



# TEST PIT/BOREHOLE LOG

## SOIL

No:

Page: 1 of 2

Client: TAS MAGNESITE  
Project: ARTHUR RIVER  
Job No:  
Location: AR034  
Date:

Contractor Co:  
Contractor: Edrijl  
Type: Diamond  
Inclination: -68  
Bearing: 338

Easting:  
Northing:  
Grid Ref:  
Collar RL:  
Logged by: CEA 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 / Run	Lab. Testing
0.00				No recovery						
0.25										
0.50			GC	Glacial till, grey. Well sorted to 3cm. Clayey sand matrix, clasts rounded to sub-angular, mostly quartz to some siltstone. Matrix supported	M	VST MD		Sand grains often angular. Firming to depth.		
0.75				No recovery						
1.00			GP	Glacial gravels, grey/white. Poorly sorted dominantly glaciated quartzite from 0.5-5cm, mostly sub-rounded.	D	H/L		Matrix washed away (Hard clasts)		
1.25										
1.50				Glacial till, white to black. Little matrix. Clasts mostly quartz, to some black fines composing matrix in parts	D	H/D				
1.75				Glacial gravels as above, but to zones of grey/green to black matrix	D	H/L		(Hard clasts)		
2.00				No recovery						
2.25				Glacial gravels as above, poorly sorted						
2.50				No recovery						
2.75				Glacial till, grey/black. Well sorted gravels to 2cm. Mostly sub-rounded to angular quartz				Poor recovery		

## 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

## 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



# TEST PIT/BOREHOLE LOG SOIL

No:

Page: 2 of 2

Client: **TAS MAGNESITE**  
Project: **ARTHUR RIVER**  
Job No:  
Location: **ARO34**  
Date:

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

Easting:  
Northing:  
Grid Ref:  
Collar RL:  
Logged by: **GCA** Checked by:

31.0  
34.0  
34.2

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				Glacial till as above.						
0.50				End of soil log, refer to rock.						
0.75										
1.00										
1.25										
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 AS1728  
unless otherwise noted

## CORE LOG SHEET

Client: TAS MAGNESITE

Project: ARTHUR RIVER

Location: AR034

LOCATION No.

SHEET 1 OF 4

Position:

Surface RL:

Inclination/Bearing: 760/330

Processed:

Contractor: Edrill

Rig Type: Diamond

Checked:

Date Started:

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	ADDITIONAL DATA	SCALE (m)
								20	80	10	100	1000	
				34.2		SEIST, pale brown clayey, poorly structured.	KW EL	20					
				39.0		MAGNESITE, brown, sandy texture. Minor black schist - from uphole?	KW L	60					
				41.5		MAGNESITE, brown, sandy. Poor recovery. Angular to sub-angular	KW EL	5					
				57.0		clasts in sands							
						MAGNESITE, pink to mottles of white	HW M	25					
				61.0		MAGNESITE, pale grey, mottled white. Weathering to clay. Angular clasts	HW L	20					
				62.5		MAGNESITE, pale grey, mottled white. Clasts angular to sub-rounded.	HW H	15					
				71.5		MAGNESITE, as above but competent rock	SW VH	70		100			
				73.8		DOLOMITE, grey to dark grey, mottled brown and white.	SW H	60					
				75.5		FAULT, dark grey, dolomitic sands, weathered fragments	KW EL	30					
				76.0		MAGNESITE, pink, mottled pale brown and white.	HW L	25					
				79.0									

See standard sheets for details of abbreviations & basis of descriptions



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## CORE LOG SHEET

Client: TAS MAGNESITE

Project: ARTHUR RIVER

Location: ARO34

LOCATION No.

SHEET 2 OF 4

Position:

Surface RL:

Inclination/Bearing: 1-60/36

Processed:

Contractor: Edrill

Rig Type: Diamond

Checked:

Date Started:

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		
				79.0		MAGNESITE, pale brown, mottled pale pink.	MW H		35			
				80.5		No RECOVERY						
				84.0		Magnesite, as above	MW H		70			
				85.0		MAGNESITE, pale pink.	FR H		60			
				85.8		MAGNESITE, as above but weathering to clay in parts	MW M		30			
				86.5		MAGNESITE, pale brown, mottled white	FR H		30			
				89.4		MAGNESITE, pink, mottled white	FR H		30			
				95.0		No RECOVERY						
				95.7		MAGNESITE, as above	FR VH		75			
				99.2		MAGNESITE, pale grey, w wisp siltstone veins. Mottled pale pink	FR VH		120			
				100.0		CLAY, magnesite derived, pale pink. Minor gravel to 2mm	FR VH		15			
				100.8		MAGNESITE, pale pink, sandy texture. Mottled white	FR VH		100			
				101.1		SILTSTONE, grey/green. Fine-grained	MW M		40			
				101.4								

Rubble.  
Minor parts altering to clay.

