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Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

BC Geological Survey
Assessment Report
38506

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geological, Geochemical & Petrographic

TOTAL COST: $20036.65

AUTHOR(S): Helgi Sigurgeirson **SIGNATURE(S):**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): **YEAR OF WORK:**

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): EV#5748605 / July 19, 2019 & EV#5756196 / September 20, 2019

PROPERTY NAME: Mal-Wen

CLAIM NAME(S) (on which the work was done): 1071189, 1071190, 1071192, 1071195, 1071197 & 1071199

COMMODITIES SOUGHT: Cu

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092HNE002, 058 & 059

MINING DIVISION: Nicola **NTS/BCGS:** 092H/087 & 088

LATITUDE: 49 ° 56 ' " **LONGITUDE:** 120 ° 27 ' " **(at centre of work)**

OWNER(S):
1) Victory Resources Corporation 2)

MAILING ADDRESS:
734-1055 DUNSMUIR STREET
Vancouver, BC V7X 1B1

OPERATOR(S) [who paid for the work]:
1) Victory Resources Corporation 2)

MAILING ADDRESS:
734-1055 DUNSMUIR STREET
Vancouver, BC V7X 1B1

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Basalt, Granodiorite, Diorite, Triassic Nicola Group, Jurassic Pennask Batholith, propylitic, quartz vein, chalcopyrite, breccia

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 403,449,1049,1089,1586,1718,4082,4230,8453 9078,9194,9590,24800,26469,27039,28905,30405,30728,31194,32160,35449,35487,36968,37096,37383,37703

Next Page

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	1:2000 (42 Hectares)		9236.65
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	14 soil samples		3000
Silt			6000
Rock	14 geochemical & 14 lithogeochemical analyses		
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic	5 petrographic samples		1800
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	$20036.65

Geological, Geochemical & Petrographic Assessment Report on the Mal-Wen Property

Aspen Grove, British Columbia
Nicola Mining Division

Map Sheet 092H/098

UTM 683000 E, 5535 500 N (Zone 10)

Claims 1071189, 1071190, 1071192
1071195, 1071197 & 1071199

Prepared for:
Victory Resources Corporation

Prepared by:
Helgi Sigurgeirson, P.Geo.
October 7, 2019

Table of Contents

List of Figures

List of Tables

Appendix I

1. Certificate of Analysis VA19220855 & QC Document (7 soil samples)
2. Certificate of Analysis VA19204072 & QC Document (19 rock samples)
3. Certificate of Analysis VA19208565 & QC Document (7 soil samples)
4. Certificate of Analysis VA19220856 & QC Document (1 rock sample)

Appendix II

1. OREAS Standard 24c
2. Reanalysis comparison plots

Appendix III

1. Petrographic Report

Introduction

Location, Access and Physiography

The property is about 30 km southeast of Merritt in south-central British Columbia (Figure 1). It is accessed by taking highway 97C southeast to the Loon Lake Road Exit, which connects to the logging road network which crisscrosses the property. The property is centred at approximately 685000E, 5535000N (Zone 10).

The topography is moderate and is characterized by rolling hills. It ranges in elevation from 1520 m in the southeast part of the property to 1100 m in the Quilchena Creek valley in the northwest corner of the property. Most of the property is covered by second growth forest, and cut blocks at various stages of regrowth are common. Summers are generally hot and dry and snow can be expected from November to March.

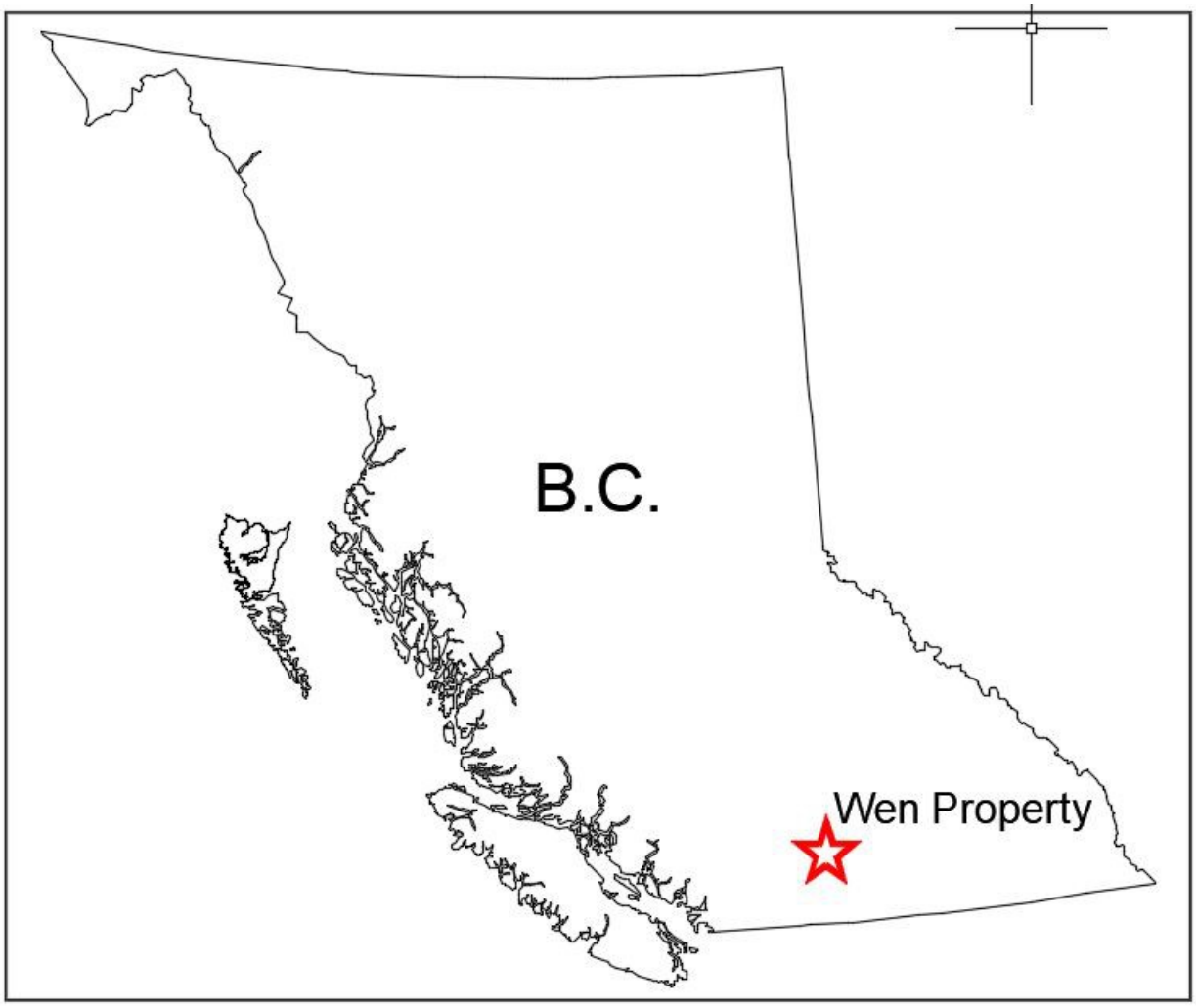

Figure 1 : Location Map

Property Definition

The Mal-Wen Property consists of 6 mineral claims with a total area of 1143.58 hectares (Figure 2). The claim details are given in Table 1. The claims are 100% owned by Victory Resources Corporation. Two statements of work were filed for the work described in this report. The first (EV#5748605) was applied to the original claim block on July 19, 2019. The second (EV#5756196) was applied on September 20, 2019 to part of that block, after the claims had been subdivided.

Claim #	Good to Date	Area (ha.)
1071189	2020/JUL/24	145.56
1071190	2021/JAN/15	519.85
1071192	2021/JAN/15	311.79
1071195	2021/JAN/15	62.37
1071197	2021/JAN/15	62.41

Table 1: Claim details.

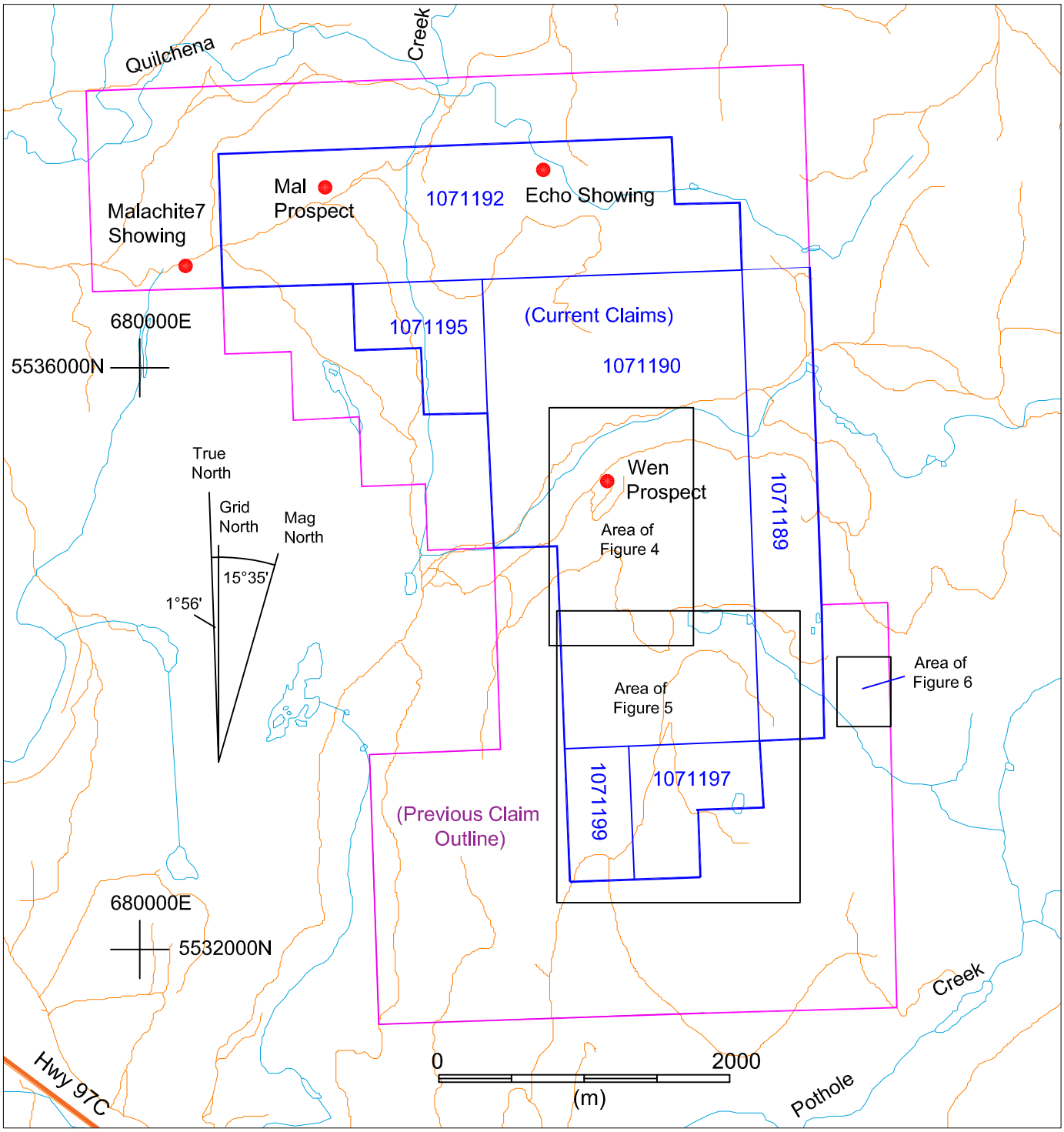

Figure 2: Claim and Index Map

Scale = 1:40 000

Previous Work

Old adits at the Wen Prospect and the Echo zone attest to exploration on the property possibly dating back to the early 1900's or earlier. Recorded work on the property begins in 1961 and is summarized in Table 2. Three Minfiles are on the property. Their locations are shown on Figure 2

Wen-Toe Property Minfiles:

HN-Wen (092HNE058) - A Cu+/-Au quartz vein and stockwork mineralization.
Echo (092HNE059) – A number of minor chalcopyrite showings.
Mal (092HNE002) – A Cu skarn prospect.

Work Program Summary

Thirteen days of fieldwork were done from May 30 to August 24. 16 rock samples were submitted, along with 4 QA/QC samples. Lithogeochemical analysis was done on 14 samples. Geochemical analysis was done 14 samples. 14 soil samples were submitted for analysis. 5 samples were submitted for petrography. About 142 hectares were mapped at a 1:2000 scale.

Year	AR#	Author(s)	Company	Zone	Geological	Geochemical	Geophysical	Drilling	Other
1961	403	Rutherford	Skeena Silver Mines Ltd.	Wen			e.m. (40 km)		
1962	MMPRAR1961	Smith	Noranda Exploration	Wen					2195 m of stripping
1963	MMPRAR1962	Smith	Skeena Silver Mines Ltd.	Mal				19 DDHs (1216 m)	Limited trenching
1962	449	Sirola	Kerr-Addison Gold Mines Ltd.	Mal	Prospect area (~345 ha.)	~560 soil samples (rubeanic)	SP (39 km), mag (34 km)		
1967	1049	Sharp	Consolidated Skeena Mines Ltd.	Mal, Echo		c.300? Preliminary soil samples			
1967	1089	Sharp	Consolidated Skeena Mines Ltd.	Wen, Echo, Mal			Airborne mag, e.m. & radioactivity (~530 km)		
1968	1586	Sharp	Consolidated Skeena Mines Ltd.	Mal	Reconnaissance	~1000 soil samples	Mag (~25 km)		
1968	1718	Boniwell	Consolidated Skeena Mines Ltd.	Mal			IP (37.4 km)		
1972	4082	Lewis	Balfour Mines Ltd.	SW			Airborne mag (500 ha.)		
1972	4230	Kierans	Nitracell Canada Ltd.	Wen	Prospect area	1367 soil samples 5 rock samples	IP, mag (26 km)	5 DDHs (884.7 m)	
1972	(4230)	Walcott	Nitracell Canada Ltd.	Wen			IP (amount unknown)		
1980	8453	Tully	Abaton Resources Ltd.	Mal		1 rock sample	VLF, mag (29.6 km)		Trenching (123 m)
1981	9194	Mark	Core Energy Corporation	Echo			e.m. (4.8 km)		
1981	9590	Tully	Abaton Resources Ltd.	Mal				7 DDHs (616.18 m)	
1997	24800	Verley	George Resource Company Ltd.	Wen				16 DDHs (1636.8 m)	
2001	26469	Dahrouge	Commerce Resources Corporation	Au, Mal, Wen	Reconnaissance	19 rock samples (& 2 silt?)			
2000	(27039)	Walcott	Commerce Resources Corporation	Mal, Wen			IP (amount unknown)		
2003	27039	Verzosa	Lateegra Resources Corporation	Mal, Wen		430 soil samples	VLF (5.8 km), mag (26.1 km)	6 DDHs (702.5 m)	
2005		Verzosa	Victory Resources	Au, Mal, Wen					43-101 Report
2007	28905	Sookochoff	Victory Resources	Wen		47 MMI soil samples			
2008	30405	Sookochoff	Victory Resources	Wen				1 DDH (88.39 m)	
2009	30728	Sookochoff	Victory Resources	Wen				4 DDHs (183.43 m)	
2009	31194	*Sookochoff*	*Victory Resources*	*Mal (south)*					Lineament study (509 ha.)
2011	32160	Sookochoff	Victory Resources	Wen				6 DDHs (702.5 m)	
2012	33166	Sookochoff	Victory Resources	SW					Lineament study (690 ha.)
2015	35449	Sookochoff	Victory Resources	Mal (south)			IP (3.3 km)		
2016	*35487*	*Sookochoff*	*Victory Resources*	*Wen*			*Mag (1.8 km)*		Lineament study (960 ha.)
2018	*36968*	*Sigurgeirson*	*Victory Resources*	*Wen*	Wen Prospect (3.5 ha.)				Prospecting (20 ha.), Petrography (1 sample)
2018	*37096*	*Sigurgeirson*	*Victory Resources*	*Wen, Mal , Echo*	Mal Prospect (8 ha.), Wen area (4 ha.)	13 overburden samples & 23 rock samples			Prospecting (40 ha.), Petrography (3 samples)
2018	*37383*	*Sigurgeirson*	*Victory Resources*	*Wen*					
2018		*Sigurgeirson*	*Victory Resources*	*Mal, Wen*					43-101 Report
2018	*37703*	*Sigurgeirson*	*Victory Resources*	*Wen*	Wen Prospect (24 ha.)	2 overburden and 7 rock samples			Prospecting (6 km traverse) Petrography (2 samples)

Table 2: Property History

Regional Geology

The property is located within the Quesnel Terrane, which is composed of Paleozoic and Mesozoic arcs and is an important metallogenic belt hosting numerous porphyry Cu-Au-Mo deposits. The property is within the eastern Belt of the late Triassic Nicola Group, which is composed of basaltic volcanic rocks and fine grained sediments. The Nicola Group rocks are intruded by granodiorites and quartz diorites of the early Jurassic Pennask Batholith (Preto, 1979; Monger, 1989). Major north-south trending faults, such as the Kentucky-Alleyne Fault immediately west of the property, are the dominant structural feature in the area. The metamorphic grade of the Nicola group rocks is commonly prehnite-pumpellyite.

