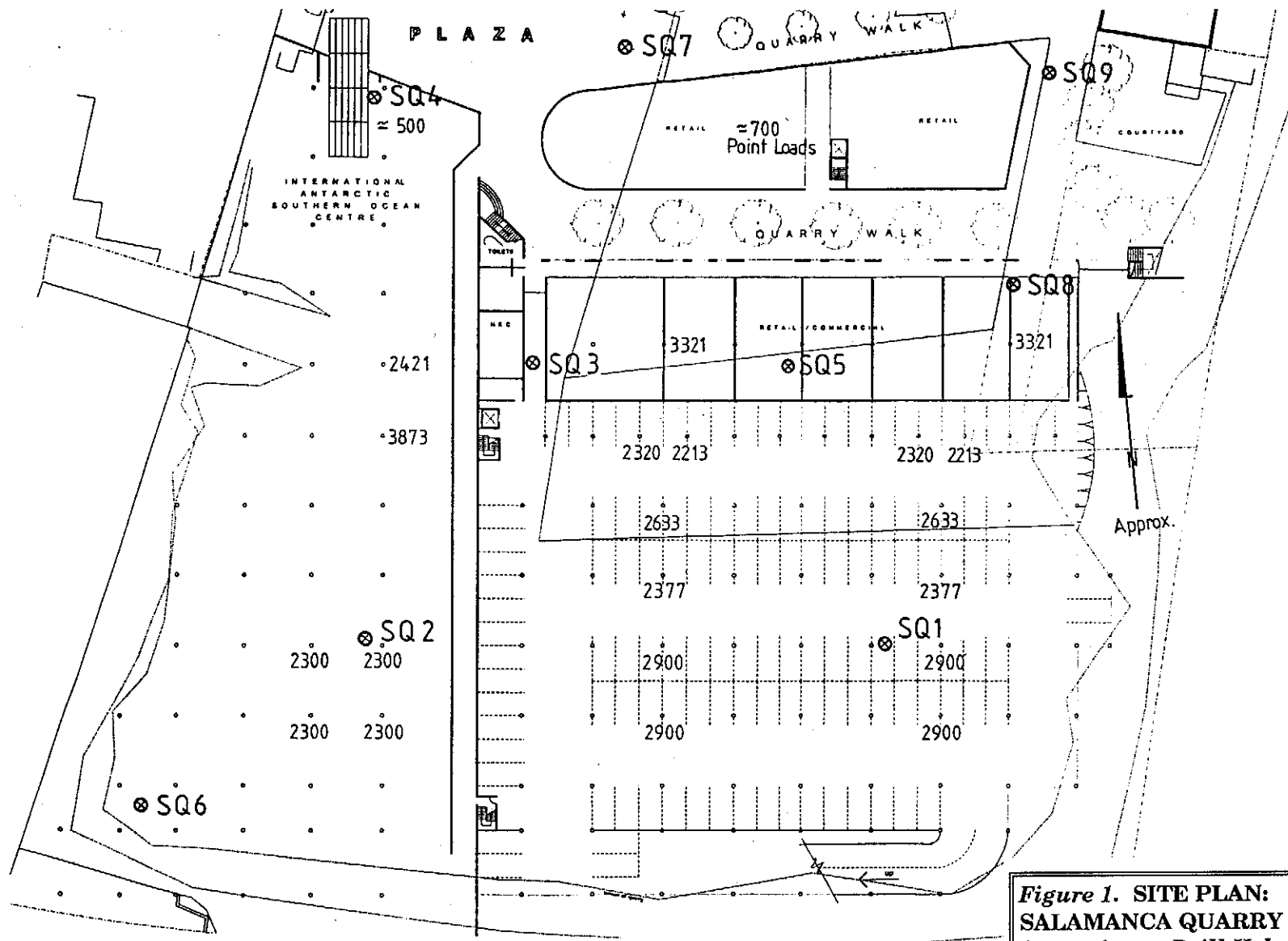


FINAL REPORT

SW Report: 1995/80
FOUNDATION CONDITION ASSESSMENT:
SALAMANCA QUARRY REDEVELOPMENT,
SALAMANCA PLACE, BATTERY POINT.

