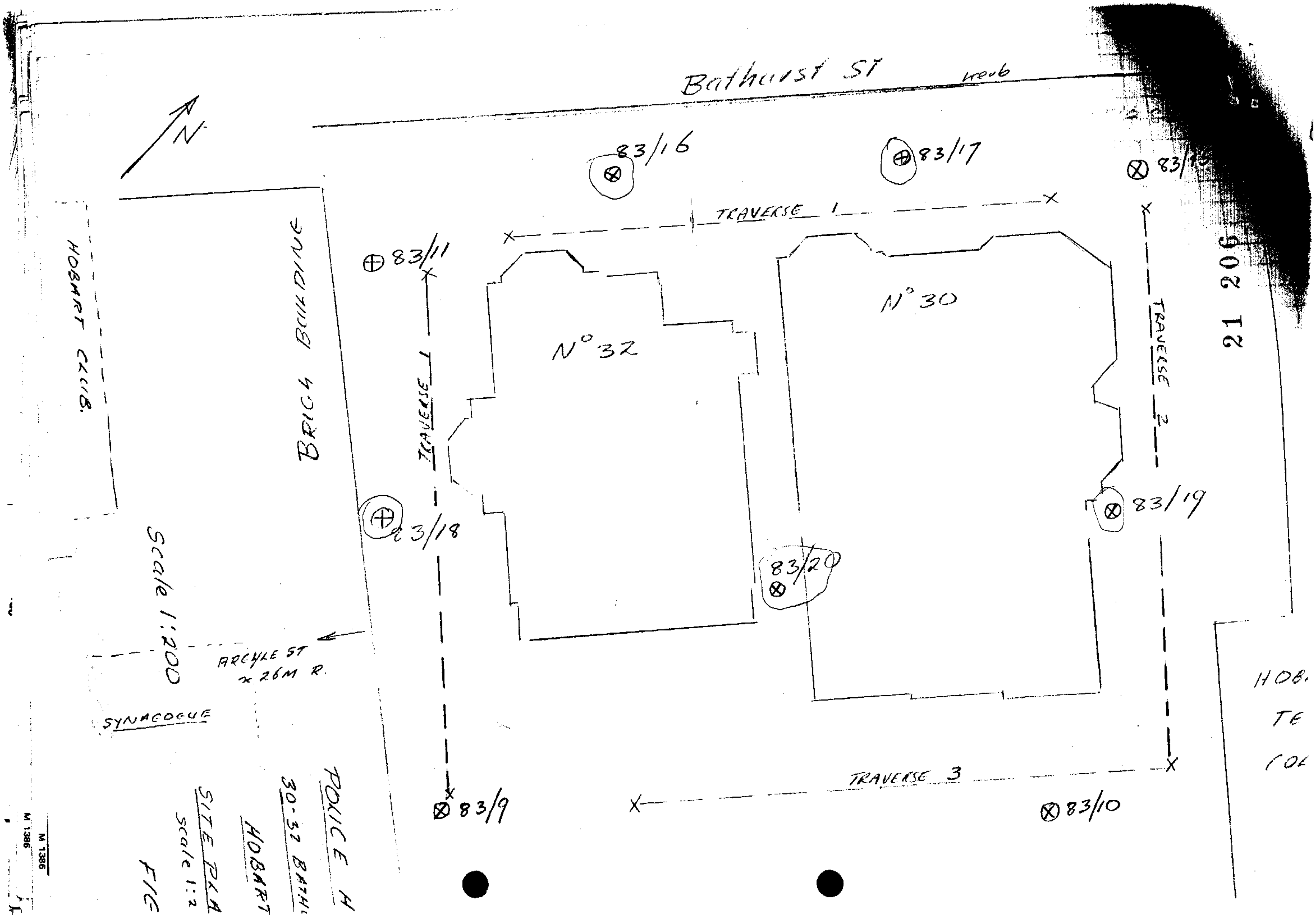
Bathurst St
kerb
N
83/16
83/17
TRAVERSE 1
83/11
83/18
83/9
83/10
83/19
83/20
N° 32
N° 30
TRAVERSE 2
TRAVERSE 3
BRICK BUILDING
HOBART CLUB.
Scale 1:200
ARGYLE ST
x 26M R.
SYNAGOGUE
POLICE H
30-32 BATH
HOBART
SITE PLA
scale 1:2
FIG
M 1386
M 1386
HOB.
TE
CO
21 206

