



TEST PIT/BOREHOLE LOG SOIL

No:

Page: 1 of 1

Client: TAS MAGNESITE
Project: ARTHUR RIVER
Job No:
Location: ARO28
Date: 29/4/11

to: 2/5/11

Contractor Co:
Contractor: EDRILL
Type: DIAMOND
Inclination: 88
Bearing: 330

Easting:
Northing:
Grid Ref:
Collar RL:
Logged by: CSA Checked by:

Depth (m)	Method	Water	Group Symbol	MATERIAL DESCRIPTION Type, colour, particle size and shape, structure	Moisture	Consistency / Density	In situ Testing	FIELD TESTS & NOTES	Sampling / Runs	Lab. Testing
0.00			CI	CLAY, brown/red (pale). Fine qtz/schist gravels within. (~25% gravel) Unstructured.	M	Soft		From construction of pad.		
0.25			CI	CLAYEY GRAVEL, light to dark brown Qtz/schist material forms 90% of mass.	M	Stiff Firm				
0.50			CI	CLAYEY GRAVEL, dark brown Mostly dolerite fragments, with some quartz + schist. No structure	M	Firm		Landslip material		
0.75										
1.00										
1.25				NO RECOVERY DOLERITE, rubble, completely oxidised.	D	VH				
1.50			CI	GRAVELLY CLAY, light brown. Quartz and schist clasts up to 2cm. No structure	M	Firm				
1.75										
2.00			GW	GRAVEL, white quartzite, sub- angular to sub-rounded, 1cm to 5cm. pebbles, all sizes represented Glacials	D			Loose rocks, no matrix.		
2.25										
2.50				End of soil log, refer to rock.						

consistency:
VS very soft
S soft
F firm
ST stiff
VST very stiff
H hard

relative density:
VL very loose
L loose
MD medium dense
D dense
VD very dense

moisture:
D Dry
M Moist
VW Wet

water:
level risen to
water inflow

notes:

sampling:
intact sample from core
intact tube sample

Disturbed sample
WS Water Sample
BS Bulk Sample
AS Auger Sample

soil classification:
soil is classified in accordance with AS1728
unless otherwise noted

CORE LOG SHEET

Client: **TAS MAGNESITE**Project: **ARTHUR RIVER**Location: **AR 028**

LOCATION No.

SHEET 1 OF 4

Position:

Surface RL:

Inclination/Bearing: **-55/330**

Processed:

Contractor: **Edrill**Rig Type: **Diamond**

Checked:

Date Started: **29/4/11**Date Completed: **2/5/11**Logged by: **CCA**

Date:

DRILLING

MATERIAL

ADDITIONAL DATA

SCALE (m)	Method	Run	Water	Depth (RL) metres	Graphic Log	Description ROCK TYPE, colour, grain size, structure	Weathering	Estimated Strength	Core Recovery (%)	Defect Spacing (mm)	Samples & Tests	ADDITIONAL DATA Joints, partings, seams, zones and veins Fracture type, orientation, infilling or coating, shape, roughness, other In situ test results	SCALE (m)
								20	80	10	100	1000	
				12.4		Schist, light brown with blotches and bands of red. Qtz and schist fragments	xw EL		60			Clayey	
				13.1		DOLERITE, dark brown, spotted yellow brown, streaked red	xw VL		80				
				15.7		Schist, banded light brown and red. Quartz fragments throughout.	xw EL		100			Clayey	
				17.9		SCHIST, banded light brown and red.	xw EL		100			Clayey	
				18.8		SCHIST, light brown, blotched red, many quartz frags.	xw EL		100			Sheared	
				20.8		CARBONATE/SCHIST, staining around shear zones (red/purple). Banded.	xw VL		100			Sheared/faulted (random + non-linear)	
				21.2		CARBONATE/SCHIST as above, but hard. Banded	xw H		90				
				21.4		SCHIST, light to dark brown. Banded. Broken hard pebbles dark brown, banded throughout clayey schist	xw EL		45			Clayey	
				24.0		MAGNESITE, honey combed, light/dark brown	xw H		60				
				24.1									
				27.8		NO RECOVERY							

See standard sheets for details of abbreviations & basis of descriptions



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Job No.

CORE LOG SHEET

Client: **TAS MAGNESITE**
 Project: **ARTHUR RIVER**
 Location: **AR028**

LOCATION No.