Client: *Gandy & Roberts Pty. Ltd. for
Fuglsang Constructions.*



**Figure 1. SITE PLAN:
SALAMANCA QUARRY REDEVELOPMENT.**
*Approximate Drill Hole Locations &
Indicative Working Loads (kN)*

Scale: Approx. 1:750
Client: Gandy & Roberts.
Sloane Weldon Pty.Ltd. SW1995/80 Plan No: 9565

ENGINEERING LOG - CORED BOREHOLE

project SALAMANCA QUARRY REDEVELOPMENT GANDY & ROBERTS for Fuglsang Constructions.		location SALAMANCA PLACE.	
co-ordinates	Refer to site plan	drill type	PIONEER P160
R.L.	Approx. 10m ASL	drill method	NQ DIAMOND DRILLING
inclination	Vertical	drill fluid	WATER
bearing	N/A	contractor	K.M.R. DRILLING
		hole commenced	28 - 8 - 95
		hole completed	28 - 8 - 95
		logged by	DJS
		checked by	BDW

Drilling information				Rock substance				Rock mass defects				
case - lift	fluid loss	water	notes	depth metres	graphic log	substance description	weathering	strength	RQD %	defect spacing mm.	defect description	
						rock type: grain characteristics, colour, structure and minor components		EL V/L L LH LH VH EH		30 100 300 1000 3000	thickness, type, inclination, planarity, roughness, coating.	
											significant	general
				0.50		CONCRETE PAVEMENT 100mm						
				1.00		FILL: Gravelly SAND (assumed): Fine to coarse sand; fine to medium dolerite gravel.						
				1.14								
				1.32		DOLERITE: Blue - grey; medium grained.	FR		0			
				1.50					80			
				2.00								
				2.50								
				2.77								
				2.87								
				3.00								

Joints: 30° - 60° to core axis - closed, planar, rough, Calcite/zeolite coatings < 1mm.

Joints: 45° - 80° to core axis - closed, planar - curved rough clastic/zeolite coatings < 1mm.

REF 18131

Sloane Weldon Pty. Ltd.
 Engineering & Groundwater Geologists.

Borehole Number.
SQ 3
 sheet 1 of 1

ENGINEERING LOG - CORED BOREHOLE

project SALAMANCA QUARRY REDEVELOPMENT		location SALAMANCA PLACE.	
GANDY & ROBERTS for Fuglsang Constructions.			
co-ordinates	Refer to site plan	drill type	PIONEER P160
R.L.	Approx. 10m ASL	drill method	NQ DIAMOND DRILLING
inclination	Vertical	drill fluid	WATER
bearing	N/A	contractor	K.M.R. DRILLING
		hole commenced	28 - 8 - 95
		hole completed	28 - 8 - 95
		logged by	DJS
		checked by	BDW

Drilling information				Rock substance				Rock mass defects				
case - lift	fluid loss	water	notes	depth metres	graphic log	substance description	weathering	strength	RQD %	defect spacing mm.	defect description	
						rock type: grain characteristics, colour, structure and minor components		BL L J M H V EH		0 100 300 1000 3000	thickness, type, inclination, planarity, roughness, coating.	
											significant	general
				0.50		ASPHALT PAVEMENT 20mm.						
				0.60		FILL: Gravelly SAND (assumed): Fine to coarse sand; fine to medium dolerite, trace quartzite gravel. Some grey brown clay & silt?						
				1.00								
				1.38								
				1.50								
				2.00								
				2.50		DOLERITE: Blue grey; medium grained.	FR		N/A			
				2.87					52			
				3.00								
				3.50					100			
				3.83							Iron stained	
				4.00								
				4.50								

Joints: Generally 60° - 90° to core axis - 1 at 10' - 20'
 Closed, planar, rough, calcite/zeolite lined < 1mm.

ENGINEERING LOG - CORED BOREHOLE

project **SALAMANCA QUARRY REDEVELOPMENT**
GANDY & ROBERTS for Fuglsang Constructions.

location **SALAMANCA PLACE.**

co-ordinates	Refer to site plan	drill type	PIONEER P160	hole commenced	29 - 8 - 95
R.L.	Approx. 10m ASL	drill method	NQ DIAMOND DRILLING	hole completed	29 - 8 - 95
inclination	Vertical	drill fluid	WATER	logged by	DJS
bearing	N/A	contractor	K.M.R. DRILLING	checked by	BDW

Drilling information				Rock substance				Rock mass defects						
case - lift	fluid loss	water	notes	depth metres	graphic log	substance description rock type; grain characteristics, colour, structure and minor components	weathering	strength				RQD %	defect spacing mm.	defect description thickness, type, inclination, planarity, roughness, coating.
								EL	VL	EH	EH			
				0.50		Concrete pavement 160mm. FILL: Gravelly SAND (assumed).								
				1.00										
				1.15		DOLERITE: Medium grained; grey brown.								
				1.32										
				1.50										
				2.00										
				2.10										
				2.50										
				2.55										
				2.76										
				3.00										
				3.18										
				3.40										
				3.50										
				4.00										
				4.33										
				4.47										
				4.50										
				5.00										
				5.37										

