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ENGINEERING BORELOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F873 NOV/87

BOREHOLE No : 15
SHEET : 1 OF 5
REFERENCE No : H7374

PROJECT : GATEWAY ARTERIAL DUPLICATION - DEAGON - OVERBRIDGE FOUNDATION
LOCATION : Grid Ref. 37771.5 E, 48379.5 N
PROJECT No : MG0246 SURFACE R.L. : 6.00 DRILLER : Schneider - Richard
JOB No : DATUM : AHD DATE DRILLED : 7-18/2/94

DEPTH (m)	R.L. (m)	Auger CORE DRILLING CORE Casing OTHER	RQD (%) CORE REC%	CORE LOSS	MATERIAL DESCRIPTION	USC WEATHERING EH VH H M L VL	INTACT STRENGTH	DEFECT SPACING (mm) 20 60 200 600 2000	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	6.00				CLAY Grey with red brown mottling (ironstaining) in part, moist, generally very stiff; high plasticity; fissuring common; ironstaining more prevalent near top; firm to stiff near surface						
1											
2										+ P _m	
3										G _{ur} =10MPa S _u =280kPa 2,6,5 N=11	P _m SPT
4										+ P _m	
5										MC=38.2% W _D =1.86t/m ³ C=144kPa, ϕ =6 degs	U48
6										S _u =170kPa	P _m
7											
8										5,9,13 N=22	SPT
9										S _u =170kPa	P _m
10	-4.00									Remarks: G _{ur} - unload/reload shear modulus S _u - undrained shear strength +not possible to interpret results as hole oversize	

REMARKS : OTHER - Washboring. All U48 tubes pushed 400mm, only recovered portions shown.

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BOREHOLE No : 15
SHEET : 2 OF 5
REFERENCE No : H7374

PROJECT : GATEWAY ARTERIAL DUPLICATION - DEAGON - OVERBRIDGE FOUNDATION
LOCATION : Grid Ref. 37771.5 E, 48379.5 N
PROJECT No : MG0246 SURFACE R.L. : 6.00 DRILLER : Schneider - Richard
JOB No : DATUM : AHD DATE DRILLED : 7-18/2/94

DEPTH (m)	R.L. (m)	ALGER CORE DRILLING CORE DRILLING CASING OTHER	RQD (%) CORE REC%	CORE LOSS	MATERIAL DESCRIPTION	USC WEATHERING EH UVH H M L V	INTACT STRENGTH	DEFECT SPACING (mm) 20 60 200 500 2000	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
10	-4.00										
11					EXTREMELY WEATHERED BASALT Pale grey to grey mottled; exhibits engineering properties of very stiff to hard, high plasticity silty clay.					MC=51%, WD=1.72t/m ³ C=92kPa, ϕ =6.5 LL=100, PI=58	U48
12										Gur=50MPa Su=400kPa	Pm
13											
14										5, 10, 12 N=22	SPT
15											
16	-10.00										
17					CLAY Grey, with minor red brown mottling prevalent near base, moist, very stiff, high plasticity; fissuring and slickensides common.					Gur=48MPa Su=540kPa	Pm
18										MC=34.6%, WD=1.84t/m ³	U48
19											
20	-14.00									Gur=150MPa Su=410kPa	Pm

REMARKS :

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BOREHOLE No : 15
SHEET : 3 OF 5
REFERENCE No : H7374

PROJECT : GATEWAY ARTERIAL DUPLICATION - DEAGON - OVERBRIDGE FOUNDATION
LOCATION : Grid Ref. 37771.5 E, 48379.5 N
PROJECT No : MG0246 SURFACE R.L. : 6.00 DRILLER : Schneider - Richard
JOB No : DATUM : AHD DATE DRILLED : 7-18/2/94

DEPTH (m)	R.L. (m)	CORE DRILLING Casing OTHER	RQD (%) CORE REC%	CORE LOSS	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
20	-14.00				CLAY (Cont'd)							
21											3,12,16 N=28	Pm SPT
22												
23											5,9,13 N=22	SPT
24												
25											Gur=74MPa Su=560kPa	Pm
26												
27												
28												U48
29												
30	-24.00										Gur=65MPa Su=540kPa	Pm

REMARKS : ++ U48 tube pushed at 25.3 - 25.7m but only "fall in" recovered.

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BOREHOLE No : 15
SHEET : 4 OF 5
REFERENCE No : H7374

PROJECT : GATEWAY ARTERIAL DUPLICATION - DEAGON - OVERBRIDGE FOUNDATION
LOCATION : Grid Ref. 37771.5 E, 48379.5 N
PROJECT No : MG0246 SURFACE R.L. : 6.00 DRILLER : Schneider - Richard
JOB No : DATUM : AHD DATE DRILLED : 7-18/2/94

DEPTH (m)	R.L. (m)	UGER DRILLING CLOSING OTHER	RQD (%) CORE REC%	CORE LOSS	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
30	-24.00				CLAY (Cont'd)					11,17,20 N=37	Pm SPT
31	-25.60				EXTREMELY WEATHERED BASALT Dark grey to dark grey green, red brown ironstained in parts throughout; generally exhibits engineering properties of hard, highly plastic, silty to sandy clay.					14,21,30 N=51	SPT
32											
33											
34											
35										MC=32.8%, WD=1.90t/m ³ LL=89, PI=53	Pm U48
36											
37											
38										15,20,27 N=47	SPT
39											
40	-34.00									Su=1000kPa	Pm

REMARKS : + not possible to interpret results as hole was oversize

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BOREHOLE No : 15
SHEET : 5 OF 5
REFERENCE No : H7374

PROJECT : GATEWAY ARTERIAL DUPLICATION - DEAGON - OVERBRIDGE FOUNDATION
LOCATION : Grid Ref. 37771.5 E, 48379.5 N
PROJECT No : MG0246 SURFACE R.L. : 6.00 DRILLER : Schneider - Richard
JOB No : DATUM : AHD DATE DRILLED : 7-18/2/94

DEPTH (m)	R.L. (m)	AUGER CORE DRILLING CORE DRILLING CASING OTHER	RQD ()% CORE REC%	CORE LOSS	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
40	-34.00										
41					EXTREMELY WEATHERED BASALT (Cont'd)					20, 25, 29 N=54	Pm SPT
42											
43										12, 26, 30/105 N=56/255	SPT
43	-37.50		29							Gur=730MPa Su=1900kPa	Pm
44					END OF HOLE						
45											
46											
47											
48											
49											
50											

REMARKS :
LOGGED BY R. Du