

Client: TAS MAGNESITE
Project: ARTHUR RIVER
Location: AR 029

SHEET 1 OF 4

Position : , Surface RL : Inclination\Bearing : 160/23 Processed :

Contractor: <i>Edrill</i>	Rig Type: <i>Diamond</i>	Checked: <i>[Signature]</i>
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Date Started : 3/5/11 Date Completed : Logged by : CCA Date :

DRILLING				MATERIAL						ADDITIONAL DATA	
SCALE (m)	Method	Run	Water	Description ROCK TYPE, colour, grain size, structure	Weathering	Estimated Strength	Core Recovery (%)	Defect Spacing (mm)	Samples & Tests		SCALE (m)
						20	80	10			
								100			
								1000			
2.5				CARBONATE, stained brown very dark around fractures. Very broken soft	xw VL			100		Joints, partings, seams, zones and veins	
2.9				SCHIST, orange/brown, stained deep red on fractures. Angular qtz 5mm	xw EL			90		Fracture type, orientation, infilling or coating, shape, roughness, other	
3.7				CLAY, orange/brown Qtz, carbonate, schist fragments. No structure	xw EL			90		In situ test results	
4.6				CARBONATE, dark brown, weathering to clay with some hard rock	xw VL			75			
6.2				CLAY, carbonate-rich. Unstructured brown/grey	xw EL			90			
7.3				CARBONATE, dark brown, very broken	xw VL			80			
8.0				NO RECOVERY							
9.0				CLAY, brown/grey, intermittent carbonate layers, otherwise unstructured	xw EL			50			
10.4				CLAY, carbonate-rich. Angular quartz frags to 5mm	xw EL			100			
11.0				Soft carbonate clasts							

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: **ARO29**

LOCATION No.

SHEET 2 OF 6

Position: , Surface RL: Inclination/Bearing: **76/336** Processed:
 Contractor: **Edrill** Rig Type: **Diamond** Checked:
 Date Started: **3/5/11** Date Completed: 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	
				11.0		NO RECOVERY							
				13.0		CARBONATE, black, v. fine-grained, massive	xw M		60				Rubble
				13.2		CARBONATE black. As above, but smaller, rounded fragments and some carbonaceous clay	xw M L		S				
				14.2		CARBONATE, as above but more competent, mottled white.	xw M L		70	80			Possibly several small cavities
				16.6		GRAVEL, well graded. Angular to sub-rounded carbonate + quartz. Carbonaceous clay	EL		30				Shattered angular carbonate
				18.7		CARBONATE, as above but more weathered	xw EL		60				Rubble
				19.0		CLAY, grey/brown, carbonaceous. No structure. Sandy texture	xw EL		15				
				20.2		CARBONATE, as above.	xw EL		40				Rubble.
				20.4		NO RECOVERY							
				22.0		CARBONATE, as above but lighter more white material, generally harder	xw M		35				
				23.5		QUARTZ, white, stained black on surfaces. Angular	xw H		50				Vein quartz rubble.
				23.6									

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CORE LOG SHEET

Client: **TAS MAGNESITE**
 Project: **ARTHUR RIVER**
 Location: **AR029**

LOCATION No.

SHEET **3** OF **6**

Position: Surface RL: Inclin\Bearing: **1-6/330** Processed:
 Contractor: **Edrill** Rig Type: **Diamond** Checked:
 Date Started: **3/5/11** Date Completed: 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 80 100 1000			Joints, partings, seams, zones and veins Fracture type, orientation, infilling or coating, shape, roughness, other Insitu test results	
				23.6		SILTSTONE, pale green. Small angular fragments, ~10% decomposed to clay	KWBL	20				
				26.0		SILTSTONE, dark brown. Shattered. Decomposing to grey brown clay	KW EL	75				
				26.2		SILTSTONE, pale green. Zones of competent material shattered. Much clay	KW EL	15				
				32.5		SANDY CLAYS, pale green. Well graded sands ranging from v. fine to coarse. ~10% clays in material recovered.	KW EL	85				
				38.0		DOLERITE, light grey mottled white, pink, weathering to grey clays.	KW VL	25				
				38.3		SILTSTONE, brown grey. Sandy texture when weathered to clay (~75% clay)	KW EL	60				
				38.8		SILTSTONE SANDY CLAYS, as for above sandy clays	KW EL					
				39.5		SANDY CLAYS, as above, but lower sand content, harder and darker green	KW VL	30				
				43.0								

Most material washed away in drilling - generally fine sands.

Bands of clay interspersed by sands. Clay always at bottom of run. Sands possibly redrill. Sands ~95% quartz, angular to sub-rounded.

