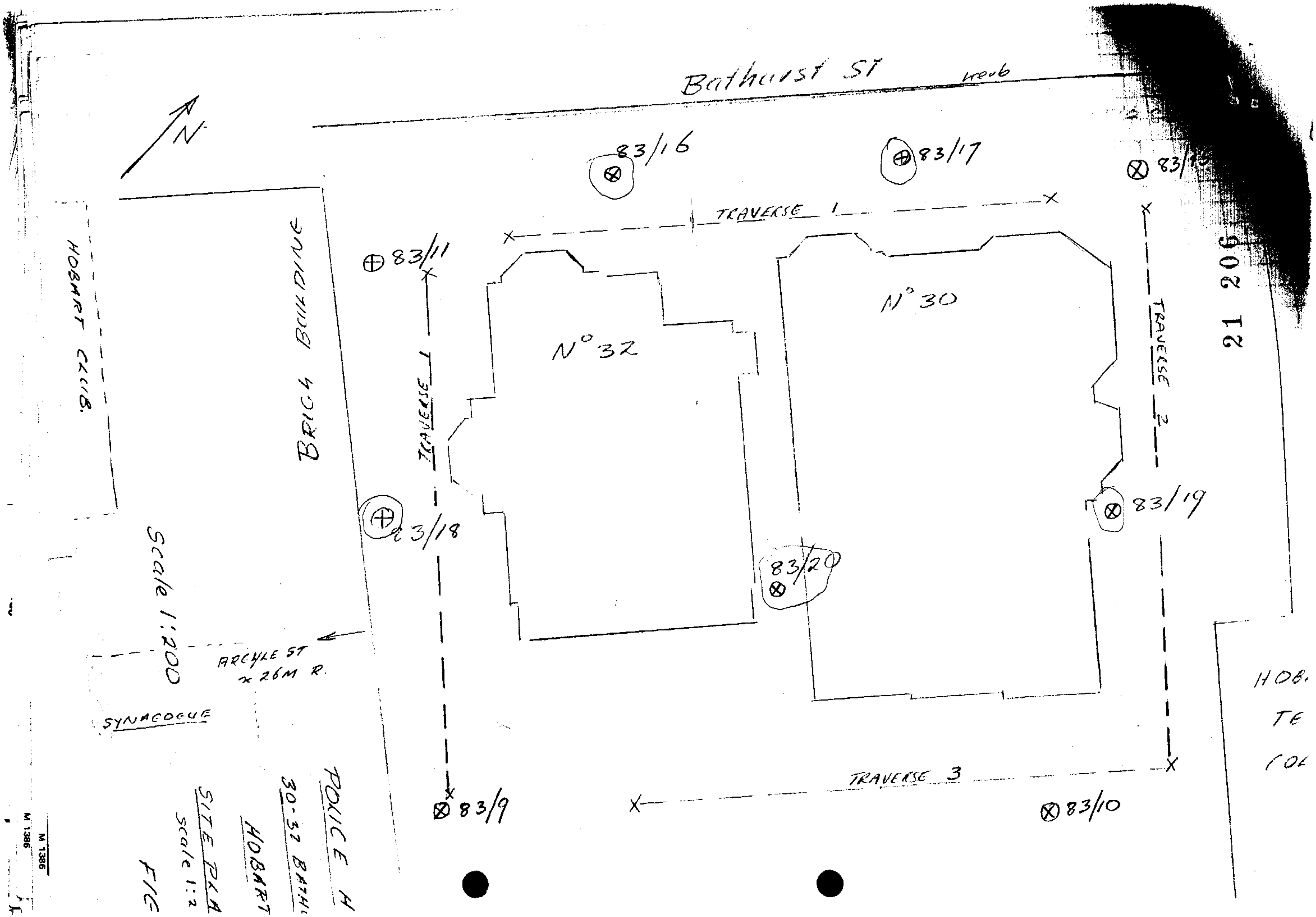

Bathurst ST
kerb
N
83/16
83/17
83/11
83/18
83/19
83/20
83/9
83/10
TRAVERSE 1
TRAVERSE 2
TRAVERSE 3
N° 32
N° 30
BRICK BUILDING
HOBART CLUB.
Scale 1:200
ARGYLE ST
x 26M R.
SYNAGOGUE
21 206
M 1386

