



APPENDIX C

**Testpit and Boreholes Logs (Dames & Moore 1999,
Geotechnique 2003 and Golder BH's 2005)**



Testpit and Boreholes Logs - Dames & Moore 1999

PROJECT: DEFENCE FORCE – INGLEBURN

TEST PIT: TP1

SHEET 1 of 1

Surface elevation: –


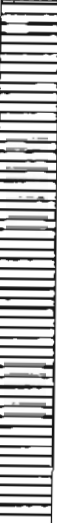


Test Pit location: 33°58'81"

Date: 13/5/98

Excavation method: Backhoe

Logged by: A.B.

Checked by: –

SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	FIELD MONITORING	SAMPLE INTERVALS
(FILL): sandy clay; brown; low plasticity; moist; sand fine grained; roots	0.0		CL	mc < pl	
CLAY: red/ orange, some grey, medium plasticity; moist; trace roots; no odour.	0.5		CL	mc < pl	
CLAY: grey, some orange; dry-moist; medium plasticity; no odour.	1.0		CL	mc < pl	
SHALE: grey/orange; extremely weathered; dry, dry-moist; medium plasticity; no odour.	1.5			mc < pl	
TEST PIT TERMINATED AT 1.9m. TARGET DEPTH					

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 CONTAMINATION ASSESSMENT
 INGLEBURN DEFENCE SITE

TEST PIT LOG



12343-063-070

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PROJECT: DEFENCE FORCE – INGLEBURN

TEST PIT: TP2

SHEET 1 of 1

Surface elevation: –


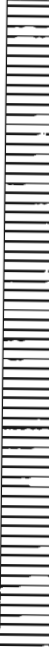


Test Pit location: 33°59'01"; 150°51'52"

Date: 13/5/98

Excavation method: Backhoe

Logged by: A.B.

Checked by: –

SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	FIELD MONITORING	SAMPLE INTERVALS
(FILL): clayey sand; brown/yellow; fine; moist; some gravel; roots	0.0		SC		
CLAY: brown/orange; medium plasticity; moist soft; trace roots.	0.5		CL	mc < pl	
SHALE: grey/white; medium plasticity; dry; highly weathered	1.0		CL	mc < pl	
SHALE: pink/yellow; moderately weathered.	1.5				
TEST PIT TERMINATED AT 1.8m. TARGET DEPTH					

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 INGLEBURN DEFENCE SITE

TEST PIT LOG






12343-063-070

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PROJECT: DEFENCE FORCE – INGLEBURN	TEST PIT: TP3	SHEET 1 of 2
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Surface elevation: –	Test Pit location: 33°37'89"S;150°52'37"E
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Date: 13/5/98 Logged by: A.B.	Excavation method: Bockhoe Checked by: –
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SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	FIELD MONITORING	SAMPLE INTERVALS
CLAYEY SAND: brown; fine grained; moist; trace roots.	0.0		SC		
SANDY CLAY: brown low plasticity; moist; roots; becoming grey.	0.5		CL	mc < pl	
CLAY: yellow & white mottled; medium plasticity moist; soft; no odour.	1.0			mc < pl	

DEPARTMENT OF DEFENCE INGLEBURN GEOTECHNICAL STUDY AND CONTAMINATION ASSESSMENT INGLEBURN DEFENCE SITE	TEST PIT LOG
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Surface elevation: –	Test Pit location: 33°57'89"S;150°52'37"E
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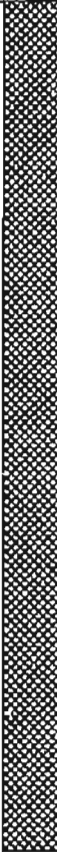

Date: 13/5/98 Logged by: A.B.	Excavation method: Backhoe Checked by: –
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SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	FIELD MONITORING	SAMPLE INTERVALS
water seeping into TP; becoming hard; some ironstone.	2.0				
TEST PIT TERMINATED AT 2.95m.	3.0				

DEPARTMENT OF DEFENCE INGLEBURN GEOTECHNICAL STUDY AND CONTAMINATION ASSESSMENT INGLEBURN DEFENCE SITE	TEST PIT LOG
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Surface elevation: -	Test Pit location: 33°38'25"S;150°51'91"E
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Date: 13/5/98 Logged by: A.B.	Excavation method: Backhoe Checked by: -
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SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	FIELD MONITORING	SAMPLE INTERVALS
(FILL): sandy clay, medium plasticity; moist; soft; pieces of wood; plastic; garbage; bottles; hose piping	0.0		CL	mc < pl	
water in hole	0.5				
water in hole	1.0				
CLAY: white trace red; medium plasticity; moist-wet; some ironstone.	1.5		CL	mc > pl	
TEST PIT TERMINATED AT 1.85m					

