

Mineral Resources Tasmania

Laboratory Report

LJN2020-035

PETROPHYSICAL TESTS:

TEN MILE CREEK, BEECROFT ROAD AND BLACK HARRY ROAD DDH



An unpublished Mineral Resources Tasmania Report for:

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Date: 25 May 2020

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INTRODUCTION

Twenty Seven rock samples were collected from Ten Mile Creek, Beecroft Road and Black Harry Road Diamond Drill Cores by M Duffett, for physical property measurements; with details listed in Table 1 below.

Table 1: Sample Details

Reg. #	Field #	Location	Sample Description
A500537	22.1	15975 TMC1	rhyolite
A500538	32.2	15975 TMC1	rhyolite
A500539	49.5	15975 TMC1	rhyolite
A500541	33.9	15976 TMC2	felsite
A500545	29	15978 TMC4	rhyolite
L301398	33.8	15976 TMC2	felsite
L301399	10.6	15977 TMC3	felsite
L301400	38.6	15978 TMC4	rhyolite
L301401	48.65	15978 TMC4	felsite
L301402	84.5	19905 BTRD1	basaltic-rock
L301403	134	19905 BTRD1	greywacke
L301404	70.45	14665 BLHY-1	dacite
L301405	106.88	14665 BLHY-1	dacite
L301406	148.05	14665 BLHY-1	dacite
L301407	158.29	14665 BLHY-1	dacite
L301408	232.6	14665 BLHY-1	dacite
L301409	251.6	14665 BLHY-1	dacite
L301410	217.45	14665 BLHY-1	rhyolite
L301411	263.45	14665 BLHY-1	pelite
L301412	276.98	14665 BLHY-1	dacite
L301413	286.95	14665 BLHY-1	pelite
L301414	305.34	14665 BLHY-1	dacite
L301415	352.06	14665 BLHY-1	dacite
L301416	465.75	14665 BLHY-1	sandstone, volcanoclastic
L301417	162.9	14665 BLHY-1	rhyolite
L301418	339.2	14665 BLHY-1	shale
L301419	460	14665 BLHY-1	rhyolite

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SAMPLE DESCRIPTION

The samples consisted of coherent diamond drill core, from Ten Mile Creek, Beecroft Road and Black Harry Road in Tasmania. Photos of each sample are listed below (Photo 1-27).