The Dillard Creek Property, about 20 km to the south, hosts an alkalic porphyry system in the same (eastern) belt of the Nicola Group (Mihalynuk & Logan, 2013) as the property. The alkalic porphyry deposits of the Iron Mask Batholith also occur within Nicola Group volcanics, about 75 km to the north (Logan & Mihalynuk, 2006). In addition, Logan et al (2011) consider the Pennask Batholith to be part of the Takomkane/Wildhorse Suite, one of the three main Mesozoic magmatic suites that displays Cu Porphyry mineralization. The Brenda Deposit, about 20 km to the east is an example of a porphyry deposit associated with this suite.

Property Geology

Recent mapping by the BC Geological Survey (Mihalynuk et al, 2015) and Victory Resources (Sigurgeirson, 2018a, b & e, 2018e) shows the property to be underlain by 5 units (Figure 3), 3 of which are part of the eastern belt of the Nicola Group. The central part of the property is dominated by augite phyric mafic volcanic rocks and related intrusive rocks. Both the Mal and Wen prospects are within this unit. The southern part of the property is partly underlain by Paradise conglomerate. It is composed of medium grained pyroxene-phyric mafic volcanic rocks interfingering with conglomerate derived from augite-feldspar-rich mafic volcanic porphyries, and lesser monzonite sourced conglomerate. The western part of the property is mainly underlain by mudstone, siltstone and sandstone. The rocks are generally unfoliated. Bedding is commonly west dipping. The Pennask Batholith occurs along the northern edge of the property. This appears to be mainly a white, hornblende granodiorite in those exposures east of the property seen by the author.

Mineralization

Four main types of mineralization have been identified on the property. The Wen Prospect vein is a chalcopyrite bearing quartz vein with erratic, locally high gold values up to 16.6 g/t (Verley, 1997). It is usually about 1 m thick, and grades between 0.5% and 1% Cu and under 1 g/t Au. A crude stockwork of quartz-carbonate veins occurs to the east of the Wen Vein. These veins locally feature specular hematite and/or chalcopyrite. They are hosted by fine grained, porphyritic gabbro. South of the stockwork zone is a epidote-carbonate matrix hydrothermal breccia featuring spotty Cu mineralization in the form of chalcopyrite. The clasts are usually basalt, though gabbro clasts have also been noted. The breccia has been mapped at a number of locations to the south and north of the Wen Prospect area. The stockwork zone and the higher grade part of the breccia body together form a poorly defined zone of alteration and erratic mineralization at least 70 m wide and over 400 m in length (Kierans, 1972 & Verley, 1996). The final type of mineralization, occuring at the Mal Prospect, is chalcopyrite bearing epidote-garnet-magnetite skarn.

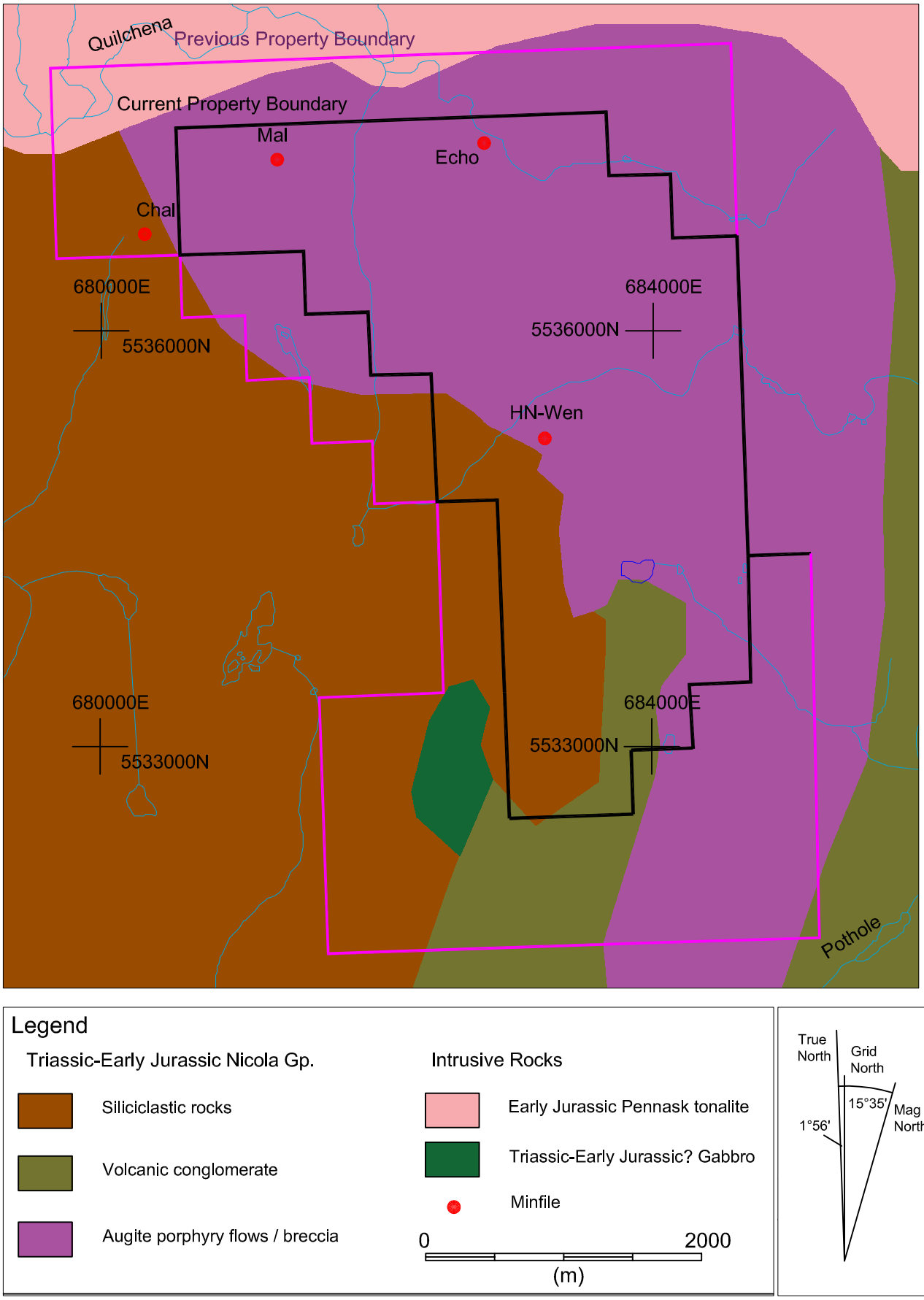

Figure 3: Property Geology Map

Scale = 1:40 000

Geological Mapping

The purpose of the mapping was to locate more of the type of mineralization found in the Wen Prospect area, and to determine whether the mineralization was associated with the hydrothermal breccia, alkalic intrusives, or the contact between the volcanic and sedimentary units. The area of the contact between the volcanics and sediments was mapped at a 1:2000 scale from the area of the Wen Prospect to about 3 km to the south (Figures 4 & 5). In addition, a small area along the east edge of the property (Figure 6) was mapped at 1:2000 while following up on a soil anomaly documented by Sharp (1968).

The best mineralization mapped during the program was encountered about 300 m southeast of the Wen Adit (Figure 4). A poorly exposed outcrop of quartz-calcite altered basalt featured about 0.5% disseminated pyrite and chalcopyrite (sample 21631). The outcrop is near the volcanic sedimentary contact and is similar in style of alteration, mineralization and location to an altered and mineralized basalt float sample (sample 21637(8) and 21630) taken about 1.3 km to the south. This area is labelled the “Road Showing” on Figure 5. Sample 21631 and 21637(8) may may be the same type of alteration as at the stockwork zone east of the Wen adit
.
The epidote-carbonate matrix hydrothermal breccia body about 200 m southeast of the Wen Adit was extended to the northeast and southeast, though no significant mineralization was encountered away from the stripped area. The northern and eastern boundaries of the breccia body are still to be mapped. More breccia of this type was found over a kilometer to the south of the Wen Prospect, to the south and west of the Lake. Poorly exposed, often weakly mineralized, subcrop of breccia occur on either side of an inferred northeast trending fault. Historic trenching (labelled the “Southern Trenches” on Figure 5) in this area had limited success reaching bedrock, but exposed breccia at one location.
Epidote-carbonate matrix breccia was also found within the volcanic conglomerate unit about 600 m northwest of the Wen Adit and about 400 m south of the Road Showing. These breccias were generally unmineralized or at best weakly mineralized. Epidote and/or carbonate alteration, as veinlets, replacement and breccia matrix is the most common kind of alteration (or infill) on the property. However, this type of alteration on it's own is not very indicative of an alkalic porphyry system.

Considerable attention has been paid during recent programs to determining whether any of the intrusives in the Wen Prospect area could be shown to be spatially associated with mineralization, and whether they could be alkalic porphyries similar to those found at Dillard Creek (Mihalynuk & Logan, 2013). Mapping to date has identified two types of intrusive. Fine grained pyroxene (+/- plagioclase &/or hornblende) gabbros occur throughout the volcanic unit, and appear to be subvolcanic equivilents to the extrusive rocks. There is a large body of gabbro in the area of the Wen Prospect, but it's eastern boundaries are not defined. A second type of intrusive is found at scattered locations within the volcanics and the sediments. It is a fine grained, hornblende phyric intrusive, which was given the field label quartz monzodiorite. It is often pyritic, but otherwise generally unaltered, with the possible exception of sample 21639. Sample 21639 occurs in the area of the road showing, and may be a Quartz/calcite/k-spar/chlorite altered quartz monzodiorite intrusive within the sediments (near the contact).

The contact between basaltic volcanics and related intrusives to the east and sediments to the west has been mapped over several kilometers. The contact has been placed at the change from flows and course clastics (ie. volcanic conglomerate) to mudstone and sandstone. Minor tuffs occur within the sedimentary unit, often at or near the contact. Most bedding measurements dip moderately or steeply to the west, which agrees with historic drill results (Kierans, 1973), which indicate an westward dip to the contact. All significant mineralization discovered to date occurs within the volcanics and related

intrusives and within a few hundred meters of the contact.
The small area mapped along the east edge of the property (Figure 6) encountered epidote altered gabbros, but no significant mineralization.

Conclusions of the 2019 mapping

The quartz monzonites cross cut the sediments as well as the volcanics, unlike the mineralization, which appears confined to the volcanics. They are unmineralized and not particularly alkaline. These factors argue against the quartz monzonites being a candidate for an alkalic porphyry. Sampling during previous programs (Sigurgeirson, 2018e) indicates that the gabbros are somewhat alkaline compared to the volcanics. The quartz-carbonate stockwork mineralization at the Wen Prospect occurs within rocks mapped as gabbro suggests a relationship between the gabbro and the Wen Prospect mineralization. However, unmineralized gabbros are common on the property, so a spatial association may be coincidence,
The quartz-carbonate hydrothermal breccias occur at a number of locations on the property, usually within a few hundred meters of the volcanic sediment contact. They are often weakly mineralized, but outside of the Wen Prospect area, no significant Cu grades have been encountered. The observation that the largest breccia body mapped to date contains the southern portion of the relatively large, low grade Wen mineralized zone suggests that the breccia is related to the mineralization and may be a guide to prospective areas.
The occurrence of mineralized, quartz-carbonate altered rocks at two locations south of the Wen Prospect suggest that the stockwork style mineralization seen to the east of the Wen Prospect may occur elsewhere on the property, especially in the vicinity of the contact.

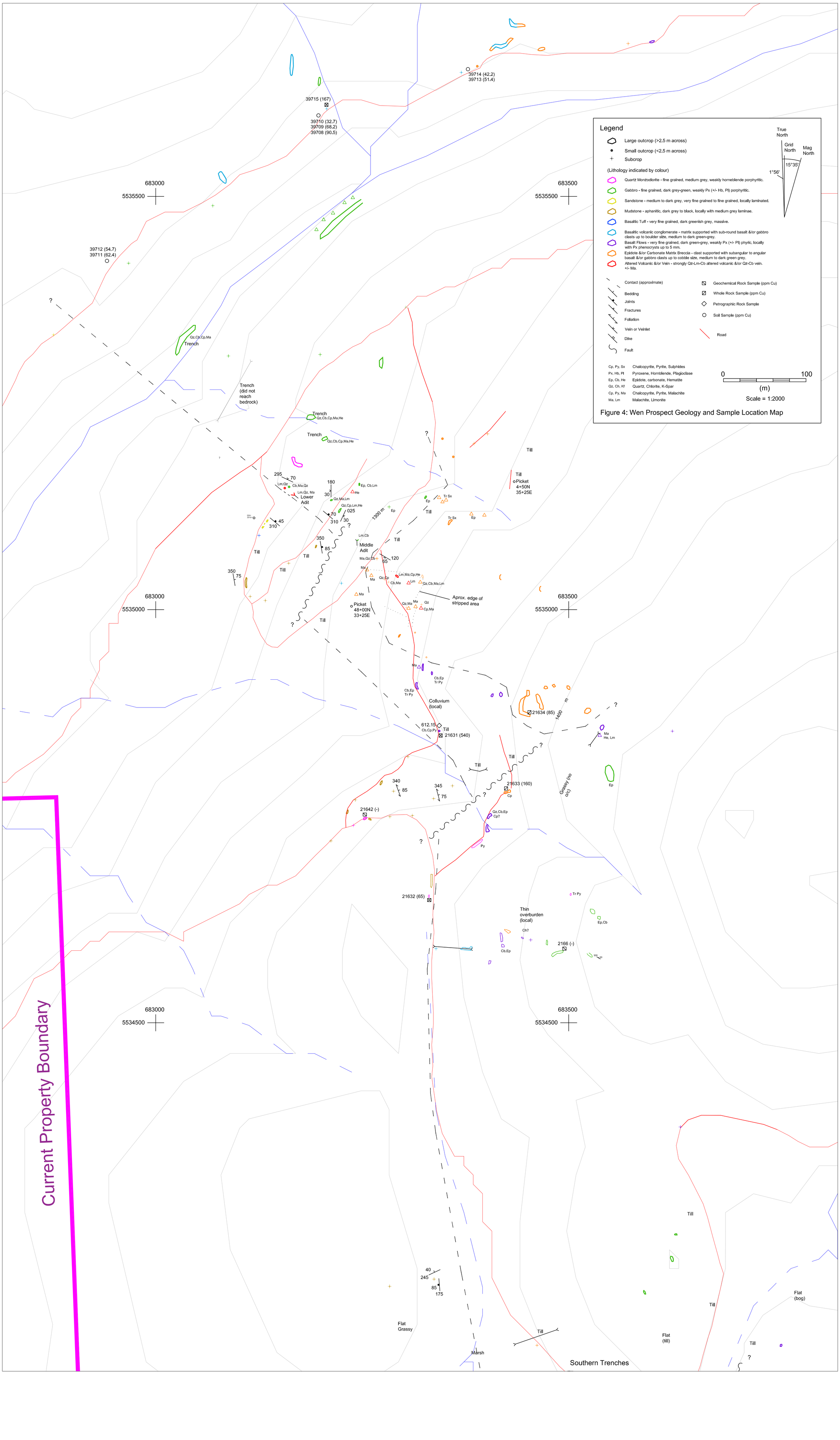

Figure 4: Wen Prospect Geology and Sample Location Map

Current Property Boundary

683000
5534000

684000
5534000

683000
5533000

684000
5533000

Southern Trenches

Road Showing

1400 m

1500 m

Flat Grassy

Marsh

Flat (bog)

Flat (till)

Flat (no o/c)

Till

Till (flat grassy)

Slope

No o/c

Seep

Magnetic and Px porphyritic basalts

Magnetic and Px porphyritic basalts

marble clasts

21635 (111)
Tr Sx

21636 (115)
Sx (Qz?)