Pebbles, rounded.

Much overdrill - 1.8 m of material captured for 0.6 m drilled

Some only moderately weathered.

See standard sheets for details of abbreviations & basis of descriptions



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CORE LOG SHEET

Client: **TAS MAGNESITE**
 Project: **ARTHUR RIVER**
 Location: **AR029**

LOCATION No.

SHEET 4 OF 6

Position: Surface RL: Inclination/Bearing: **1-60/330** Processed:
 Contractor: **Edrill** Rig Type: **Diamond** Checked:
 Date Started: **3/5/11** Date Completed: **9/5/11** 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		
				43.0		SHEAR ZONE, black, devitrified glassy texture	XW VL		66		Shear planes visible. Conchoidal fractures within rock.		
				44.5		CLAYS, green, sandy. Variably sheared	XW EL		70				
				45.3		SOFT CLAYS, pale brown, streaked and mottled dark brown. Sandy texture.	XW EL		40		Highly sheared. Angular gtz frags to 4mm.		
1				51.0		DOLOMITE, dark grey. Generally hard, some more weathered zones	HW H		50		RUBBLE at top, mixed with magnesite cobbles. Dense.		
				52.0		MAGNESITE/ALCALINE MUDSTONE, white to light brown			60		Weathered to clay on margins. Hardens towards centre.		
				59.6		DOLOMITE, dark grey. Medium-grained. Spotted white	XW EL		75		Highly sheared. Green chloritic material on shear planes.		
				60.3		MAGNESITE, pale pink/yellow	DW L				Hard rock in weathered margins. Sitting conformably within dolomite.		
2				60.4		DOLOMITE, dark grey. Medium grained, spotted	XW VL		90				
				63.8		FAULT, doleritic material. Single crystals to cobbles	XW EL		80				
				64.0		DOLOMITE, dark grey. Very fine-grained. Soapy shear planes	HW VL		100		Extremely sheared. Small patches of magnesite		
3				65.0		FAULT doleritic with magnesite	XW EL						

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CORE LOG SHEET

Client : **TAS MAGNESITE**
 Project : **ARTHUR RIVER**
 Location : **ARO29**

LOCATION No.

-66/330

SHEET 5 OF 6

Position : , Surface RL : Inclination/Bearing : \ ~~40~~
 Contractor : **Edrill** Rig Type : **Diamond**
 Date Started : **3/5/11** Date Completed : **9/5/11** 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		
				65.0		DOLERITE, dark grey. Fine to medium grained. Rubble	HW VL				Intermittent, discontinuous red and yellow veining. Partially sheared		
				67.0		DOLERITE, dark grey to green. Medium-grained. Altering to clay at base	HW L			200	Moderately sheared. Frequent red veining		
				69.9		FAULT, green clayey rubble	HW VL				Pyritic		
				70.0		DOLERITE, light green/grey. Medium-grained	DW M			100	More carbonate than before. No consistent fracturing		
				71.5		MAGNESITE, pink/yellow. Intense veining within dolerite	DW L				Holes from weathering filled to dolomite, quartz		
				71.6		DOLERITE, green, very fine-grained.	HW EL			50	Strong chloritic alteration. Shear fabric.		
				73.0		DOLERITE, dark grey. Fine to very fine-grained. Weathering to clay at base	HW VL			90	Sheared near base		
				74.3		MAGNESITE, white. Minor siltstone, dolomite, talc.	HW M			80	Some sheared fabric. Irregular fractures often rubbly, some clay.		
				78.0		DOLERITE, grey. Fine to medium grained rubble.	HW M			80			
				80.3		DOLERITE, very dark green to black. Very fine-grained	HW VL			15	Very pyritic, much carbonate		
				81.4									

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CORE LOG SHEET

Client : **TAS MAGNESITE**
 Project : **ARTHUR RIVER**
 Location : **AR029**

LOCATION No.

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

Position : Surface RL : Inclination\Bearing : **1 - 89/330** Processed :
 Contractor : **Edrill** Rig Type : **Diamond** Checked :
 Date Started : **3/5/11** Date Completed : **9/5/11** 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		Joints, partings, seams, zones and veins Fracture type, orientation, infilling or coating, shape, roughness, other Insitu test results	
				81.4		DOLERITE, grey. Very fine to medium-grained	MW M		50		Generally rubble. Several small clayey possible faulted zones. Some shearing.	
				87.8		FAULT, green doleritic clays. Occasional sheared dolerite fragments	KW EL		15			
				88.5		NO RECOVERY						
				89.1								
						E.O.H.						

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