and concrete rubble
			0.55-1.00	3	MADE GROUND Dark brown slightly sandy slightly gravelly clay Gravel is fine to coarse angular to subangular With brick and brick fragments
1.30	B1		1.00-1.40	4	Pale brown clayey fine to coarse SAND and angular to coarse GRAVEL with occasional cobbles
1.40	D2		1.40-1.50	5	Firm pseudofibrous organic dark brown clayey PEAT
1.30	W3		1.50-1.90	6	Pale brown gravelly fine to coarse SAND Gravel is fine to coarse and angular
2.05	B4		1.90-2.10	7	Firm dark brown slightly sandy slightly gravelly CLAY Gravel is fine to coarse and angular

Groundwater No Struck Below 1 1.50m Steady page	Remarks Stability Classification below 2.05m Strong None Hole backfill 0.00m to 2.10m Ansmg. ()
---	--

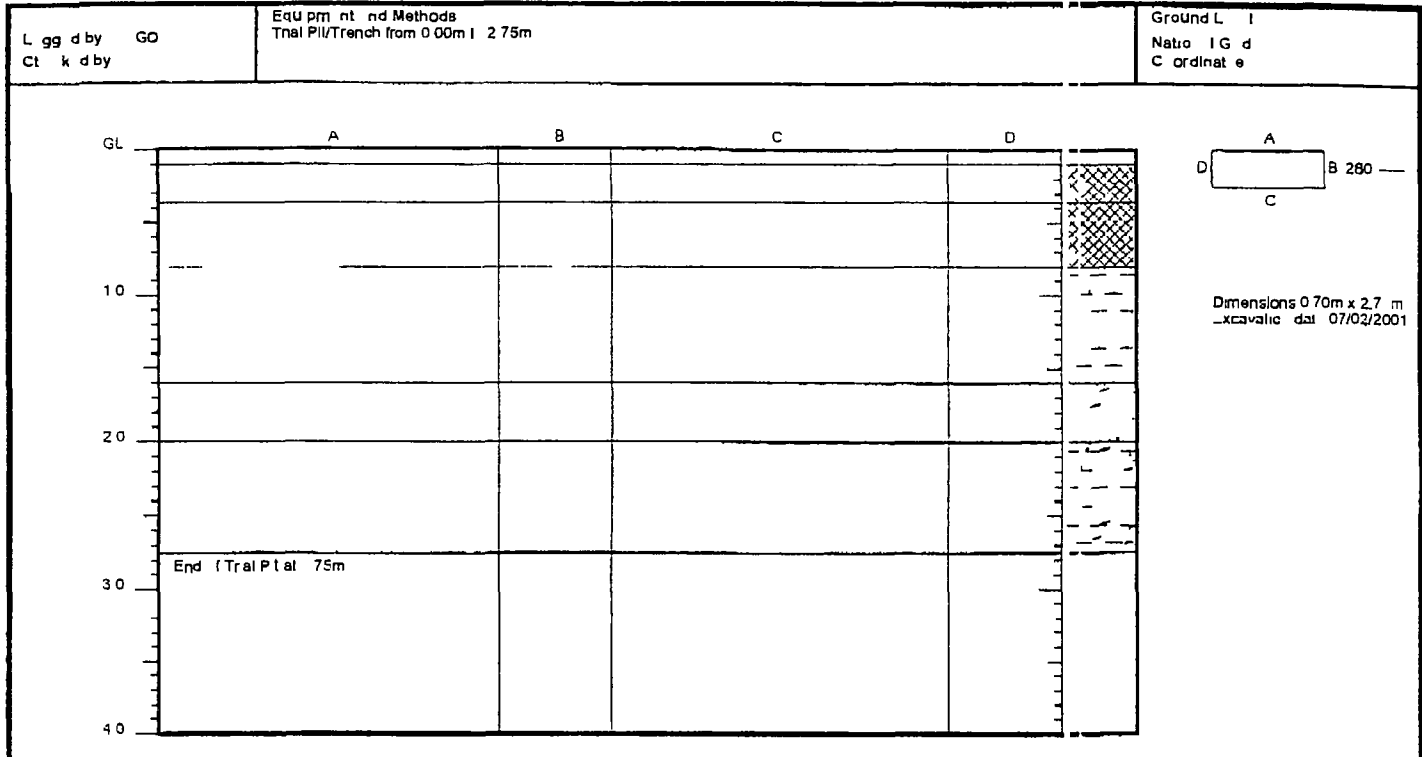
Note For explanation of symbols and abbreviations see key sheet. All depths in metres. Scale 1:50	Project MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project 120219 Client Environmental Agency	Trial Pit TP4 Sheet 1 of 1
--	--	---

27/04/2001 11:24:24 ESG-Log 2.08



Exploration Associates

Trial Pit Log



Samples and Tests			Strata		
Depth (m)	Typ & No	Records	Depth (m)	No	Description
			0.00-0.10	1	MADE GROUND Tarmac
			0.10-0.3		MADE GROUND Light brown coarse sand and angular medium to coarse gravel
			0.38-0.80	3	MADE GROUND Firm dark brown slightly sandy clay with bricks and brick fragments
			0.80-1.50	4	Firm dark brown slightly sandy CLAY with some rootlets
1.70	B1		1.50-2.00	5	Pale brown slightly gravelly very silty fine to coarse SAND with some rootlets. Gravel is subangular to subrounded fine
1.70	O2				
7.7	B3		2.00-2.75	6	Firm brown mottled orange grey slightly gravelly CLAY. Gravel is fine to medium angular to subangular
2.5	O4				

Contaminants: None encountered	Remarks: Stability: Stable Shoring: None Height backfill: 0.00m to 2.75m Anisotropic (a)
-----------------------------------	--

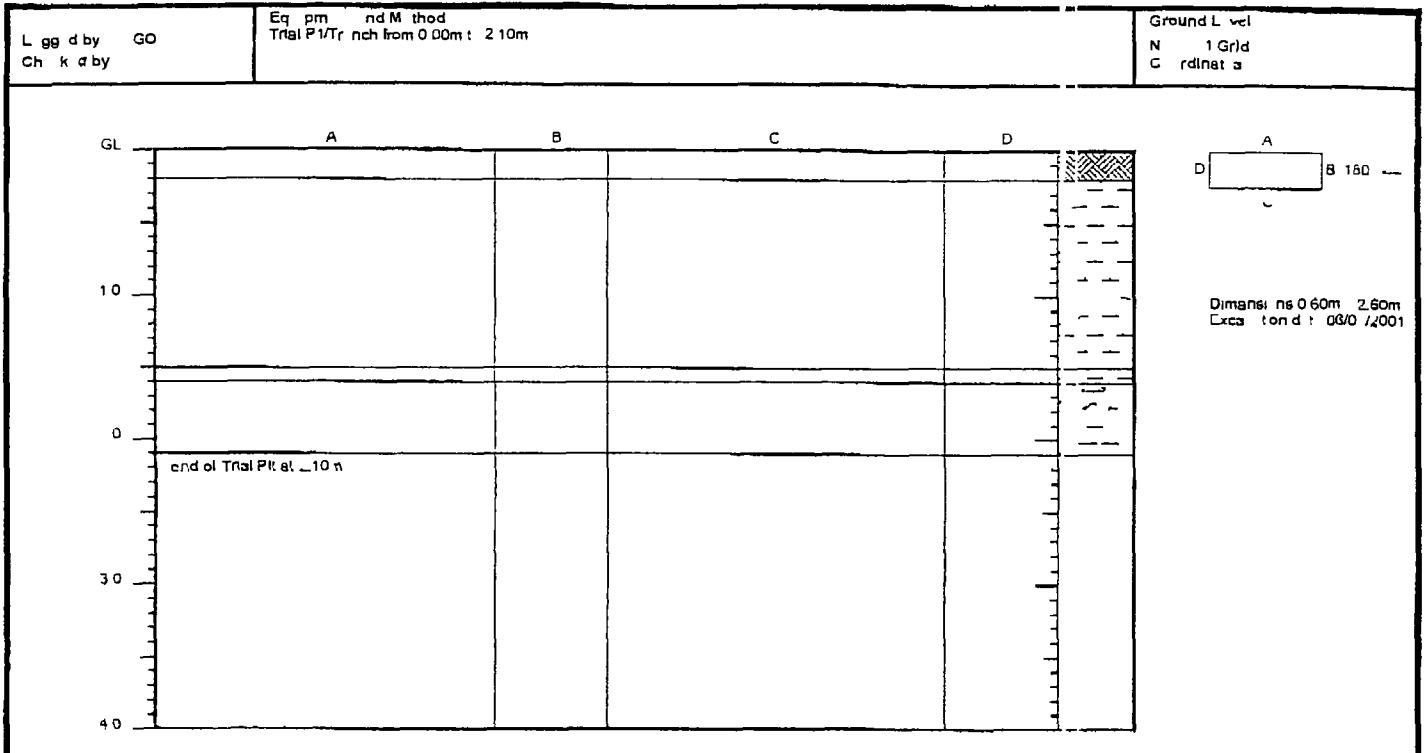
Notes: For explanation of symbols and abbreviations see key sheet. All depths in m. Int.	Project: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project no: 120218 Carried out for: Environment Agency	Trial Pit: TP5 Sheet 1 of 1
--	---	--------------------------------