DEPARTMENT OF DEFENCE INGLEBURN GEOTECHNICAL STUDY AND CONTAMINATION ASSESSMENT INGLEBURN DEFENCE SITE	TEST PIT LOG
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PROJECT: DEFENCE FORCE – INGLEBURN	TEST PIT: TP5	SHEET 1 of 1
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Surface elevation: –	Test Pit location: 33°58'56"S, 150°50'57"E
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Date: 13/5/98 Logged by: A.B.	Excavation method: Backhoe Checked by: –
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SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	FIELD MONITORING	SAMPLE INTERVALS
CLAY: yellow/brown; medium plasticity; moist; soft; no odour.	0.0		CL	mc = pl	
SHALY CLAY: orange/brown; medium plasticity; moist; hard; some ironstone; layering bands.	1.5		L	mc < pl	
SHALE: brown/red; moderate weathered; some ironstone.					
TEST PIT TERMINATED AT 1.95m					

DEPARTMENT OF DEFENCE INGLEBURN GEOTECHNICAL STUDY AND CONTAMINATION ASSESSMENT INGLEBURN DEFENCE SITE	TEST PIT LOG
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Surface elevation: -	Test Pit location: 33°58'52"S, 150°51'30"E
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Date: 13/5/98 Logged by: A.B.	Excavation method: Backhoe Checked by: -
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SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	FIELD MONITORING	SAMPLE INTERVALS
CLAYEY SAND: brown; fine; moist; clay medium plasticity soft; roots.	0.0		SC		
CLAY: red; medium plasticity; dry-moist; stiff; no odour.	0.5		CL	mc < pl	
CLAY: grey/white; low plasticity; dry.	1.0		CL	mc < pl	
SHALE: brown/red; moderate weathered; some ironstone bands hard.	1.5				
TEST PIT TERMINATED AT 1.8m					

DEPARTMENT OF DEFENCE INGLEBURN GEOTECHNICAL STUDY AND CONTAMINATION ASSESSMENT INGLEBURN DEFENCE SITE	TEST PIT LOG
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PROJECT: DEFENCE FORCE – INGLEBURN

TEST PIT: TP7

SHEET 1 of 1

Surface elevation: –

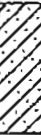





Test Pit location: 33°58'41"S, 150°51'27"E

Date: 13/5/98

Excavation method: Backhoe

Logged by: A.B.

Checked by: –

SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	FIELD MONITORING	SAMPLE INTERVALS
CLAYEY SAND: brown; fine grained; moist.	0.0		SC		
CLAY: red; medium plasticity, moist; stiff; no odour.	0.5		CL	mc < pl	
CLAY: yellow; medium plasticity; dry moist; very stiff no odour.	1.0			mc < pl	
SHALE: brown/red; moderate weathered; some ironstone bands hard.					
SANDSTONE: yellow; fine grained; highly weathered; dry.					
TEST PIT TERMINATED AT 1.45m. REFUSAL	1.5				

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TEST PIT LOG



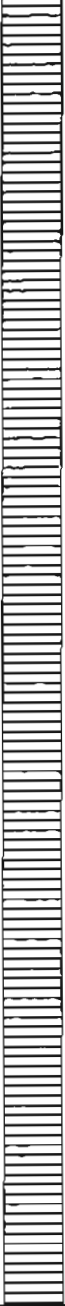
12343-063-070

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PROJECT: DEFENCE FORCE – INGLEBURN	TEST PIT: TP8	SHEET 1 of 1
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Surface elevation: –	Test Pit location: 33°58'81"S, 150°51'26"E
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Date: 13/5/98 Logged by: A.B.	Excavation method: Backhoe Checked by: –
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SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	FIELD MONITORING	SAMPLE INTERVALS
CLAY: brown; low plasticity; moist; very soft; no odour.	0.0		CL	mc < pl	
CLAY: grey/white with red; medium plasticity; very moist; very soft, no odour; some ironstone; H ₂ O in test pit.	0.5			mc > pl	
becoming dry and hard	1.0				
SHALY CLAY: grey some red; low plasticity; dry; stiff.	1.5			mc < pl	
TEST PIT TERMINATED AT 2.0m.					

DEPARTMENT OF DEFENCE INGLEBURN GEOTECHNICAL STUDY AND CONTAMINATION ASSESSMENT INGLEBURN DEFENCE SITE	TEST PIT LOG
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PROJECT: DEFENCE FORCE – INGLEBURN

TEST PIT: TP9

SHEET 1 of 1

Surface elevation: –



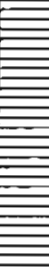



Test Pit location:

Date: 13/5/98

Excavation method: Backhoe

Logged by: A.B.