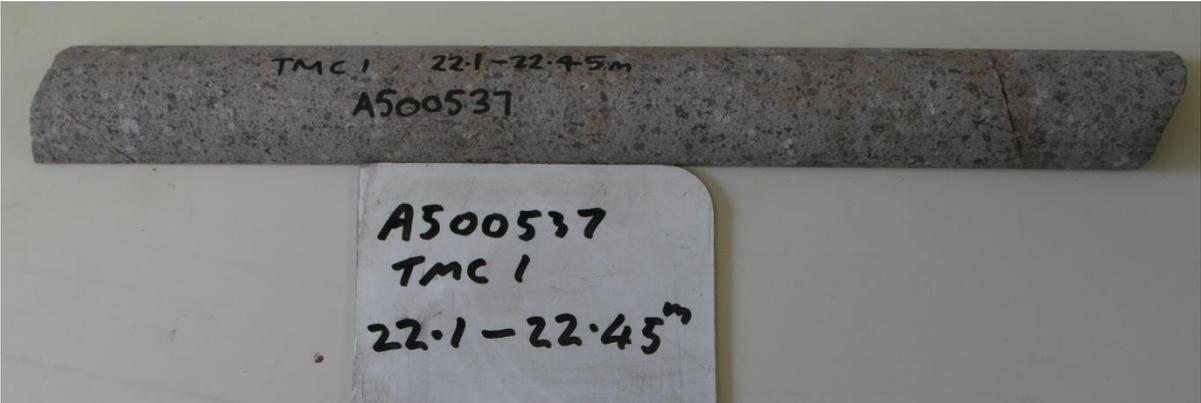


Photo 1: Sample A500537 - rhyolite. FOV: about 700 mm

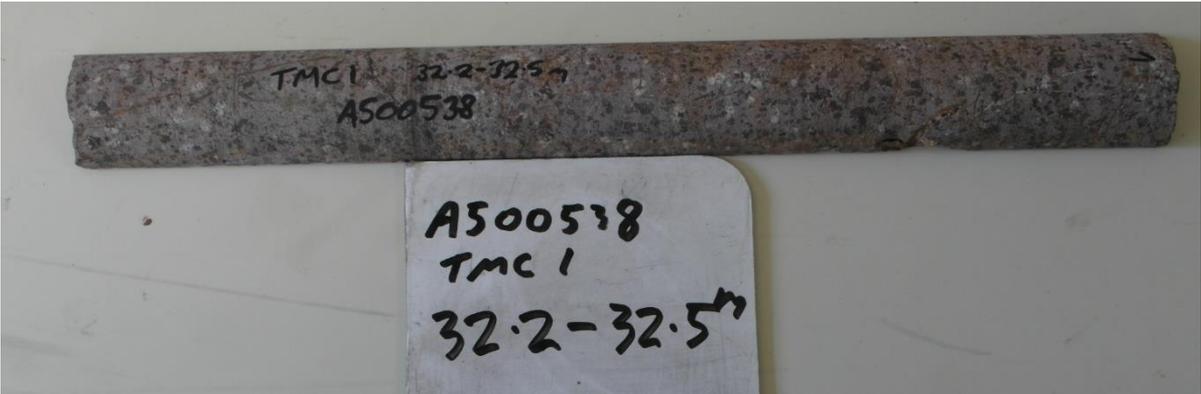


Photo 2: Sample A500538 - rhyolite. FOV: about 700 mm

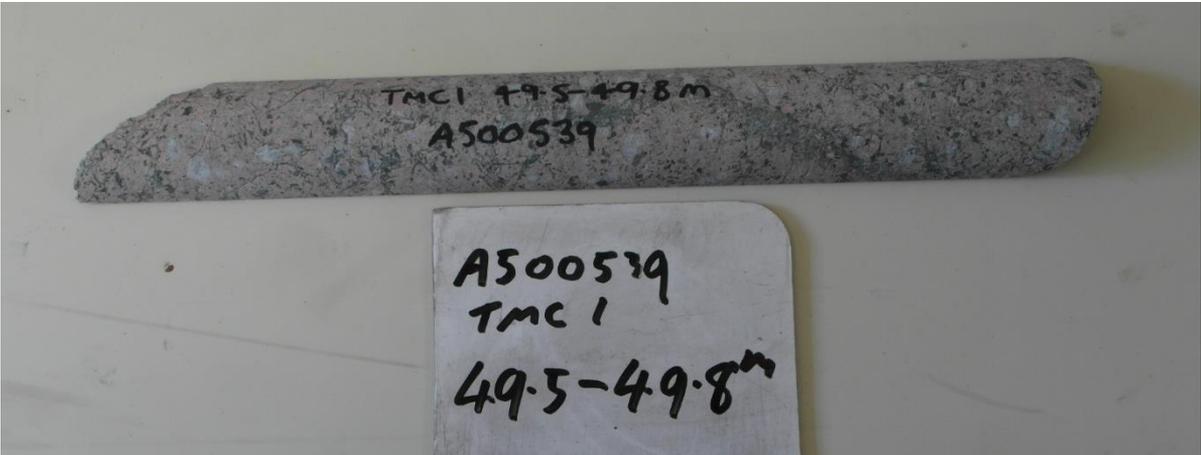


Photo 3: Sample A500539 - rhyolite. FOV: about 600 mm

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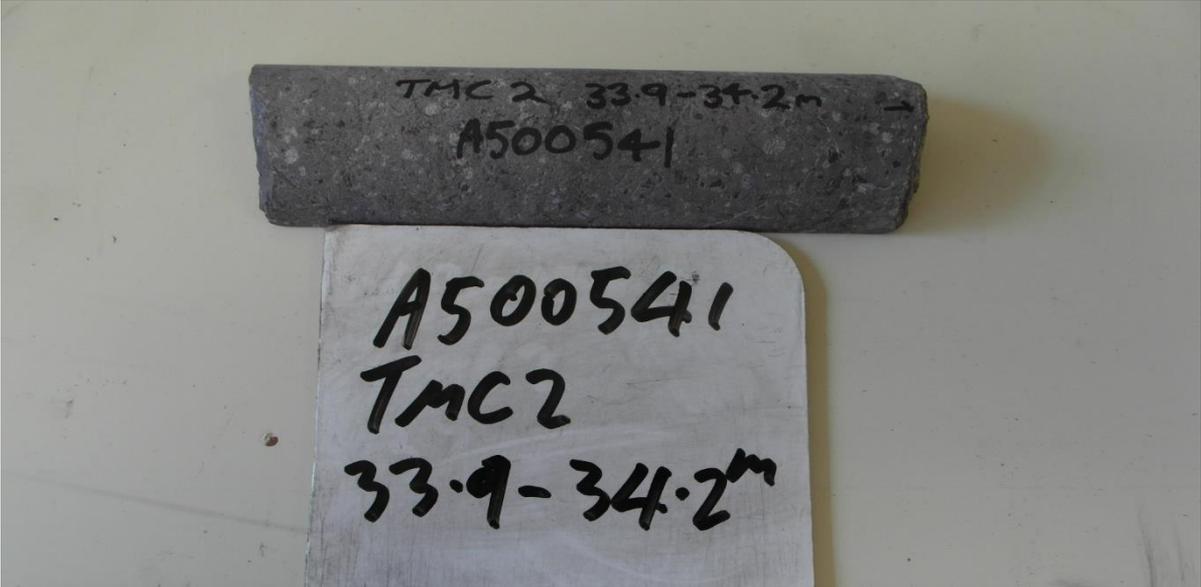


Photo 4: Sample A500541 - felsite. FOV: about 400 mm

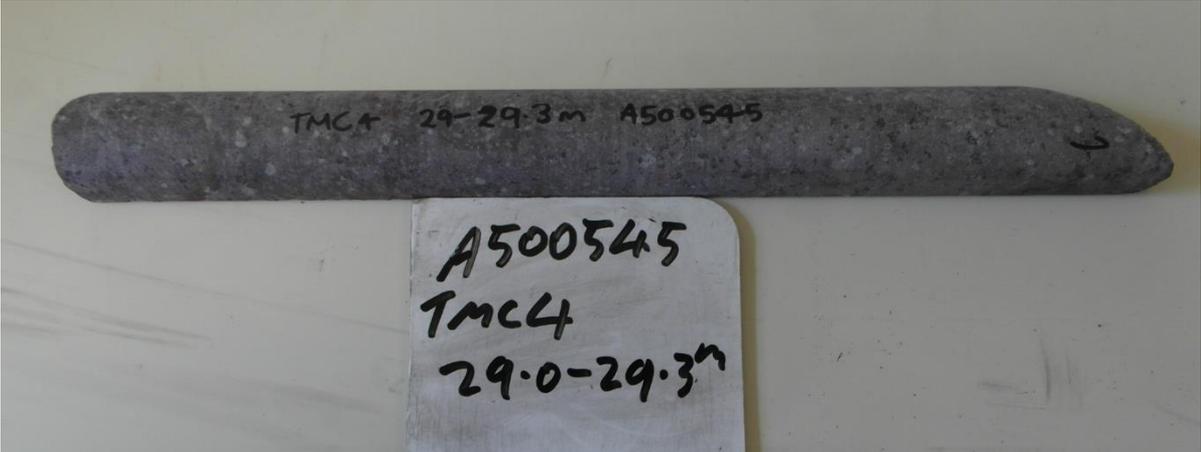


Photo 5: Sample A500545 - rhyolite. FOV: about 700 mm

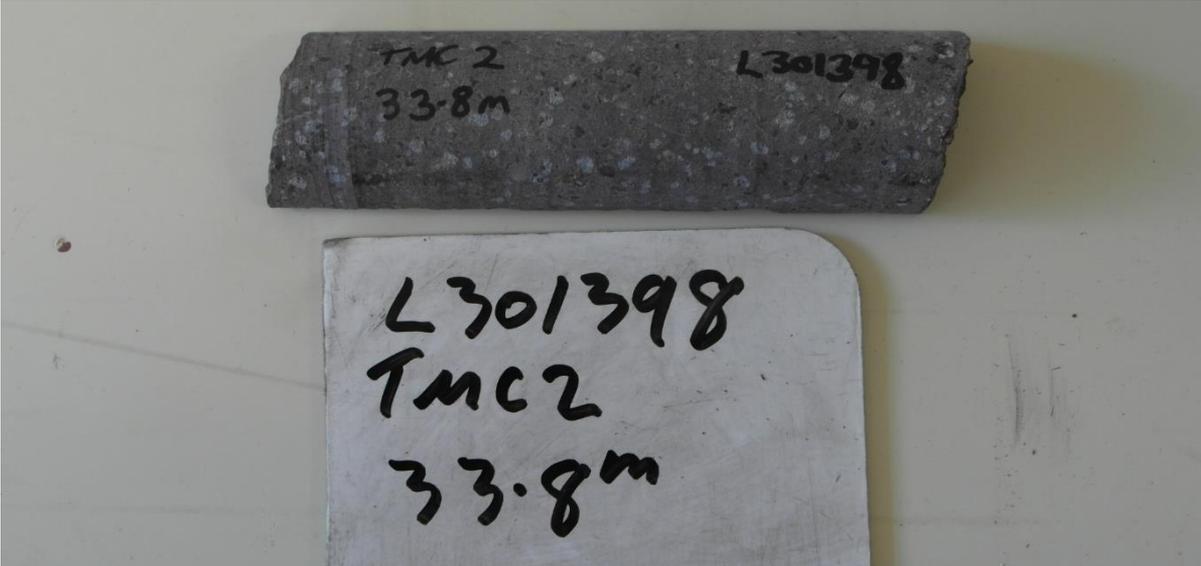


Photo 6: Sample L301398 - felsite. FOV: about 400 mm

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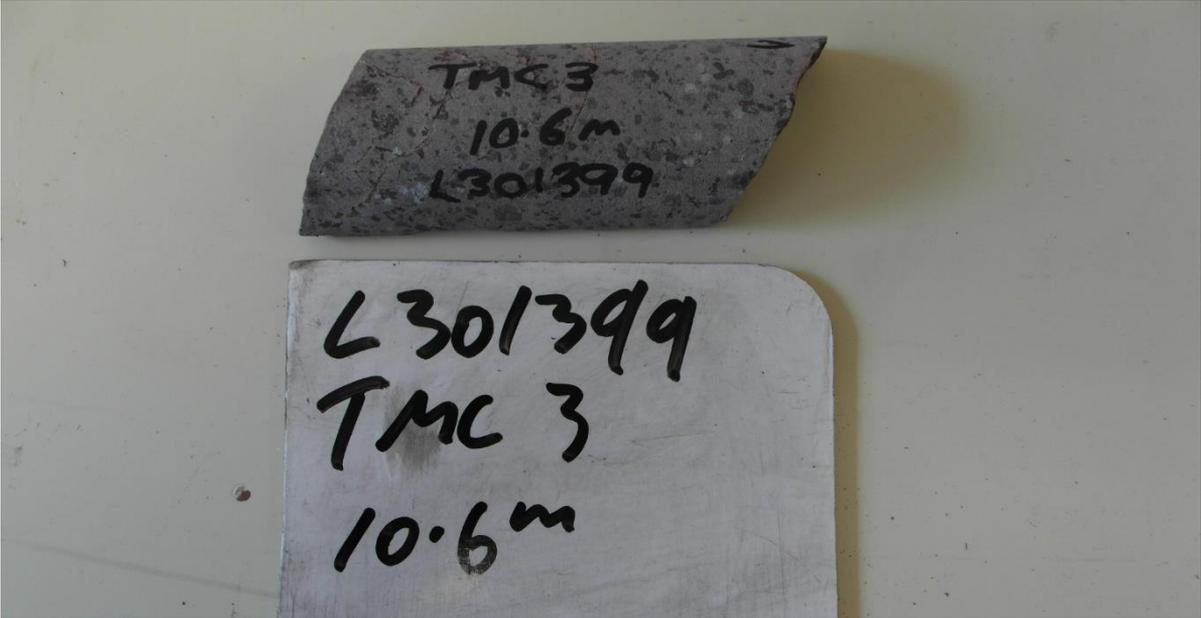