27/04/01 11:24:21 ESGLog V2.08



Exploration Associates

Trial Pit Log



Samples and Tests			Strata		
Depth (m)	Type S/N	Remarks	Depth (m)	N	Description
			0.00-0.20	1	Brown TOPSOIL
0.40	B1		0.20-0.60	2	Stiff grey brown mottled orange slightly sandy CLAY
0.40	D2	Hand Vane at 0.40m τ = 84.90	1.50-1.00	3	Firm grey brown mottled orange CLAY
1.6	B5		1.0-2.10	1	Orange brown very clayey very sandy fine to coarse angular GRAVEL
1.85	O4				
2.10	W5				

Groundwater: N Struck Behaviour: 1 1.50m Slight Seepage	Remarks: Stability: Stable Shoring: None Holed backfill: 0.00m to 2.10m An. negs (p)
---	--

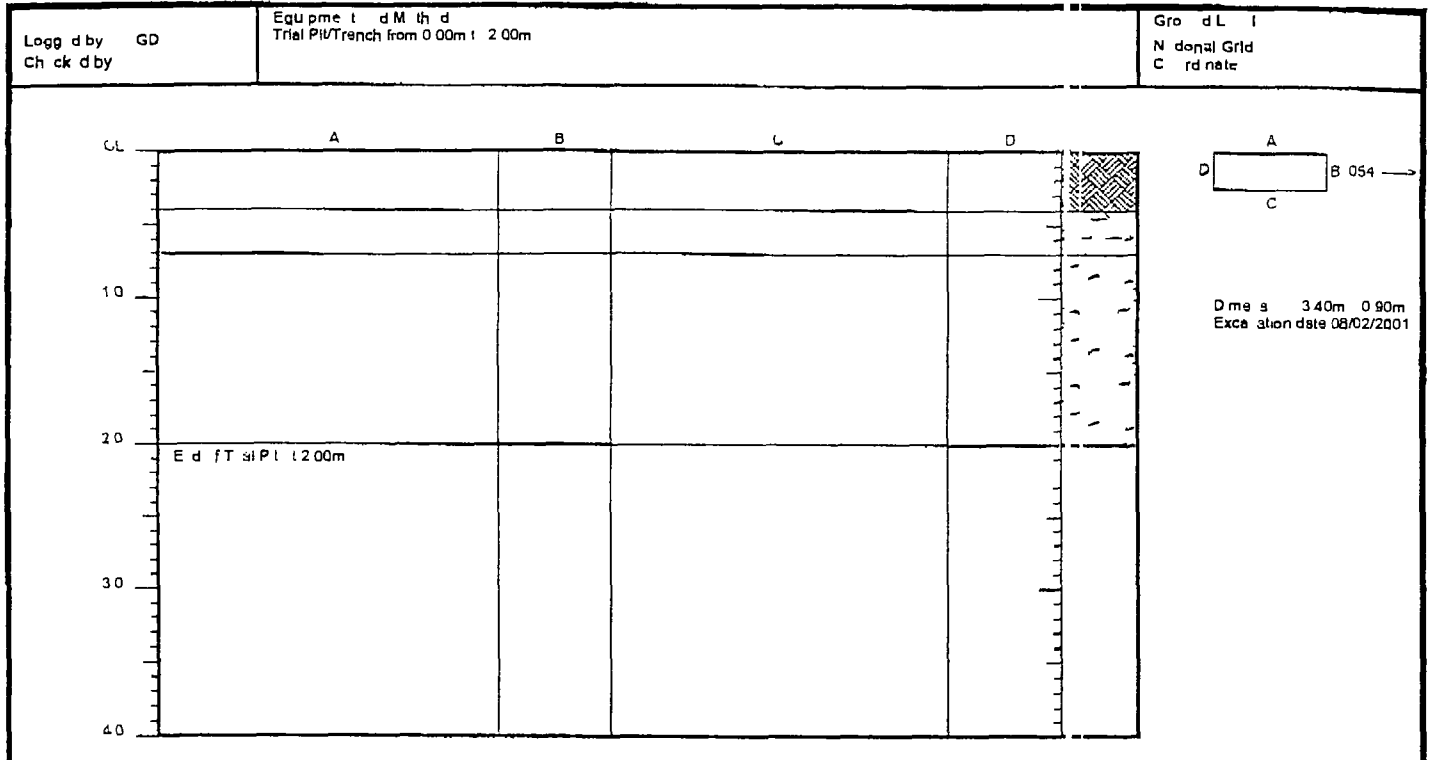
Notes: For explanation of symbols and abbreviations key held at All depths in metres Scale: 1:50	Project: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project no: 120219 Client: Enríme t Ag y	Trial Pit: TP6 Sheet 1 of 1
---	---	--------------------------------

27/04/2001 11:24:31 ESG Log 2.03



Exploration Associates

Trial Pit Log



Samples and Tests			Strata		
Depth (m)	Typ & N	Records	Depth (m)	No	Description
			0.00 - 0.40	1	Brown TOPSOIL
0.55	B1		0.40 - 0.70	2	Orange brown gravelly clayey fine to coarse SAND Gravel is subangular fine to coarse. Some cobbles and boulders
0.55	B2				
0.90	B3		0.70 - 2.00	3	Orange brown slightly clayey very gravelly fine to coarse SAND Gravel is fine to coarse and subangular. With angular cobbles of calcic lime tone. Becoming paler in colour below 1.50m. Below 1.85 abundant cobbles and minimal matrix. Possible rockhead at 1.85m
0.90	B4				
1.85	B5				

Groundwater: Not encountered	Remarks: Stability Stable changing Non Hole backfill: 0.00m to 2.00m Arsenic (a)
---------------------------------	--

Notes: For explanation 1 unit is used bbrc: 1 sheet All depths in metres Scale: 1:0	Project: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project No: 120219 Contractor: Enlorm Agency	Trial Pit TP7 Sheet 1 of 1
---	---	---