Checked by: –

SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	FIELD MONITORING	SAMPLE INTERVALS
CLAYEY SAND: brown; fine grained; moist; roots; no odour.	0.0		SC	TP PID = 0	
CLAY: red/brown; medium plasticity; dry-moist; stiff; no odour; trace roots.	0.5		CL	mc < pl	
CLAY: yellow/white; medium plasticity; dr.; friable; some sand very fine grained; no odour.	1.0			mc < pl	
SHALY CLAY: grey/white; dry, very stiff; no odour.					
SHALE: yellow/white; slightly weathered; very hard; no odour.					
TEST PIT TERMINATED AT 1.2m. REFUSAL	1.5				

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 INGLEBURN DEFENCE SITE

TEST PIT LOG



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Surface elevation: –	Test Pit location: HORSE Paddock
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Date: 13/5/98 Logged by: A.B.	Excavation method: Backhoe Checked by: –
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SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	FIELD MONITORING	SAMPLE INTERVALS
GRASS COVER	0.0		SC	TP PID = 0 mc < pl	
SANDY CLAY: dark brown; medium moist; vary soft; roots; no odour; (top soil)			CL		
CLAY: grey/brown; medium plasticity; moist; soft; some gravel(max dia.5mm); trace sand; trace roots; no odour.	0.5				mc < pl
CLAY: yellow/brown; medium plasticity; moist; vary soft; trace roots; no odour.	1.0			mc < pl	
trace ironstone	1.5				

DEPARTMENT OF DEFENCE INGLEBURN GEOTECHNICAL STUDY AND CONTAMINATION ASSESSMENT INGLEBURN DEFENCE SITE	TEST PIT LOG
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Surface elevation: –	Borehole location: 33°58'64", 150°51'73"
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Date: 4/5/98 Logged by: A.B.	Drill type: P160 Checked by: – Drilling method: Auger
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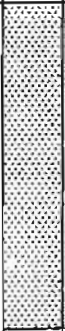
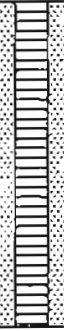
SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	WELL CONSTRUCTION	FIELD MONITORING	SAMPLE INTERVALS
CLAY: brown; low plasticity; dry to moist; moisture content < plastic limit; stiff to firm; no odour	0.0		CL		SPT 2,3,4 N=7	
CLAY: grey with some brown; low plasticity; dry; moisture content < plastic limit; stiff; no odour : some grey & brown layering	1.0		CL		SPT 5,7,16 N=23	
SHALE: grey; extremely weathered; very dry; some siltstone : some brown/orange clay	2.0		ML		SPT 3,13,11 N=24	
: dark grey	3.0		ML		SPT 21 (refusal after 130mm)	
	4.0		ML			

DEPARTMENT OF DEFENCE INGLEBURN GEOTECHNICAL STUDY CONTAMINATION ASSESSMENT INGLEBURN DEFENCE SITE	WELL CONSTRUCTION LOG
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PROJECT: DEFENCE FORCES – INGLEBURN	BOREHOLE: BH1	SHEET 3 of 3
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Surface elevation: –	Borehole location: 33°58'64", 150°51'73"
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Date: 4/5/98	Drill type: P160	
Logged by: A.B.	Checked by: –	Drilling method: Auger

SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	WELL CONSTRUCTION	FIELD MONITORING	SAMPLE INTERVALS
SANDSTONE: white	8.0		SST			
BOREHOLE TERMINATED AT 9.0m AUGER REFUSAL. WELL INSTALLED.	9.0					
	10.0					
	11.0					

DEPARTMENT OF DEFENCE INGLEBURN GEOTECHNICAL STUDY CONTAMINATION ASSESSMENT INGLEBURN DEFENCE SITE	WELL CONSTRUCTION LOG
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PROJECT: DEFENCE FORCES – INGLEBURN

BOREHOLE: BH2

SHEET 1 of 3

Surface elevation: –

Borehole location: 33°58'74", 150°51'08"





Date: 4/5/98

Drill type: P160

Logged by: A.B.