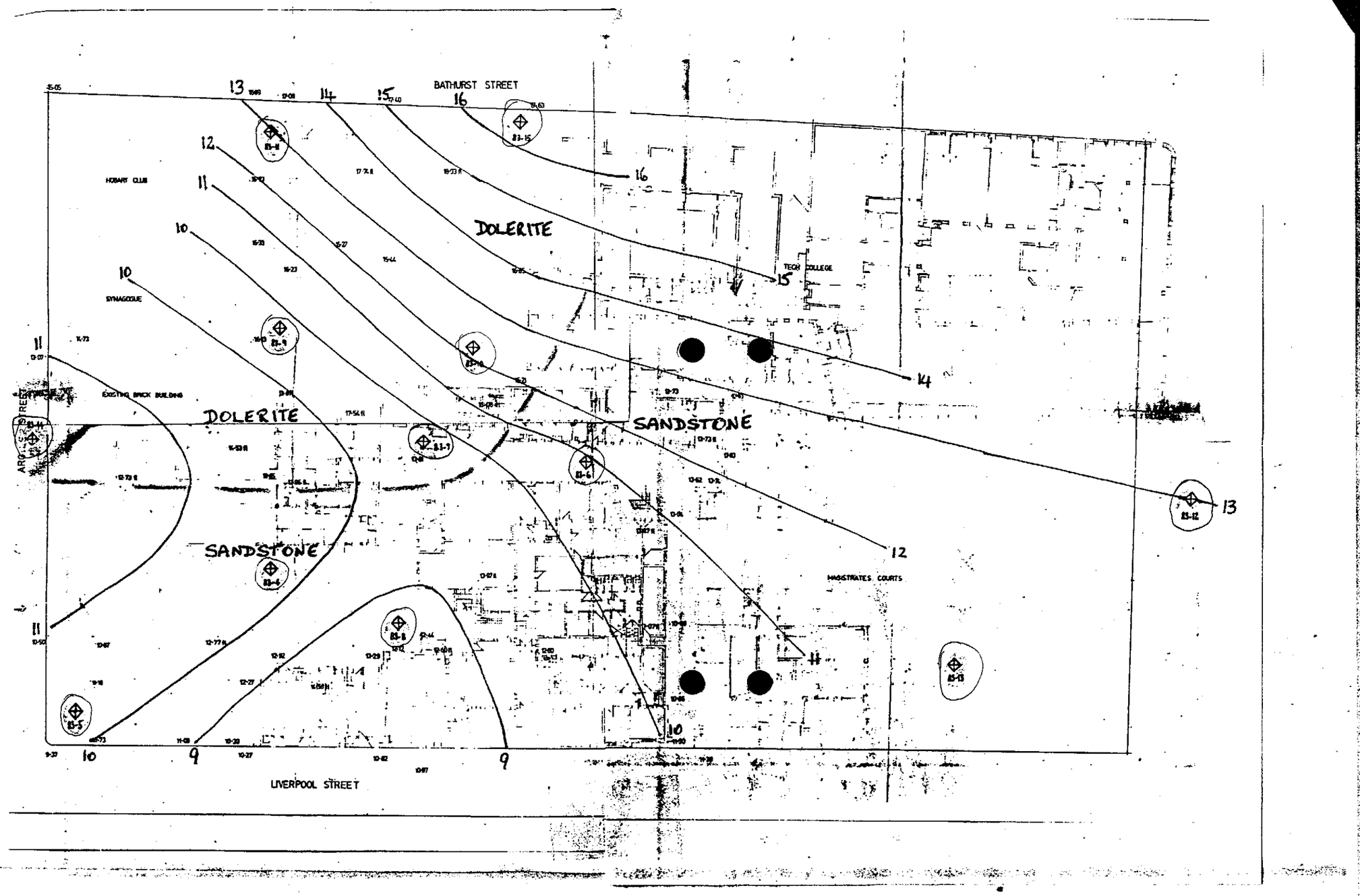

FIG 1: Location of boreholes New Police Headquarters, HOBART ⊕B3-4
Possible structural contours for top of in situ rock materials shown ——13
along with possible position of boundary between dolerite and sandstone — — —