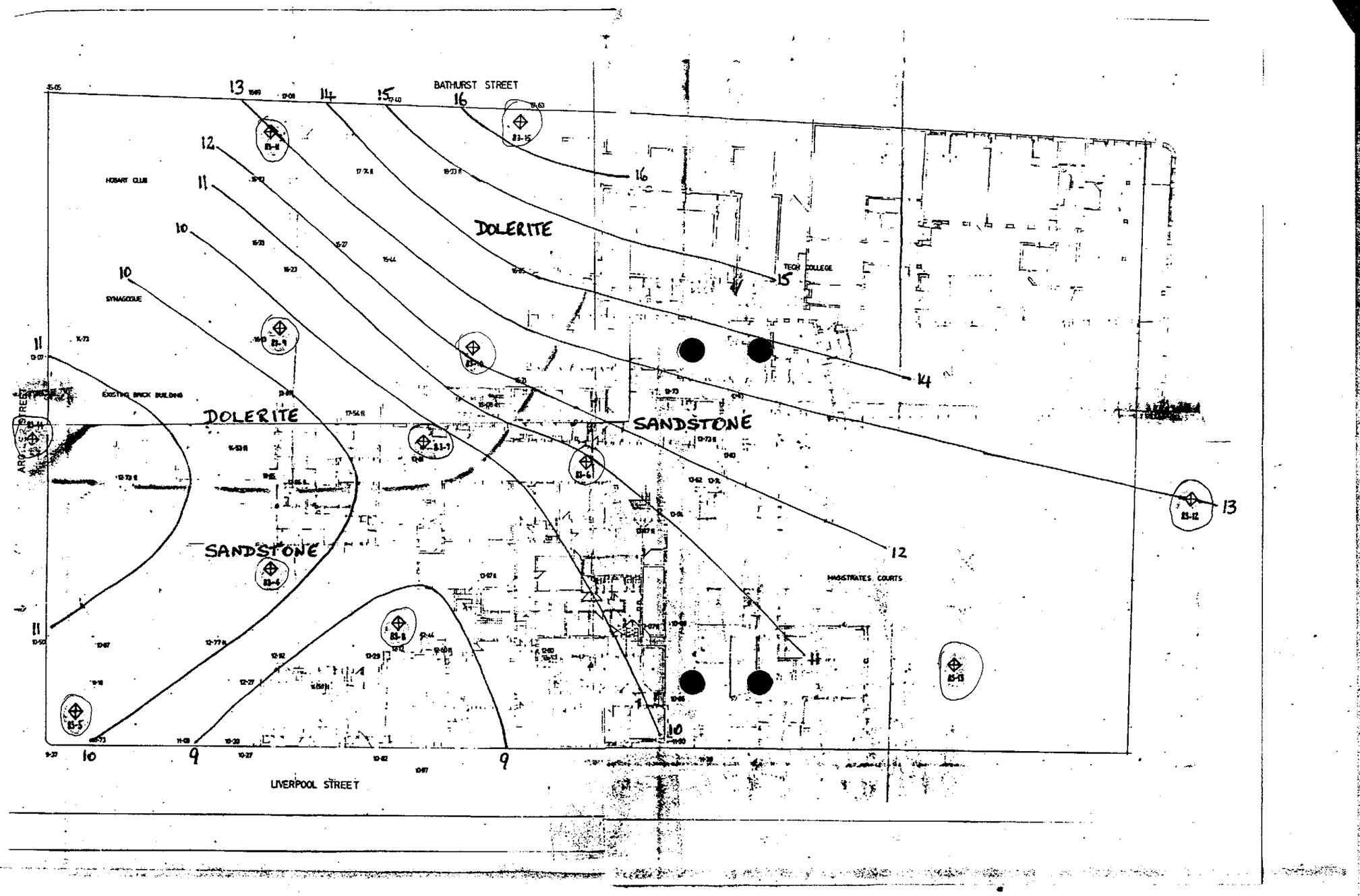

FIG 1: Location of boreholes New Police Headquarters, HOBART ⊕B3-4
Possible structural contours for top of in situ rock materials shown ——13
along with possible position of boundary between dolerite and sandstone — — —

method
AS auger screwing*
AD auger drilling*
R roller/tricone
W washbore
CT cable tool
* bit shown by suffix:
C casing
M mud

penetration
1 2 3 no resistance ranging to refusal

U50 – undisturbed sample 50 mm diameter
D – disturbed sample
N – standard penetration test:figure = result
N* – SPT + sample

based on unified classification system

moisture
D – dry
M – moist
W – wet

S – soft
F – firm
St – stiff
VSt – very stiff
H – hard
Fb – friable
VL – very loose
L – loose
MD – moderately dense

engineering log – borehole

REF No 18305 ACC 1
QUAD 82 PUR 0
MAP SHEET 83122
E = 526692
N = 5252350
file: 04·053

borehole no: 83-16
sheet 1 of 2

NEW POLICE HEADQUARTERS
30-32 BATHURST STREET

project: HOBART
borehole location: AS PER PLAN

hole commenced: 5/12/1983
hole completed:
supervised by: N. JOHNSON
log checked by: R.R.

drill model and mounting: GEMCO (TRAILER) slope: VERT deg. R.L. surface: 17·16 m
hole diameter: 110 mm bearing: – deg. datum: operator: G BAKER

method	penetration 1 2 3	support	water	notes samples, tests, etc.	R.L. depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	hand penetrometer kPa 100 200 300 400	structure and additional observations
AUGER SCREWING				U75	16·0 1·0		SC	SANDY CLAY:- medium plasticity grey brown, fine sand	M	VST	x x	rough pods
				U75	2·0		CH SP	CLAY:- high plasticity, grey with fine pale yellow sand in vertical fissures	M	H	x x	
				U75	14·0 3·0			as above, with fine white (calcrite) gravel		ST	x x	
				N*=58 9, 27, 31	4·0		GC	CLAYEY GRAVEL - med to coarse gravel (EW-HW) brown & white clayey fines	M	MD		probably fractured and weathered mafic dolerite
				7/12/83 N*=>60								
				9/12/83 N*=>60 damaged cutter	12·0 5·0				M	D		
				12/12/83 14/12/83 19/12/83 N*=>60	6·0							
				N*=>60	0 7·0							