Joins: open (above 2.55m) subvertical; subhorizontal; 60° - 70° to core axis; planar - irregular; rough; iron staining & extremely weathered calcite - zoofite joint linings <2mm trace clay <1mm

Joins: 0° - 10° - subvertical & subhorizontal; open - closed; planar - irregular; some curved; some discontinuous; rough; iron staining & calcite / zoofite linings generally <1mm

ENGINEERING LOG - CORED BOREHOLE

project SALAMANCA QUARRY REDEVELOPMENT GANDY & ROBERTS for Fuglsang Constructions.		location SALAMANCA PLACE.	
co-ordinates Refer to site plan R.L. Approx. 10m ASL inclination Vertical bearing N/A	drill type PIONEER P160 drill method NQ DIAMOND DRILLING drill fluid WATER contractor K.M.R. DRILLING	hole commenced 29 - 8 - 95 hole completed 29 - 8 - 95 logged by DJS checked by BDW	

Drilling information				Rock substance				Rock mass defects				
case - lift	fluid loss	water	notes	depth metres	graphic log	substance description rock type: grain characteristics, colour, structure and minor components	weathering	strength	RQD %	defect spacing mm.	defect description	
											thickness, type, inclination, planarity, roughness, coating.	significant
				0.50		ASPHALT PAVEMENT. CONCRETE.			0			
				1.00		FILL: Assumed Gravelly SAND: Fine to coarse sand with fine to coarse subangular dolerite gravel.						
				1.19								
				1.50		DOLERITE: Medium grained; blue grey.	Fr		75			
				1.55								
				2.00					88			
				2.50								
				2.79								
				3.00								
				3.50								
				4.00								
				4.50								

Joints planar to irregular; rough; 60 - 70' to core axis & 20' - 30'. Generally closed. Catcher / zoelite / iron joint lining; trace silt < 1mm.

REF 18134

Sloane Weldon Pty. Ltd.
 Engineering & Groundwater Geologists.

Borehole Number.
SQ 6
 sheet 1 of 1

ENGINEERING LOG - CORED BOREHOLE

project SALAMANCA QUARRY REDEVELOPMENT		location SALAMANCA PLACE.	
GANDY & ROBERTS for Fuglsang Constructions.			
co-ordinates	Refer to site plan	drill type	PIONEER P160
R.L.	Approx. 10m ASL	drill method	NQ DIAMOND DRILLING
inclination	Vertical	drill fluid	WATER
bearing	N/A	contractor	K.M.R. DRILLING
		hole commenced	29 - 8 - 95
		hole completed	29 - 8 - 95
		logged by	DJS
		checked by	BDW

Drilling information				Rock substance				Rock mass defects			
case - lift	fluid loss	water	notes	depth metres	graphic log	substance description rock type: grain characteristics, colour, structure and minor components	weathering	strength	RQD %	defect spacing mm.	defect description thickness, type, inclination, planarity, roughness, coating.
								EL VL JL HL VH EH	0 100	0 100 300 1000 3000	significant general
				0.28		FILL: GRAVEL: Fine to coarse angular dolerite.					
				0.50		FILL: Assumed Sandy GRAVEL: Fine to coarse angular medium weathered dolerite with fine to coarse sand.					
				0.74							
				1.00		DOLERITE: Medium grained; blue - grey.	SW		0 100		Joints 30° & 90° to core axis; closed; planar to curved; rough, iron stained & calcite lining <1mm.
				1.04		TERMINATED: Required depth.					
				1.50							
				2.00							
				2.50							
				3.00							
				3.50							
				4.00							
				4.50							

21 159

REF 18135

Sloane Weldon Pty. Ltd.
 Engineering & Groundwater Geologists.

Borehole Number.
SQ 7
 sheet 1 of 1

ENGINEERING LOG - CORED BOREHOLE

project SALAMANCA QUARRY REDEVELOPMENT		location SALAMANCA PLACE.	
GANDY & ROBERTS for Fuglsang Constructions.			
co-ordinates	Refer to site plan	drill type	PIONEER P160
R.L.	Approx. 10m ASL	drill method	NQ DIAMOND DRILLING
inclination	Vertical	drill fluid	WATER
bearing	N/A	contractor	K.M.R. DRILLING
		hole commenced	29 - 8 - 95
		hole completed	29 - 8 - 95
		logged by	DJS
		checked by	BDW

