



TEST PIT/BOREHOLE LOG SOIL

No:

Page: 1 of 1

Client: TAS MAGNESITE
Project: ARTHUR RIVER
Job No:
Location: AROSI
Date: 20/5

Contractor Co:
Contractor: Edrill
Type: Diamond
Inclination: -6°
Bearing: 330

Easting: 389559.3
Northing: 5439541.5
Grid Ref: MEA 55
Collar RL: 164
Logged by: ECA 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				No recovery						
0.25										
0.50				CLAY, red/brown. Angular quartz and gossanous clasts up to 3cm. Some rounded clasts		MST, MD				
0.75				GRAVEL, gossanous with red/brown clays as above. Some cobbles. Moderately sorted		D H/L				
1.00				DOLERITE COBBLES, rounded, poorly sorted.		D VST, L		All clasts highly weathered		
1.25				End of soil log, refer to rock						
1.50										
1.75										
2.00										
2.25										
2.50										

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
W Wet

water:

water level
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 AS1726 unless otherwise noted

CORE LOG SHEET

Client: TAS MAGNESITE

Project: ARTHUR RIVER

Location: ARO31

LOCATION No.

SHEET 1 OF 6

Position:

Surface RL:

Inclination\Bearing: 1 60/33

Processed:

Contractor: Edrill

Rig Type: Diamond

Checked:

Date Started: 20/5

Date Completed: 25/5

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	SCALE (m)
								20	80	10	100	1000	
				8.8		DOLERITE, pink/pale grey, medium-grained spotted white	xw EL	45					Weathered to soft clays. Limonite
				9.9		DOLERITE, as above, but slightly more competent	xw EL	40					Limonite on fractures
				13.4		DOLERITE, as above, more competent	xw VL	85					Moderately sheared Limonite on fractures
				14.4		DOLERITE, as above, but less competent, spotting less apparent	xw EL	45					Texture less visible
				16.7		DOLERITE, pale brown/yellow. Much limonite veining.	xw VL	90					Veins of limonite throughout, honeycombed
				17.8		DOLERITE, pink/pale grey. Spotted white.	xw EL	66					Moderately sheared soft clays.
				19.3		Gossan, dark brown, honeycombed	xw L	50					
				19.4		DOLERITE, pink/pale grey, spotted white	xw EL						Moderately sheared soft clays
				19.8		DOLERITE, pale to dark brown. Sub-angular to angular clasts.	xw EL	50					Moderately sorted gravel and rubble in clays.
				21.5		DOLERITE, as above, but less moisture	xw EL	66					Limonite coating fractures throughout
				24.8		DOLERITE, as above	xw VL	100					Much limonite
				25.4									

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 : ARO31

LOCATION No.

SHEET 2 OF 6

Position : Surface RL : Inclination\Bearing : 160/330 Processed :
Contractor : Edrill Rig Type : Diamond Checked :
Date Started : 20/5 Date Completed : 25/5 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	
				25.4		DOLERITE, as above but small zones coloured pale pink and spotted white	xw EL		50				Much limonite coating. Clayey rubble.
				30.8		DOLERITE, mostly dark brown limonite to some pale pink as above.	xw EL		60				Dominated by limonite, pink parts highly sheared.
				32.7		DOLERITE, pale pink spotted white	xw EL		80				Highly sheared, crystalline texture very weak.
				33.1		DOLERITE, dark brown limonite rubble	xw EL		65				Clayey, limonite dominated gravel
				33.7		DOLERITE, banded light and dark brown minor white spotting	xw EL		80				Very highly sheared. Very little crystalline texture visible.
				34.1		DOLERITE, pink/grey spotted white	xw EL		100				Much limonite at base.
				34.6		SCHIST, pale yellow to dark brown, intermittently banded	xw EL		66				Zones of limonite form rubble. Shearing less apparent. Dolerite crystalline structure rarely apparent, if at all.
				38.5		POOR RECOVERY, pale grey clays to some gossan	xw EL		5				
				42.2		GOSSAN, dark brown, honeycombed.	xw M		75				Rubble at top.
				43.0		CLAY, brown, unstructured	xw EL		10				Possible fault zone
				43.8		DOLERITE, dark brown, gossanous rubble	xw EL		75				Mostly altered to limonite and clay.
				44.8									

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CORE LOG SHEET

Client: TAS MAGNESITE

Project: ARTHUR RIVER

Location: ARO31

LOCATION No.

SHEET 3 OF 6

Position:

Surface RL:

Inclination/Bearing: 176°/336

Processed:

Contractor: Edrill

Rig Type: Diamond

Checked:

Date Started: 20/5

Date Completed: 25/5

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 In situ test results	
				44.8		DOLERITE, grey, spotted white. Some pale pink, spotted white	XW EL		66		Intensely sheared, especially at top.	
				47.1		LIMONITE, dark brown rubble/gravel	XW EL		50			
				47.4		GRAVEL, grey to brown, some	EL HW		35		Some individual bits VH, others EL. Limonite towards base	
				48.2		LIMONITE, dark brown/black. Crumbled	XW EL		80		Crumbles under pressure Mostly limonite	
				48.7		GOSSAN, dark brown	XW L		100		Appears more magnesite than dolerite.	
				49.0		NO RECOVERY						
				50.5		GOSSAN, dark brown	XW L		10		Rubble	
				52.0		NO RECOVERY						
				57.0		GOSSAN, as above	XW M		30			
				57.4		CLAY, light brown	XW VL		10			
				58.0		Some gossanous clasts						
				59.9		NO RECOVERY						
				60.1		SCHIST, dark brown, micaceous	XW EL		50			
				65.0		MAGNESITE, white, mottled	FR VH		600		Some talc, minor discing on fractures.	
				69.2		MAGNESITE, clear	FR VH		700			

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CORE LOG SHEET

Client: **TAS MAGNESITE**
 Project: **ARTHUR RIVER**
 Location: **ARO31**

LOCATION No.