Limonite alteration of clasts at top.

Broken.

Faulted at base - white clays interspersed to angular fragments.

Very broken.

Very broken, some fragments sub-rounded. Base stained to limonite.

Bounding rocks limonite stained

Very broken

Breaking along siltstone veins.

Fault

Soft rock, weathering to clay at top.

## CORE LOG SHEET

Client: **TAS MAGNESITE**  
 Project: **ARTHUR RIVER**  
 Location: **AR034**

LOCATION No.

SHEET 3 OF 4

Position: , Surface RL: Inclination/Bearing: **16/30** Processed:  
 Contractor: **Edrill** Rig Type: **Diamond** Checked:  
 Date Started: Date Completed: Logged by: **CSA** 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)
				101.4		MAGNESITE, pale brown	MW H		25		Joints, partings, seams, zones and veins	
				102.0		MAGNESITE, pale pink, mottled very pale pink	FR VH				Fracture type, orientation, infilling or coating, shape, roughness, other	
				105.1		MAGNESITE, pink, mottled white.	FR VH		35	80	Insitu test results	
				107.3		MAGNESITE, pink	FR VH			80		
				109.8		CLAY, very pale pink, magnesite derived	XW EL					
				109.9		MAGNESITE, pale pink, mottled white.	FR VH		90			
1				111.5		NO RECOVERY						
				113.5		MAGNESITE, pale pink, mottled white.	SW H					
				115.0		MAGNESITE, pale brown, sandy texture	HW M		30	150		
				115.7		MAGNESITE, pale pink, mottled white.	FR VH			80		
2				116.5		NO RECOVERY						
				120.2		MAGNESITE, pale pink.	FR VH			200		
				121.0		POOR RECOVERY, fine angular gravels, brown.	XW EL S					
				123.2		MAGNESITE, pink. Some sandy texture.	HW L		40			
				123.6		MAGNESITE, pale grey, mottled pink	FR VH			100		
3				125.4								

Limonite staining on margins of small cavity

Highly broken zones.

Several veins slightly open.

Fault zone.

Very broken at base.

Much of core weathered away, carbonate crystals in voids.

Rubbly zone near base, otherwise competent

Small, open crystalline cavities

Fine rubble. Weathering to clay

Numerous open, crystalline cavities

See standard sheets for details of abbreviations & basis of descriptions



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## CORE LOG SHEET

Client: **TAS MAGNESITE**  
 Project: **ARTHUR RIVER**  
 Location: **AR034**

LOCATION No.

SHEET 4 OF 4

Position: , Surface RL: Inclination/Bearing: **176/330** Processed:

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

Date Started: 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	
				125.4		MAGNESITE, pale pink	SW H		50				Very broken Some veins not filled.
				128.8		FAULT, clay and magnesite rubble, angular	KW L		40				
				129.2		NO RECOVERY							
				130.0		MAGNESITE, pink. Generally sub-angular	MW M		40				Rubble.
				130.5		MAGNESITE, as above, but fractured, not rubble	FR H		75				Variably shattered Occasional open veining to clay Small zones weathering
				137.5		MAGNESITE, pink, & open cavities (small)	FR H		80				Open veining, fractures along planes JRC 8-10. Shattered top
				139.6		MAGNESITE, brown, mottled white	FR VH		200				
				140.5		WEATHERED ZONE, sand filled. Quartz + magnesite	KW EL		100				
				140.8		MAGNESITE, brown/pink, mottled white	FR VH		80				
				141.7		NO RECOVERY							
				142.4		MAGNESITE, as above	FR VH		30				
				142.9		NO RECOVERY							
				143.4		MAGNESITE, as above. Small open cavities	FR VH		85	150			Sub-rounded rubble at top (pink)
				149.4		FAULT, pink, angular magnesite and clay	KW L		35				
				150.0									

See standard sheets for details of abbreviations & basis of descriptions



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