27/04 01 11 24 34 ESGLog v2.08



Exploration Associates

Borehole Log

Drill by: MSB Logged by: GD Check by:		Equipment used: 38mm diameter meter from 0.00m to 4.10m Casing: 38mm diameter			Geology: No lithology Correlation:		
Samples and Tests			Strata				
Depth	Type & No	Records	Date	Time	Description	Depth Interval (Thickness)	Log No
0.30	D1		1/02/2001		Vegetation over TOPSOIL	(0.40)	
0.60 - 1.00		SSW ON 8 1/11/12			Brown clayey fine to medium SAND	0.60 - 1.00	
1.00 - 1.60	D2				Soft to firm brown sandy CLAY	(1.70)	
1.0 - 1.65		SSW ON 5 1/11/12					
1.60 - 2.20	D3						
2.0 - 3.00	D4				Medium dense light brown gray sandy fine to coarse subangular limestone GRAVEL	(1.00)	
40 - 2.85		SSW ON 10 23/3/232					
3.00 - 4.00	D5				Weak light brown LIMESTONE	(0.80p)	
3.80 - 4.05		SSW ON 35 10/11/10 d 10 7					
			10/12/2001	0.20	EXPLORATION DRY HOLE END AT 4.10m	4.10	
Gravel No structure 1.0 - 2.0m ending 1.0 - 2.0m on completion of hole			Remarks: Hole bashed 0.00m to 4.10m Ansmg (a)				
Note: For explanation of symbols and abbreviations see key sheet. All depths are reduced to sea level. Stratum thicknesses in brackets are columnar. Scale: 1:50			Project: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project No: 120218 Object: Environmental Agency			Borehole BH1 Sheet 1 of 1	

2 10/4/2001 12 5:30 ESGL-g v2.0B



Exploration Associates

Borehole Log

Dilled by LC L gg d by GO Cl k d by		Eq pm nt and Meth d In-pection P l fro 000m l 120m Cabi P rousion fr m 120m to 6 05m				G na L l N lo l Grid C ninet	
Samples and Tests				Strata			
0 ptn	Typ & N	R rd	D t Casing	Tim W t	D s r phon	Depth L l (Thl kn s)	L ge d
030 1 0	B1		02/02/2001 0 00	0 00	Turf over TOPSOIL	(0 40)	
070	W7					0 40	
120 155	U2	13 blow 330mm recov red	0 00		Soft to firm brown CLAY	(1 30)	
170	O3					1 70	
2 0 26S 0 25 20 28S	D4 D5 D8	S SW 0 N-10 1 1/1 2 3 4	2 00	0 70	Loose to medium dense dark brown slightly gravelly silty fine and medium SAND Gravel is fine and subrounded	(1 80)	
320 3 5 3 70 4 6S 3 0 3 8S	D8 D9 D10	S SW 0 N B 5/5 7 8 8	3 00	1 80		3 50	
4 0 4 5S 4 0 4 8S	O11 B12	B SW 0 N 1 3 3 4/3 2 3 8	4 00	2 20	Medium dense orange brown clayey sandy subangular medium and coarse limestone GRAVEL	(1 70)	
5 00 5 41	D13	S SW 0 50 3 2/5 7 10 19 1 r 35mm	5 00	3 00		5 70	
5 50 5 60 5 6S	D14 D 5	S SW - 0 50 5 r r 20mm /50 for 3 mm	02/02/2001 5 00	3 00	Weak to moderately weak orange dark brown medium and coarse subangular sandy LIMESTONE Reco rered as a coarse angular gravel	(0 85pon)	
					EXPLORATORY HOLE ENDS AT 6 05m	6 0	
G ndwat r No Str ck B h 1 2 00m Rising to 0 70m after 20 m s					R m rk Ch elling 5 20m to 5 65m 00m nutes Hol backfill 0 00m l 6 05m An. ngs (B)		
N l Fr pl i of ymb t and bbro l l ns ea key heel All d pth na reduceo le l m l Stral m l nick g hr ck ts in depth column Scale l 50			Pro j ct MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME 120210 P j C m a ul r E i m t Ag y		Borehole BH2 Sheet 1 of 1		

26.04.001 12 15 53 ESG Log v2.00



Exploration Associates

Borehole Log

Drill d by LC Log d by GD Checked by		Equipment details In section P from 0.00m to 1.20m Cable Percussion 150 mm diam Lift from 1.20m to 50m				Ground Level Nominal Ground Coordinates	
Samples and Tests				Strata			
Depth	Typ & N	Records	Date	Time	Description	Depth (m)	Log
0.30 - 1.00	B1		02/02/2001	00.00	Turf or TOPSOIL	(0.40)	
1.20 - 1.65	U2	14 blow 360mm recovery			Firm grey gravelly CLAY Gravel is angular fine and medium including cinders Occasional pockets (up to 30mm) of ash (Possible, inada ground)	(1.60)	
1.70	D3						
2.00 - 2.45	D4	S SW 0 N-3 1-1 1 1	2.00	1.50			
2.00 - 2.45	B5						
3.00 - 3.45	D6	S SW 0 N-6 1-1 2 2 1	3.00	1.20			
3.00 - 3.5	B7				Very loose to loose dark brown clayey gravelly fine to coarse SAND Gravel is subangular to subrounded fine to coarse	(2.80)	
4.00 - 4.4	D8	S SW 0 N a 1 2/2 1 3 N Recovery	4.00	2.50			
4.00	B9						
4.80 - 5.23	D10	S SW 0.50 25-10, 1 10 for 50mm	4.80	1.00			
4.80 - 5	B11				Very dense orange clay sandy angular medium and coarse GRAVEL to sandy limestone	(1.40)	
6.00 - 6.42	D12	S SW 0 N 25-150 for 47mm	6.00	0.30			
6.00	B13		05/02/2001 6.00	0.30	Weak to moderately weak orange brown medium and coarse subangular grained sandy LIMESTONE	(0.00)	
6.20	D13				EXPLORATORY HOLE ENDS AT 6.30m	6.00	
Groundwater No Struck Behaviour 1 2.00m RL of 1.30m after 20 mins				Remarks Chiselling 800mm to 30m 60m rules Hole backfill 0.00m to 2.00m Bentonite (b) 4.80m to 6.50m Bentonite (b) Surface protection Slope Cook Cove Standpipe Pressure installed IS 1.4m response zone from 2.00m to 4.80m			
Notes: Explanation of symbols and abbreviations key on at All depths and depth level in the Stratum thickness given in brackets in depth column Scale 1:50				Project Project no Contractor		Borehole BH3 Sheet 1 of 1	
				MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME 120219 Environment Agency			

6042001 12-15 59 ESGLE 0 V2.08



Exploration Associates

Borehole Log

Drilled by LC Logged by GO Checked by		Equipment and Method Inspection Point from 0.00m to 1.20m C bit Percussion 150 mm diameter from 1.20m to 2.50m				Ground Level Nil at Ground Corrected	
Samples and Tests			Strata				
Depth	Typ & N	Remarks	Date	Time	Description	Depth Level (Thickness)	Log No
0.50 - 1.50	B1		05/02/2001 00.00	00.00	Turf over TOP SOIL	(0.40)	
1.00 - 1.9'	U	12 blows			Soft grey brown CLAY	(1.20)	
2.00 - 2.45	03 04	S SW - 0 N - 6 1 - 1 2 1 2 N Recovery	2.00 05/02/2001 00.00	00.00 00.00	Loose grey brown slightly gravelly medium and coarse SAND Gravel is subrounded fine and medium	(0.90 open)	
					EXPLORATORY HOLE ENDS AT 2.50 m	2.50	
Ground level Nil Struck at 1.1 m 1 - 1.60m Re-log at 0.80m after 20 min					Remarks Hole 1.1m sealed at 2.50m due to flood gas formation H to backfill 0.00m to 2.50m Ag. (a)		
Notes For explanation of symbols and abbreviations see key sheet. All depth and reduced levels in metres. Strata thickness given in brackets in depth column. Scale 1:50			Project MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project no 120219 Carried out for ERMONTAG		Borehole BH4 Sheet 1 of 1		