Photo 7: Sample L301399 - felsite. FOV: about 400 mm

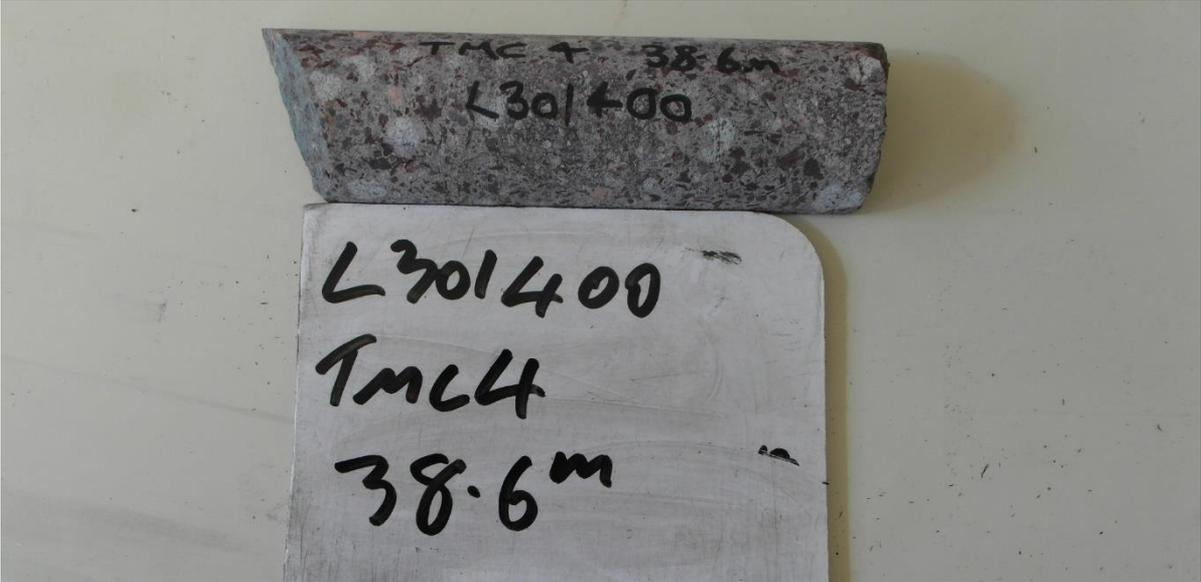


Photo 8: Sample L301400 - rhyolite. FOV: about 400 mm

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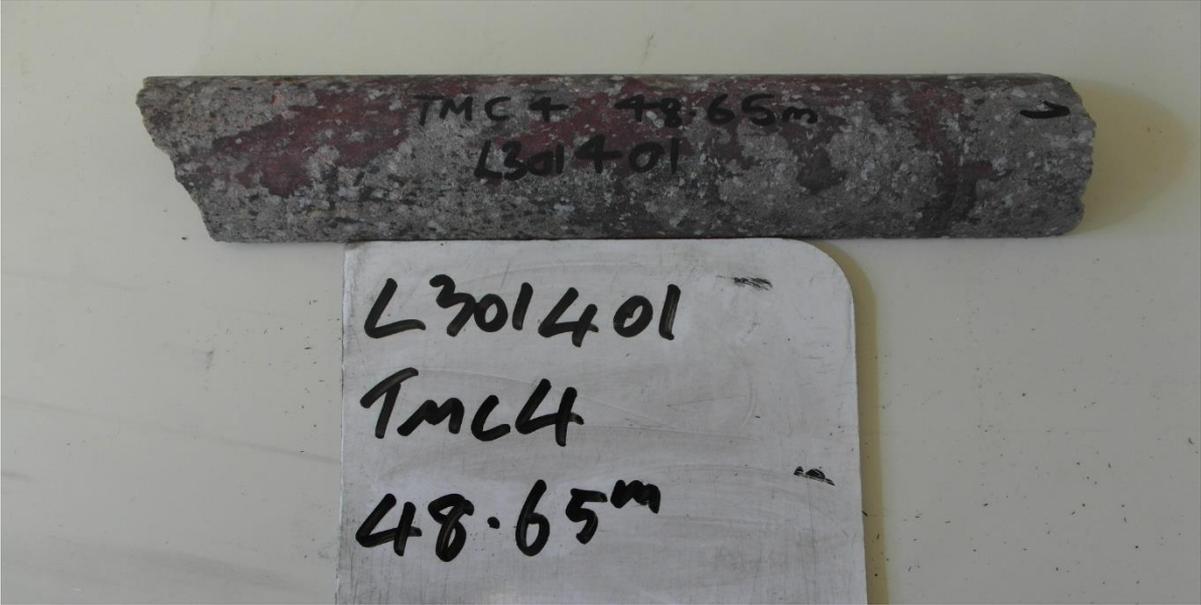


Photo 9: Sample L301401 - felsite. FOV: about 300 mm

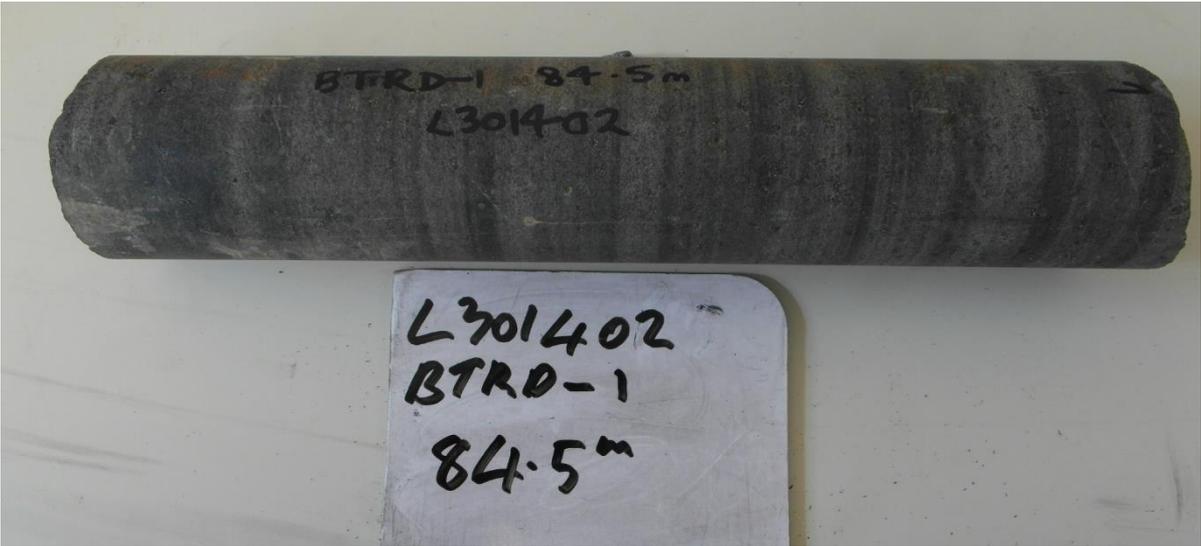


Photo 10: Sample L301402 - basaltic-rock. FOV: about 400 mm

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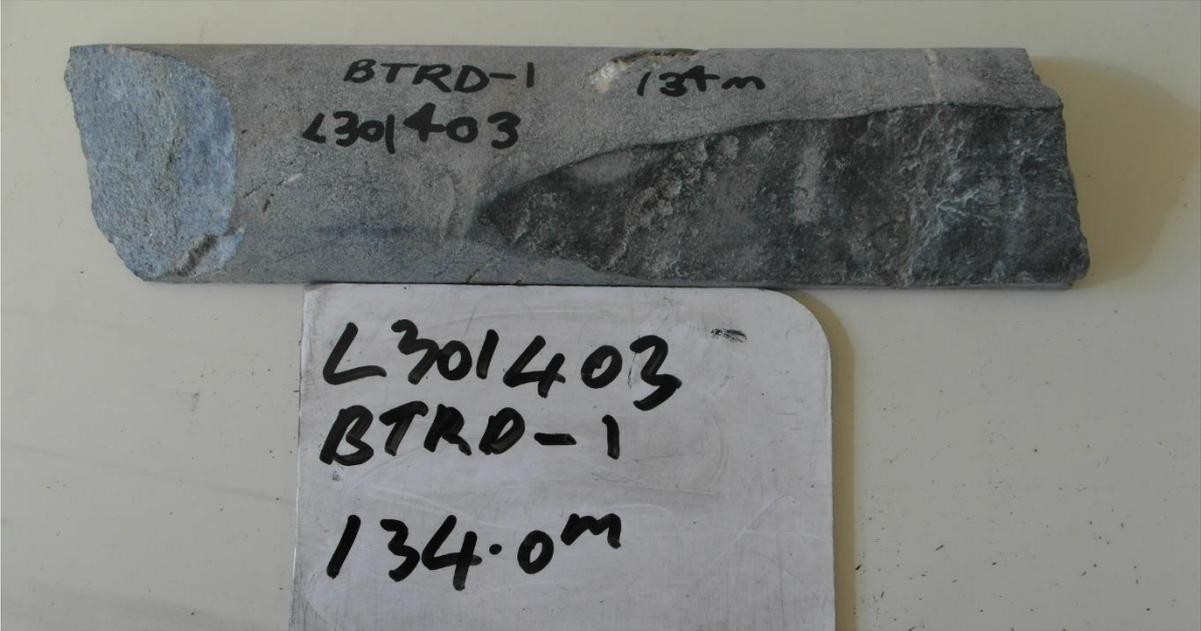