Drilling information				Rock substance				Rock mass defects			
case - lift	fluid loss	water	notes	depth metres	graphic log	substance description rock type: grain characteristics, colour, structure and minor components	weathering	strength	RQD %	defect spacing mm.	defect description thickness, type, inclination, planarity, roughness, coating.
								EL V L L M H V H EH	30 100 300 1000 3000	significant	general
						Ashphalt pavement 25mm thick. FILL: Assumed SAND.					
				0.50		CONCRETE 75DMM thick (old footing ?)					
				1.00		DOLERITE: Medium grained; grey - brown.	MW				
				1.24							
				1.50		blue - grey.	SW				
				2.00		some iron staining around joints. blue - grey.	MW SW				Closely jointed, HW, some EW calcite/ zeolite lining to 2mm trace clay <= 1mm
				2.50		grey - brown. blue - grey.	MW SW- Fr				
				2.57							
				3.00							
				3.27							
				3.50							
				4.00							
				4.50							

Joints at 60°, 45° & 20° to core axis, some sub-horizontal; planar, irregular - curved; rough; open
 Calcite/ zeolite, limonite coatings < 1mm.

21 160

ENGINEERING LOG - CORED BOREHOLE

project	SALAMANCA QUARRY REDEVELOPMENT GANDY & ROBERTS for Fuglsang Constructions.		location	SALAMANCA PLACE.	
co-ordinates	Refer to site plan	drill type	PIONEER P160	hole commenced	30 - 8 - 95
R.L.	Approx. 10m ASL	drill method	NQ DIAMOND DRILLING	hole completed	30 - 8 - 95
Inclination	Vertical	drill fluid	WATER	logged by	DJS
bearing	N/A	contractor	K.M.R. DRILLING	checked by	BDW

Drilling information				Rock substance				Rock mass defects			
case - lift	fluid loss	water	notes	depth metres	graphic log	substance description rock type: grain characteristics, colour, structure and minor components	weathering	strength	RQD %	defect spacing mm.	defect description thickness, type, inclination, planarity, roughness, coating.
								EL VL L M H V EH	30 100 500 1000 3000		significant general
				0.31		Bituminous concrete: 100mm. Gravelly SAND: Assumed. GRAVEL: Fine to coarse angular dolerite. FILL: Assumed sandy/ silty material with some gravel & wood; trace cobbles.					
				0.50		FILL: Assumed sandy/ silty material with some gravel & wood; trace cobbles.					
				1.00		FILL: Assumed sandy/ silty material with some gravel & wood; trace cobbles.					
				1.22		DOLERITE: Cobble, approx. 100mm. dia. FILL: Assumed sandy/ silty material with some gravel & wood; trace cobbles.					
				1.50		FILL: Assumed sandy/ silty material with some gravel & wood; trace cobbles.					
				2.00		DOLERITE: Medium grained blue - grey.	Fr				2 calcite/ zeolite lined joints to 2mm width. 1mm lining; subvertical; curved & highly weathered.
				2.06							Joints at 60, 30 to 45 degrees. closed; planar - curved; rough; Calcite/ zeolite lining to 1mm.
				2.50							
				2.82							
				3.00							
				3.50							
				3.60							
				4.00							
				4.50							

REF 18137

Sloane Weldon Pty. Ltd.
 Engineering & Groundwater Geologists.

Borehole Number.
SQ 9
 sheet 1 of 1

ENGINEERING LOG - CORED BOREHOLE

project SALAMANCA QUARRY REDEVELOPMENT		location SALAMANCA PLACE.	
GANDY & ROBERTS for Fuglsang Constructions.			
co-ordinates	Refer to site plan	drill type	PIONEER P160
R.L.	Approx. 10m ASL	drill method	NQ DIAMOND DRILLING
inclination	Vertical	drill fluid	WATER
bearing	N/A	contractor	K.M.R. DRILLING
		hole commenced	30-8-95
		hole completed	30-8-95
		logged by	DJS
		checked by	BDW

Drilling information				Rock substance				Rock mass defects					
case - lift	fluid loss	water	notes	depth metres	graphic log	substance description rock type; grain characteristics, colour, structure and minor components	weathering	strength		RQD %	defect spacing mm.		defect description thickness, type, inclination, planarity, roughness, coating.
								EL	V L		W	H	
				0.50		Bituminous concrete: 100mm. FILL: Assumed Gravelly SAND. Cobble or gravel layer							
				1.00									
				1.20		Assumed: Slightly weathered dolerite cobble layer? to 180mm dia.							
				1.60		FILL: Assumed sandy/ silty material.							
				2.00									
				2.27		GRAVEL: Fine - coarse; subangular medium weathered dolerite.							
				2.50		Dolerite: Blue - grey, medium grained.				77			
				2.58						0			
				2.60									
				3.00						60			
				3.50		CORE LEFT DOWN HOLE: Assumed Fr with defect - spacing > 200mm.							
				3.57		TERMINATED: Required depth.							
				4.00									
				4.50									

Joints 60° & subhorizontal
 Closed; planar; rough; calcite
 zoelite lined <1mm.