SHEET **2** OF **4**

Position: , Surface RL: Inclination/Bearing: **55/330** Processed:
 Contractor: **Edrill** Rig Type: **Diamond** Checked:
 Date Started: **29/4/11** Date Completed: **2/5/11** Logged by: **CCA** Date:

DRILLING				MATERIAL						ADDITIONAL DATA			
SCALE (m)	Method	Run	Water	Depth / (RL) metres	Graphic Log	Description ROCK TYPE, colour, grain size, structure	Weathering	Estimated Strength	Core Recovery (%)	Defect Spacing (mm)	Samples & Tests	SCALE (m)	
								20	80	10	100	1000	
				27.8		SCHIST, light brown Fine sand texture	xw EL		50				
				28.0		SCHIST, dark brown, mottled white, yellow, red. Fine sand texture	xw EL		85				Lightly sheared.
				29.9		SCHIST, as above with carbonate clasts up to 3cm	xw EL		70				
				30.9		Carbonate, dark brown, spotted white.	xw EL		75				Fibrous, soft white crystals Clayey
				32.4		SCHIST, dark brown banded yellow/brown, mottled yellow, red, sub-angular qtz to lens, carbonate clasts.	xw RS		45				Sheared. Interspersed by uniform brown silts - also sheared Clayey
				36.0		SCHIST, yellow, banded brown. Sub-angular quartz frags to 1.5cm	xw EL		75				Clayey
				38.6		NO RECOVERY							
				39.4		FAULT. Coarse sands with angular to rounded qtz, dolomite to 5cm	xw RS		40				Also dolomite clasts. Rubble mixed with cuttings. Not certain of original depth of materials
				39.6		MAGNESITE, white massive, blotched	FR VH					650	
				41.7		DOLOMITE, grey, streaked with veins (lighter and darker)	FR VH					750	
				43.4									

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Job No.

CORE LOG SHEET

Client: **TAS MAGNESITE**Project: **ARTHUR RIVER**Location: **ARO28**

LOCATION No.

SHEET 3 OF 4

Position:

Surface RL:

Inclination\Bearing: **-55/330**

Processed:

Contractor: **Edrill**Rig Type: **Diamond**

Checked:

Date Started: **29/4/11**Date Completed: **2/5/11**Logged by: **CCA**

Date:

DRILLING				MATERIAL				ADDITIONAL DATA				
SCALE (m)	Method	Run	Water	Depth / (RL) metres	Graphic Log	Description ROCK TYPE, colour, grain size, structure	Weathering	Estimated Strength	Core Recovery (%)	Defect Spacing (mm)	Samples & Tests	SCALE (m)
								20 30 40 50 60 70 80 90 100 1100			Joints, partings, seams, zones and veins Fracture type, orientation, infilling or coating, shape, roughness, other Insitu test results	
				43.4		MAGNESITE, white, blotched	FR VH			300	Fractures oblique to core JRC 10-12	
				45.4		MAGNESITE, white, blotched	FR VH			100	Fractures/joints <u>II</u> to core, semi-conchoidal JRC 6-8	
				46.6		MAGNESITE, white, blotched.	FR VH			500	Fractures oblique to core JRC 10-12.	
				48.0		MAGNESITE, white, blotched	FR VH			120	Joints <u>II</u> to core, semi-conchoidal JRC 6-8	
				54.0		MAGNESITE, white, blotched.	FR VH			300	Zones stained to pale pink Fractures oblique to core, JRC 10-12	
				56.3		MAGNESITE, stained brown on fracture	SW VH			100	Cutting through linear vein.	
				56.4		MAGNESITE, white, blotched	FR VH			400	Fractures oblique to core following linear veins often JRC 10-12	
				57.2		MAGNESITE, white, blotched	FR VH			400	Joints <u>II</u> to core JRC 6-8	
				59.1		DOLOMITE, grey, streaked with veins.	DW M			100		
				59.2		FAULT, dolomitic clays, green, v. fine, soapy	HW L			40		
				60.0		DOLERITE, grey rubble	HW M			100	Chlorite vein at base	
				60.3								

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CORE LOG SHEET

Client: **TAS MAGNESITE**
 Project: **ARTHUR RIVER**
 Location: **ARO28**

LOCATION No.

SHEET 4 OF 4

Position: , Surface RL: Inclin/Bearing: **25/330** Processed:

Contractor: **Edrill** Rig Type: **Diamond** Checked:

Date Started: **28/4/11** Date Completed: **2/5/11** Logged by: **CCA** Date:

DRILLING				MATERIAL							ADDITIONAL DATA	
SCALE (m)	Method	Run	Water	Depth / (RL) metres	Graphic Log	Description ROCK TYPE, colour, grain size, structure	Weathering	Estimated Strength	Core Recovery (%)	Defect Spacing (mm)	Samples & Tests	SCALE (m)
								20	80	10		
										100		
										1000		
											Joints, partings, seams, zones and veins Fracture type, orientation, infilling or coating, shape, roughness, other insitu test results	
				60.3		DOLERITE, grey, very fine-grained	SH HW			50	Slightly weathered rock to clayey rubble. Variable throughout.	
				62.4		DOLERITE, grey, grading towards medium-grained	FR VH			80	Linear, magnetite-bearing veins	
				64.5		DOLERITE, grey, medium-grained	FR VH			80	Shattered, signs of movement along some fractures.	
				71.1								
						E.O.H.						

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