21644 (-)

21637 (12) & 21630 (402)

616,16
Se,Cb,Qz,Cp

616,17
Qz,Lm
21639 (53)

39707 (77,8)
39706 (70,6)

714,14
Se,Cb,He
21640 (35)
21641 (5)

21647 (-)
Ep,Cb,Kf
714,10

39705 (57.4)
39703 (54.6) & 39704 (57,2)
717,1

21645 (-)

Co-Ep vnlts

Tr Cp
Ch,Um

Ch=Ep & Qz=Cb

Tr Py

Ep, Ch, Cp

Ch=Ep

Tr Cp

Cb,Ep
Tr Sx

Ep

Ep,Qz

Ep,Cb

Cb

Ch, Cb

Tr Sx
Ep

Tr Sx

Ep

Ep,Cb

Cb,Ep
Tr Sx

Cb,Ep
Tr Sx

Ep

Ep

Ep

350
85

345

350
75
70
150

175
15
80
285

000
85
080
60

60
160
340
60

30
180

310
85

340
75

45
195

345
50
45
235

070
85

325
55

325
85
70
215

275
85
30
165

Legend

Large outcrop (>2.5 m across)
Small outcrop (<2.5 m across)
Subcrop

(Lithology indicated by colour)

Quartz Monzodiorite - fine grained, medium grey, weakly hornebelende porphyritic.
Gabbro - fine grained, dark grey-green, weakly Px (+/- Hb, Pl) porphyritic.
Sandstone - medium to dark grey, very fine grained to fine grained, locally laminated.
Mudstone - aphanitic, dark grey to black, locally with medium grey laminae.
Basaltic Tuff - very fine grained, dark greenish grey, massive.
Basaltic volcanic conglomerate - matrix supported with sub-round basalt &/or gabbro clasts up to boulder size, medium to dark green-grey.
Basalt Flows - very fine grained, dark green-grey, weakly Px (+/- Pl) phyric, locally with Px phenocrysts up to 5 mm.
Epidote &/or Carbonate Matrix Breccia - clast supported with subangular to angular basalt &/or gabbro clasts up to cobble size, medium to dark green grey.
Altered Volcanic &/or Vein - strongly Qz-Lm-Cb altered volcanic &/or Qz-Cb vein, +/- Ma.

Contact (approximate)
Bedding
Joints
Fractures
Foliation
Vein or Veinlet
Dike
Fault

Geochemical Rock Sample (ppm Cu)
Whole Rock Sample (ppm Cu)
Petrographic Rock Sample
Soil Sample (ppm Cu)
Road

Cp, Py, Sx	Chalcopyrite, Pyrite, Sulphides
Px, Hb, Pl	Pyroxene, Hornblende, Plagioclase
Ep, Cb, He	Epidote, carbonate, Hematite
Qz, Ch, Kf	Quartz, Chlorite, K-Spar
Cp, Py, Ma	Chalcopyrite, Pyrite, Malachite
Ma, Lm	Malachite, Limonite

True North
Grid North
Mag North
15°35'
1°56'

0 100
(m)
Scale = 1:2000

Figure 5: South Zone Geology and Sample Location Map

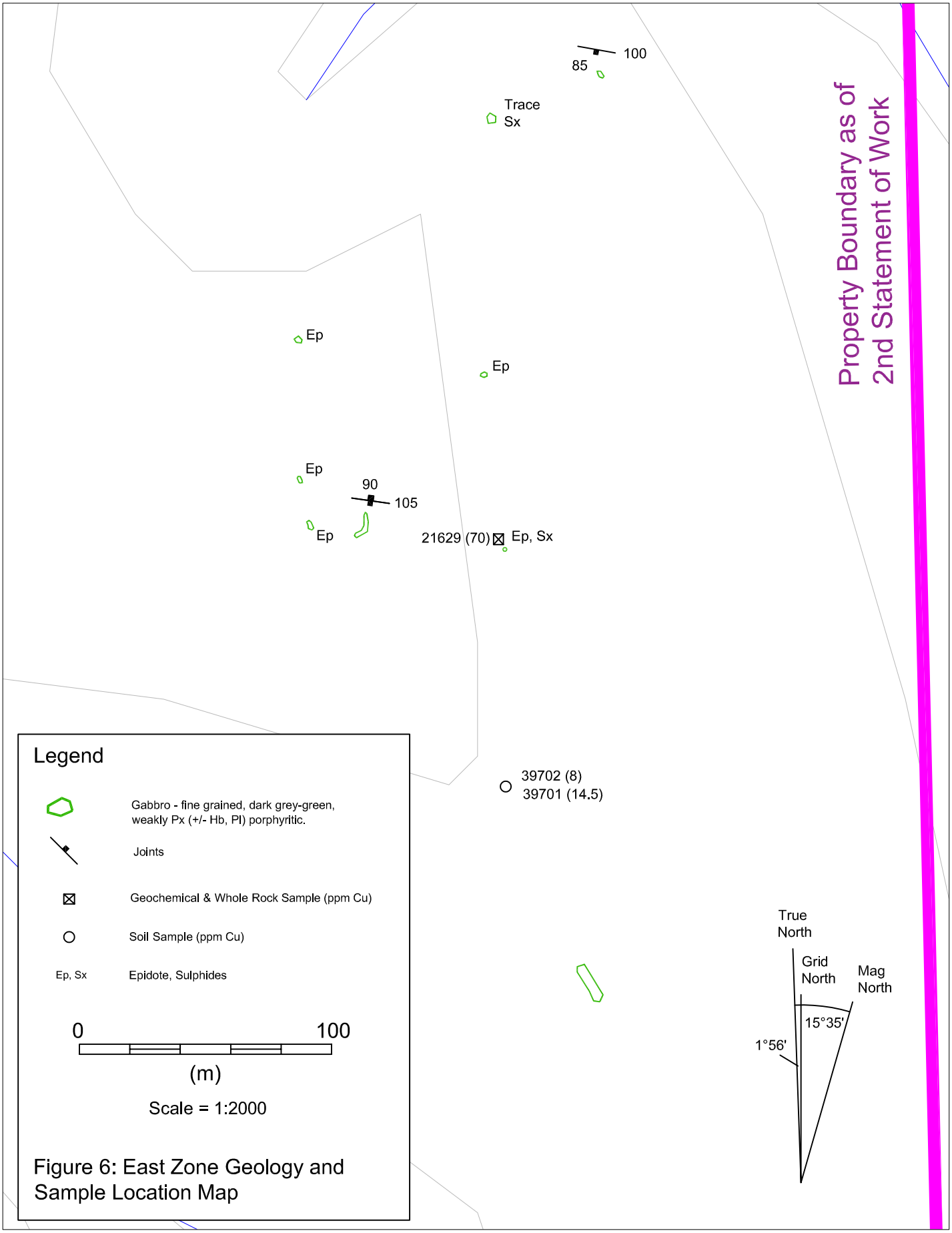

Figure 6: East Zone Geology and Sample Location Map

Geochemical Sampling

Lithogeochemical Sampling

14 samples were submitted for lithogeochemical analysis. The main purpose of the sampling was to determine whether there were alkalic porphyries associated with the Wen Prospect mineralization. Rock samples were collected for lithogeochemical analysis from float and outcrop at the locations shown on Figures 4, 5 & 6. Samples were crushed to 70% less than 2 mm, 250 g were split off and pulverized to 85% passing 75 microns. The samples were subjected to a lithium borate fusion followed by ICP-AES and ICP-MS analysis for major and trace elements. Sample descriptions are given in Table 3. Appendix I contains the assay and QA/QC certificates.

An REE plot (Sun & McDonough, 1989) of the 2019 whole rock samples (with the blank, standards and tuffs removed) shows the rocks falling into two main groups (Note that sample 21637 was removed from the plot, as it appears it was switched with the blank. See QA/QC section for discussion). The main group is composed of the green triangles and red circles shown on Figure 7. These are the basaltic to andesitic flows, coarse clastics and related gabbros which comprise the volcanic units. The second group have higher LREE abundances and steeper profiles. Two of these were mapped as quartz monzodiorites, while the third appears to be an altered equivilent (from the road showing area). Rocks with similar profiles from the 2018 program were labelled diorites, but have been reclassified as quartz monzodiorites on the 2019 map.

A Zr/Ti vs Nb/Y plot (Pearce, 1996) follows the REE groupings (Figure 8). The basalts and gabbros fall in a cluster that is mainly within the basalt field. The quartz monzodiorites form a separate group that is more evolved and alkaline, falling along the lower boundary of the andesite + basaltic andesite field. Sample 21629 was collected along the eastern edge of the property from within a group of rocks that were called diorites in the field, though they have been plotted as gabbros on the map.

These patterns hold on the TAS plot (LeMaitre,1989), with the two quartz monzonites falling in the andesite to trachyandesite field and most of the basalts and gabbros falling in the basalt to trachybasalt field. Again, sample 21629 is separate from the basaltic rocks, suggesting it may in fact be a diorite. The red circles represent samples 21630 and 21631 which are the altered and mineralized basalts? found near the contact. They are higher silica relative to the basalts, which may be a result of silicification, though the petrography indicates that they are andesites. Sample 21639 plots as more siliceous that the quartz monzonites (well into the dacite field), which again may indicate silicification or simply a compositional difference (or both).

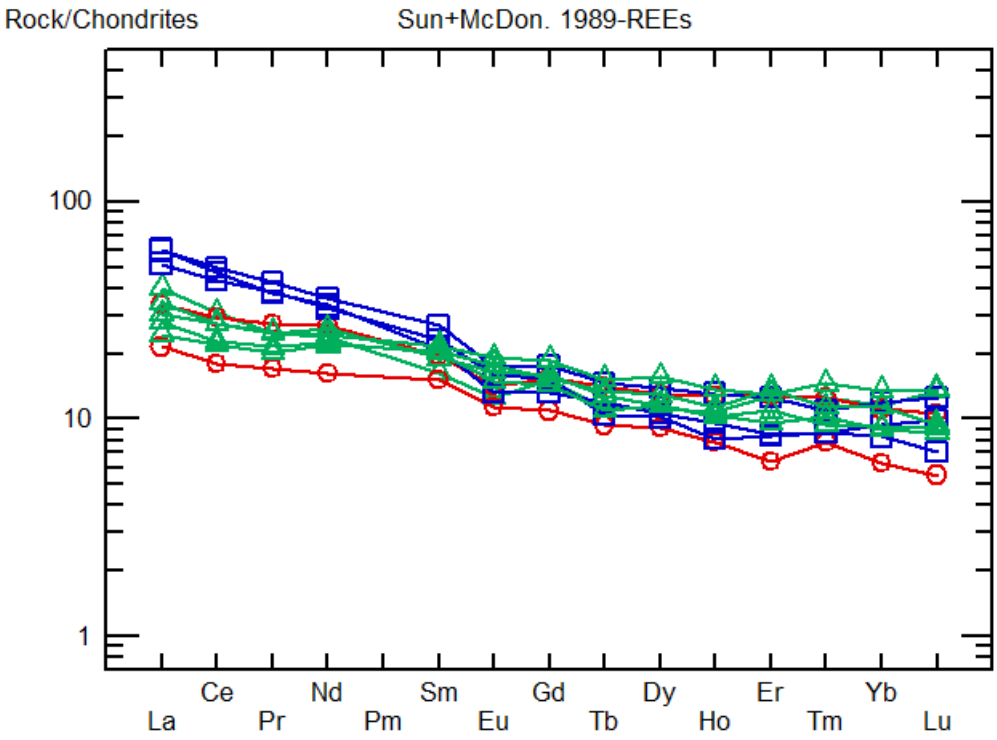

Figure 7: REE plot of samples (blue squares = quartz monzonites; green triangles = basalts and gabbros, red circles = altered basaltic andesites?)

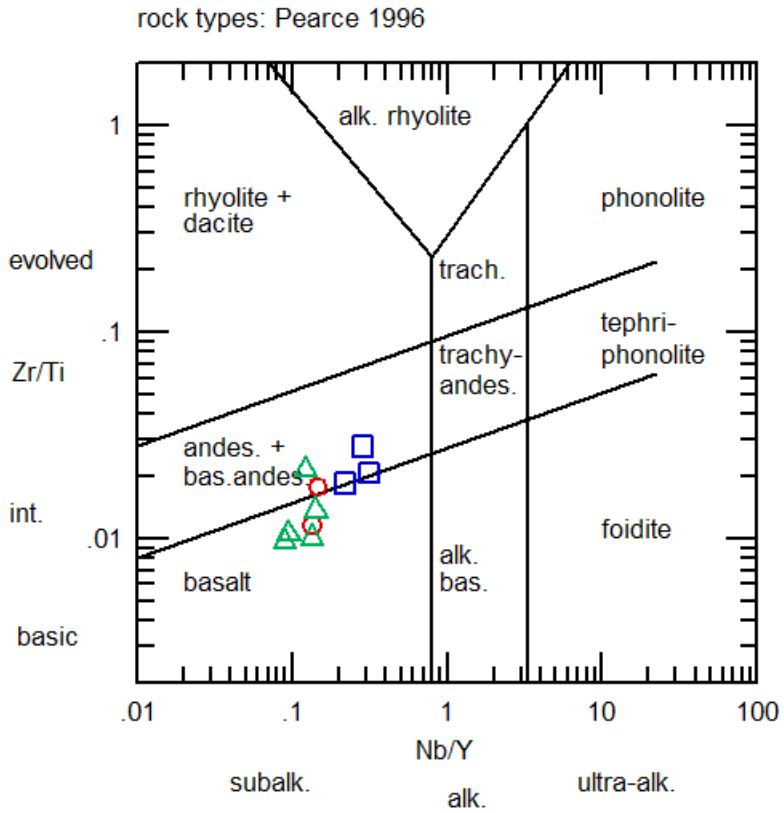

Figure 8: Zr/Ti vs Nb/Y plot of samples (blue squares = quartz monzonites; green triangles = basalts and gabbros, red circles = altered basaltic andesites?)

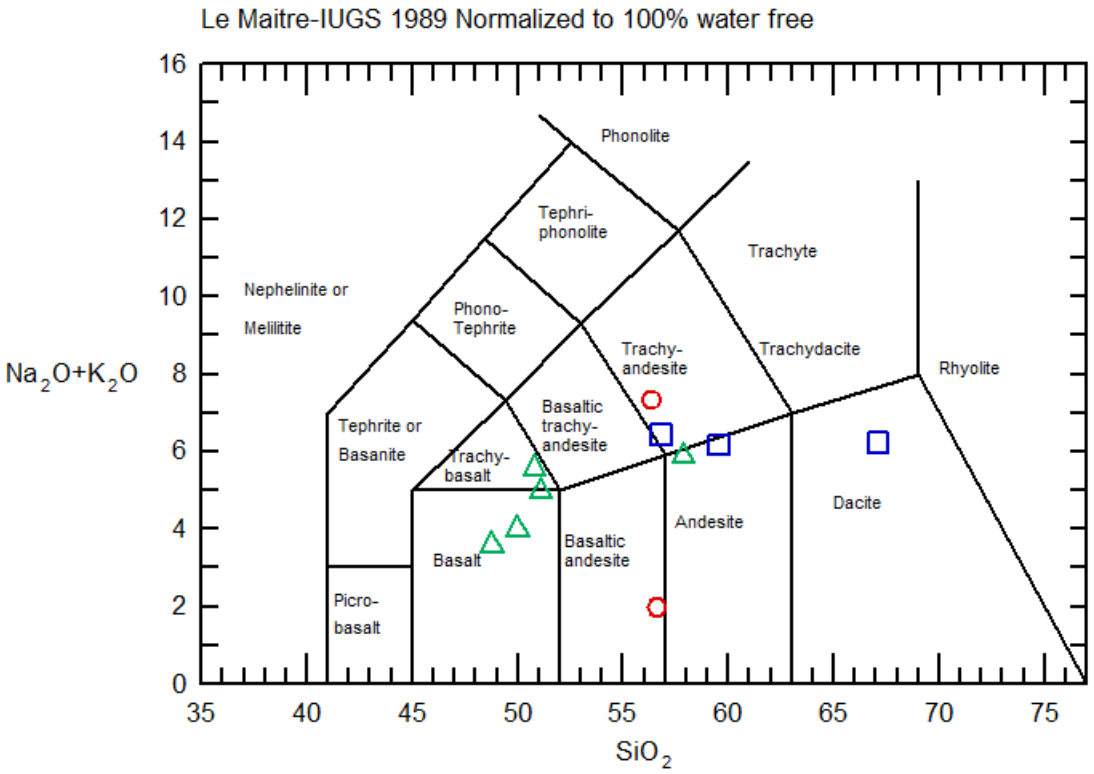

Figure 9: TAS plot of samples (blue squares = quartz monzonites; green triangles = basalts and gabbros, red circles = altered basaltic andesites?)

Geochemical Sampling

Fourteen rock samples and a blank were submitted for geochemical analysis.
Rock samples were collected from float and outcrop at the locations shown on Figures 4, 5 & 6.
Samples were crushed to 70% less than 2 mm, 250 g were split off and pulverized to 85% passing 75 microns. 30 gram samples were subjected to fire assay for Au with ICP-AES finish. They were also subjected to aqua regia digestion and ICP-AES analysis. Sample descriptions are given in Table 4.
Appendix I contains the assay and QA/QC certificates.
The highest Cu values taken during the 2019 season was from quartz-carbonate altered basalts, though even the best of these was an unexciting 540 ppm. However, the similarity in alteration style of these samples (21631, 21630 & 21638(7)) with the quartz-carbonate stockwork east of the Wen adit suggests that this style of mineralization may be more widespread.
Epidote-carbonate matrix breccia samples generally had elevated, but unexceptional Cu values.