20120112 16:05 ESCG 01208



Exploration Associates

Borehole Log

Drilled by LC Logged by GD Checked by		Equipment details 1. Depth 1.00m to 1.00m Cable Percussion 150 mm diameter from 1.00m to 10.00m				Grid Location National Grid Coordinates	
Samples and Tests				Strata			
Depth	Type & N	Remarks	Depth Ca g	Time W t	Depth Depth	Log Log	Log Log
0.30 - 1.00	B1		31/01/2001 0.00	0.00		(0.30)	
1.00	W11					(1.10)	
2.0 - 1.85	D	C 5W 0N-5 3 3/2 1 1 1					
1.0 - 1.35	B3						
0.0 - 2.45	U4	10 blows					
2.50	D5					()	
70	W17						
3.00 - 3.45	D6	5 SW 0N 3 1 1/1 1 1	3.00	dry			
3.00 - 3.45	B7						
3.90	B8						
4.00 - 4.45	U9	10 blows	4.00	dry		(0.70)	
4.50	U10						
5.00 - 45	D12	5 SW 0N 8 1 1/1 2 2 3	5.00	1.00		(1.00)	
5.00 - 5.4	B13						
5.70 - 5.00	B14						
6.00 - 45	U15	0 blows					
6.50	D16					(1.00)	
7.20 - 6	D18	5 SW 0N 5 1 2/2 1 1 1 N Recovery	7.00	3.00		7.20	
7.20 - 7.65	B19						
8.00 - 8.45	D 0	C 5W 0N 9 1 2/1 2 3 3	8.00	3.80		(1.0)	
8.00 - 8.45	B21						
8.50 - 9.00	B						
9.00 - 9.45	U23	55 blow 135mm recovered	9.00	5.00		(1.50pen)	
9.50	D 4						
9.0 - 9.95	O25	5 SW 0N-16 3 5/6 3 14 18	31/01/2001 9.00	2.50			
				EXPLORATORY HOLE NDS AT 10.00m			
Groundwater No Struck Seha 1 2.60m Slight flow 2 4.0m Rise at 1.00m after 20 min 3 7.20m Rise at 2.50m after 20 min				Remarks Hole backfill 0.30m to 3.00m B t 1 (b) 5.70m to 7.20m Bentonite (b) surface protection Slope Cap Cover Standpipe Piezometer installed 19mm diameter ter tempo zone from 3.00m to 5.70m			
Name of project: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME		Project No: 1 0219		Borehole No: BH5		Sheet 1 of 1	

2 14/2/2001 12 16 12 LSCLog v2.03



Borehole Log

Exploration Associates

D rilled by LC Logged by GD Checked by		Equipment and Methods In place log Pit from 0.00m to 1.20m Cables Paracord 150 mm diameter from 1.20m to 12.00m				Ground Level N 1 m 1 Gr d C rd n	
Samples and Tests				Strata			
D p n	Typ & N	R rd	D t C l n g	T m W t	D e s c r i p t i o n	D e p t h L v l (T i c k)	L e g d
0.30 - 1.0	B1		0.00	0.00	Turf over TOPSOIL	(0.40)	
1.20 - 1.65	U2	11 bl wa 315mm ccovered			MADE GROUND Soft brown mottled orange slightly gravelly sandy clay Gravel subrounded to rounded fine and medium Some brick fragments	(2.40)	
1.0	W7						
0	O3						
0.00 - 2.45	O4	SSW - ON 1 1 / 1	0.00	dry			
3.00 - 3.45	OS	SSW ON-5 2/2, 1 1 1	3.00	1.50	Loose dark gray black slightly gravelly silty fine to coarse SAND Gravel subangular fine and medium	(2.80)	
3.00 - 3.4	B3						
4.00 - 4.45	D0	SSW ON 3 1 / 1 1	4.00	1.90	Soft thinly laminated brown CLAY	(2.00)	
4.00 - 4.4	B10						
6.00 - 5.45	D11	3 SW ON=6 1 2/1 2, 3	6.00	2.00	Soft thinlly laminated brown CLAY	(5.00)	
6.00 - 5.45	312						
6.00 - 5.45	U13	40 blow	6.00	5.40	Soft thinlly laminated brown CLAY	(2.30)	
6.00	D14						
7.30 - 7.75	D15	SW ON 8 1 2/1 2, 3 No Re um.	7.20	1.90	Loose grey brown fine to coarse SAND and subrounded fine to coarse GRAVEL of limestone	(7.30)	
7.30 - 7.75	B1						
8.00 - 8.45	D17	C SW ON 7 2 2/1 2 1 3	8.00	2.90	Soft gray CLAY Becoming stiff at 9.45m Becoming very stiff at 10.50m	(1.40)	
3.00 - 8.45	a18						
8.70	D19				Soft gray CLAY Becoming stiff at 9.45m Becoming very stiff at 10.50m	(8.70)	
9.00 - 9.45	D20	SSW - ON=28 3 8/8 7 9	9.00	7.00			
9.00 - 9.4	321					(3.30)	
Groundwater N Struck B hav					Remarks		
1 2.40m Slight flow 2 2.00m Rising to 1.50m after 20 m 3 7.30m Raising to 1.80m after 20 m ns							
Note: A explanation of symbols and abbreviations see key h t. All depth and reduced level in mns Stratum thickness given in brackets in depth of mns. Scale 1:50					Project MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Print 1 0 19 Card of E m Ag y		Borehole BH6 Sheet 1 of 2

B.C. 02112 6.20 ESGL p 2 08



Borehole Log

Exploration Associates

Drill d by LC	L gg d by GD	Ch k d by	Eq pm nt and M th d. S e h ct 1		G d L 1	N lonal G d	Coo dl at s
Samples and Tests				Strata			
Opn	Typ & N	R d	Del Cost g	Tm W tr	D rption	D ph Lev l (Th k)	L g no
10 50 10 95	U 2	70 blows 225 m rcovered	10 50	dry	As heet 1	(330pan)	
11 00	D23						
11 00 11 95 1 50 11 05	D 4 025	S SW 0 N 48 5 7/9 11 13 15	10 50	dry			
			01/02/2001 10 50	1 8	EXPLORATORY HOLE NOS AT 12 00 m	12.00	
Gro dw tcr N Str ck B l ou				Remarks			
Note: For explanation of symbols and abbreviations see key sheet. All depths and recorded intervals in metres. Strata nomenclature in brackets. Scale 1:50.				Proj: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME P j ct 1: 120-18 C rri e ul for: E Ironm Aq y		Borehole BH6 Sheet 2 of 2	

26/04/2001 11:16:25 ESGLog 2.08

Borehole Log



Exploration Associates

Borehole Data		Equipment			Geographical Data			
Borehole No	LC	Equipment	Depth	Manufacturer	Grid Reference	Coordinates		
Logged by	GD	Inspection	From	To	150mm dia	From 10m to 100m		
Checked by								
Samples and Tests				Strata				
Depth (m)	Typ & No	Remarks	Date	Time	Description	Depth (m)		
0.40 - 1.00	B1		9/01/2001	00:00	Turf or TOPSOIL	(0.30)		
1.20 - 1.65	D B3	S SW 0 N 4 12/1 11	1.20	dry	MADE GROUND Very loose to loose black angular medium and coarse ash and cinder gravel With bncks and bnck fragments	(1.60)		
1.50 - 2.00	04 US	13 blows 315mm recovered		dry		1.90		
2.50	D6				MADE GROUND Soft brown sandy clay with bnck fragment	(1.10)		
3.00 - 3.45	D7 B8	S SW 0 N 4 11/1 111	3.00	dry		3.00		
3.50	W11							
3.90 - 4.45	W20 U9	14 blow 2.5mm recovered	4.00		MADE GROUND Very soft to soft grey brown slightly sandy clay with bnck fragments	(2.00)		
4.50	D10							
5.00 - 5.45	012 B13	S SW - 0 N=1 1 1 1	5.00	3.00		5.00		
5.00 - 6.45	U14	19 blows 180mm recovered	6.00	5.00	Very soft grey brown CLAY	(1.00)		
6.50	015				Grey slightly gravelly silty SAND Gravel is rounded medium and coarse With some limestone cobbles	(0.80)		
7.00 - 7.45	D18 B17	S SW 0 N 11 11/1 235	7.00	3.30	Firm grey brown sandy CLAY With thin bands of cemented and	(0.00)		
8.00 - 8.45	D19 B19	S W 0 N 14 11/1 345 N Ret m	8.00	4.30		7.00		
9.00 - 9.45	D21	C SW - 0 N-32 98/7 389 Sand filled around rd	9.00	4.00	Medium dense to dense grey clayey fine to coarse SAND and rounded fine to coarse GRAVEL Strong petrol odour	(.30pen)		
9.50 - 9.80	D 3 B24							
				30/01/2001	9.00	4.2	EXPLORATORY HOLE ENDS AT 10.00 m	10.00
Groundwater No Struck Below 1 4.0m Rise to 3.30m at 30 mins 2 7.70m Rise to 3.90m after 30 m				Remarks Hole backfill 0.30m to 3.00m Bent 1 (b) 5.00m to 8.00m Bent 1 (b) Surface protest lion Stop Cock Cap Stand pipe installed 50mm diameter response pipe from 3.00m to 10.00m Site dipper installed 50mm diameter response pipe from 8.00m to 10.00m				
Notes Exploration from L and bbrc (ion) see key sheet All depth and reduced in metres Stratum thickness given in brackets depth column Scale 50				Project MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project No 120219 Client Environment Agency		Borehole BH7 Sheet 1 of 1		