Checked by: –

Drilling method: Auger

SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	WELL CONSTRUCTION	FIELD MONITORING	SAMPLE INTERVALS
<p>FILL (SAND): yellow; moist; medium grained</p> <p>: bits of black plastic</p>	<p>0.0</p> <p>1.0</p>		<p>SP</p>			
<p>CLAY: orange with some grey; low plasticity; dry; moisture content < plastic limit; very stiff; no odour</p> <p>: predominantly grey</p> <p>: trace ironstone</p> <p>: laminated with ironstone</p>	<p>2.0</p> <p>3.0</p> <p>4.0</p>		<p>CL</p>		<p>SPT 5,7,15 =>N=22</p> <p>SPT 4,12,21 =>N=33</p> <p>SPT 5,10,15 =>N=25</p> <p>SPT 9,16,20 (refusal after 430mm)</p>	

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 CONTAMINATION ASSESSMENT
 INGLEBURN DEFENCE SITE

WELL CONSTRUCTION LOG

PROJECT: DEFENCE FORCES – INGLEBURN	BOREHOLE: BH2	SHEET 2 of 3
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Surface elevation: –	Borehole location: 33°58'74", 150°51'08"
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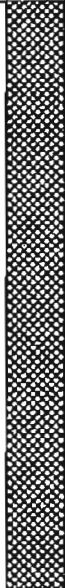

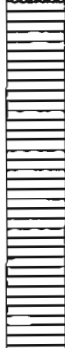



Date: 4/5/98	Drill type: P160
Logged by: A.B.	Checked by: –
Drilling method: Auger	

SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	WELL CONSTRUCTION	FIELD MONITORING	SAMPLE INTERVALS
SHALE: grey/brown; medium plasticity; extremely weathered; very dry; some ironstone; no odour	4.0		CL			
: block; no ironstone; trace coal	5.0		ML			
: grey/brown; no ironstone	6.0					
	7.0					

DEPARTMENT OF DEFENCE INGLEBURN GEOTECHNICAL STUDY CONTAMINATION ASSESSMENT INGLEBURN DEFENCE SITE	WELL CONSTRUCTION LOG
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Surface elevation: – Borehole location: 33°58'74", 150°51'08"

Date: 5/5/98 Drill type: P160
 Logged by: A.B. Checked by: – Drilling method: Auger

SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	WELL CONSTRUCTION	FIELD MONITORING	SAMPLE INTERVALS
FILL (SANDY CLAY): brown; low plasticity; dry; moisture content < plastic limit; firm to stiff; sand fine grained; some gravel (max dia 10mm); no odour	0.0 1.0		CL		SPT 4,7,6 =>N=13 SPT 2,1,2 =>N=3 SPT 2,2,3 =>N=5	
CLAY: brown, some red; medium plasticity; moist; moisture content < plastic limit; stiff; no odour	2.0		CL		SPT 2,5,6 N=11 SPT 2,4,6 N=10	
CLAYEY SANDSTONE: yellow/white; fine grained; extremely weathered; clay medium plasticity; dry; moisture content < plastic limit; no odour : laminated with ironstone	3.0 4.0		CL		SPT 12,15 (refusal after 210mm)	

DEPARTMENT OF DEFENCE INGLEBURN GEOTECHNICAL STUDY CONTAMINATION ASSESSMENT INGLEBURN DEFENCE SITE	WELL CONSTRUCTION LOG
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Testpit and Boreholes logs - Geotechnique 2003

engineering log - excavation

Client : Liverpool City Council		Job No. : 4586/1	
Project : Edmondson Park Release Area		Pit No. : 15	
Location : Edmondson Park		Date : 19/11/2002	
		Logged/Checked by : MC	
Equipment type and model : JCB 3CX Backhoe		R.L. surface : -	
Excavation dimensions : 2.0 m long 0.5 m wide		datum : -	

1	2	3	penetration	groundwater	samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency	density index	hand penetrometer kPa	Remarks
					DS		0			TOPSOIL, Clayey Silt, low plasticity, brown	M<PL				
							0.5		CI-CH	CLAY, medium to high plasticity, red	M≥PL	H			Residual
					DS		1			grading to Sandy Clay from 1.0m					
							1.5			SANDSTONE, fine to medium grained, orange, extremely weathered, low strength					Bedrock
				Dry			1.6			Test Pit terminated at 1.6m					
							2								
							2.5								
							3								
							3.5								
							4								
							4.5								

engineering log - excavation

Client :		Liverpool City Council			Job No. :		4586/1			
Project :		Edmondson Park Release Area			Pit No. :		16			
Location :		Edmondson Park			Date :		19/11/2002			
					Logged/Checked by :		MC			
Equipment type and model :				JCB 3CX Backhoe			R.L. surface :			-
Excavation dimensions :				2.5	m long	0.5	m wide	datum :		-