21 228

key

method
AS auger screwing*
AD auger drilling*
R roller/tricone
W washbore
CT cable tool
* bit shown by suffix:
B – blank bit
V – "V" bit
T – TC bit
e.g. ADT

support
C casing
M mud

penetration
1 2 3 no resistance ranging to refusal

water
10 Oct, 73 water level on date shown
water inflow
water outflow

notes – samples and tests
U50 – undisturbed sample 50 mm diameter
D – disturbed sample
N – standard penetration test: figure = result
N* – SPT + sample
Nc – cone penetrometer

classification symbols and soil description
based on unified classification system

moisture
D – dry
M – moist
W – wet

consistency/relative density
VS – very soft
S – soft
F – firm
St – stiff
VSt – very stiff
H – hard
Fb – friable
VL – very loose
L – loose
MD – moderately dense
D – dense
VD – very dense

engineering log – borehole

borehole no: 83-16
sheet 2 of 3

file: 04.053

project: NEW POLICE HEADQUARTERS 30-38 ELIZABETH STREET HOBART
borehole location: AS PER PLAN

hole commenced: 5/12/83
hole completed: 6/12/83
supervised by: N JOHNSON
log checked by: R.F.

drill model and mounting: GEMCO TRAILER
hole diameter: 110 mm
slope: VERT deg.
bearing: deg.
R.L. surface: 17.16 m
datum:
operator: G. BAKER

method	penetration 1 2 3	support	water	notes samples, tests, etc.	R.L. depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	hand penetrometer kPa 100 200 300 400	structure and additional observations
				N*>100	8.7		GC	CLAYEY GRAVEL - as above	M	D		
								Continued on sheet 3 as cored borehole				

21 229

key

method
AS auger screwing*
AD auger drilling*
R roller/tricone
W washbore
CT cable tool
* bit shown by suffix:
B – blank bit
V – "V" bit
T – TC bit
e.g. ADT

support
C casing
M mud

penetration
1 2 3
no resistance
ranging to
refusal

water
10 Oct, 73 water level on date shown
water inflow
water outflow

notes – samples and tests
U50 – undisturbed sample 50 mm diameter
D – disturbed sample
N – standard penetration test: figure = result
N* – SPT + sample
Nc – cone penetrometer

classification symbols and soil description
based on unified classification system

moisture
D – dry
M – moist
W – wet

consistency/relative density
VS – very soft
S – soft
F – firm
St – stiff
VSt – very stiff
H – hard
Fb – friable
VL – very loose
L – loose
MD – moderately dense
D – dense
VD – very dense

PUBLIC WORKS (TAS.)
... RESEARCH DIVISION

engineering log — cored borehole

borehole no: 83-16
sheet 3 of 3

File No. 04-053

project: NEW POLICE HEADQUARTERS 30-32 BATHURST STREET HOBART
borehole location: AS PER PLAN

hole commenced: 5/12/1983
hole completed: 6/12/1983
supervised by: N. JOHNSON
log checked by: R.R.

drill model and mounting: GEMCO + TRAILER slope: VERT deg.
barrel type and length: NQTT 2.45 fluid H_2O bearing: deg.

R. L. surface: 17.16 m
datum:
Driller G. BAKER

drilling information: method	case-lift	water		depth metres	rock substance: graphic log / core loss	substance description (rock type: grain characteristics, colour, structure, minor components)	weathering	strength Is (50)	rock mass defects: defect spacing mm	defect description (thickness, type, inclination, planarity, roughness, coating) particular	general
NQTT						continued from sheet 2.					Fractured to medium to coarse angular gravel, variably weathered
						DOLERITE: grey fine grained	MW				
				8.0 9.0			SW				
							EW			weathered to clayey gravel	
				10.0							
							HW				
			N760 - No penetration after 25 blows	11.0			MW				
				12.0							
				13.0			SW				
						TD = 13.0					

21 230

key

method
AS auger screwing
AD auger drilling
R roller/tricone
W washbore
NMLC NMLC core drilling

case-lift
casing used
barrel withdrawn

water
10 Oct, 73 water level date shown
water inflow
partial drilling water loss
complete drilling water loss

graphic log/core loss
core recovered (hatching indicates material)
no core recovered

weathering
Fr — fresh
SW — slightly weathered
MW — moderately weathered
HW — highly weathered
EW — extremely weathered

strength (indirect tensile strength)
EL — extremely low
VL — very low
L — low
M — medium
H — high
VH — very high
EH — extremely high

M 136