26/04/2001 12.1.31 ESQ. p. 2.06



Exploration Associates

Borehole Log

Drilled by: MSS Logged by: GD Checked by:	Equipment and Method: In pool on Pile in 0.00m to 1.50m Cable Penetration 38 mm diameter 1.0m S 40m	Ground Level: 0.00m OD N h / Gnd C rd n tes
---	--	---

Samples and Tests				Strata		
Depth	Typ & N	Records	Depth C g W r r	Description	Depth (Thickness)	Legend
			05/01/2001	MADE GROUND Ralumac Tarma	0.01	
				MADE GROUND Asphalt	0.11	
				MADE GROUND Grasscourse	0.1	
				MADE GROUND Hardcore	0.41	
1.00 - 2.80 1.80 - 2.25	D1	SW ON 4 1/2 1/1	05/02/2001	MADE GROUND Very loose brown gravelly medium sand Gravel is subangular fine to coarse	(2.49)	
3.00 - 3.45		SW ON 1/1 1			2.80	
3.40 - 4.00	D2			Very soft grey organic CLAY	(1.70)	
4.00 - 4.60 4.20 - 4.5	D3	SW ON 11 1/1 1/3 6			4.00	
4.00 - 8.00 4.60 - 5.25	D4	SW ON 12 8/3 4 2,3		Medium dense grey gravelly very clayey fine to coarse SAND Gravel is subangular fine and medium	(1.20)	
5.80 - 6.40 9.00 - 8.4	D5	SW ON=12 2/3 2 3 4	05/02/2001 1.80	Soft becoming firm laminated brown grey CLAY with occasional fine sand lenses	8.50 (0.60pen)	
				EXPLORATORY HOLE ENDS AT 6.40m	6.40	

Groundwater: N Struck B hauler 1 1.70m landing at 1.70m after 20m runs	Remarks: H is backfill 0.00m to 5.40m An Ings (a)
--	--

No. of Explorations of this kind: Jobber's name and sheet. All depths and reduced depths in metres. Strata thicknesses in brackets depth column Scale 50	Project: MALDON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project no: 120219 Contractor: E n m n t A g n y	Borehole: BH9A Sheet 1 of 1
--	---	-----------------------------------

B.D.1/2001.12.16.38 ESCL.2.08

Borehole Log



Exploration Associates

Samples and Tests		Strata		Ground Level	
Depth	Type & No	Remarks	Description	Depth Level (Thickness)	Legend
			MADE GROUND Ralumac Tarmac	0.01	[Pattern]
			MADE GROUND Asphalt	0.11	
			MADE GROUND Basecourse	0.71	
			MADE GROUND Hardcore	0.41	
1.90 - 2.22	D1	S SW 0 N 4 1 1/1 1 1 1	MADE GROUND Very loose to loose brown slightly gravelly sand Gravel is subangular fine and medium	(.39)	[Pattern]
2.90 - 3.00 3.00 - 3.45		S SW 0 N-3 1-1 1 1	Very soft grey organic CLAY	2.80	[Pattern]
4.00 - 4.70 4.20 - 4.85	D2	S SW 0 N 3 1 1/ 1 1 1		(1.30)	
4.80 - 5.5		S SW = a N=1 8 5/4 3 2 3	Medium dense grey slightly gravelly fine and medium SAND Gravel is subrounded fine and medium	4.70	[Pattern]
6.00 - 6.4		S SW 0 N=12 3 3/3 3 3 3		(1.00)	
6.70 - 7.00 7.00 - 7.50	D3 D4	S SW 0 N=20 15 5 6 4	Soft becoming firm laminated brown grey CLAY with occasional lenses of fine sand	5.70	[Pattern]
				(1.90pon)	
			EXPLORATORY HOLE ENDS AT 7.60m	7.80	

27/04/2001 12.11.44 ESC Log v2.03

Groundwater
No Struck Unconformity
1 1.00m landing at 1.300m after 20m run

Remarks
Hole drilled 0.00m to 7.60m A.G.L.

Notes
Exploration symbols used
Abbreviation key used All depths and coded levels in metres Stratum thicknesses given in brackets in depth column
Scale 1:50

Project
MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME
Project
120219
Contractor
Eidson Engineering

Borehole
BH9B
Sheet 1 of 1

Borehole Log



Exploration Associates

Drill by VSS Logged by CD Checked by		Equipment and Method in position from 0.00m to 1.00m Cable Percussion 38 mm diameter from 1.00m to 6.00m.			Ground Level N of net Gnd Coordinates	
Samples and Tests			Strata			
Depth	Typ & N	Re d	Date	Time	Depth	Log d
			Casing	Wet	(Thick)	
1.00 1.60	D1		10/02/2001			
1.20 1.85		SSW - 0 N 31 6 7/8 9 10 4			MADE GROUND Dark brown slightly gravelly sandy clay Gravel is subangular and fine With cinders and brick fragments	(1.80)
1.50 2.3		SSW 0 N 4 1 1/1 1 1 1	0.00			
2.0 3.40	D2					
4.0 2.8		SSW 0 N 4 1 1/1 1 1 1			Loose occasionally very loose brown very clayey fine to coarse SAND and subrounded fine to coarse GRAVEL	(2.60)
4.00 4.50	D3					
4.0 4.65		SW 0 N=6 2 2/2 1 2 1			Dark brown amorphous sandy PEAT	4.40
4.90 25		SSW 0 N 39 4 7/10 10 9 10			Dense brown grey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL	4.50 (0.60)
00 5.00	D4					
5.40 5.85		SSW 0 N-33 4/8 5 8 9			Fine to silt laminated brown CLAY with lenses of fine sand	5.10 (0.90pen)
			10/02/2001	1.30		
					EXPLORATORY HOLE ENDS AT 3.00 m	5.00
Groundwater No Struck Below 1 1.00m Ranging to 1.50m diller 20 in			Remarks Hole backfill 0.00m to 6.00m Arisipa (a)			
Note For explanation of symbols and abbreviations see key on L All depths in metres Strata thicknesses in metres			Project MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project no 120219 Contractor E L N N 1 Agency		Borehole BH10 Sheet 1 of 1	