Photo 11: Sample L301403 - greywacke. FOV: about 400 mm

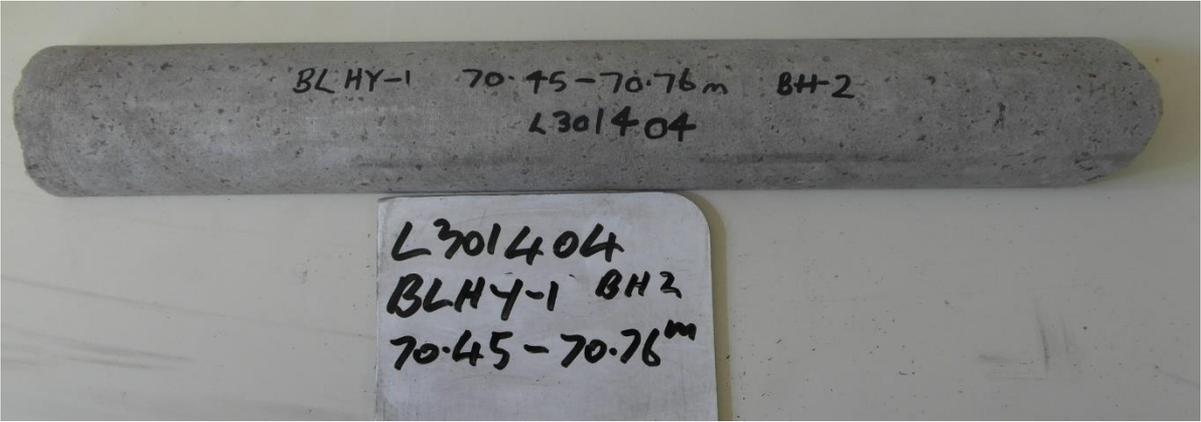


Photo 12: Sample L301404 - dacite. FOV: about 600 mm

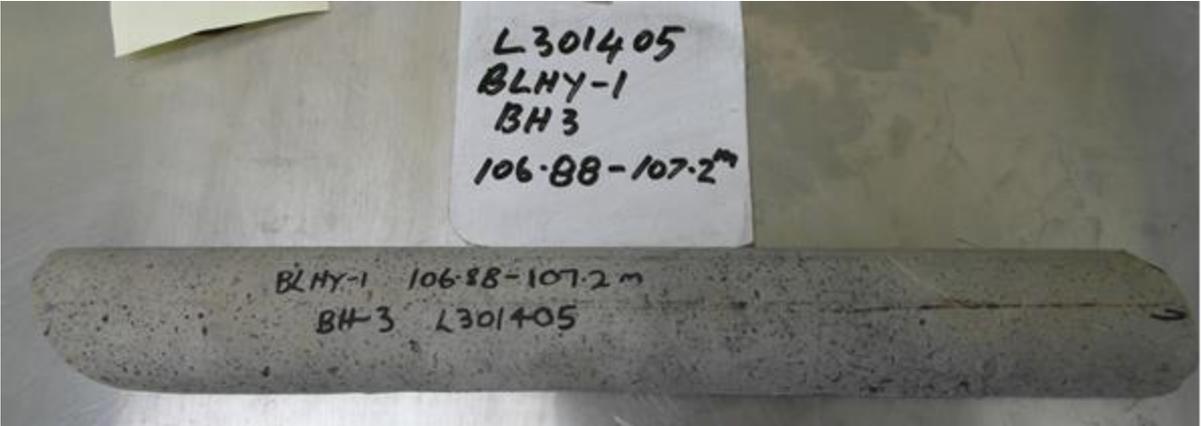


Photo 13: Sample L301405 - dacite. FOV: about 700 mm

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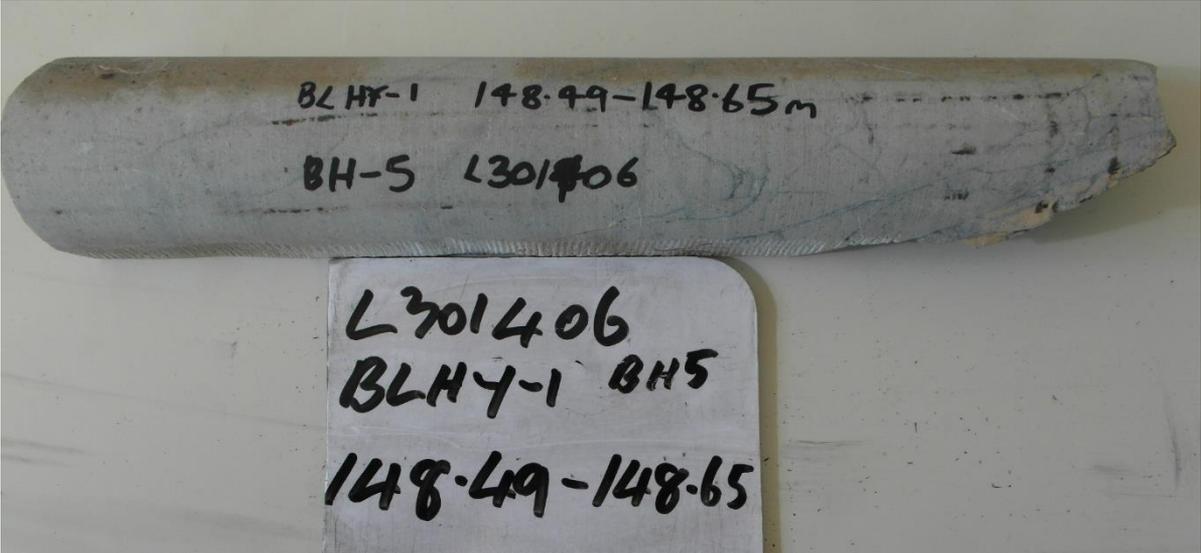