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

Roads (Tas) Research Division

REF No 18306 ACC 1
QUAD 82 PUR 0
MAP SHEET 83122 E = 526195 N = 5252370

borehole no: 83-17
sheet 1 of 3

engineering log – borehole

file: 04.053

project: NEW POLICE HEADQUARTERS 30-35 BATHURST STREET HOBART
borehole location: AS PER PLAN

hole commenced: 7/12/83
hole completed: 7/12/83
supervised by: N. JOHNSON
log checked by: P.R.

drill model and mounting: GEMCO + TRAILER
hole diameter: 110 mm
slope: VERT deg.
bearing: deg.
R.L. surface: 17.44 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
AUGER SCREWING					17.0			SANDY LOAM				Topsoil
				U75	1		SC-CL	SANDY CLAY - medium plasticity, grey/brown fine sand	M	H		root fibres coarse, rough soil peds
				N >60	16.0 1.7			Continued on sheet 2 as core borehole				

21 231

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 — cored borehole

File No. 04·053

project: NEW POLICE HEADQUARTERS, 30-32 BATHURST STREET, HOBART	hole commenced: 7/12/83
borehole location: AS PER PLAN	hole completed: 7/12/83
	supervised by: N. JOHNSON
	log checked by: R.R.

drill model and mounting: SEMCO + TRAILER	slope: VERT deg.	R. L. surface: 17.44 m	
barrel type and length: 2.45 NQTT	fluid H_2O	bearing: deg.	datum:	Driller S BAKER

drilling information / rock substance / rock mass defects

method	case-lift	water		R.L.	depth metres	graphic log / core loss	substance description (rock type: grain characteristics, colour, structure, minor components)	weathering	strength Is (50) (EL VL L M H VH EH)	defect spacing mm (30 100 300 1000 3000 >3000)	defect description (thickness, type, inclination, planarity, roughness, coating; particular / general)
NQTT					2.0	dolerite hatching	DOLERITE: fine grained, grey blue	MW			
				14.0	3.0			HW			
								MW			
					4.0						
								SW			
				12.?	5.0						DEFECTS 45°-60°, smooth to rough, commonly calcite coated or ironstained
					6.0						
		▼	14/12/83								
		▼	12/12/83								
				10.0	7.0						
											-70° smooth

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

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M 1386

M & R F8

...WORKS (TAS.)
...RESEARCH DIVISION

engineering log — cored borehole

borehole no: 83-17
sheet 3 of 3

File No. 04·053

project: NEW POLICE HEADQUARTERS 30-32 BATHURST STREET HOBART	hole commenced: 7/12/83
	hole completed: 7/12/83
	supervised by: N. JOHNSON
borehole location: AS PER PLAN	log checked by: E.F.

drill model and mounting: GEMCO - TRAILER slope: VERT deg.	R. L. surface: 17·44 m	
barrel type and length: 2·45 NQTT fluid H_2O bearing: deg.	datum:	Driller G. BAKER

drilling information | **rock substance** | **rock mass defects**

method	R.L.	depth metres	substance description (rock type: grain characteristics, colour, structure, minor components)	weathering	defect description (particular)	defect description (general)
NQTT		8.0	DOLERITE - fine grained grey blue	Fr		Defects, iron stained mainly smooth, commonly 45-60°
	8.0	9.0				
		10.0			70° smooth	
					70° smooth	
	6.0	11.0			70° irregular	Green coating on defect surfaces, commonly irregular
				Fr		
		12.0				
			Hole drilled to 13.25m but core snapped off at 12.4m. -			

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

M 1386