27/04/01 12:15:45 ESC g 2/03

Borehole Log



Exploration Associates

Drill d by LC L gg d by GD Check e by		Equipment a d M h d Inspeci P l from 0 00m l 1 20m C bl Percussion 150 mm d amet from 1 0m l 12 00m				Gro d L v 1 National Grid Coordinates		
Samples and Tests			Strata					
D pth	Typ & N	Rec d	D t Ca g	Time W ler	D scription	D plh Le l (Thickness)	L g d	
0 0 0 50	B1		30/01/2001 0 00	0 00	Thin veneer of turf or TOPSOIL			
0 50 1 30	B2				MADE GROUND Coars sand and gravel	0 0 (0 30)		
					MADE GROUND Tarmac (drillers description)	0 50 0 60		
1 0 1 75	D3	S SW 0 N 3 3 2/1 1 1		1 30	MADE GROUND Hard rolled crushed stone	(0 90)		
1 30 1 75	E4					1 50		
2 00 2 45	D	S SW 0 N 7 1 1/1 2 1			MADE GROUND Soft grey brown gravelly clay Gravel med um and coarse and angular With bnck fragments	(1 20)		
00 45	B5					2 70		
2 90	D7							
3 00 3 4	U8	7 bl w		3 00				
3 50	D9							
4 00 4 45	D10	S SW 0 N 1 1 1/ 1		4 00				
4 00 4 45	B11				Vary so ^a grey sandy CLAY Sand is fine	(3 20)		
00 45	U12	11 blows 315mm rccb cred		5 00				
5 0	D13	San lon Cobbl			At around 5 50m an r b cobbles f calc reols n of sandy lime e			
5 90	D14							
6 00 5 45	D1	S SW 0 N-14 2/2 3 4 5		6 00		5 90		
6 30 6 45	B15							
7 00	D17							
7 50 7 95	U18	50 blows 405mm rccb cred		7 30				
8 00	D19				Firm laminated grey CLAY	(6 10)		
8 50	D20							
9 00 9 45	D21	S SW 0 N=29 3 4/7 7 8		9 00				
9 00 9 45	B2				Stiff bel w 0 3 n			
Gr u d W ler N nso ntered				Remarks Hol backfill 0 30m to 4 50m Bent a (b) 5 70m to 6 50m Bent 1 (b) S rface protection Stop Cock Covet blandpipe Plez meter nstalled 19mm aremeter response zo 9 l r n 4 50m 5 70m				
N i f r planat f symbols and abbr vations ea key n l All depths and reduced l 1 1 1 8 Str turn thckn es alva in br ckets In desin column Scal 1 0			Proj t P j ct Ca nct tto		MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME 120219 E m n Ag y		Borehole BH11 Sheet 1 of 2	

20/04/20 11 12 15 43 ESGLog12 06



Exploration Associates

Borehole Log

Drill by LC Logged by GO Checked by		Equipment & Method S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50			Ground Level National Grid Coordinates		
Samples and Tests			Strata				
Depth	Type & N	Records	Date Casing	Time Water	Description	Depth Level (Thickness)	Log
10 00	U23						
10 50 - 10 95	U24	55 bl wa 405mm rock red	10 50	dry	As sheet 1	(5 10pen)	
11 00	D25						
11 50 - 11 95	D25	S.W. ON 43 5 7 19 9 10 16	11 50	dry			
11 50 - 11 95	D27		30/01/2001 11 50	dry			
					EXPLORATORY HOLE ENDS AT 12.00 m	12 00	
Ground			Remark				
Note: For explanation of symbols used abbreviations key: (All depths and red d (c) in m re Strat m thckn g brackoL d ph lum Scal 50			Plot Project no. 120219 Contour En ronn t Ag ncy		Borehole BH11 Sheet 2 of 2		

25-D-2001-15-43 ESC Log v2.03



Exploration Associates

Borehole Log

Drilled by VSS Logged by GD Checked by	Equipment and Method Inspection Pit from 0.00m to 1.00m. Cable Percussion 38 mm diameter from 1.00m to 5.50m	Ground Level 0.00m OD National Grid Coordinate
--	---	--

Samples and Tests			Strata				
Depth	Type & No	Records	Date Case	Time Water	Description	Depth Level (Thickn →)	Legend
0.30 0.100	D1 D2		06/02/2001		MADE GROUND Turf overlying brown clayey brown fine and medium sand	(1.30)	[Cross-hatched pattern]
1.00 1.20 1.65	D3	W ON 3 1 1/1 2.1				1.30	[Cross-hatched pattern]
1.00	D4				MADE GROUND Firm brown lightly gravelly sandy clay Gravel is subangular to rounded fine and medium With block fragments	(1.40)	[Cross-hatched pattern]
2.40 85		SSW ON 16 3 5/5 4 3 4				2.70	[Cross-hatched pattern]
3.00 4.00	D5				Soft laminated grey brown sandy CLAY with lenses of organic material	(1.90)	[Horizontal dashed pattern]
3.60 4.05		SSW ON 6 1 2/1 2 1 1					[Horizontal dashed pattern]
6.50 4.80 5.5	D6	SSW ON 40 3 6/7 9 11 13			Dense brown slightly gravelly fine and medium SAND Gravel is subrounded and fine	(1.00p n)	[Vertical dashed pattern]
			06/02/2001	4.30	EXPLORATORY HOLE ENDS AT 5.0m	5.50	

Groundwater No Struck Bottom 1 4.20m falling to 4.30m after 0.1m	Remarks Hole drilled 0.00m to 5.50m Arising (a)
--	--

Notes: For explanation of symbols and abbreviations see key. All depths and reduced levels in m. Strata thickness given in brackets. 11.50	Project: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Page: 1 Card of: Environment Agency	Borehole: WS1 Sheet 1 of 1
--	--	-------------------------------

2 1/1 001 12 16 49 ESG Log 02 08



Exploration Associates

Borehole Log

D r d by MJS L g g d by GD Ch cked by	Eq ipm nla r M h d Inspection PII from 0.00m to 1.0m Cable Percussion 33 mm diameter for m 1.20m to 3.40m	G d La l National Grid Coord					
Samples and Tests			Strata				
D p l l	Typ & N	R d	D t Ca g	Tim Wet r	D c i p i n	Depth Level (Th ckness)	Lea d
1.00 1.80 1.20 1.65	D1	S SW ON B 1 2/2 3 2,1	13/0	2001	MADE GROUND Light brown rounded coarse gravel	0.20 (0.50)	a
					MADE GROUND Light brown sandy fine to coarse angular limestone gravel With occasional cobbles	0.70 (0.90)	
1.40 2.65		S SW ON 4 1 1/1 1 1 1	000		MADE GROUND Loose brown fine to coarse sand and angular to subangular fine and medium gravel With brick fragments and cinders	1.60	
3.60 4.05		S SW ON 12 1 1/1 4 3 4			Very loose to loose brown medium SAND with occasional bands of sandy clay	(2.10)	
4.80 5.5 5.00 5.0	D2	S SW ON 17 3 4/3 4 4 6			Medium dense becoming dense brown grey fine to medium SAND and angular fine to medium GRAVEL	(2.700m)	
5.00 5.45		S SW ON 40 9 7/9 9 10 12	13/02/2001	100			
					EXPLORATORY HOLE ENDS AT 5.40m	6.40	
Gr undwa r No Stri k Beh e o r 1 1.00m light infl w					Remarks Hole backfill 0.00m to 6.40m As u (a)		
Notes: For explanation of symbols and abbreviation see key at all depths and rod code in depth column Scale 1:50					P i t P o j ct Card d f		Borehole WS2 Sheet 1 of 1
MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME 120219 Envir nment Agenc y							