Photo 14: Sample L301406 - dacite. FOV: about 450 mm

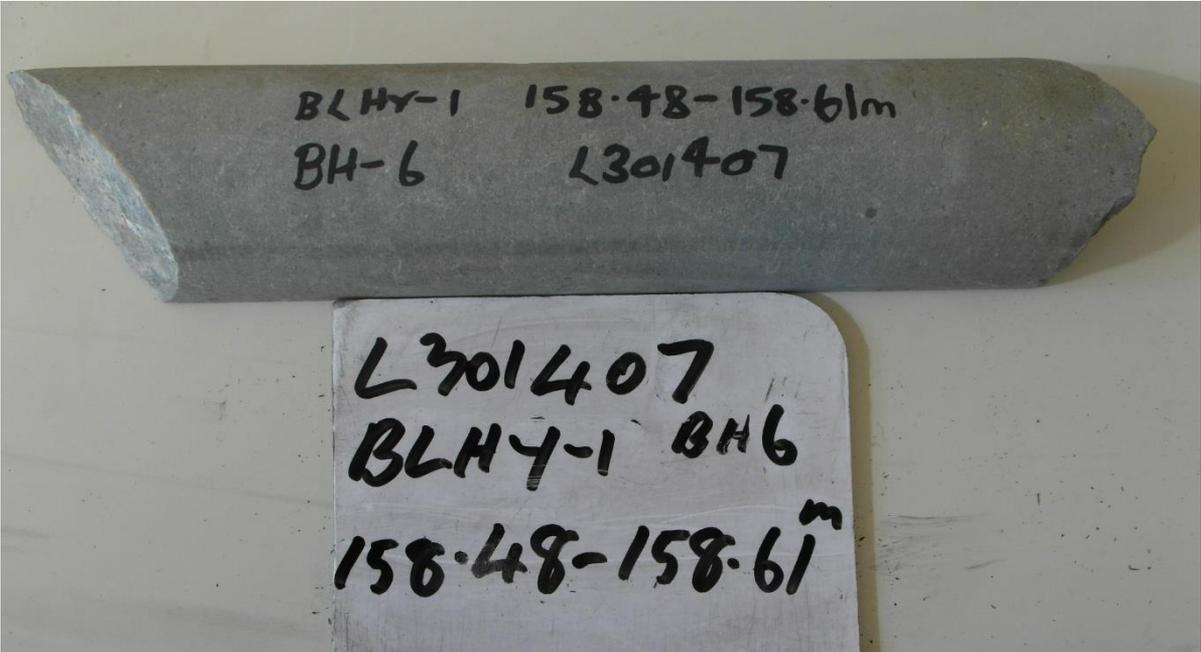


Photo 15: Sample L301407 - dacite. FOV: about 400 mm

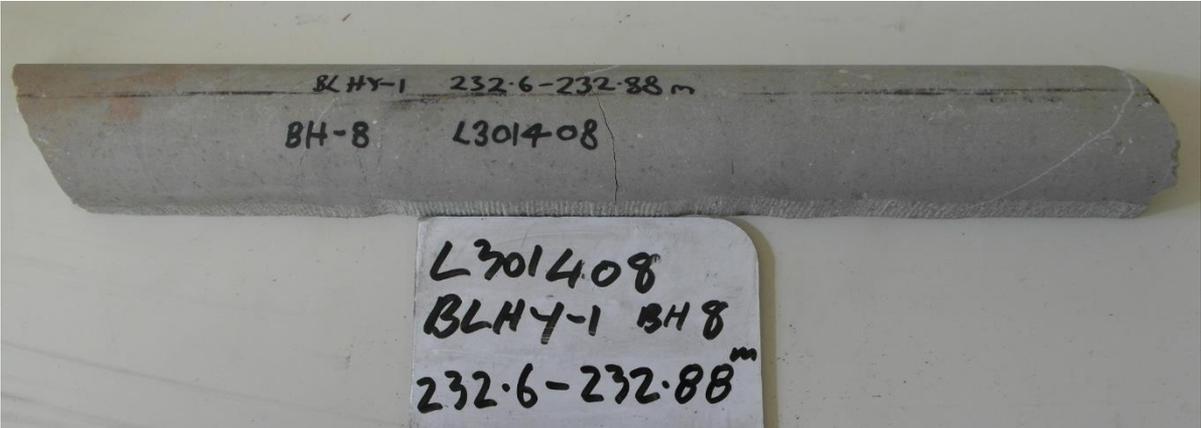


Photo 16: Sample L301408 - dacite. FOV: about 600 mm

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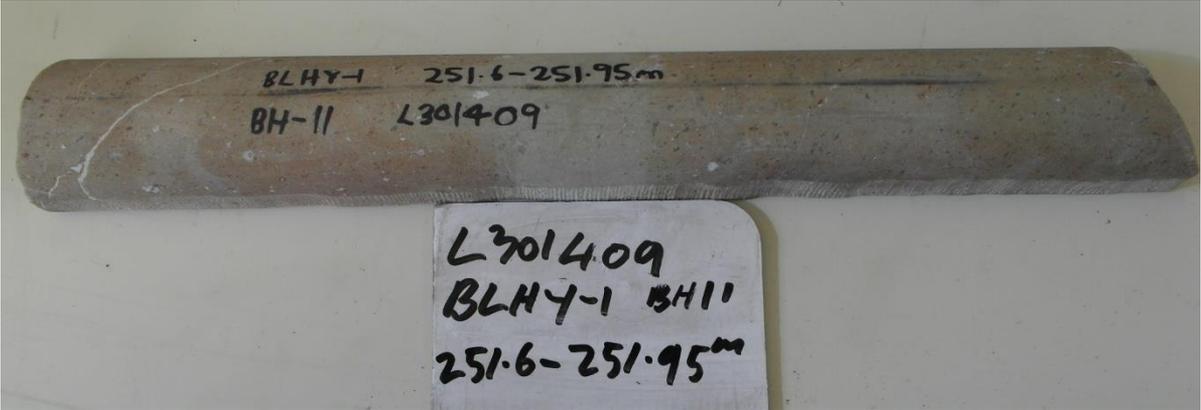


Photo 17: Sample L301409 - dacite. FOV: about 700 mm

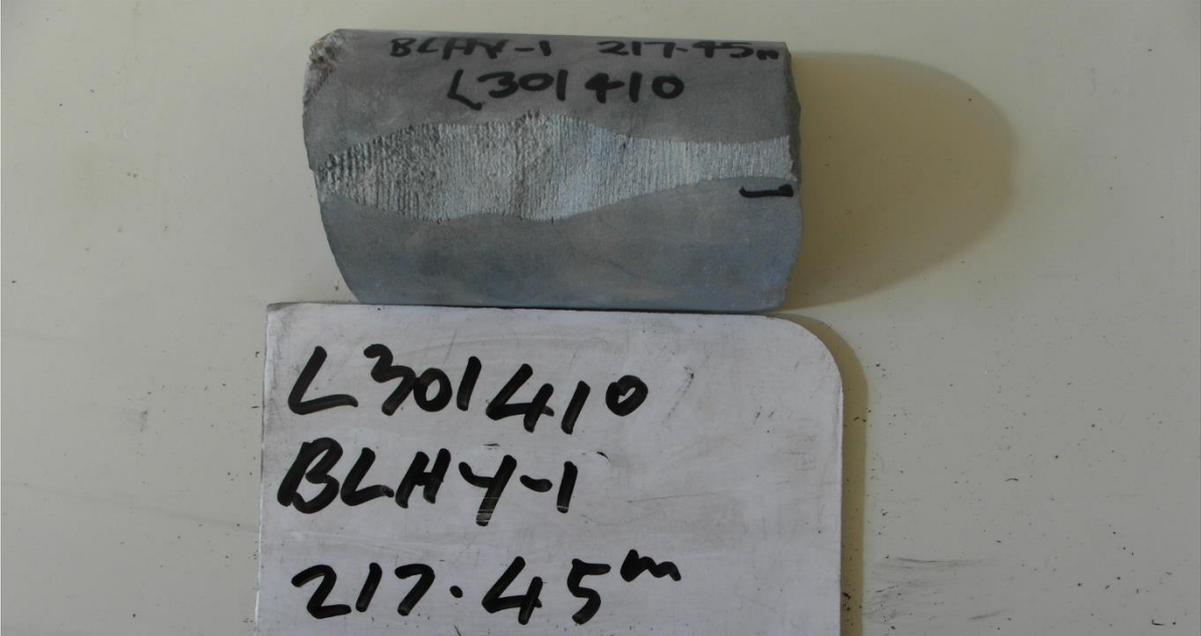


Photo 18: Sample L301410 - rhyolite. FOV: about 400 mm

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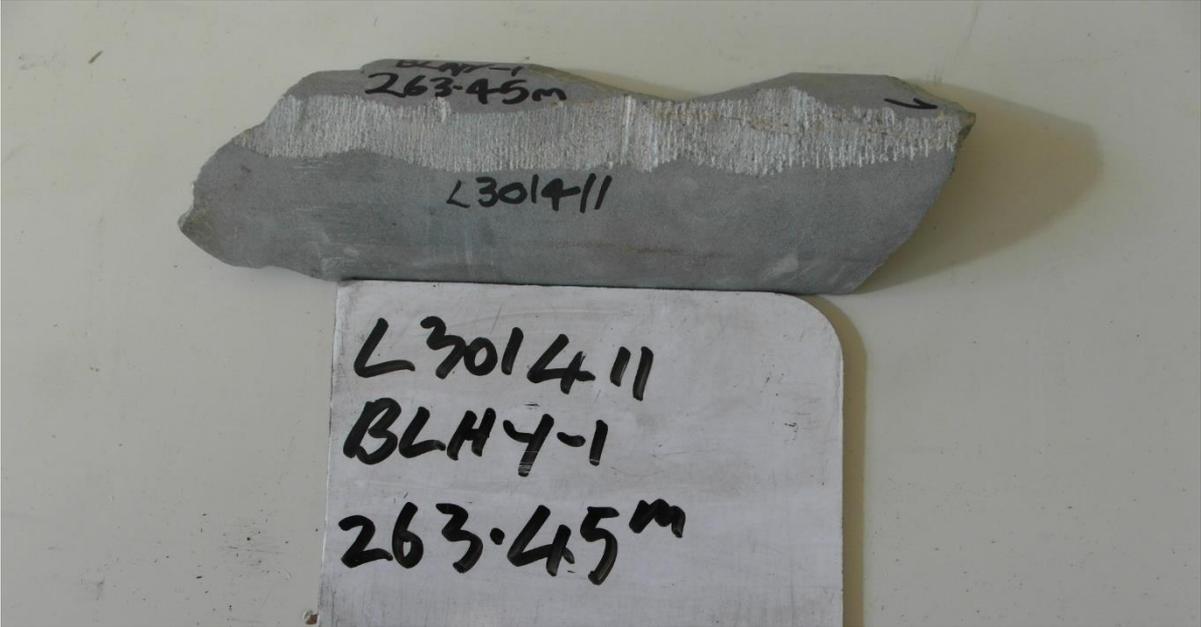