Table 3: Rock Samples

Sample ID	Easting	Northing	Description	Lithology	Thin Section	Whole Rock	Geochem	ppm Cu
21629	684998	5533805	Dark greenish grey, feldspar phyric, fine grained diorite? Frequent Ep+/-Qz+/-Ch veinlets. Trace Sx.	Gabbro		x	x	70
21630	683654	5533559	Reanalysis of 2018 sample J488640. Same subcrop or float as sample 21638(7)* below.	Basaltic Andesite		x	x	402 (2018 analysis = 396)
21631	683342	5534853	Medium grey, very fine grained, limonitic basalt? Frequent carbonate veinlets. About 0.5% disseminated Sx (Cp & Py).	Basalt?	x	x	x	540
21632	683331	5534652	Medium grey, very fine grained quartz monzodiorite? Fl & Hb phyric (fine crowded phenocrystss). Lm'tc fractures. Patchily pyritic (up to 5% Py).	Quartz-monzodiorite		x	x	65
21633	683428	5534780	Breccia with basalt clasts & Qz-Cb-Ep matrix. Trace Cp in matrix.	Breccia			x	160
21634	683450	5534877	Very limonitic quartz vein material.	Vein			x	85
21635	682828	5534045	Breccia with basalt &/or gabbro clasts & Qz-Cb-Ep matrix. Trace Sx.	Breccia			x	111
21636	683872	5534053	Breccia with basalt &/or gabbro clasts & Qz-Cb-Ep matrix. Trace Sx.	Breccia			x	115
21637(8)*	683654	5533559	Float. Medium grey, fine grained, mafic volcanic? Orange brown weathering. ~1% disseminated Py & Cp. Frequent Qz-Cb veinlets. (resample of 2018 sample #488640).	Andesite	x	x	x	12
21638(7)*			BLANK	Rhyolite			x	256
21639	683642	5533516	Orange weathering, medium greenish grey, Hb? phyric diorite? Brecciated by Cb veinlets.	Andesite?	x	x	x	53
21640	683671	5533466	Medium purple grey, fine grained intrusive or crystal tuff. Frequent Cb veining. Limonitic fracture.	Basaltic Tuff	x	x	x	35
21641	683671	5533466	Same as 21640, but more veining.	Basaltic Tuff			x	5
21642	683259	5534745	Fine grained, medium grey, weakly Hb porphyritic, Quartz Monzodiorite. Trace pyrite.	Quartz Monzodiorite		x		
21643			Basalt standard (OREAS 24c)	Basalt		x		
21644	683483	5533962	Reanalysis of 2018 sample J488643. Basalt brecciated by Ep-Cb veinlets.	Basalt		x		
21645	684321	5533168	Dark grey, very fine grained basalt with about 15% large (up to 8 mm) Px phenocrysts.	Basalt		x		
21646	683494	5534587	Medium grey, fine grained, crowded Fl>Px>Hb porphyritic gabbro. Pale green (Ep alteration) patches.	Gabbro		x		
21647	683561	5533072	Dark grey, very fine grained sandstone or basaltic tuff.	Basaltic Tuff	x	x		
39715	683207	5535606	Medium to Dark Green Grey, variably Ep and Cb brecciated, volcanic conglomerate.	(Basaltic) volcanic conglomerate		x	x	167

***Sample 21637 and 21638 appear to have been switched. See text for discussion.**

Ep (epidote), Qz (quartz), Ch (chlorite), Sx (sulphides), Fl (feldspar), Hb (hornblende), Py (pyrite), Cp (chalcopyrite), Cb (carbonate)

Soil Sampling

Fourteen soil samples were collected and submitted for analysis. One of these was a duplicate sample. Samples were taken from roadcuts to see if deeper samples of possible basal till would be more effective in areas of thicker overburden than standard soil sampling. Considerable area of the property feature thick overburden with few outcrops.

The soil samples were taken at the locations shown on Figure 4, 5 & 6. The samples were screened to -80 mesh. A 25 gram split was then subjected to aqua regia digestion followed by ICP-MS analysis for 51 elements including Au. Sample descriptions are given in Table 4. Appendix I contains the assay and QA/QC certificates.

Samples were taken from a depth 30 cm to 1.7 m from roadcuts in till. Most samples showed little difference with depth and were not anomalous, either by regional till sampling thresholds (Jackman, 2010) or historical Wen soil surveys (Kierans, 1973). However, the site with the deepest sample (samples 39708-39710) show a clear increase with depth from not anomalous to weakly anomalous relative to the 1972 sampling thresholds.

QA/QC

Two pulps from the 2018 lithogeochemical survey were submitted for reanalysis, a standard from OREAS certified reference materials (OREAS24c – Appendix 2) and a dacite blank were included with the rock samples. A field duplicate was submitted with one of the soil samples.

It appears that the dacite blank and the preceeding sample were switched. The dacite blank reported a high Cu value (256 ppm), while the preceeding sample (21637), which had chalcopyrite reported in handsample and in the petrographic report, returned a Cu value of 12 ppm. In addition, the major and trace element plots of sample 21637 were unlike any on the property to date, and specifically unlike the plots for 21630. Sample 21637 was essentially a field duplicate of sample 21630 (which was a reanalysis of a sample taken from the same buried subcrop/float in 2018).

Sample 21630 was a reanalysis of 2018 sample 488640. It returned Cu values of 396 ppm Cu, which is acceptable compared to the 2018 result of 402 ppm. The results for major and trace elements were plotted on the three discriminant plots used in the Lithogeochemical Sampling section above. The plots are included in Appendix 2. The REE and TAS plots had acceptable agreement between the 2018 and 2019 analysis, but there was significant scatter in the Zr/Ti vs Nb/Y plot.

The certified element values for the standard were directly compared to the ALS analysis in Table 5. Several elements had differences between 5 and 10%. Two elements had differences of over 30%, though one of these is likely due to round off error.

Table 4: Comparison of sample 21643 analysis with certified values for OREAS 24c

Sample	Na2O	K2O	TiO2	Ba	Cr	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	Y	Zr
21643	3.12	0.84	1.84	277	270	3.8	21.7	21	2	428	1.4	2.96	0.79	22.1	152
Standard	3.26	0.885	1.77	269	193	3.75	23.8	21.9	1.51	442	1.48	3.08	0.76	22.3	143
Difference	-0.1	0.0	0.1	8.0	77.0	0.0	-2.1	-0.9	0.5	-14.0	-0.1	-0.1	0.0	-0.2	9.0
% difference	-4.3%	-5.1%	4.0%	3.0%	39.9%	1.3%	-8.8%	-4.1%	32.5%	-3.2%	-5.4%	-3.9%	3.9%	-0.9%	6.3%

The duplicate soil samples had Cu values which were well within 10% of each other, which the GSC considers acceptable for field duplicates.

Table 5: Soil Samples descriptions

Sample ID	**Easting**	**Northing**	**Depth**	**Description**	**ppm Cu**
39701	685002	5533704	40 cm	Dense, light brownish grey, gritty silt. Frequent subangular to subround polymictic pebbles	14.5
39702	685002	5533704	20 cm	Loose, light brownish grey silt. Frequent cobbles.	8
39703	683521	5532847	1.5 m	Moderately dense, tan sand=silt>clay. Matrix supported, subround to subangular, polymictic. pebbles & cobbles	54.6
39704	683521	5532847	1.5 m	**Duplicate of 39703**	57.2
39705	683519	5532847	40 cm	Moderately dense, tan sand=silt+clay. Matrix supported, subround to subangular, polymictic. pebbles & cobbles	57.4
39706	683674	5533523	60 cm	Weakly compact, medium brown clay=sand. Polymictic angular to rounded pebbles & cobbles. Matrix dominant.	70.6
39707	683674	5533523	30 cm	Loose, medium reddish brown silt>clay>sand. Polymictic, angular to rounded (dominant) pebbles to boulders. Clast supported.	77.8
39708	683197	5535598	1.7 m	Moderately compact, pale tan silt. Frequent subround to subangular volcanic pebbles to cobbles.	90.5
39709	683197	5535598	1.3 m	Dense, light brown sand>pebbles>silt. Polymictic subangular to subround pebbles.	68.2
39710	683197	5535598	30 cm	Moderately compact, light tan silt>sand>clay. Matrix supported, polymictic pebbles to boulders.	32.7
39711	682941	5535422	1.5 m	Moderately compact, pale tan silt. Frequent subround to angular volcanic pebbles to cobbles.	62.4
39712	682941	5535422	30 cm	moderately compact, light brown silt>pebbles>sand. Polymictic, angular to subround pebbles.	54.7
39713	683378	5535654	1.5 m	Moderately compact, pale tan sand>silt>pebbbles. Angular to subround pebbles.	51.4
39714	683378	5535654	30 cm	moderately compact, light brown silt>pebbles>sand. Polymictic, angular to subround pebbles.	42.2

Petrography

Five samples were submitted for petrographic examination. Sample details are given in Table 3. The locations of the samples are shown on Figures 4 and 5. The petrographic report is in Appendix 3. The purpose of the sampling was to determine the lithology and/or alteration of a number of rocks that could not be confidently identified in the field or by slabbing.
Petrographic examination indicated that the two most mineralized samples collected in the 2019 season were both quartz-carbonate altered andesites. Two samples were confirmed to be tuffs. A second sample taken from the road showing also featured quartz-carbonate (+k-spar?) alteration.

Conclusions and Recommendations

Overall, little mineralization of note was encountered during the 2019 field season. The mineralization of note that was encountered was associated with the volcanic-sediment contact. Neither of the intrusive rocks mapped to date appears to be an alkalic porphyry. Most of the hydrothermal breccia examined is either low grade or unmineralized. However, much of the property remains unmapped and barely examined. Mapping is also still incomplete in the area of the Wen Showing and along portions of the volcanic-sediment contact.
The contact should be mapped to the north, and chalcopyrite occurrences associated with the Echo showing should be followed up on as well as the historic soil anomalies in this area.
The area to the east of the Wen showing should be mapped to constrain the limits of the quartz-carbonate stockwork and the Wen breccia body. The area north of the Southern Trenches should be mapped to cover this area of the contact.
Consideration should be given to trenching in the area of the South Trenches and the Road Showing.

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Statement of Qualifications

I certify the following:

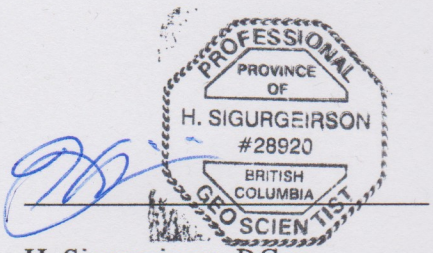
1. I graduated in 1995 from the University of British Columbia with a B.Sc. in the Geological Sciences.

2. I have worked in mining and mineral exploration continuously since graduation.

3. I have worked on VMS, porphyry, epithermal and mesothermal Au vein, anorthosite hosted Ti, nephrite and other exploration programs in Canada, Mexico and China. I have developed and operated 3 dimension stone quarries on the BC coast.

4. I am a professional geoscientist in the Association of Professional Engineers and Geoscientists of British Columbia, and have been a member in good standing (member #28920) since 2004.

5. I carried out the work program described herein and wrote this report.



H. Sigurgeirson, P.Geo

OCT. 7, 2019

Date

This document represents an electronic version of the original hard copy document, sealed, signed and dated by Helgi Sigurgeirson, P.Geo and retained on file. The content of the electronically transmitted document can be confirmed by referring to the original hard copy and filed

Cost Statement

Consultant	Item	Rate	Units	Amount	Total
H. Sigurgeirson, P.Geo.	Fieldwork: May 30 to August 24	$525.00	days	13	$6,825.00
	Travel (half rate)	$250.00	days	4	$1,000.00
	Sample slabbing	$75.00	hour	3	$225.00
	Sample handling/shipping	$50.00	hour	2	$100.00
	Data compilation	$50.00	hour	4	$200.00
	Project administration	$50.00	hour	2	$100.00
	Report				$2,309.33
Subtotal					**$10,759.33**
Mileage	pickup (fuel included)	$0.60	kms	2100	$1,260.00
	quad	$120.00	days	13	$1,560.00
Subtotal					**$2,820.00**
Expenses	Accommodations	$115.00	days	14	$1,610.00
	Food	$60.00	days	17	$1,020.00
Subtotal					**$2,630.00**
Sampling					
	Samples				$2,037.32
	Petrography				$1,690.00
	QA/QC standards & blanks				$100.00
Subtotal					**$3,827.32**

Total = $20,036.65

Appendix I

1. Certificate of Analysis VA19220855 & QC Document (7 soil samples)
2. Certificate of Analysis VA19204072 & QC Document (19 rock samples)
3. Certificate of Analysis VA19208565 & QC Document (7 soil samples)
4. Certificate of Analysis VA19220856 & QC Document (1 rock sample)

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To: **VICTORY RESOURCES LTD.**
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VANCOUVER BC V7X 1B1

Finalized Date: 30-SEP-2019
This copy reported on 1-OCT-2019
Account: VIRELIT

VA19220855

Project: Mal-Wen

This report is for 7 Rock samples submitted to our lab in Vancouver, BC, Canada on 3-SEP-2019.

The following have access to data associated with this certificate:

VICTORY RESOURCES		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
DISP-01	Disposal of all sample fractions
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
AuME-TL43	25g Trace Au + Multi Element PKG

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 30-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19220855

Sample Description	Method	WEI-21	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
039708		0.52	0.007	0.09	1.27	3.1	10	110	0.30	0.08	5.34	0.07	12.70	10.6	24	1.52
039709		0.62	0.006	0.05	0.93	3.6	10	60	0.22	0.12	0.49	0.02	10.55	8.6	24	1.15
039710		0.42	0.003	0.06	1.59	1.2	10	110	0.39	0.13	0.29	0.03	15.40	7.6	26	1.35
039711		0.48	0.003	0.08	0.69	2.5	10	130	0.13	0.06	8.77	0.09	7.94	7.9	18	0.76
039712		0.68	0.123	0.08	1.38	2.0	10	100	0.31	0.21	0.41	0.04	14.10	9.0	30	1.60
039713		0.48	0.003	0.12	1.16	3.3	10	190	0.28	0.11	3.14	0.10	13.45	9.2	30	1.33
039714		0.58	0.004	0.05	1.26	1.4	10	110	0.29	0.16	0.35	0.04	13.35	7.5	29	1.44

***** See Appendix Page for comments regarding this certificate *****

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To: **VICTORY RESOURCES LTD.**
SIUITE 734
1055 DUNSMIR STREET
VANCOUVER BC V7X 1B1

Finalized Date: 30-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19220855

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
039708		90.5	2.67	4.39	0.06	0.04	0.03	0.011	0.15	6.8	9.9	0.79	403	0.33	0.02	0.22
039709		68.2	2.50	3.49	0.05	0.03	0.03	0.010	0.11	5.5	7.9	0.56	340	0.27	0.02	0.11
039710		32.7	2.21	5.24	<0.05	0.06	0.01	0.013	0.16	7.2	10.7	0.41	222	0.34	0.02	0.39
039711		62.4	1.96	2.60	0.05	0.02	0.05	0.007	0.06	4.2	5.7	0.61	272	0.20	0.02	0.25
039712		54.7	2.51	4.56	0.06	0.03	0.02	0.010	0.14	6.4	8.4	0.53	277	0.27	0.01	0.27
039713		51.4	2.35	4.04	0.05	0.04	0.05	0.012	0.12	7.0	7.7	0.67	411	0.41	0.03	0.22
039714		42.2	2.31	4.28	<0.05	0.05	0.02	0.011	0.17	6.9	7.3	0.43	249	0.27	0.01	0.30

***** See Appendix Page for comments regarding this certificate *****

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CERTIFICATE OF ANALYSIS VA19220855

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
039708		14.5	1350	1.8	8.5	<0.001	0.01	0.41	3.8	0.2	0.2	164.0	<0.01	0.03	1.8	0.084
039709		11.6	1040	1.6	5.0	<0.001	<0.01	0.46	3.6	<0.2	0.2	41.0	<0.01	0.03	2.0	0.062
039710		13.1	390	3.0	16.4	<0.001	0.01	0.19	3.1	<0.2	0.4	30.5	<0.01	0.02	2.2	0.087
039711		9.1	1160	1.4	3.7	<0.001	0.01	0.27	2.1	0.2	0.2	173.0	<0.01	0.02	1.1	0.065
039712		13.3	650	2.0	13.8	<0.001	0.01	0.23	4.2	<0.2	0.3	32.3	<0.01	0.03	1.8	0.078
039713		17.3	1150	2.3	8.3	<0.001	0.01	0.38	3.6	0.2	0.2	68.9	<0.01	0.03	1.4	0.072
039714		12.9	400	2.4	13.8	<0.001	0.01	0.32	3.5	<0.2	0.3	29.9	<0.01	0.02	2.2	0.071

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Finalized Date: 30-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19220855

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.05	0.05	2	0.5
039708		0.06	0.52	73	0.13	5.50	37	1.9
039709		0.04	0.33	78	0.15	3.07	28	1.5
039710		0.08	0.53	52	0.08	4.39	35	2.7
039711		0.04	0.35	57	0.12	3.15	27	1.0
039712		0.08	0.60	67	0.13	4.27	30	1.4
039713		0.06	0.43	63	0.12	6.08	37	2.0
039714		0.07	0.55	57	0.11	5.07	29	2.5

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 30-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19220855

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
AuME-TL43	DISP-01	LOG-21	SCR-41
WEI-21			

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To: **VICTORY RESOURCES LTD.**
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Finalized Date: 30-SEP-2019
Account: VIRELIT

VA19220855

Project: Mal-Wen

This report is for 7 Rock samples submitted to our lab in Vancouver, BC, Canada on 3-SEP-2019.