penetration	groundwater	samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks
				0			FILL, Gravelly Clay and Topsoil, medium plasticity Gravelly Clay, orange, red, Clayey Silt Topsoil	M<PL			Poorly to moderately compacted
		DS		0.5							
				1							
				1.5		CI	CLAY, medium plasticity, orange	M _s PL	VSt-H		Residual
				2							
				2.5							
				3			Test Pit terminated at 2.9m on Shale/Siltstone bedrock				
				3.5							
				4							
				4.5							

engineering log - excavation

Client : Liverpool City Council		Job No. : 4586/1	
Project : Edmondson Park Release Area		Pit No. : 17	
Location : Edmondson Park		Date : 19/11/2002	
Logged/Checked by : MC			
Equipment type and model : JCB 3CX Backhoe		R.L. surface : -	
Excavation dimensions : 2.0 m long 0.5 m wide		datum : -	

1	2	3	penetration	groundwater	samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency	density index	hand penetrometer kPa	Remarks
					DS		0			TOPSOIL, Silt, low plasticity, brown	M<<P L				
					DS		0.5		CI-CH	CLAY, medium to high plasticity, red	M≤PL	H			Residual
					DS		1		CL-CI	Sandy CLAY, low to medium plasticity, pale orange	M<PL	H			
							1.5			SANDSTONE, fine grained, pale orange					
							2								
							2.5								
							3								
							3.5								
							4								
							4.5								

engineering log - excavation

Client :		Liverpool City Council			Job No. :		4586/1				
Project :		Edmondson Park Release Area			Pit No. :		18				
Location :		Edmondson Park			Date :		19/11/2002				
					Logged/Checked by :		MC				
Equipment type and model :				JCB 3CX Backhoe			R.L. surface :			-	
Excavation dimensions :				3.0 m long		0.5 m wide		datum :			-
penetration	groundwater	samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks
1	2	3		0			TOPSOIL, Silt, low plasticity, brown	M<<P L			
		DS		0.5		CL-CI	Silty CLAY, low to medium plasticity, orange-red-brown, with trace of sand	M<PL	VSt		Alluvium
		DS		1.5		CI	Gravelly CLAY, medium plasticity, mottled grey-orange, with ironstone pea gravels 10mm size	M>PL	VSt		
		DS		2.5		CI-CH	CLAY, medium to high plasticity, grey and orange, with minor fine ironstone gravel	M>PL	VSt-H		Possibly Residual
		DS		3.0		CI-CH	CLAY, medium to high plasticity, pale grey, with minor orange, minor fine ironstone gravel	M>PL	VSt-H		
				3.3			SHALE, low strength, extremely weathered, iron indurated, orange	W			Bedrock
				3.5			Test Pit terminated at 3.3m				
				4.0							
				4.5							

engineering log - excavation

Client :		Liverpool City Council			Job No. : 4586/1									
Project :		Edmondson Park Release Area			Pit No. : 19									
Location :		Edmondson Park			Date : 19/11/2002									
Logged/Checked by : MC														
Equipment type and model :				JCB 3CX Backhoe		R.L. surface : -								
Excavation dimensions :				2.0	m long	0.5 m wide								
				datum : -										
1	2	3	penetration	groundwater	samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks
					DS		0	▨	CI-CH	TOPSOIL, Silty Clay, low plasticity, brown CLAY, medium to high plasticity, red	M<< PL M<PL	H		Residual
					DS		0.5	▨						
					DS		1	▨						
					DS		1.5	▨	CI	CLAY, medium plasticity, grey	M< PL	VSI- H		
					DS		1.9	▨	CI	Shaley CLAY, medium plasticity, grey, with shale bandings	M< PL	H		
				dry			2	▨		Test Pit terminated at 1.9m				
							2.5	▨						
							3	▨						
							3.5	▨						
							4	▨						
							4.5	▨						

engineering log - excavation

Client :		Liverpool City Council			Job No. :		4586/1				
Project :		Edmondson Park Release Area			Pit No. :		20				
Location :		Edmondson Park			Date :		19/11/2002				
					Logged/Checked by :		MC				
Equipment type and model :				JCB 3CX Backhoe			R.L. surface :			-	
Excavation dimensions :				2.0 m long		0.5 m wide		datum :			-

1	2	3	penetration	groundwater	samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks
					DS		0			TOPSOIL: Clayey Silt, low plasticity, brown	M< PL			
							0.5		CI-CH	CLAY, medium to high plasticity, red	M< PL	H		Residual
					DS		1		CI-CH	CLAY, medium to high plasticity, grey	M< PL	H		
					DS		1.5			SHALE, Extremely low strength, extremely weathered, brown				Bedrock
				Dry			2			Test Pit terminated at 1.7m				
							2.5							
							3							
							3.5							
							4							
							4.5							