Photo 19: Sample L301411 - pelite. FOV: about 400 mm

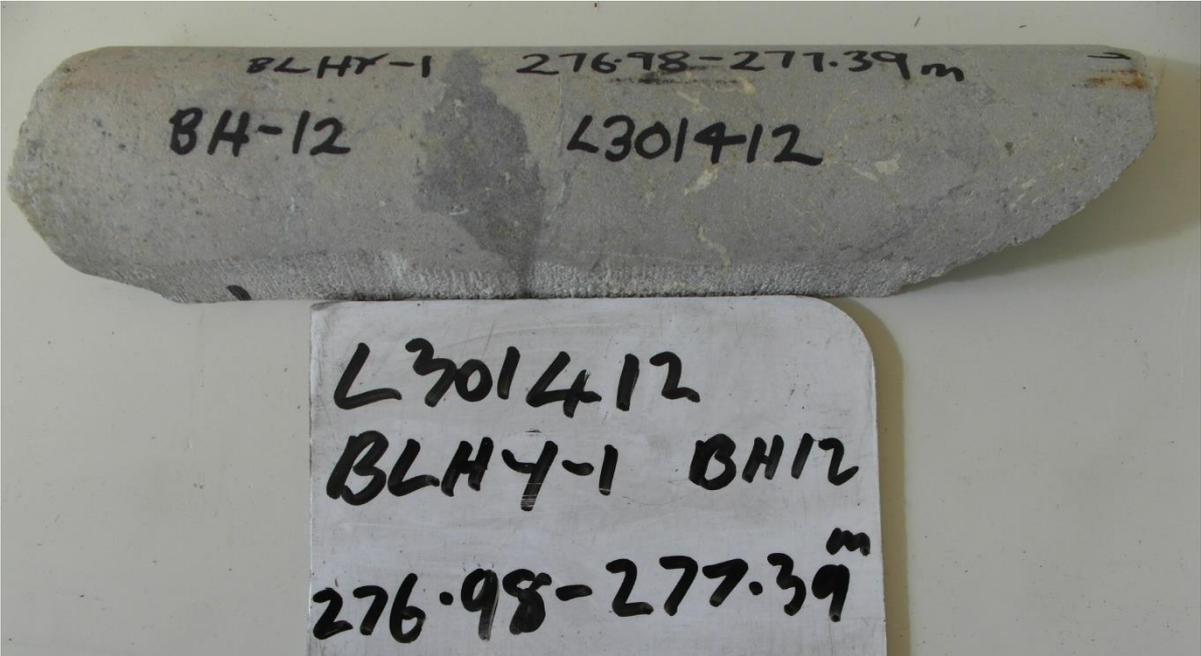


Photo 20: Sample L301412 - dacite. FOV: about 400 mm

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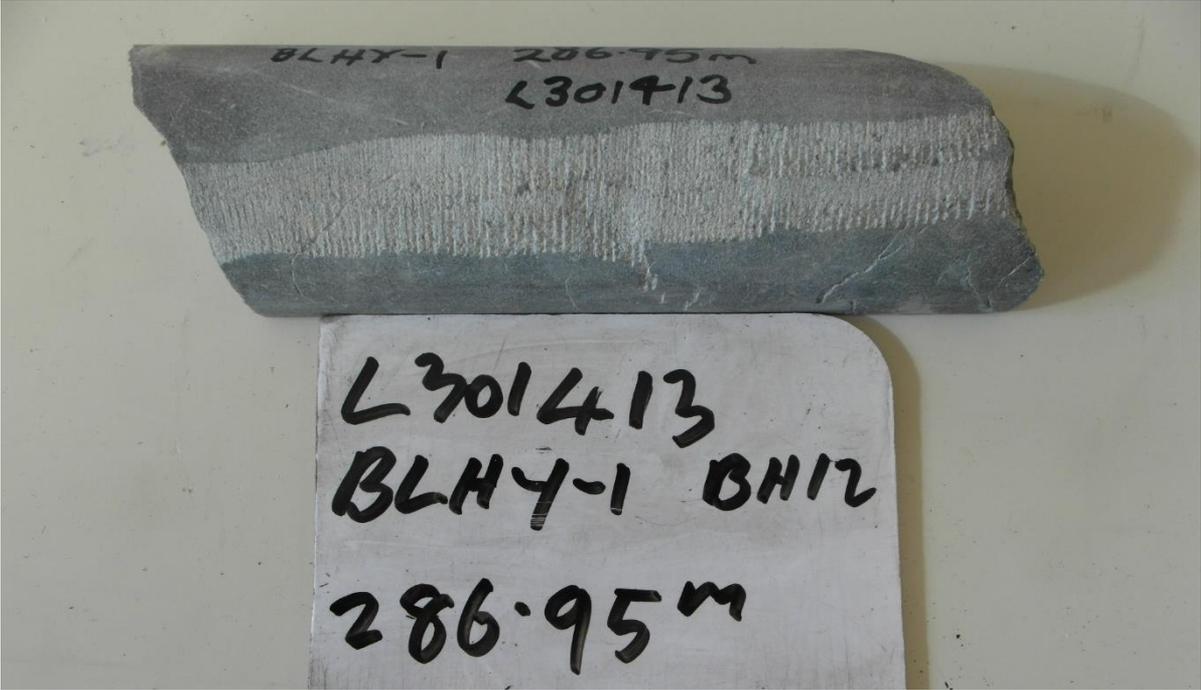