SHEET 4 OF 6

Position: , Surface RL: Inclination\Bearing: **170/330** Processed:
 Contractor: **Edmill** Rig Type: **Diamond** Checked:
 Date Started: **20/5** Date Completed: **25/5** 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	
				69.2		MAGNESITE, pale pink, mottled white	FR VH						Lost water at 70.3m
				70.3		NO RECOVERY							
				70.6		MAGNESITE, as above	FR VH						Weathered zone, loss of water
				75.0		NO RECOVERY							V. minor limonite coating on some fractures.
				79.1		MAGNESITE, light pale brown, sandy texture	HW M		80	80			
				79.6		MAGNESITE, white pale pink	FR VH		80	80			Broken. Some weathering on upper surface.
				80.6		MAGNESITE, pale pink, as above, but some white magnesite	FR VH					1000	
				83.7		MAGNESITE, pink	MW H		75				Pink groundmass starting to weather to clay. Partially shattered.
				84.6		MAGNESITE, pale pink	FR VH					800	
				85.2		MAGNESITE, pink	MW H		35				Multiple weathered zones to no recovery
				91.0		MAGNESITE, pale pink	FR VH					250	Some talc on fractures
				91.8		NO RECOVERY							
				96.5		MAGNESITE, as above	FR VH					80	
				97.0		POOR RECOVERY, yellow clay	EL 3						Weathered zone
				98.7		MAGNESITE, as above	FR VH					200	
				100.6									

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CORE LOG SHEET

Client: **TAS MAGNESITE**Project: **ARTHUR RIVER**Location: **AR031**

LOCATION No.

SHEET **5** OF **6**

Position:

Surface RL:

Inclination/Bearing: **160/330**

Processed:

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

Checked:

Date Started: **20/5**Date Completed: **25/5**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	SCALE (m)
								20	80	10	100	1000	
				100.6		MAGNESITE, pale pink, some powdery white magnesite.	NW M		25				Some decomposing to clays. Crystal growth within clays. Some magnesite v. fine, powdery crystals.
				101.5		NO RECOVERY							
				103.0									
				106.0		MAGNESITE, pale pink	FR VH		85		300		Small zones showing weathering towards clays, small cavities. Weathered zone.
				111.1									
				112.4		MAGNESITE, pink	MW H		70		60		Some weathering to clay
				116.6		POOR RECOVERY. yellow clays.	NW VL		6				Top bounded by linear vein.
				116.6		MAGNESITE, pink, mottled white	MW H				60		Some sandy texture
				116.7									
				117.3		MAGNESITE, pink	HW M				30		
				117.3		MAGNESITE, pink to pale brown	FR VH				100		
				117.9		MAGNESITE, pale pink	MW H		70				Some weathering to clays, hardening down-hole.
				118.1		MAGNESITE, pale pink	MW VH				10		Limonite on some fractures. Highly broken.
				119.2		MAGNESITE, pink	FR VH				200		
				123.3									
				127.6		MAGNESITE, pale pink to white, mottled	FR VH				30		Rock grades to white with depth. Minor discing. JRC 8-10
				129.2		TALC, white, powdery	FR EL		5				
				131.2		MAGNESITE, pale pink, to minor TALC vein	FR VH				300		

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CORE LOG SHEET

Client: **TAS MAGNESITE**Project: **ARTHUR RIVER**Location: **ARO31**

LOCATION No.

SHEET 6 OF 6

Position:

Surface RL:

Inclination/Bearing: **1760/330**

Processed:

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

Checked:

Date Started: **20/5**Date Completed: **25/5**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	SCALE (m)
								20	80	10	100	1000	
				131.2		CLAY, yellow magnesian clays, massive, competent	XW EL		30				
				131.6		MAGNESITE, pale pink	FR VH			150		Margins starting to weather to clays.	
				131.9		CLAY, as for above clay, but containing rock fragments	XW L		60				
				132.1		MAGNESITE, as for above magnesite	FR VH			200			
				132.5		MAGNESITE, as above but highly weathered	HW L		60				
				132.6		MAGNESITE, pale pink. Small sandy zones. Mottled white	MW H		80	250		Multiple small cavities, with rock weathering towards clay on margins	
				136.0		MAGNESITE, as above but no cavities	FR VH			330			
				137.0		MAGNESITE, pink, often weathered to horncomb structure filled w clay	HW H					Multiple small cavities. Broken. Many Frequent crystal structures on weathered zone margins	
				146.7		MAGNESITE, dark pink	MW H			60			
				147.0		MAGNESITE, pale pink	MW H			75		Very broken/shattered	
				148.2		NO RECOVERY							
				148.8		MAGNESITE, dark pink/brown. Slightly sandy texture	MW H			100		Bounding surfaces highly weathered.	
				149.3		NO RECOVERY							
				150.0								E.O.H.	

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