The following have access to data associated with this certificate:

VICTORY RESOURCES		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
DISP-01	Disposal of all sample fractions
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
AuME-TL43	25g Trace Au + Multi Element PKG

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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To: **VICTORY RESOURCES LTD.**
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Finalized Date: 30-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220855

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	0.2
STANDARDS																
OREAS 905		0.368	0.51	0.74	34.7	10	230	0.91	5.25	0.33	0.34	72.8	13.8	17	1.06	1550
Target Range - Lower Bound		0.331	0.45	0.67	29.9	<10	190	0.78	4.97	0.27	0.30	68.2	12.4	15	1.02	1450
Upper Bound		0.451	0.58	0.84	36.7	20	280	1.08	6.10	0.35	0.38	83.4	15.4	20	1.36	1670
OREAS-45e		0.043	0.24	3.00	11.9	10	140	0.37	0.22	0.03	0.02	16.05	48.1	747	0.57	727
Target Range - Lower Bound		0.042	0.21	2.98	11.2	<10	110	0.29	0.19	<0.01	<0.01	15.90	46.7	763	0.56	659
Upper Bound		0.059	0.28	3.66	13.9	20	170	0.53	0.25	0.05	0.04	19.50	57.3	935	0.83	759
BLANKS																
BLANK		<0.001	<0.01	<0.01	<0.1	10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Target Range - Lower Bound		<0.001	<0.01	<0.01	<0.1	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Upper Bound		0.002	0.02	0.02	0.2	20	20	0.10	0.02	0.02	0.02	0.04	0.2	2	0.10	0.4
DUPLICATES																
ORIGINAL		0.007	0.26	2.73	21.7	10	140	2.55	0.12	0.08	0.28	35.5	45.1	83	6.98	243
DUP		0.007	0.25	2.68	20.5	10	140	2.72	0.12	0.08	0.26	34.5	43.7	83	6.68	238
Target Range - Lower Bound		0.005	0.23	2.56	19.9	<10	120	2.45	0.10	0.07	0.25	33.2	42.1	78	6.44	232
Upper Bound		0.009	0.28	2.85	22.3	20	160	2.82	0.14	0.09	0.29	36.8	46.7	88	7.22	249

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 30-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220855

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05	0.2
STANDARDS																
OREAS 905		3.43	5.54	0.07	0.48	0.01	0.571	0.29	35.2	4.4	0.14	329	2.94	0.09	0.09	8.4
Target Range - Lower Bound		3.14	5.37	<0.05	0.38	<0.01	0.517	0.24	33.9	4.0	0.11	289	2.65	0.06	<0.05	7.8
Upper Bound		3.86	6.67	0.19	0.50	0.04	0.643	0.32	41.9	5.1	0.17	365	3.35	0.11	0.21	10.0
OREAS-45e		24.3	11.95	0.11	0.54	0.01	0.085	0.05	5.9	1.9	0.07	279	1.78	0.03	0.06	376
Target Range - Lower Bound		20.4	11.20	0.24	0.68	<0.01	0.076	0.03	5.7	2.2	0.07	324	1.59	<0.01	0.11	321
Upper Bound		25.0	13.80	0.48	0.88	0.03	0.105	0.08	7.4	2.9	0.12	408	2.05	0.05	0.33	393
BLANKS																
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Upper Bound		0.02	0.10	0.10	0.04	0.02	0.010	0.02	0.4	0.2	0.02	10	0.10	0.02	0.10	0.4
DUPLICATES																
ORIGINAL		11.05	5.59	0.06	0.06	0.30	0.049	0.06	16.1	27.1	0.75	5400	2.49	0.01	0.20	77.1
DUP		10.85	5.28	0.06	0.06	0.30	0.045	0.05	15.5	30.4	0.75	5300	2.40	0.01	0.19	76.0
Target Range - Lower Bound		10.40	5.11	<0.05	0.04	0.27	0.040	0.04	14.8	27.2	0.70	5080	2.27	<0.01	0.14	72.5
Upper Bound		11.50	5.76	0.10	0.08	0.33	0.054	0.07	16.8	30.3	0.80	5620	2.62	0.02	0.25	80.6

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V7X 1B1

Finalized Date: 30-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220855

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005	0.02
STANDARDS																
OREAS 905		220	14.7	16.9	<0.001	0.07	1.16	1.4	2.2	1.2	11.5	<0.01	0.08	7.7	0.015	0.09
Target Range - Lower Bound			14.2	15.7	<0.001	0.04	0.94	1.3	1.8	0.8	10.9	<0.01	0.04	7.2	<0.005	0.05
Upper Bound			17.8	19.4	0.002	0.09	1.40	1.9	2.8	1.7	13.7	0.02	0.09	9.2	0.026	0.15
OREAS-45e		270	12.5	7.1	<0.001	0.04	0.54	78.9	0.9	0.9	3.4	<0.01	0.10	9.3	0.075	0.05
Target Range - Lower Bound			11.7	6.7	<0.001	0.02	0.39	70.1	1.3	0.4	3.4	<0.01	0.08	8.3	0.090	<0.02
Upper Bound			14.8	8.4	0.002	0.07	0.70	85.9	2.3	1.3	4.6	0.03	0.13	10.6	0.122	0.10
BLANKS																
BLANK		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Target Range - Lower Bound		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Upper Bound		20	0.4	0.2	0.002	0.02	0.10	0.2	0.4	0.4	0.4	0.02	0.02	0.4	0.010	0.04
DUPLICATES																
ORIGINAL		2610	47.2	7.9	<0.001	0.05	3.46	21.6	0.9	0.4	13.1	<0.01	0.04	1.6	<0.005	0.11
DUP		2580	47.5	7.2	<0.001	0.05	3.32	20.6	0.8	0.4	12.7	<0.01	0.04	1.6	<0.005	0.10
Target Range - Lower Bound		2460	44.8	7.1	<0.001	0.04	3.09	19.9	0.6	<0.2	12.1	<0.01	0.03	1.3	<0.005	0.08
Upper Bound		2730	49.9	8.0	0.002	0.06	3.69	22.3	1.1	0.6	13.7	0.02	0.05	1.9	0.010	0.13

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 30-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220855

Sample Description	Method Analyte Units LOD	AuME-TL43 U ppm 0.05	AuME-TL43 V ppm 1	AuME-TL43 W ppm 0.05	AuME-TL43 Y ppm 0.05	AuME-TL43 Zn ppm 2	AuME-TL43 Zr ppm 0.5
STANDARDS							
OREAS 905		2.00	5	0.54	6.26	60	20.7
Target Range - Lower Bound		1.83	3	0.40	5.85	53	16.8
Upper Bound		2.35	8	0.72	7.27	69	23.9
OREAS-45e		1.68	260	0.05	5.39	23	20.5
Target Range - Lower Bound		1.41	257	<0.05	4.93	27	23.2
Upper Bound		1.84	317	0.21	6.13	38	32.6
BLANKS							
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5
Target Range - Lower Bound		<0.05	<1	<0.05	<0.05	<2	<0.5
Upper Bound		0.10	2	0.10	0.10	4	1.0
DUPLICATES							
ORIGINAL		0.65	88	0.07	23.5	102	1.9
DUP		0.66	87	0.07	22.6	100	1.8
Target Range - Lower Bound		0.57	82	<0.05	21.8	94	1.2
Upper Bound		0.74	93	0.10	24.3	108	2.5

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 30-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220855

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
AuME-TL43	DISP-01	LOG-21	SCR-41
WEI-21			

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Finalized Date: 12-SEP-2019
This copy reported on
23-SEP-2019
Account: VIRELIT

VA19204072

Project: Mal-Wen

This report is for 19 Rock samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2019.

The following have access to data associated with this certificate:

VICTORY RESOURCES		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
DISP-01	Disposal of all sample fractions
CRU-QC	Crushing QC Test
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

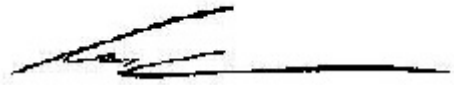
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Colin Ramshaw, Vancouver Laboratory Manager

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Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
021629		1.20	0.002	0.2	1.71	<2	10	120	<0.5	<2	1.62	<0.5	7	15	70	2.47
021630		0.20	0.005	0.5	1.23	4	10	50	<0.5	<2	5.30	<0.5	17	11	402	3.64
021631		1.06	0.409	1.6	2.89	10	10	30	<0.5	<2	6.89	<0.5	28	89	540	7.03
021632		0.52	<0.001	0.2	1.62	8	<10	60	<0.5	<2	1.30	<0.5	9	6	65	3.75
021633		1.08	0.002	<0.2	1.61	<2	<10	190	<0.5	<2	1.53	<0.5	17	60	160	2.76
021634		0.94	0.997	0.4	1.27	3	<10	80	<0.5	<2	0.36	<0.5	43	90	85	6.61
021635		1.38	0.006	0.2	1.53	<2	<10	140	<0.5	<2	1.56	<0.5	18	63	111	3.56
021636		1.14	0.001	<0.2	1.31	40	10	50	<0.5	<2	2.07	<0.5	23	27	115	3.64
021637		0.92	<0.001	<0.2	0.40	<2	<10	30	<0.5	<2	0.26	<0.5	3	8	12	1.22
021638		0.38	0.003	0.4	0.46	4	10	130	<0.5	<2	6.34	<0.5	7	4	256	2.30
021639		0.96	0.073	0.5	1.70	9	<10	60	<0.5	<2	2.08	0.5	10	28	53	3.69
021640		1.36	<0.001	<0.2	0.63	6	10	50	<0.5	<2	4.60	<0.5	24	44	35	5.38
021641		0.80	0.003	0.2	0.80	7	10	20	<0.5	<2	2.91	<0.5	29	52	5	5.98
021642		1.06														
021643		0.08														
021644		0.22														
021645		0.94														
021646		0.82														
021647		1.20														

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 12-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
021629		10	<1	0.13	<10	0.79	431	1	0.15	9	1130	2	0.02	<2	3	83
021630		<10	1	0.52	10	0.85	1870	2	0.02	10	1460	6	0.24	3	5	126
021631		10	<1	0.13	<10	2.46	1975	1	0.01	36	1470	<2	0.46	5	18	91
021632		10	1	0.16	<10	0.97	582	1	0.15	2	1150	<2	0.40	<2	6	50
021633		10	<1	0.63	<10	1.49	413	1	0.08	26	1590	<2	0.03	<2	4	40
021634		10	1	0.16	<10	0.89	483	3	0.03	24	1100	2	0.21	2	11	45
021635		<10	1	0.58	<10	1.40	354	1	0.08	29	1280	<2	0.05	<2	4	49
021636		<10	1	0.35	<10	0.87	402	15	0.04	29	1520	<2	0.65	2	4	52
021637		<10	<1	0.10	<10	0.12	250	<1	0.13	7	570	<2	0.01	<2	2	30
021638		<10	<1	0.37	10	1.16	1515	1	0.02	5	1190	2	0.09	<2	3	121
021639		10	<1	0.12	10	1.37	709	2	0.05	7	900	<2	0.05	2	7	29
021640		<10	1	0.23	<10	1.34	977	<1	0.02	40	1020	<2	0.01	5	29	65
021641		<10	<1	0.28	<10	1.14	1040	<1	0.02	42	1190	<2	0.01	5	36	60
021642																
021643																
021644																
021645																
021646																
021647																

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Finalized Date: 12-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Th	Ti	Tl	U	V	W	Zn	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	20	0.01	10	10	1	10	2	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1
021629		<20	0.17	<10	<10	107	<10	36	2870	18.9	20	1.22	2.84	2.13	0.73	20.9
021630		<20	<0.01	<10	<10	65	<10	110	1365	17.9	30	4.09	3.30	2.12	0.82	19.5
021631		<20	0.01	<10	<10	166	<10	185	193.5	11.0	150	3.31	2.32	1.05	0.66	14.6
021632		<20	0.21	<10	<10	107	<10	54	1405	30.6	10	2.13	3.54	2.08	1.00	23.7
021633		<20	0.21	<10	<10	84	<10	43								
021634		<20	0.03	<10	<10	122	<10	49								
021635		<20	0.21	<10	<10	96	<10	47								
021636		<20	0.23	<10	<10	90	<10	37								
021637		<20	0.09	<10	<10	38	<10	28	781	28.9	10	0.36	1.64	0.97	0.60	19.4
021638		<20	<0.01	<10	<10	36	<10	62								
021639		<20	0.01	<10	<10	119	<10	67	1270	29.0	30	2.11	2.69	1.40	0.77	15.7
021640		<20	0.01	<10	<10	165	<10	70	91.2	15.1	100	5.56	3.20	1.80	0.95	17.1
021641		<20	0.01	<10	<10	196	<10	73								
021642									1335	26.7	30	1.70	2.59	1.38	0.92	23.5
021643									277	38.1	270	0.76	4.32	1.94	1.74	20.9
021644									1260	14.0	150	1.04	2.93	1.58	0.87	17.9
021645									734	16.9	300	1.17	3.99	2.15	1.11	18.5
021646									293	13.5	110	0.09	3.28	2.27	1.03	18.3
021647									668	22.0	20	1.04	4.72	3.18	1.17	22.1

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CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Gd	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	0.01	0.1	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05
021629		3.10	2.0	0.61	9.5	0.34	2.1	11.2	2.35	48.0	2.50	1	588	0.1	0.42	1.62
021630		3.18	2.1	0.72	8.0	0.27	2.8	12.6	2.61	172.0	2.98	1	320	0.1	0.53	1.37
021631		2.24	1.3	0.44	5.1	0.14	1.6	7.6	1.63	40.7	2.31	<1	112.5	0.1	0.35	1.50
021632		3.63	2.8	0.74	14.3	0.32	4.2	16.7	4.04	39.4	4.11	1	813	0.2	0.55	2.44
021633																
021634																
021635																
021636																
021637		2.10	3.0	0.38	13.7	0.18	4.1	13.5	3.46	30.2	2.74	1	591	0.2	0.30	2.95
021638																
021639		2.73	2.8	0.54	14.1	0.25	4.4	15.6	3.61	59.4	3.20	1	253	0.3	0.45	3.15
021640		2.98	1.8	0.64	7.0	0.27	2.5	11.0	2.20	57.4	2.68	1	328	0.2	0.47	1.11
021641																
021642		3.17	2.7	0.46	12.3	0.18	4.1	15.1	3.65	37.5	3.53	<1	834	0.2	0.39	2.35
021643		5.97	3.8	0.81	19.4	0.26	21.7	21.9	4.97	21.0	5.33	2	428	1.4	0.84	2.96
021644		2.96	1.3	0.59	6.6	0.22	1.4	10.4	2.04	42.7	3.09	1	453	0.1	0.41	1.48
021645		3.83	2.2	0.78	7.2	0.35	3.0	11.4	2.40	43.3	3.33	1	632	0.2	0.57	0.95
021646		3.14	1.7	0.64	5.8	0.24	2.4	10.2	1.92	8.5	3.17	1	841	0.2	0.50	0.97
021647		4.59	2.4	0.89	9.7	0.36	3.5	15.9	3.11	22.1	4.64	1	1435	0.2	0.73	1.38

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CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%
	LOD	0.01	0.05	5	1	0.1	0.03	2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002
021629		0.32	0.92	212	1	17.3	1.95	71	56.2	18.30	6.33	7.12	3.15	3.34	2.37	0.003
021630		0.32	0.62	238	1	19.0	1.88	71	50.7	16.15	6.54	7.28	2.06	0.28	6.30	0.004
021631		0.20	0.95	275	5	11.8	1.07	40	49.5	11.00	10.30	10.30	4.41	0.40	1.32	0.022
021632		0.28	1.19	236	2	19.2	2.03	102	55.3	17.55	8.22	5.71	3.73	4.28	1.98	0.002
021633																
021634																
021635																
021636																
021637		0.17	1.20	48	<1	10.0	1.09	115	68.6	16.30	3.14	3.42	1.33	4.58	1.90	<0.002
021638																
021639		0.22	1.53	152	1	15.3	1.61	104	63.1	14.15	5.23	2.94	2.36	3.33	2.52	0.004
021640		0.26	0.42	250	8	16.3	1.78	70	51.3	14.80	8.84	6.39	2.38	0.03	1.75	0.012
021641																
021642		0.22	1.40	168	<1	13.1	1.41	97	57.2	16.95	6.92	5.06	3.52	4.25	1.67	0.004
021643		0.27	0.79	175	1	22.1	1.82	152	51.1	14.80	11.25	8.63	6.87	3.12	0.84	0.036
021644		0.26	0.65	313	1	15.8	1.53	42	48.5	13.45	12.20	11.45	7.46	1.77	2.09	0.022
021645		0.37	0.55	289	<1	21.2	2.30	81	50.1	14.45	10.50	9.20	8.41	3.21	1.66	0.042
021646		0.29	0.60	400	<1	18.0	1.94	55	46.4	14.15	11.95	13.30	5.66	2.79	0.61	0.014
021647		0.42	0.76	277	1	25.5	2.79	85	49.6	17.00	8.75	10.30	3.88	3.15	0.96	0.002

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Finalized Date: 12-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
	Analyte	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
	Units	%	%	%	%	%	%	%
	LOD	0.01	0.01	0.01	0.01	0.01	0.01	0.01
021629		0.55	0.15	0.28	0.07	0.30	1.44	99.60
021630		0.67	0.25	0.34	0.04	0.14	7.31	98.06
021631		0.58	0.28	0.33	0.01	0.02	7.87	96.34
021632		0.92	0.13	0.30	0.10	0.15	1.72	100.09
021633								
021634								
021635								
021636								
021637		0.36	0.07	0.15	0.07	0.08	0.18	100.18
021638								
021639		0.62	0.09	0.21	0.03	0.13	3.55	98.26
021640		0.90	0.13	0.32	0.04	0.01	12.35	99.25
021641								
021642		0.78	0.09	0.27	0.10	0.14	2.57	99.52
021643		1.84	0.13	0.37	0.05	0.03	0.94	100.01
021644		0.73	0.20	0.39	0.05	0.13	1.82	100.26
021645		0.99	0.19	0.33	0.07	0.08	1.83	101.06
021646		0.91	0.18	0.39	0.10	0.03	2.82	99.30
021647		0.89	0.22	0.47	0.16	0.07	3.77	99.22

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CERTIFICATE OF ANALYSIS VA19204072

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au-ICP21	CRU-31	CRU-QC	DISP-01
LOG-21	LOG-23	ME-ICP06	ME-ICP41
ME-MS81	OA-GRA05	PUL-31	SPL-21
TOT-ICP06	WEI-21		

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Finalized Date: 12-SEP-2019
This copy reported on
23-SEP-2019
Account: VIRELIT

VA19204072

Project: Mal-Wen

This report is for 19 Rock samples submitted to our lab in Vancouver, BC, Canada on 17-AUG-2019.