Photo 21: Sample L301413 – pelite. FOV: about 400 mm

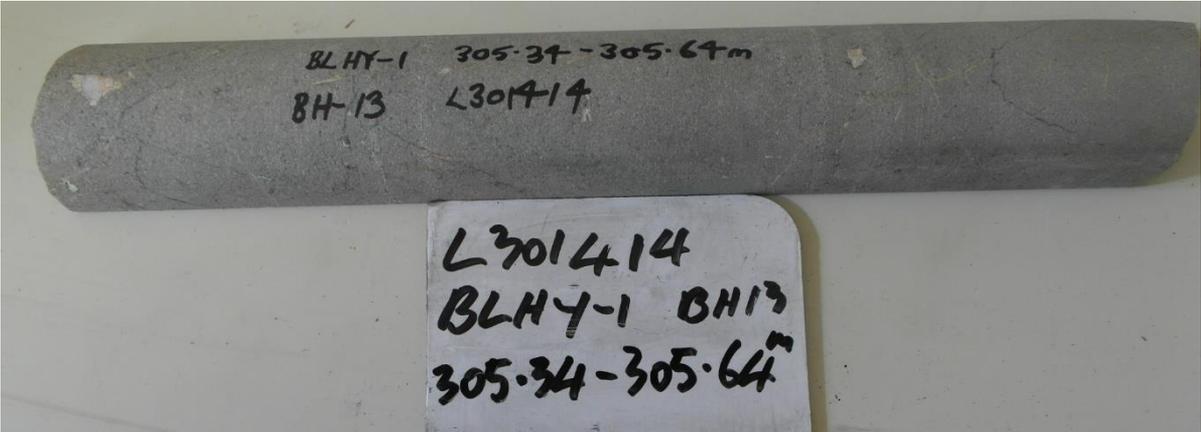


Photo 22: Sample L301414 - dacite. FOV: about 600 mm

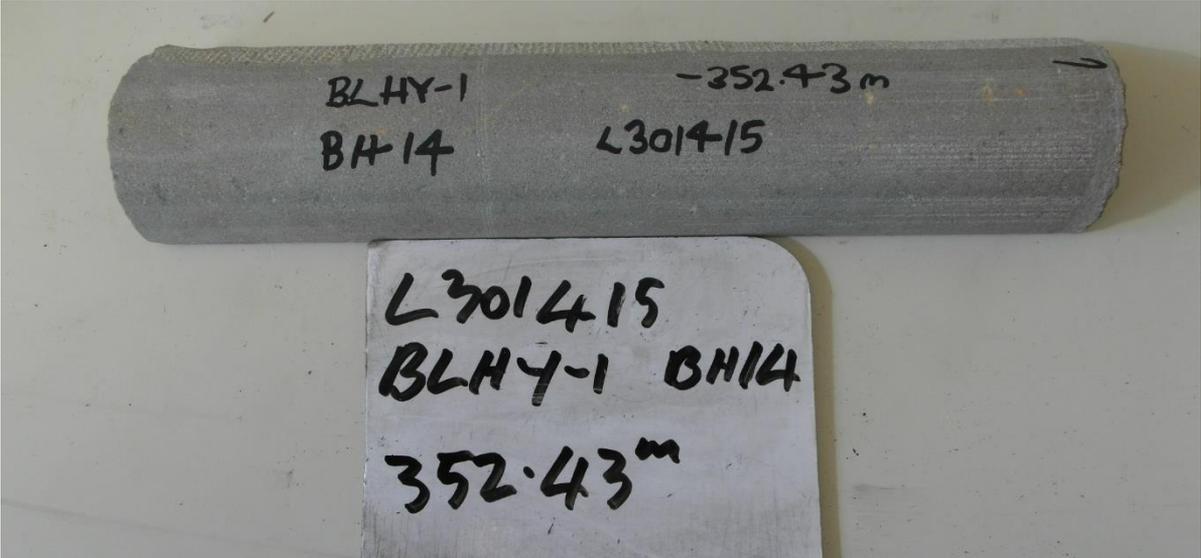


Photo 23: Sample L301415 - dacite. FOV: about 500 mm

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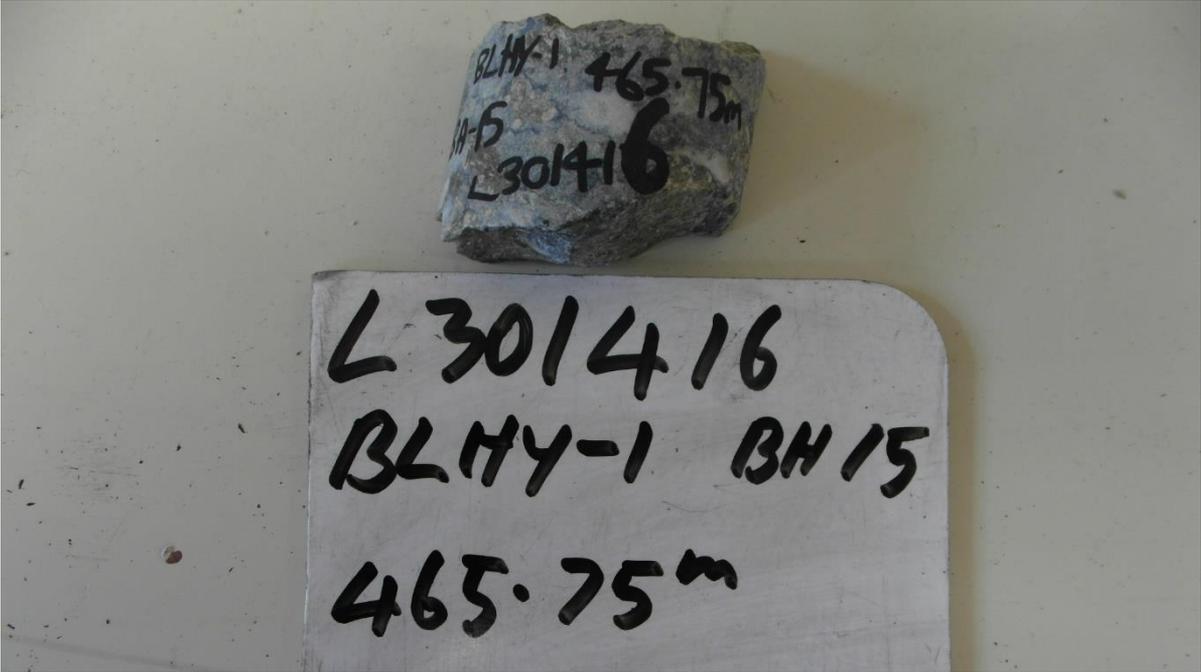


Photo 24: Sample L301416 - sandstone, volcaniclastic. FOV: about 400 mm

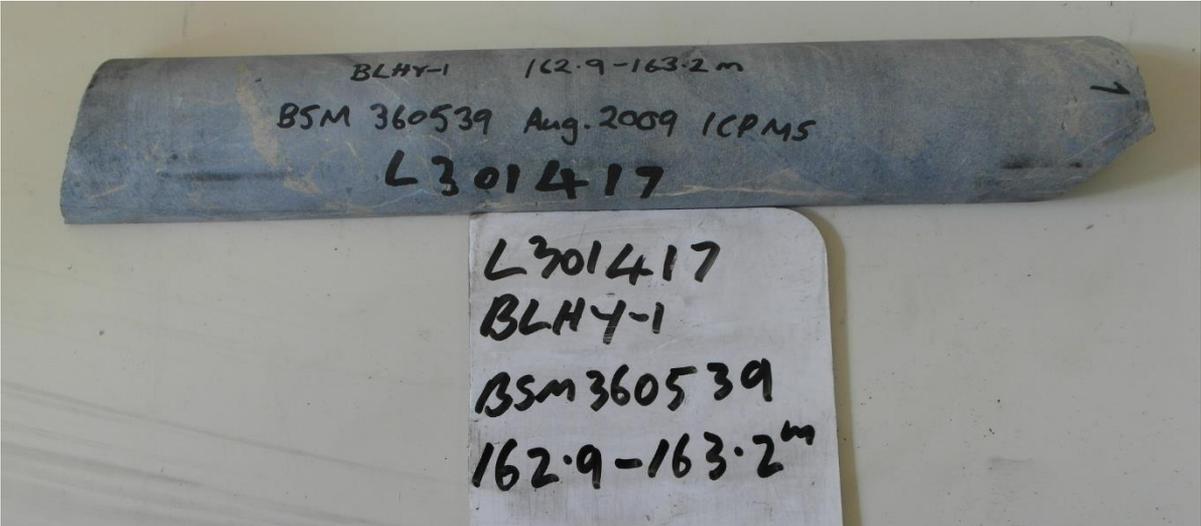


Photo 25: Sample L301417- rhyolite. FOV: about 500 mm

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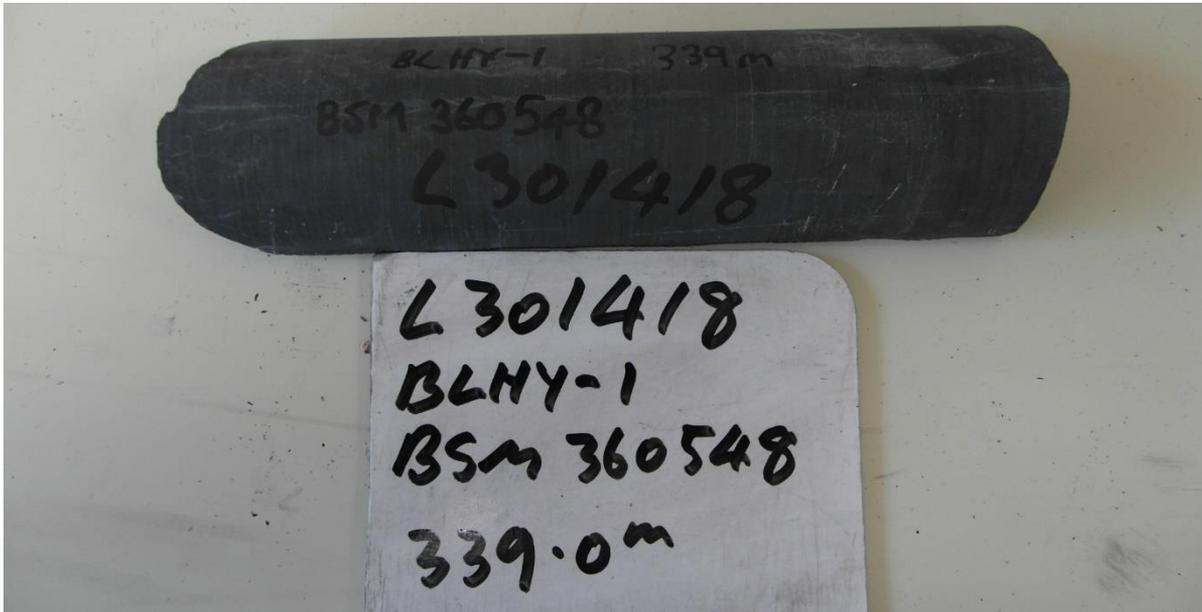