b 04 2.01 12 16-57 ESGL 9 02 03



Exploration Associates

Borehole Log

Drilled by MSS Logged by GD Checked by		Equipment and Method Inspection Pit from 0.00m to 1.00m C bit Percussion 38 mm diameter from 1.00m to 7.00m				Ground Level National Grid Contour	
Samples and Tests			Strata				
Depth	Typ & N	Remarks	Date	Time	Description	Depth (m)	Log
0.00 - 1.00	D1	SSW 0 N 7 1-1 2 2 2	06/02/2001		MADE GROUND Black paving overlying light brown fine to medium sand	0.20 - 0.30	
1.00 - 1.80							
1.80 - 2.25		SSW 0 N S 2 1 / 1 2 2					
2.40 - 2.85		SSW 0 N S 1 1 / 1 2 1					
3.80 - 4.05		SSW 0 N 3 1 / 1 1 1			MADE GROUND Loose occasionally very loose dark brown clayey fine and medium sand and subangular fine and medium gravel with brick cobbles and cinders	(4.90)	
4.80 - 5.25		SW 0 N 4 1-1 1 1 1					
5.40 - 5.85	D2	SSW 0 N 12 3 3 3 3 3			Soft brown grey sandy CLAY with occasional bands of fine and medium sand	(5.20) - (6.00)	
6.00 - 6.45		SSW 0 N 14 3 3 3 3 4 4					
6.45 - 7.00	D3	SSW 0 N 121 7 7 8 9 3 10 10			Dense brown fine and medium SAND	(6.80 open)	
			02/02/2001	dry	EXPLORATORY HOLE ENDS AT 7.00 m	7.00	
Groundwater No groundwater encountered.			Remarks H1 backfill 0.00m to 7.00m A-1 g (s).				
Notes For explanation of symbols and abbreviations see key sheet. All depths are reduced to datum. Scale 1:100.			Project MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME		Borehole WS3 Sheet 1 of 1		

20/04/2001 12:17:02 ESLog V2.0B



Exploration Associates

Borehole Log

Samples and Tests		Strata			Groundwater	
Depth	Type & N	Ref	DI	Des	Depth	Log
			Casing	pon	(Th k a)	
			10/02/001	CONCRETE	0.15	
				MADE GROUND Hardcore	0.40	
1.60 - 2.20	D1	SSW 0N-2 1-1 1		MADE GROUND Very loose brown slightly clayey sand and gravel With cinders	(3.20)	
1.80 - 2.5						
2.0 - 3.40	D2			Soft becoming firm occasionally stiff brown sandy gravelly CLAY Gravel is subangular to subrounded fine to coarse	(~40pan)	
3.00 - 3.45		SSW 0N-3 1-1 11				
4.00 - 4.60	D3			EXPLORATORY HOLE NDS AT 6.00 m	6.00	
4.20 - 4.66		SSW 0N=10 2 3/2, 3 3				
5.00 - 6.00	D4		10/02/2001			
5.40 - 5.85		SSW 0N-38 5 6/8 9 3 10	3.00			
Groundwater				Remarks		
No Struck Behaviour				Hole checked 0.00 to 6.00 m Arising (e)		
1 3.00m alignment						
Notes For explanation of symbols and abbreviations see key sheet All depths and recorded in metres Strata thickness given in brackets in depth column Scale 1:1			Project		Borehole	
			MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME		WS4	
			120219		Sheet 1 of 1	
			Environment Agency			

20/04/20 11.17.07 ESG/lop 2 03



Exploration Associates

Borehole Log

Drilled by MSS Logged by GD Checked by		Equipment Method Inspection Pit from 0.00m to 1.20m Cable Percussion 35 mm diameter from 1.20m to 6.00m			Ground Level National Grid Coordinates		
Samples and Tests				Strata			
Depth	Typ & N	Remarks	Date Time	Description	Depth (m)	Ground Level	
0.0 - 1.00	D1		06/02/001	MADE GROUND Turf overlying brown fine and medium sand	(0.60)		
1.20 - 1.0	D2			Brown fine and medium SAND	(0.50)		
1.60 - 2.20	D3			Firm brown slightly gravally sandy CLAY Gravel is angular to subangular fine to coarse	(0.80)		
1.30 - 2.25		S SW ON 7 11/1222					
0.0 - 2.80	D4				2.00		
3.00 - 4.00	D5			Medium dense occasionally dense brown slightly clayey medium SAND and subangular fine to medium GRAVEL	(2.00)		
3.00 - 3.45		S SW ON 20 34/5555					
3.90 - 4.05		S SW ON 33 48/79107					
4.00 - 4.50	D6						
4.20 - 4.65		S SW ON 18 73/4545					
4.50 - 5.00	D7						
4.80 - 5.25		S SW ON 4 33/6866					
5.40 - 85		S SW ON 20 55/5555		Firm to stiff brown grey CLAY with mudstone fragments	(1.60pe 1)		
5.0 - 00	D8		06/02/001				
				EXPLORATORY HOLE ENDS AT 8.00 m	8.00		
Groundwater No Sink Borehole 1.20m light seepage				Remarks Hole backfill 0.00m to 8.00m Ansmgs (a)			
Notes For plotting symbols and abbreviations see key sheet All depth and duct level in metres State with 2 decimal places in depth column Scale 1:150				Project MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME 120219 Client Environment Agency		Borehole WS5 Sheet 1 of 1	

28/04/2011 12:17 12 ESGL 2.08



Exploration Associates

Borehole Log

Samples and Tests		Strata					
Depth	Typ & No	Reord	Date	Temp	Description	Depth Level (Thicknes.)	Legend
0.0 - 0.70	D1		13/02/2001		MADE GROUND Light brown sand and limestone gravel	(0.70)	[Cross-hatched pattern]
1.20 - 1.05	SSW 0N-8 2 1/2 2.2.2				MADE GROUND Loose becoming very loose dark brown ash and cinders	(1.90)	[Cross-hatched pattern]
2.40 - 2.85	SSW 0N-3 1 1/1 1.1					2.80	[Cross-hatched pattern]
3.00 - 4.00	D2				Soft grey organic CLAY	(1.50)	[Horizontal lines]
3.00 - 4.05	SSW 0N-6 1 2/1 1.1					4.10	[Horizontal lines]
4.00 - 5.20	D3				Very loose to loose dark grey slightly gravelly very clayey fine to medium organic SAND with occasional pockets of soft clay Gravel is subangular to subrounded fine and medium	(1.50)	[Dotted pattern]
4.80 - 5.5	SSW 0N-4 2 1/1 1.1.1					5.70	[Dotted pattern]
6.00 - 6.45	SSW 0N-25 3 3/3 10.7.5				Stiff brown gravelly CLAY Gravel is angular fine to medium of limestone	(0.40)	[Dotted pattern]
6.50 - 6.95	SSW 0N-49 8 7/7 18 13 11				Medium dense becoming dense light brown fine to coarse SAND and subangular fine to coarse GRAVEL	(0.90cen)	[Dotted pattern]
			13/02/2001	0.30	EXPLORATORY HOLE ENDS AT 7.00m	7.00	
Gou dw No St k B ha lou 1 1.20m R: ing lo 0.90m after 20 mins		R m rks H le backfill 0.00m lo 7.00m Ans g- ()					
Note: For explanation of symbols and abbreviations see key sheet. All depths and depths to level of stratum thickness given in bracket in depth column Scale 1:0		Proj MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Proj ctn 120219 Carr d Utr r C ro men Ag y				Borehole WS6 Sheet 1 of 1	

01 01 12 17 19 ESGLog v2.08



Exploration Associates

Borehole Log

Drill d by VSS Logged by GD Checked by		Equipment d M th de Cable Percu s on 38 mm diam ter (r m 000m 1 110m				Ground L vol Nat nal Gr d Coa d t	
Samples and Tests			Strata				
D pit	Typ & N	R rd	D t C g	Tim Water	D scription	D pth Lev l (Th kness)	Leg d
0 30 0 40 1 00 0 40 0 85	D1 D2	S SW - 0 N 75 e 10/15 17 19 24	13/0./ 001		Dark brown TOPSOIL	(0 60)	
			13/0./ 001	dry	Work light brown LIMESTONE	(0 50pan)	
					EXPLORATORY HOLE ENDS AT 110m	1 10	
Gro dw ler No groundwater encountered					R m rks Hol backfill 000m to 110m Ans ng- (a)		
Notes For expl ion of symb ls and abbro tio s ek y sheet All depth and red ced level m tres Stratum thckness given in brack ts d pth col n Scal 1 50			Pr j e t MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME P j t o. 120219 Carr d tt E lr nm tAg cy			Borehole WS7 Sheet 1 of 1	