The following have access to data associated with this certificate:

VICTORY RESOURCES		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
DISP-01	Disposal of all sample fractions
CRU-QC	Crushing QC Test
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

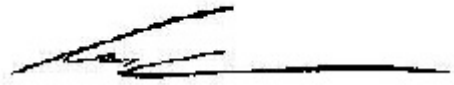
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Colin Ramshaw, Vancouver Laboratory Manager

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QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
STANDARDS																
AMIS0085																
AMIS0085																
Target Range - Lower Bound																
Upper Bound																
AMIS0185																
Target Range - Lower Bound																
Upper Bound																
AMIS0304																
Target Range - Lower Bound																
Upper Bound																
AMIS0304																
Target Range - Lower Bound																
Upper Bound																
CDN-W-4																
Target Range - Lower Bound																
Upper Bound																
G313-5		7.12														
Target Range - Lower Bound		6.64														
Upper Bound		7.50														
GPP-14		0.911														
Target Range - Lower Bound		0.853														
Upper Bound		0.965														
MRGeo08			4.9	2.76	35	<10	470	0.8	<2	1.17	2.2	19	95	653	3.87	10
Target Range - Lower Bound			3.8	2.44	27	<10	370	<0.5	<2	1.00	1.1	16	81	586	3.22	<10
Upper Bound			5.1	3.00	39	20	530	1.9	5	1.24	3.4	22	102	676	3.96	30
OREAS 252		0.666														
Target Range - Lower Bound		0.633														
Upper Bound		0.715														
OREAS 602			>100	0.65	699	<10	30	<0.5	61	0.56	26.4	10	30	5410	2.14	10
Target Range - Lower Bound			106.0	0.57	577	<10	<10	<0.5	50	0.46	22.2	7	26	4810	1.94	<10
Upper Bound			100.0	0.71	709	20	50	1.3	66	0.59	28.2	12	34	5530	2.40	30
OREAS-105																
Target Range - Lower Bound																
Upper Bound																
OREAS-45h		0.039														
Target Range - Lower Bound																
Upper Bound																
SRM88B																

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Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
STANDARDS																
AMIS0085																
AMIS0085																
Target Range - Lower Bound																
Upper Bound																
AMIS0185																
Target Range - Lower Bound																
Upper Bound																
AMIS0304																
Target Range - Lower Bound																
Upper Bound																
AMIS0304																
Target Range - Lower Bound																
Upper Bound																
CDN-W-4																
Target Range - Lower Bound																
Upper Bound																
G313-5																
Target Range - Lower Bound																
Upper Bound																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1	1.37	40	1.24	432	15	0.37	743	1030	1125	0.34	5	7	82	20
Target Range - Lower Bound		<1	1.12	20	1.03	378	12	0.30	621	900	957	0.27	<2	5	71	<20
Upper Bound		2	1.40	60	1.29	473	17	0.39	761	1130	1175	0.35	8	10	89	60
OREAS 252																
Target Range - Lower Bound																
Upper Bound																
OREAS 602		1	0.09	10	0.11	220	4	0.03	62	230	883	2.11	65	1	50	<20
Target Range - Lower Bound		<1	0.07	<10	0.08	193	2	<0.01	54	210	768	1.81	51	<1	44	<20
Upper Bound		3	0.12	30	0.13	247	7	0.05	68	280	944	2.23	73	3	56	40
OREAS-105																
Target Range - Lower Bound																
Upper Bound																
OREAS-45h																
Target Range - Lower Bound																
Upper Bound																
SRM88B																

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Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Ti	Tl	U	V	W	Zn	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	10	10	1	10	2	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05
STANDARDS																
AMIS0085								377	78.1	550	4.28	11.55	8.56	0.76	16.4	6.68
AMIS0085																
Target Range - Lower Bound																
Upper Bound																
AMIS0185																
Target Range - Lower Bound																
Upper Bound																
AMIS0304								2730	8360	100	0.42	138.5	35.7	145.0	42.2	352
Target Range - Lower Bound								2340	7280	70	0.35	119.0	30.6	135.0	47.8	309
Upper Bound								2860	8900	120	0.45	145.5	37.4	165.0	58.7	377
AMIS0304								2760	8780	90	0.39	135.5	35.6	143.5	36.6	345
Target Range - Lower Bound								2340	7280	70	0.35	119.0	30.6	135.0	47.8	309
Upper Bound								2860	8900	120	0.45	145.5	37.4	165.0	58.7	377
CDN-W-4																
Target Range - Lower Bound																
Upper Bound																
G313-5																
Target Range - Lower Bound																
Upper Bound																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		0.41	<10	<10	105	<10	808									
Target Range - Lower Bound		0.33	<10	<10	90	<10	708									
Upper Bound		0.43	20	30	112	20	870									
OREAS 252																
Target Range - Lower Bound																
Upper Bound																
OREAS 602		0.01	<10	<10	10	<10	4270									
Target Range - Lower Bound		<0.01	<10	<10	8	<10	3680									
Upper Bound		0.03	20	20	14	20	4500									
OREAS-105								752	123.0	50	2.07	12.35	7.37	1.35	28.1	12.10
Target Range - Lower Bound								632	105.0	40	1.96	10.95	6.72	1.32	24.3	11.65
Upper Bound								774	129.0	80	2.42	13.45	8.28	1.68	29.9	14.35
OREAS-45h																
Target Range - Lower Bound																
Upper Bound																
SRM88B								6.2	3.9	<10	0.16	0.60	0.42	0.15	0.5	0.58

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QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.2	0.01	0.1	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01
STANDARDS																
AMIS0085		4.8	2.56	39.6	1.35	11.2	31.9	8.53	236	7.31	3	104.5	2.1	1.55	55.4	1.53
AMIS0085																
Target Range - Lower Bound																
Upper Bound																
AMIS0185																
Target Range - Lower Bound																
Upper Bound																
AMIS0304		29.5	17.55	3440	2.07	>2500	4240	>1000	10.9	620	25	3570	12.4	33.5	426	3.51
Target Range - Lower Bound		25.0	16.20	3250	1.84	4670	3610	925	9.3	543	22	3060	11.1	30.8	406	3.14
Upper Bound		31.0	19.80	3970	2.27	>2500	4410	>1000	11.8	664	29	3740	13.8	37.7	496	3.86
AMIS0304		27.8	17.40	3570	2.00	>2500	4280	>1000	10.5	633	25	3490	13.1	32.7	450	3.74
Target Range - Lower Bound		25.0	16.20	3250	1.84	4670	3610	925	9.3	543	22	3060	11.1	30.8	406	3.14
Upper Bound		31.0	19.80	3970	2.27	>2500	4410	>1000	11.8	664	29	3740	13.8	37.7	496	3.86
CDN-W-4																
Target Range - Lower Bound																
Upper Bound																
G313-5																
Target Range - Lower Bound																
Upper Bound																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
MRGeo08																
Target Range - Lower Bound																
Upper Bound																
OREAS 252																
Target Range - Lower Bound																
Upper Bound																
OREAS 602																
Target Range - Lower Bound																
Upper Bound																
OREAS-105		6.4	2.40	51.6	0.98	41.3	70.6	16.35	106.0	16.30	10	90.4	4.6	2.06	383	1.08
Target Range - Lower Bound		5.6	2.19	45.8	0.88	36.9	57.8	14.35	94.8	13.30	8	85.3	4.3	1.95	332	1.02
Upper Bound		7.2	2.69	56.2	1.10	45.6	70.8	17.65	116.5	16.30	13	104.5	5.5	2.41	406	1.26
OREAS-45h																
Target Range - Lower Bound																
Upper Bound																
SRM88B		<0.2	0.16	5.2	0.02	0.2	3.7	0.89	2.8	0.56	<1	62.9	<0.1	0.11	0.42	0.07

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QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description / Method / Analyte / Units / LOD	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.1	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.002	ME-ICP06 TiO2 % 0.01
STANDARDS															
AMIS0085	272	22	2	72.5	9.08	169	70.7	11.20	3.48	3.28	1.77	1.69	4.56	0.078	0.21
AMIS0085							72.8	11.10	3.51	3.23	1.76	1.73	4.71	0.078	0.21
Target Range - Lower Bound							69.0	10.60	3.33	3.12	1.64	1.62	4.48	0.068	0.18
Upper Bound							72.1	11.35	3.67	3.44	1.86	1.84	4.90	0.090	0.24
AMIS0185															
Target Range - Lower Bound															
Upper Bound															
AMIS0304	23.2	386	5	401	17.55	1190									
Target Range - Lower Bound	21.6	331	3	369	15.25	1005									
Upper Bound	26.5	415	7	451	18.75	1230									
AMIS0304	24.0	374	5	401	17.30	1185	11.90	1.51	21.1	28.1	2.84	0.08	0.26	0.013	1.71
Target Range - Lower Bound	21.6	331	3	369	15.25	1005	11.90	1.42	20.3	27.7	2.72	0.06	0.25	0.005	1.69
Upper Bound	26.5	415	7	451	18.75	1230	12.75	1.62	21.6	29.3	3.02	0.12	0.31	0.016	1.91
CDN-W-4															
Target Range - Lower Bound															
Upper Bound															
G313-5															
Target Range - Lower Bound															
Upper Bound															
GPP-14															
Target Range - Lower Bound															
Upper Bound															
MRGeo08															
Target Range - Lower Bound															
Upper Bound															
OREAS 252															
Target Range - Lower Bound															
Upper Bound															
OREAS 602															
Target Range - Lower Bound															
Upper Bound															
OREAS-105	580	25	3	63.9	7.40	231	69.9	14.20	2.82	1.44	0.80	4.93	2.26	0.006	0.41
Target Range - Lower Bound	479	19	<1	58.3	6.54	208									
Upper Bound	585	43	5	71.5	8.06	259									
OREAS-45h															
Target Range - Lower Bound															
Upper Bound															
SRM88B	0.25	<5	<1	7.7	0.32	4	1.17	0.33	0.27	30.3	21.3	0.02	0.09	<0.002	0.01

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QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description / Method / Analyte / Units / LOD	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01
STANDARDS						
AMIS0085	0.06	0.07	0.01	0.04		99.69
AMIS0085	0.07	0.05	0.01	0.04		101.84
Target Range - Lower Bound	0.04	0.05	<0.01	0.02		97.99
Upper Bound	0.09	0.10	0.03	0.06		>102.00
AMIS0185					21.1	
Target Range - Lower Bound					20.1	
Upper Bound					22.3	
AMIS0304						
Target Range - Lower Bound						
Upper Bound						
AMIS0304	0.43	18.90	0.41	0.28		95.27
Target Range - Lower Bound	0.41	17.80	0.36	0.25		
Upper Bound	0.51	18.90	0.44	0.31		
CDN-W-4					4.32	
Target Range - Lower Bound					4.08	
Upper Bound					4.53	
G313-5						
Target Range - Lower Bound						
Upper Bound						
GPP-14						
Target Range - Lower Bound						
Upper Bound						
MRGeo08						
Target Range - Lower Bound						
Upper Bound						
OREAS 252						
Target Range - Lower Bound						
Upper Bound						
OREAS 602						
Target Range - Lower Bound						
Upper Bound						
OREAS-105	0.02	0.36	0.01	0.08		97.24
Target Range - Lower Bound						
Upper Bound						
OREAS-45h						
Target Range - Lower Bound						
Upper Bound						
SRM88B	0.01	<0.01	0.01	<0.01		100.21

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QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method Analyte Units LOD	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
STANDARDS																
SRM88B																
Target Range - Lower Bound																
Upper Bound																
SY-4																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		0.002														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
Target Range - Lower Bound			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
Upper Bound			0.4	0.02	4	20	20	1.0	4	0.02	1.0	2	2	2	0.02	20
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL		0.068														
DUP		0.070														
Target Range - Lower Bound		0.065														
Upper Bound		0.073														

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
STANDARDS																
SRM88B																
Target Range - Lower Bound																
Upper Bound																
SY-4																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<1	<0.01	<10	<0.01	<5	<1	0.01	1	<10	<2	0.01	<2	<1	<1	<20
Target Range - Lower Bound		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
Upper Bound		2	0.02	20	0.02	10	2	0.02	2	20	4	0.02	4	2	2	40
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Ti	Tl	U	V	W	Zn	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	10	10	1	10	2	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05
STANDARDS																
SRM88B																
Target Range - Lower Bound																
Upper Bound																
SY-4								352	123.5	10	1.54	18.75	14.50	1.95	39.1	14.70
Target Range - Lower Bound								306	109.5	<10	1.34	16.35	12.75	1.77	33.1	12.55
Upper Bound								375	134.5	30	1.66	20.1	15.65	2.23	40.7	15.45
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<10	<10	<1	<10	<2									
Target Range - Lower Bound		<0.01	<10	<10	<1	<10	<2									
Upper Bound		0.02	20	20	2	20	4									
BLANK								1.1	<0.1	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05
BLANK								0.5	<0.1	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05
Target Range - Lower Bound								<0.5	<0.1	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05
Upper Bound								1.0	0.2	20	0.02	0.10	0.06	0.06	0.2	0.10
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK								32.9	<0.1	<10	0.01	<0.05	<0.03	<0.03	0.1	<0.05
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.2	0.01	0.1	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01
STANDARDS																
SRM88B																
Target Range - Lower Bound																
Upper Bound																
SY-4		12.0	4.53	60.1	2.23	13.8	61.3	15.30	53.7	13.95	8	1260	0.9	2.73	1.42	2.33
Target Range - Lower Bound		9.8	3.86	52.1	1.88	11.5	51.2	13.45	49.3	11.40	6	1070	0.7	2.33	1.11	2.06
Upper Bound		12.4	4.74	63.9	2.32	14.5	62.8	16.55	60.7	14.00	10	1310	1.1	2.87	1.47	2.54
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.2	<0.01	0.2	<0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	0.1	0.1	<0.01	<0.05	<0.01
BLANK		<0.2	<0.01	0.2	0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	<0.1	<0.1	<0.01	<0.05	<0.01
Target Range - Lower Bound		<0.2	<0.01	<0.1	<0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	<0.1	<0.1	<0.01	<0.05	<0.01
Upper Bound		0.4	0.02	0.2	0.02	0.4	0.2	0.06	0.4	0.06	2	0.2	0.2	0.02	0.10	0.02
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.2	<0.01	0.1	<0.01	<0.2	0.1	<0.03	0.2	<0.03	<1	0.8	<0.1	<0.01	<0.05	<0.01
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

***** See Appendix Page for comments regarding this certificate *****

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To: **VICTORY RESOURCES LTD.**
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VANCOUVER BC V7X 1B1