Photo 26: Sample L301418 - shale. FOV: about 400 mm

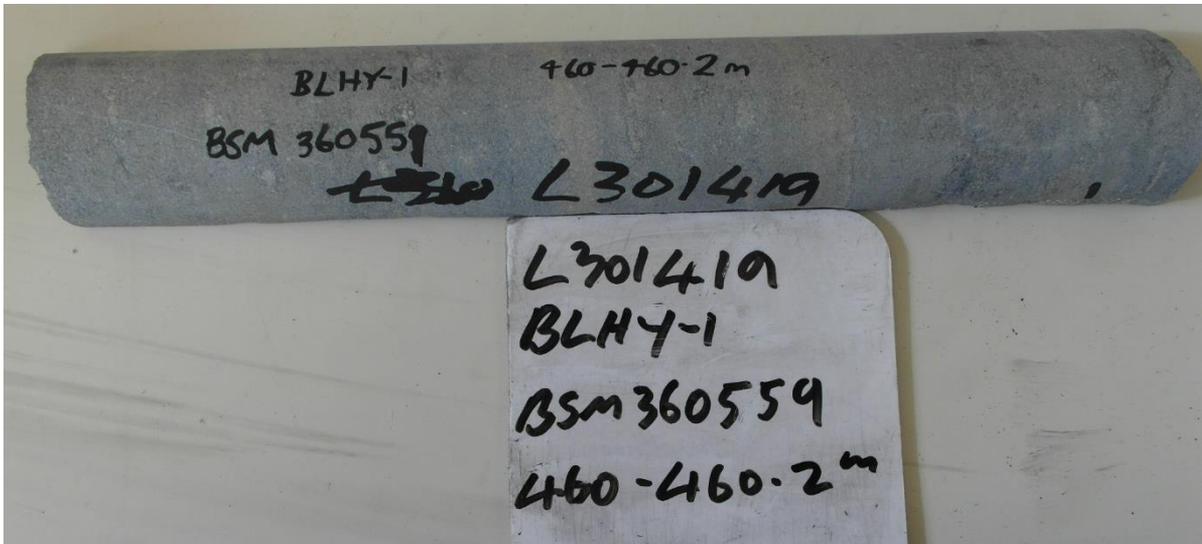


Photo 27: Sample L301419 - rhyolite. FOV: about 500 m

LABORATORY TESTS

The samples were soaked for a minimum of 48 hours and weighed in water, and then wet in air. Samples were dried in a 90°C oven for a minimum of 12 hours then weighed dry. The wet porosity and density (specific gravity) was determined by standard gravimetric methods in the Mineral Resources Tasmania (MRT) Core Library, with an electronic balance accurate to 0.1g. The relative accuracy of the results is ~1% for specific gravity and ~5% for wet porosity. The summary of results is shown in Table 2 and full details listed in Appendix 1.

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Table 2: Summary of Specific Gravity and Wet porosity

Sample ID	Location	Rock type	Dry bulk SG	Wet bulk SG	Wet porosity (%)
A500537	15975 TMC1	rhyolite	2.69	2.70	1.24
A500538	15975 TMC1	rhyolite	2.68	2.70	1.81
A500539	15975 TMC1	rhyolite	2.64	2.66	1.51
A500541	15976 TMC2	felsite	2.72	2.72	0.32
A500545	15978 TMC4	rhyolite	2.70	2.70	0.51
L301398	15976 TMC2	felsite	2.70	2.70	0.38
L301399	15977 TMC3	felsite	2.70	2.71	0.77
L301400	15978 TMC4	rhyolite	2.73	2.74	0.90
L301401	15978 TMC4	felsite	2.76	2.76	0.58
L301402	19905 BTRD1	basaltic-rock	2.81	2.82	1.30
L301403	19905 BTRD1	greywacke	2.60	2.61	0.90
L301404	14665 BLHY-1	dacite	2.73	2.74	0.87
L301405	14665 BLHY-1	dacite	2.73	2.74	1.13
L301406	14665 BLHY-1	dacite	2.67	2.69	2.65
L301407	14665 BLHY-1	dacite	2.70	2.71	1.61
L301408	14665 BLHY-1	dacite	2.72	2.72	0.77
L301409	14665 BLHY-1	dacite	2.70	2.71	1.12
L301410	14665 BLHY-1	rhyolite	2.67	2.68	0.90
L301411	14665 BLHY-1	pelite	2.68	2.69	0.75
L301412	14665 BLHY-1	dacite	2.67	2.69	1.39
L301413	14665 BLHY-1	pelite	2.72	2.73	0.85
L301414	14665 BLHY-1	dacite	2.70	2.71	0.84
L301415	14665 BLHY-1	dacite	2.72	2.73	0.84
L301416	14665 BLHY-1	sandstone, volcanoclastic	2.71	2.73	1.14
L301417	14665 BLHY-1	rhyolite	2.71	2.72	1.18
L301418	14665 BLHY-1	shale	2.73	2.75	1.24
L301419	14665 BLHY-1	rhyolite	2.74	2.75	0.61

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LABORATORY ASSISTANTS

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Appendix 1: Laboratory Report – Physical Property analyses

Client: M Duffett
Analysis: Physical Properties
Method: Gravimetric S.G. & Porosity
Location: Ten Mile Creek, Beecroft Road and Black Harry Road DDH
Job No.: LJN2020-035
Date: 9/04/2020

Results

Sample ID	Dry Weight in Air (g)	Sub-sat Wt in water (g)	Sat. Wt. in Air (g)	Dry bulk SG	Wet bulk SG	Wet porosity (%)
A500537	410.8	260.0	412.7	2.69	2.70	1.24
A500538	355.2	225.2	357.6	2.68	2.70	1.81
A500539	280.5	176.0	282.1	2.64	2.66	1.51
A500541	168.5	106.7	168.7	2.72	2.72	0.32
A500545	369.6	233.3	370.3	2.70	2.70	0.51
L301398	143.7	90.7	143.9	2.70	2.70	0.38
L301399	104.8	66.3	105.1	2.70	2.71	0.77
L301400	121.8	77.6	122.2	2.73	2.74	0.90
L301401	189.0	120.9	189.4	2.76	2.76	0.58
L301402	1168.5	757.7	1173.9	2.81	2.82	1.30
L301403	318.2	197.0	319.3	2.60	2.61	0.90
L301404	748.9	476.8	751.3	2.73	2.74	0.87
L301405	795.5	507.6	798.8	2.73	2.74	1.13
L301406	462.6	293.8	467.2	2.67	2.69	2.65
L301407	402.3	255.5	404.7	2.70	2.71	1.61
L301408	737.5	468.0	739.6	2.72	2.72	0.77
L301409	772.8	490.1	776.0	2.70	2.71	1.12
L301410	178.6	112.4	179.2	2.67	2.68	0.90
L301411	215.8	135.9	216.4	2.68	2.69	0.75
L301412	346.4	218.7	348.2	2.67	2.69	1.39
L301413	318.9	202.8	319.9	2.72	2.73	0.85
L301414	675.7	428.0	677.8	2.70	2.71	0.84
L301415	455.1	289.1	456.5	2.72	2.73	0.84
L301416	71.4	45.4	71.7	2.71	2.73	1.14
L301417	713.8	453.2	716.9	2.71	2.72	1.18
L301418	329.6	210.5	331.1	2.73	2.75	1.24
L301419	669.5	426.6	671.0	2.74	2.75	0.61

Analyst: R. King
Date: 9/04/2020