20/04/001 12 1 21 ESG Log 12 38



Exploration Associates

Borehole Log

Drill aoy MSS L gg d by GD Check d by	Equipm nt and M tn d Inspection Pit from 0.00m to 1.20m Cable Percussion 38 mm diameter from 1.20m to 6.00m	Grid Le l N b al Grid C ordinat
---	--	---------------------------------------

Samples and Tests				Strata			
D pth	Typ & No	R c rds	Out Casing	Tm W cr	Description	D pth L i (Th hn ss)	Legend
0.40 - 1.00	01		10/02/2001		Turf or er brown TOPSOIL Occasional fine rootlet	(0.40)	
1.70 - 1.85		SSW - 0 N 4 1 / 1 1 1 1			Loose brown slightly gravelly clayey SAND Gravel is fine to medium	(1.50)	
2.00 - 2.80	D2					2.00	
2.40 - 2.85		SSW an 13 2 2 / 3 3 3 4					
2.80 - 3.40	D3				Medium dense brown clayey fine to coarse SAND and subangular to subrounded fine to coarse GRAVEL	(1.70)	
3.00 - 3.45		SSW 0 N 18 4 4 / 4 4 5 5					
4.00 - 4.80	D4					3.70	
4.20 - 4.6		SSW 0 N 6 3 3 / 4 4 4 4			Medium dense grey brown slightly gravelly clayey fine to coarse SAND Gravel is subrounded fine and medium	(1.20)	
5.0 - 5.85		SSW - 0 N 28 5 5 / 7 7 7 7				4.90	
			10/02/2001	0.70		(1.10pc)	
					EXPLORATORY HOLE ENDS AT 6.00m	6.00	

Groundwater No Struck Behaviour 1 0.70m standing to 0.70m after 20mins	Remarks Hole backfill: 6.00m to 6.00m Anc nge (a).
--	---

Notes for explanation of symbols and abbreviations key sheet All depths and reduced levels in metres Stratum thicknesses given in brackets in depth column Scale 1:50	Project MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project 120219 Contractor Enron Construction	Borehole WS8 Sheet 1 of 1
---	--	--

26/04/2001 12:17:25 ESGL 9 V2 D3



Exploration Associates

Borehole Log

Drill'd by MS5 Log'd by GD Checked by		Equipment and Method Inspection Pit from 0.00m to 1.20m Cable Percussion 38 mm diameter from 1.20m to 8.00m				Grid Location National Grid Coordinates	
Samples and Tests			Strata				
Depth	Typ & No	Remarks	Date	Time	Description	Depth (Thickness)	Legend
			10/02/2001		Turf or TOPSOIL	(0.30)	
0.30 - 1.00	D1				MADE GROUND Loose brown gravelly sand with cinders Gravel is angular to subrounded fine to coarse	0.30 - (1.00)	
1.00 - 1.50	D2	SSW ON 5 11/1 2 1 1			Brown clayey SAND	1.30 - (0.30)	
1.0 - 1.05							
1.80 - 2.0	D3	SSW ON-4 11/1 1 1 1					
1.80 - 5							
2.20 - 2.50	D4	SSW ON 4 11/1 1 1 1	0.00		Soft brown sandy CLAY with occasional bands of firm clay	(2.40)	
2.40 - 2.85							
3.00 - 4.05	D5	SSW ON=3 1 / 1 1 1			Loose brown fine and medium SAND and angular fine to coarse GRAVEL	4.00 - (0.60)	
3.80 - 4.05							
4.80 - 5.0	D6	SW ON 16 4/4 4 4			Firm becoming stiff brown grey sandy CLAY	(1.40 open)	
4.80 - 5.5							
5.20 - 5.80	D7	SSW ON 25 5/5 5 7					
5.40 - 6.85							
			10/02/2001	1.20	EXPLORATORY HOLE ENDS AT 5.00m	5.00	
Groundwater No Struck Bottom 1 - 1.00m Rise to 1.20m after 20 min.				Remarks Hole backfill 0.00m to 5.00m Art Ings ()			
Note: explanation of symbol and abbreviation key shown. All depth and reduced levels in metre. Stratum thickness given in brackets. Depth in column. Scale 1:50.			Project: MALTON NORTON AND OLO MALTON FLOOD ALLEVIATION SCHEME Date: 120219 Carried out by: Envir. Impact Agency		Borehole: WSS9 Sheet 1 of 1		

25/04/01 12:30 ESC/03 v2.03



Exploration Associates

Borehole Log

D rilled by MS Logged by GD Checked by		Equipment and Method Inspection Pit from 0.00m to 1.00m. Core P. core on 38 mm diameter from 1.00m to 4.80m				Grid Location National Grid Coordinate	
Samples and Tests				Strata			
Depth	Type & No	Remarks	Depth Core Water	Description	Depth (Thickness)	Legend	
			10/0 /2001	Dark brown TOPSOIL	(0.70)		
1.20 - 1.05		SSW - 0 N - 3 1 1 1 1		Soft brown slightly gravelly sandy CLAY Gravel is subangular fine and medium	0.70		
1.50 - 2.0	D1						
2.40 - 2.30		SSW - 0 N 11 1 1 2 3 3 3		Stiff grey CLAY with mudstone fragments	3.00		
3.00 - 3.45	D2	SSW - 0 N 2 S 5 S 5 5 5					
3.60 - 4.05		SSW - 0 N 41 5 8 7 7 8 9					
4.20 - 4.55		SSW - 0 N 43 7 9 10 12 12	10/0 /2001 3 30	EXPLORATORY HOLE ENDS AT 4.80 m	(1.50pen)		
4.40 - 4.60	D3						
Go down to N Strik Banavio 1 0.70m				Remarks H to backfill 0.00m to 4.50m Annings ()			
Not for explanation of symbols and abbreviations separately. All depths and reduced lengths in metre. Stratigraphic units in inner column. Scale 1:80				Project MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project No 120219 Carried by E m m Agency		Borehole WS10 Sheet 1 of 1	

20/04/2011 12:16:53 ESGLog v7.08

Borehole Log



Exploration Associates

Drill by MS Logged by GO Checked by	Estimated Maximum Depth Location Pit from 0.00m to 1.00m C. ble P. cau on 38 mm diameter from 1.00m 4.60m	Ground Level National Grid Coordinate
---	--	---

Samples and Tests			Strata				
Depth	Typ & N	Remarks	Date	Time	Description	Open Level (Thickness)	Level
			10/02/00		Dark brown TOPSOIL	0.70	0.70
20.105		SSW ON 1					
50.220	D1				Soft brown slightly gravelly sandy CLAY Gravel subangular fine and medium	(2.30)	
40.280		SSW ON 1 1/2 3 3 3					
30.500	D2					3.00	
30.345		SSW ON 2 5 5 5 5 5 6					
350.405		bbw LN 1 0/7 7 8 9			Stiff gray CLAY with mudstone fragments	(5.00m)	
400.455		SSW ON 4 6 7 9 10 12, 12					
400.600	D3		01/01/01	3.50	EXP. OPERATORY HOLE NDS AT 4.60m	4.60	

G... N... 1 0.70m	Remarks To backfill 0.00m to 1.00m An...
-------------------------	---

Note: For explanation of symbols and abbreviations see... Scale 50	Project: MALTON NORTON AND OLD MALTON FLOOD ALLEVIATION SCHEME Project: 20219 Client: Environment Agency	Borehole WS10 Sheet 1 of 1
---	--	---

20/04/2021 12:18:53 ESC: g 09