Finalized Date: 12-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%
	LOD	0.05	5	1	0.1	0.03	2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01
STANDARDS																
SRM88B								1.20	0.33	0.29	30.2	21.3	0.02	0.14	<0.002	0.02
Target Range - Lower Bound								1.05	0.30	0.24	29.1	20.4	<0.01	0.08	<0.002	<0.01
Upper Bound								1.21	0.37	0.31	30.8	21.7	0.05	0.13	0.006	0.04
SY-4		1.37	7	<1	120.0	15.25	634									
Target Range - Lower Bound		0.66	<5	<1	107.0	13.30	543									
Upper Bound		0.94	18	3	131.0	16.30	668									
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.05	<5	<1	<0.1	<0.03	<2									
BLANK		<0.05	<5	<1	<0.1	<0.03	<2									
Target Range - Lower Bound		<0.05	<5	<1	<0.1	<0.03	<2									
Upper Bound		0.10	10	2	0.2	0.06	4									
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.05	<5	<1	<0.1	<0.03	<2	0.19	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.002	<0.01
BLANK								<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.002	<0.01
Target Range - Lower Bound								<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01
Upper Bound								0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.004	0.02
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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Finalized Date: 12-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method / Analyte / Units / LOD	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01
STANDARDS							
SRM88B		0.02	<0.01	0.01	<0.01		100.23
Target Range - Lower Bound		<0.01	<0.01	<0.01	<0.01		97.99
Upper Bound		0.04	0.03	0.03	0.03		>102.00
SY-4							
Target Range - Lower Bound							
Upper Bound							
BLANKS							
BLANK							
Target Range - Lower Bound							
Upper Bound							
BLANK							
Target Range - Lower Bound							
Upper Bound							
BLANK							
BLANK							
Target Range - Lower Bound							
Upper Bound							
BLANK						0.01	
Target Range - Lower Bound						<0.01	
Upper Bound						0.02	
BLANK		<0.01	0.01	<0.01	<0.01		0.23
BLANK		<0.01	<0.01	<0.01	<0.01		0.01
Target Range - Lower Bound		<0.01	<0.01	<0.01	<0.01		
Upper Bound		0.02	0.02	0.02	0.02		
DUPLICATES							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							

***** See Appendix Page for comments regarding this certificate *****

QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description / Method	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOD	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
DUPLICATES															
021629	0.002														
DUP	0.002														
Target Range - Lower Bound	<0.001														
Upper Bound	0.003														
021634		0.4	1.27	3	<10	80	<0.5	<2	0.36	<0.5	43	90	85	6.61	10
DUP		0.5	1.35	2	<10	80	<0.5	<2	0.38	<0.5	45	94	89	6.95	10
Target Range - Lower Bound		<0.2	1.23	<2	<10	60	<0.5	<2	0.34	<0.5	41	86	83	6.43	<10
Upper Bound		0.7	1.39	4	20	100	1.0	4	0.40	1.0	47	98	91	7.13	20
021644															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															

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QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description / **Method**	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOD	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
DUPLICATES															
021629															
DUP															
Target Range - Lower Bound															
Upper Bound															
021634	1	0.16	<10	0.89	483	3	0.03	24	1100	2	0.21	2	11	45	<20
DUP	<1	0.17	<10	0.94	517	3	0.03	25	1150	<2	0.22	5	12	47	<20
Target Range - Lower Bound	<1	0.15	<10	0.86	470	2	0.02	22	1060	<2	0.19	<2	10	43	<20
Upper Bound	2	0.18	20	0.97	530	4	0.04	27	1190	4	0.24	4	13	49	40
021644															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															

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Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method / Analyte / Units / LOD	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.1	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05
DUPLICATES																
021629																
DUP																
Target Range - Lower Bound																
Upper Bound																
021634		0.03	<10	<10	122	<10	49									
DUP		0.03	<10	<10	129	<10	52									
Target Range - Lower Bound		0.02	<10	<10	118	<10	46									
Upper Bound		0.04	20	20	133	20	55									
021644								1260	14.0	150	1.04	2.93	1.58	0.87	17.9	2.96
DUP								1235	14.3	160	0.98	2.89	1.79	0.78	18.6	2.91
Target Range - Lower Bound								1185	13.3	140	0.95	2.71	1.57	0.75	17.2	2.74
Upper Bound								1310	15.0	170	1.07	3.11	1.80	0.90	19.3	3.13
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL								136.0	23.9	10	3.86	2.69	1.94	0.86	17.9	2.71
DUP								141.0	24.0	20	3.90	2.74	1.96	0.91	17.5	3.07
Target Range - Lower Bound								131.0	22.7	<10	3.68	2.53	1.82	0.81	16.7	2.70
Upper Bound								146.0	25.2	20	4.08	2.90	2.08	0.96	18.7	3.08
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL								40.5	30.4	50	0.09	2.96	1.70	1.25	26.8	4.13
DUP								40.4	30.0	50	0.05	2.78	1.59	1.23	25.7	4.12
Target Range - Lower Bound								37.9	28.6	40	0.06	2.68	1.53	1.15	24.8	3.87
Upper Bound								43.0	31.8	60	0.08	3.06	1.76	1.33	27.7	4.38

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Finalized Date: 12-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.2	0.01	0.1	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01
DUPLICATES																
021629																
DUP																
Target Range - Lower Bound																
Upper Bound																
021634																
DUP																
Target Range - Lower Bound																
Upper Bound																
021644		1.3	0.59	6.6	0.22	1.4	10.4	2.04	42.7	3.09	1	453	0.1	0.41	1.48	0.26
DUP		1.3	0.57	6.6	0.23	1.5	10.1	2.16	44.0	2.93	1	458	0.1	0.46	1.44	0.23
Target Range - Lower Bound		1.0	0.54	6.2	0.20	1.2	9.6	1.97	41.0	2.83	<1	433	<0.1	0.40	1.34	0.22
Upper Bound		1.6	0.62	7.0	0.25	1.7	10.9	2.24	45.7	3.19	2	478	0.2	0.47	1.58	0.27
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		1.6	0.54	10.7	0.29	5.5	13.8	3.14	20.5	3.14	<1	180.5	0.3	0.41	1.22	0.30
DUP		1.5	0.56	10.4	0.30	5.3	13.5	3.24	20.6	3.17	<1	182.0	0.3	0.42	1.14	0.24
Target Range - Lower Bound		1.3	0.51	9.9	0.27	4.9	12.9	3.00	19.3	2.97	<1	172.0	0.2	0.38	1.07	0.25
Upper Bound		1.8	0.59	11.2	0.32	5.9	14.4	3.38	21.8	3.34	2	190.5	0.4	0.45	1.29	0.29
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		1.8	0.58	15.6	0.24	2.1	17.9	4.05	1.2	4.17	1	3610	0.2	0.55	1.71	0.25
DUP		1.6	0.61	15.0	0.23	2.1	17.3	4.01	1.1	4.04	1	3580	0.2	0.52	1.60	0.24
Target Range - Lower Bound		1.4	0.56	14.4	0.21	1.8	16.6	3.80	0.9	3.87	<1	3420	<0.1	0.50	1.52	0.22
Upper Bound		2.0	0.63	16.2	0.26	2.4	18.6	4.26	1.4	4.34	2	3770	0.3	0.57	1.79	0.27

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QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%
	LOD	0.05	5	1	0.1	0.03	2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01
DUPLICATES																
021629																
DUP																
Target Range - Lower Bound																
Upper Bound																
021634																
DUP																
Target Range - Lower Bound																
Upper Bound																
021644		0.65	313	1	15.8	1.53	42	48.5	13.45	12.20	11.45	7.46	1.77	2.09	0.022	0.73
DUP		0.63	322	1	15.8	1.46	43	48.3	13.35	12.15	11.30	7.44	1.77	2.08	0.022	0.72
Target Range - Lower Bound		0.56	297	<1	14.9	1.39	38	47.2	13.05	11.85	11.10	7.25	1.72	2.02	0.019	0.70
Upper Bound		0.72	338	2	16.7	1.60	47	49.6	13.75	12.50	11.65	7.65	1.82	2.15	0.025	0.75
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		0.44	250	1	15.8	1.89	56									
DUP		0.30	247	1	15.6	1.96	57									
Target Range - Lower Bound		0.30	231	<1	14.8	1.80	52									
Upper Bound		0.44	266	2	16.6	2.05	61									
ORIGINAL								47.6	16.50	9.39	6.22	5.35	3.72	1.46	0.003	0.76
DUP								47.4	16.40	9.36	6.16	5.32	3.73	1.46	0.003	0.75
Target Range - Lower Bound								46.3	16.05	9.13	6.03	5.19	3.62	1.41	<0.002	0.73
Upper Bound								48.7	16.85	9.62	6.35	5.48	3.83	1.51	0.004	0.78
ORIGINAL		0.67	302	1	16.3	1.61	60									
DUP		0.68	303	<1	16.2	1.63	59									
Target Range - Lower Bound		0.59	282	<1	15.3	1.51	55									
Upper Bound		0.76	323	2	17.2	1.73	64									

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QC CERTIFICATE OF ANALYSIS VA19204072

Sample Description	Method / Analyte / Units / LOD	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01
		DUPLICATES					
021629							
DUP							
Target Range - Lower Bound							
Upper Bound							
021634							
DUP							
Target Range - Lower Bound							
Upper Bound							
021644		0.20	0.39	0.05	0.13		
DUP		0.19	0.40	0.05	0.13		
Target Range - Lower Bound		0.18	0.38	0.04	0.12		
Upper Bound		0.21	0.41	0.06	0.14		
ORIGINAL						14.75	
DUP						14.85	
Target Range - Lower Bound						14.40	
Upper Bound						15.20	
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL		0.28	0.36	0.14	0.07		
DUP		0.28	0.38	0.14	0.07		
Target Range - Lower Bound		0.26	0.35	0.13	0.06		
Upper Bound		0.30	0.39	0.15	0.08		
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							

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QC CERTIFICATE OF ANALYSIS VA19204072

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au-ICP21	CRU-31	CRU-QC	DISP-01
LOG-21	LOG-23	ME-ICP06	ME-ICP41
ME-MS81	OA-GRA05	PUL-31	SPL-21
TOT-ICP06	WEI-21		

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Finalized Date: 30-AUG-2019
This copy reported on
23-SEP-2019
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VA19208565

Project: Mal-Wen

This report is for 7 Soil samples submitted to our lab in Vancouver, BC, Canada on 16-AUG-2019.

The following have access to data associated with this certificate:

VICTORY RESOURCES		

SAMPLE PREPARATION

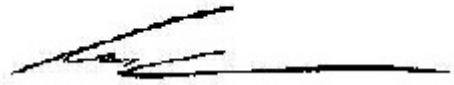
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SCR-41	Screen to -180um and save both
DISP-01	Disposal of all sample fractions

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
AuME-TL43	25g Trace Au + Multi Element PKG

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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To: **VICTORY RESOURCES LTD.**
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VANCOUVER BC V7X 1B1

Finalized Date: 30-AUG-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19208565

Sample Description	Method	WEI-21	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
039701		0.92	0.001	0.03	1.04	1.2	10	70	0.22	0.14	0.55	0.04	13.35	7.3	27	0.93
039702		0.50	<0.001	0.08	1.20	1.4	10	100	0.23	0.11	0.22	0.05	6.44	4.9	16	0.84
039703		0.56	0.008	0.06	0.61	5.8	10	60	0.16	0.10	1.45	0.08	11.00	8.5	27	0.86
039704		0.36	0.010	0.07	0.69	6.1	10	60	0.18	0.14	1.62	0.09	11.90	9.3	29	0.88
039705		0.50	0.005	0.09	1.62	5.0	10	80	0.41	0.18	0.51	0.05	18.20	13.0	47	1.93
039706		0.38	0.005	0.06	1.72	3.6	10	80	0.39	0.11	0.47	0.05	12.20	11.8	40	1.55
039707		0.32	0.001	0.13	2.48	3.8	10	140	0.59	0.11	0.31	0.11	18.00	11.2	24	1.98

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Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
039701		14.5	2.04	5.01	0.07	0.04	0.01	0.011	0.18	8.2	8.2	0.54	189	0.35	0.01	0.20
039702		8.0	1.46	5.24	<0.05	0.05	0.01	0.011	0.09	3.1	8.9	0.28	222	0.30	0.01	0.46
039703		54.6	1.86	2.62	0.07	0.10	0.03	0.009	0.06	5.9	3.8	0.38	307	0.38	0.02	0.08
039704		57.2	2.01	2.98	0.08	0.09	0.03	0.009	0.06	6.3	4.2	0.42	327	0.39	0.02	0.08
039705		57.4	2.86	6.28	0.09	0.08	0.02	0.017	0.15	9.6	11.2	0.77	283	0.48	0.02	0.19
039706		70.6	2.92	6.17	0.06	0.09	0.02	0.014	0.14	7.7	10.3	0.79	290	0.41	0.02	0.16
039707		77.8	2.43	7.64	0.05	0.12	0.02	0.018	0.11	8.0	13.6	0.54	268	0.33	0.02	0.46

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CERTIFICATE OF ANALYSIS VA19208565

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
039701		15.3	1430	2.1	17.1	<0.001	<0.01	0.15	2.4	<0.2	0.3	42.5	<0.01	0.02	3.1	0.087
039702		10.7	900	3.3	9.0	<0.001	<0.01	0.09	1.4	0.2	0.4	19.6	<0.01	0.01	1.3	0.061
039703		15.7	1070	1.9	2.8	<0.001	<0.01	0.41	2.8	0.2	0.2	52.0	<0.01	0.09	1.4	0.055
039704		16.6	1100	2.0	3.3	<0.001	<0.01	0.40	3.2	0.3	0.2	59.5	<0.01	0.09	1.5	0.064
039705		30.1	750	3.2	14.7	<0.001	<0.01	0.30	6.4	0.3	0.4	60.9	<0.01	0.06	2.9	0.120
039706		22.5	810	2.6	11.2	<0.001	<0.01	0.26	6.7	0.2	0.3	41.3	<0.01	0.04	1.9	0.107
039707		18.9	1560	4.2	11.1	<0.001	<0.01	0.18	5.3	0.4	0.6	30.9	<0.01	0.03	2.2	0.093

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CERTIFICATE OF ANALYSIS VA19208565

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.05	0.05	2	0.5
039701		0.09	0.58	51	0.10	2.46	38	2.2
039702		0.04	0.26	31	0.06	1.13	47	2.2
039703		0.03	0.25	57	0.48	5.02	23	3.4
039704		0.04	0.27	62	0.29	5.50	25	3.6
039705		0.10	0.65	82	0.10	7.23	39	5.5
039706		0.07	0.61	83	0.12	7.70	36	5.1
039707		0.07	0.70	52	0.10	8.00	60	11.5

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Finalized Date: 30-AUG-2019
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Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19208565

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
AuME-TL43	DISP-01	LOG-21	SCR-41
WEI-21			

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Finalized Date: 30-AUG-2019
This copy reported on
23-SEP-2019
Account: VIRELIT

VA19208565

Project: Mal-Wen

This report is for 7 Soil samples submitted to our lab in Vancouver, BC, Canada on 16-AUG-2019.

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VICTORY RESOURCES		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SCR-41	Screen to -180um and save both
DISP-01	Disposal of all sample fractions

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
AuME-TL43	25g Trace Au + Multi Element PKG

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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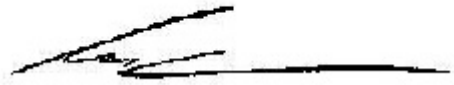
Signature: 

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Finalized Date: 30-AUG-2019
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Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19208565

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	0.2
STANDARDS																
MRGeo08		0.004	4.67	2.52	35.3	10	170	0.93	0.63	0.95	2.37	72.0	20.1	86	10.50	647
Target Range - Lower Bound		0.002	4.00	2.23	29.6	<10	100	0.67	0.58	0.86	2.01	66.2	17.0	79	9.45	587
Upper Bound		0.006	4.92	2.75	36.4	30	160	0.95	0.73	1.08	2.47	81.0	21.0	98	11.65	675
OREAS-218		0.548	0.16	3.28	5.5	40	10	0.19	0.05	2.04	0.09	6.48	31.6	71	0.12	162.0
Target Range - Lower Bound		0.450	0.13	<0.01	4.7	<10	<10	0.06	0.03	1.91	0.07	5.62	29.5	68	<0.05	148.5
Upper Bound		0.612	0.19	0.02	6.0	50	40	0.28	0.07	2.35	0.12	6.92	36.3	85	0.23	171.5
BLANKS																
BLANK		<0.001	<0.01	<0.01	<0.1	10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Target Range - Lower Bound		<0.001	<0.01	<0.01	<0.1	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Upper Bound		0.002	0.02	0.02	0.2	20	20	0.10	0.02	0.02	0.02	0.04	0.2	2	0.10	0.4
DUPLICATES																
039707		0.001	0.13	2.48	3.8	10	140	0.59	0.11	0.31	0.11	18.00	11.2	24	1.98	77.8
DUP		0.001	0.13	2.40	3.8	10	130	0.57	0.10	0.30	0.11	17.45	10.7	24	1.89	74.7
Target Range - Lower Bound		<0.001	0.11	2.31	3.5	<10	110	0.50	0.09	0.28	0.09	16.80	10.3	22	1.79	73.4
Upper Bound		0.002	0.15	2.57	4.1	20	160	0.66	0.12	0.33	0.13	18.65	11.6	26	2.08	79.1

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QC CERTIFICATE OF ANALYSIS VA19208565

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05	0.2
STANDARDS																
MRGeo08		3.63	10.20	0.15	0.53	0.06	0.165	1.26	36.1	34.1	1.10	355	15.90	0.31	0.32	725
Target Range - Lower Bound		3.22	8.73	<0.05	0.41	0.03	0.137	1.12	32.4	29.1	1.01	336	13.05	0.27	0.22	622
Upper Bound		3.96	10.80	0.24	0.55	0.09	0.179	1.40	40.0	35.7	1.25	422	16.10	0.35	0.46	761
OREAS-218		5.78	11.70	0.17	0.24	0.04	0.024	0.03	2.4	10.3	1.81	567	0.74	0.06	<0.05	69.5
Target Range - Lower Bound		5.20	10.55	<0.05	0.15	0.02	0.013	<0.01	1.9	8.5	1.72	528	0.57	0.04	<0.05	58.3
Upper Bound		6.38	13.00	0.27	0.25	0.06	0.035	0.05	3.0	10.7	2.12	656	0.84	0.09	0.12	71.7
BLANKS																
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Upper Bound		0.02	0.10	0.10	0.04	0.02	0.010	0.02	0.4	0.2	0.02	10	0.10	0.02	0.10	0.4
DUPLICATES																
039707		2.43	7.64	0.05	0.12	0.02	0.018	0.11	8.0	13.6	0.54	268	0.33	0.02	0.46	18.9
DUP		2.36	7.26	0.05	0.13	0.02	0.019	0.10	7.6	12.8	0.53	265	0.32	0.02	0.45	18.0
Target Range - Lower Bound		2.27	7.03	<0.05	0.10	<0.01	0.013	0.09	7.2	12.4	0.50	248	0.26	<0.01	0.38	17.3
Upper Bound		2.52	7.87	0.10	0.15	0.03	0.024	0.12	8.4	14.0	0.57	285	0.39	0.03	0.53	19.6

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QC CERTIFICATE OF ANALYSIS VA19208565

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005	0.02
STANDARDS																
MRGeo08		970	1045	148.0	0.009	0.28	2.87	7.4	1.0	3.5	74.3	0.01	0.02	21.0	0.317	0.78
Target Range - Lower Bound			946	132.0	0.006	0.27	2.10	6.5	0.6	2.8	66.6	<0.01	<0.01	19.1	0.277	0.64
Upper Bound			1155	162.0	0.010	0.35	2.96	8.1	1.5	4.0	81.8	0.03	0.04	23.8	0.349	0.92
OREAS-218		380	2.9	1.2	0.002	0.13	0.19	6.0	0.6	0.5	19.2	<0.01	0.04	0.2	0.245	<0.02
Target Range - Lower Bound		<10	2.3	0.9	<0.001	0.12	0.06	5.4	<0.2	<0.2	<0.2	<0.01	0.03	<0.2	0.211	<0.02
Upper Bound		20	3.3	1.4	0.004	0.18	0.29	6.9	0.8	0.8	0.4	0.03	0.07	0.7	0.269	0.06
BLANKS																
BLANK		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Target Range - Lower Bound		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Upper Bound		20	0.4	0.2	0.002	0.02	0.10	0.2	0.4	0.4	0.4	0.02	0.02	0.4	0.010	0.04
DUPLICATES																
039707		1560	4.2	11.1	<0.001	<0.01	0.18	5.3	0.4	0.6	30.9	<0.01	0.03	2.2	0.093	0.07
DUP		1560	4.1	10.7	<0.001	<0.01	0.16	5.0	0.2	0.6	29.4	<0.01	0.03	2.0	0.088	0.07
Target Range - Lower Bound		1470	3.7	10.3	<0.001	<0.01	0.11	4.8	<0.2	0.4	28.4	<0.01	0.02	1.8	0.081	0.04
Upper Bound		1650	4.6	11.5	0.002	0.02	0.23	5.5	0.4	0.8	31.9	0.02	0.04	2.4	0.100	0.10

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Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19208565

Sample Description	Method Analyte Units LOD	AuME-TL43 U ppm 0.05	AuME-TL43 V ppm 1	AuME-TL43 W ppm 0.05	AuME-TL43 Y ppm 0.05	AuME-TL43 Zn ppm 2	AuME-TL43 Zr ppm 0.5
STANDARDS							
MRGeo08		5.22	93	2.15	19.00	730	18.1
Target Range - Lower Bound		4.93	88	1.79	16.90	678	13.5
Upper Bound		6.13	109	2.53	20.8	833	19.5
OREAS-218		0.05	129	0.54	12.90	63	10.7
Target Range - Lower Bound		<0.05	124	0.35	11.45	56	7.1
Upper Bound		0.16	153	0.64	14.10	73	10.9
BLANKS							
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5
Target Range - Lower Bound		<0.05	<1	<0.05	<0.05	<2	<0.5
Upper Bound		0.10	2	0.10	0.10	4	1.0
DUPLICATES							
039707		0.70	52	0.10	8.00	60	11.5
DUP		0.67	50	0.10	7.77	59	11.7
Target Range - Lower Bound		0.60	47	<0.05	7.44	55	10.2
Upper Bound		0.77	55	0.16	8.33	64	13.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **VICTORY RESOURCES LTD.**
SIUITE 734
1055 DUNSMIR STREET
VANCOUVER BC V7X 1B1

Finalized Date: 30-AUG-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19208565

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
AuME-TL43	DISP-01	LOG-21	SCR-41
WEI-21			

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1055 DUNSMIR STREET
VANCOUVER BC V7X 1B1

Finalized Date: 18-SEP-2019
This copy reported on
23-SEP-2019
Account: VIRELIT

VA19220856

Project: Mal-Wen

This report is for 1 Rock sample submitted to our lab in Vancouver, BC, Canada on 3-SEP-2019.

The following have access to data associated with this certificate:

VICTORY RESOURCES		

SAMPLE PREPARATION

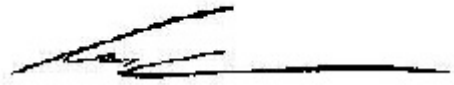
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
DISP-01	Disposal of all sample fractions

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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VANCOUVER BC V7X 1B1

Finalized Date: 18-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
039715		1.80	0.006	0.4	1.37	4	<10	40	<0.5	<2	3.25	<0.5	13	13	167	3.16

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Finalized Date: 18-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
039715		10	<1	0.06	<10	1.38	539	<1	0.02	10	1910	<2	0.06	2	5	152

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Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Th	Ti	Tl	U	V	W	Zn	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	20	0.01	10	10	1	10	2	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1
039715		<20	0.20	<10	10	122	<10	46	1590	16.8	30	0.62	2.95	1.80	0.95	17.6

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Finalized Date: 18-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Gd	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	0.01	0.1	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05
039715		3.26	1.3	0.58	8.1	0.23	1.4	12.1	2.36	43.7	2.92	1	826	0.2	0.48	1.79

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Finalized Date: 18-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%
	LOD	0.01	0.05	5	1	0.1	0.03	2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002
039715		0.24	1.25	367	1	14.8	1.56	42	47.7	14.30	9.92	11.30	5.12	1.98	3.24	0.005

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Finalized Date: 18-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method / Analyte / Units / LOD	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01
039715		0.67	0.18	0.47	0.09	0.17	4.60	99.75

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VANCOUVER BC V7X 1B1

Finalized Date: 18-SEP-2019
Account: VIRELIT

Project: Mal-Wen

CERTIFICATE OF ANALYSIS VA19220856

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au-ICP21	CRU-31	DISP-01	LOG-21
ME-ICP06	ME-ICP41	ME-MS81	OA-GRA05
PUL-31	SPL-21	TOT-ICP06	WEI-21

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VANCOUVER BC V7X 1B1

Finalized Date: 18-SEP-2019
This copy reported on
23-SEP-2019
Account: VIRELIT

VA19220856

Project: Mal-Wen

This report is for 1 Rock sample submitted to our lab in Vancouver, BC, Canada on 3-SEP-2019.

The following have access to data associated with this certificate:

VICTORY RESOURCES		

SAMPLE PREPARATION

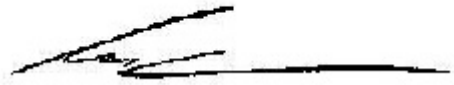
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
DISP-01	Disposal of all sample fractions

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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VANCOUVER BC V7X 1B1

Finalized Date: 18-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method Analyte Units LOD	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
STANDARDS																
AMIS0085																
Target Range - Lower Bound																
Upper Bound																
AMIS0167																
Target Range - Lower Bound																
Upper Bound																
AMIS0304																
Target Range - Lower Bound																
Upper Bound																
AMIS0547																
Target Range - Lower Bound																
Upper Bound																
CDN-W-4																
Target Range - Lower Bound																
Upper Bound																
G313-5		7.23														
Target Range - Lower Bound		6.64														
Upper Bound		7.50														
GPP-14		0.909														
Target Range - Lower Bound		0.853														
Upper Bound		0.965														
MRGeo08			4.4	2.52	31	<10	430	0.7	<2	1.07	2.1	19	89	614	3.54	10
Target Range - Lower Bound			3.8	2.44	27	<10	370	<0.5	<2	1.00	1.1	16	81	586	3.22	<10
Upper Bound			5.1	3.00	39	20	530	1.9	5	1.24	3.4	22	102	676	3.96	30
OREAS 252		0.671														
Target Range - Lower Bound		0.633														
Upper Bound		0.715														
OREAS 602			>100	0.60	669	<10	30	<0.5	60	0.53	24.8	10	29	5140	2.03	<10
Target Range - Lower Bound			106.0	0.57	577	<10	<10	<0.5	50	0.46	22.2	7	26	4810	1.94	<10
Upper Bound			100.0	0.71	709	20	50	1.3	66	0.59	28.2	12	34	5530	2.40	30
OREAS-105																
Target Range - Lower Bound																
Upper Bound																
OREAS-14P																
Target Range - Lower Bound																
Upper Bound																
OREAS-45h		0.040														

***** See Appendix Page for comments regarding this certificate *****

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To: **VICTORY RESOURCES LTD.**
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1055 DUNSMIR STREET
VANCOUVER BC V7X 1B1

Finalized Date: 18-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
STANDARDS																
AMIS0085																
Target Range - Lower Bound																
Upper Bound																
AMIS0167																
Target Range - Lower Bound																
Upper Bound																
AMIS0304																
Target Range - Lower Bound																
Upper Bound																
AMIS0547																
Target Range - Lower Bound																
Upper Bound																
CDN-W-4																
Target Range - Lower Bound																
Upper Bound																
G313-5																
Target Range - Lower Bound																
Upper Bound																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		<1	1.23	30	1.13	416	13	0.33	676	980	1050	0.28	6	7	75	20
Target Range - Lower Bound		<1	1.12	20	1.03	378	12	0.30	621	900	957	0.27	<2	5	71	<20
Upper Bound		2	1.40	60	1.29	473	17	0.39	761	1130	1175	0.35	8	10	89	60
OREAS 252																
Target Range - Lower Bound																
Upper Bound																
OREAS 602		1	0.09	10	0.10	218	4	0.02	59	230	837	1.92	54	1	47	<20
Target Range - Lower Bound		<1	0.07	<10	0.08	193	2	<0.01	54	210	768	1.81	51	<1	44	<20
Upper Bound		3	0.12	30	0.13	247	7	0.05	68	280	944	2.23	73	3	56	40
OREAS-105																
Target Range - Lower Bound																
Upper Bound																
OREAS-14P																
Target Range - Lower Bound																
Upper Bound																
OREAS-45h																

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Finalized Date: 18-SEP-2019
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Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Ti	Tl	U	V	W	Zn	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	10	10	1	10	2	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05
STANDARDS																
AMIS0085								378	76.1	600	4.41	12.15	8.67	0.86	14.3	7.69
Target Range - Lower Bound																
Upper Bound																
AMIS0167																
Target Range - Lower Bound																
Upper Bound																
AMIS0304								2740	8520	100	0.41	141.5	36.7	148.0	51.0	364
Target Range - Lower Bound								2340	7280	70	0.35	119.0	30.6	135.0	47.8	309
Upper Bound								2860	8900	120	0.45	145.5	37.4	165.0	58.7	377
AMIS0547																
Target Range - Lower Bound																
Upper Bound																
CDN-W-4																
Target Range - Lower Bound																
Upper Bound																
G313-5																
Target Range - Lower Bound																
Upper Bound																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		0.37	<10	<10	97	<10	773									
Target Range - Lower Bound		0.33	<10	<10	90	<10	708									
Upper Bound		0.43	20	30	112	20	870									
OREAS 252																
Target Range - Lower Bound																
Upper Bound																
OREAS 602		0.01	<10	<10	10	<10	3930									
Target Range - Lower Bound		<0.01	<10	<10	8	<10	3680									
Upper Bound		0.03	20	20	14	20	4500									
OREAS-105								705	115.0	50	2.11	12.95	7.56	1.35	26.1	13.25
Target Range - Lower Bound								632	105.0	40	1.96	10.95	6.72	1.32	24.3	11.65
Upper Bound								774	129.0	80	2.42	13.45	8.28	1.68	29.9	14.35
OREAS-14P																
Target Range - Lower Bound																
Upper Bound																
OREAS-45h																

***** See Appendix Page for comments regarding this certificate *****

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To: **VICTORY RESOURCES LTD.**
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Finalized Date: 18-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.2	0.01	0.1	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01
STANDARDS																
AMIS0085		5.1	2.69	39.0	1.43	11.5	30.4	8.43	231	7.10	3	105.0	1.8	1.60	54.6	1.36
Target Range - Lower Bound																
Upper Bound																
AMIS0167																
Target Range - Lower Bound																
Upper Bound																
AMIS0304		28.6	18.50	3510	2.00	>2500	4220	>1000	10.5	621	25	3530	13.3	35.2	445	3.47
Target Range - Lower Bound		25.0	16.20	3250	1.84	4670	3610	925	9.3	543	22	3060	11.1	30.8	406	3.14
Upper Bound		31.0	19.80	3970	2.27	>2500	4410	>1000	11.8	664	29	3740	13.8	37.7	496	3.86
AMIS0547																
Target Range - Lower Bound																
Upper Bound																
CDN-W-4																
Target Range - Lower Bound																
Upper Bound																
G313-5																
Target Range - Lower Bound																
Upper Bound																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
MRGeo08																
Target Range - Lower Bound																
Upper Bound																
OREAS 252																
Target Range - Lower Bound																
Upper Bound																
OREAS 602																
Target Range - Lower Bound																
Upper Bound																
OREAS-105		6.7	2.56	48.1	1.02	41.3	65.9	15.05	104.5	14.70	9	88.7	4.6	1.99	365	1.14
Target Range - Lower Bound		5.6	2.19	45.8	0.88	36.9	57.8	14.35	94.8	13.30	8	85.3	4.3	1.95	332	1.02
Upper Bound		7.2	2.69	56.2	1.10	45.6	70.8	17.65	116.5	16.30	13	104.5	5.5	2.41	406	1.26
OREAS-14P																
Target Range - Lower Bound																
Upper Bound																
OREAS-45h																

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To: **VICTORY RESOURCES LTD.**
SIUITE 734
1055 DUNSMIR STREET
VANCOUVER BC V7X 1B1

Finalized Date: 18-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%
	LOD	0.05	5	1	0.1	0.03	2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01
STANDARDS																
AMIS0085		265	35	2	71.4	9.55	167									
Target Range - Lower Bound																
Upper Bound																
AMIS0167								92.3	2.40	3.39	0.14	0.24	0.08	0.49	0.057	0.14
Target Range - Lower Bound								89.6	2.29	3.28	0.10	0.21	0.06	0.45	0.049	0.12
Upper Bound								93.3	2.55	3.62	0.16	0.27	0.12	0.55	0.067	0.18
AMIS0304		24.0	378	5	416	16.90	1205									
Target Range - Lower Bound		21.6	331	3	369	15.25	1005									
Upper Bound		26.5	415	7	451	18.75	1230									
AMIS0547																
Target Range - Lower Bound																
Upper Bound																
CDN-W-4																
Target Range - Lower Bound																
Upper Bound																
G313-5																
Target Range - Lower Bound																
Upper Bound																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
MRGeo08																
Target Range - Lower Bound																
Upper Bound																
OREAS 252																
Target Range - Lower Bound																
Upper Bound																
OREAS 602																
Target Range - Lower Bound																
Upper Bound																
OREAS-105		549	31	3	63.5	7.28	238									
Target Range - Lower Bound		479	19	<1	58.3	6.54	208									
Upper Bound		585	43	5	71.5	8.06	259									
OREAS-14P								19.60	4.36	51.6	1.36	0.48	0.78	1.08	0.007	0.40
Target Range - Lower Bound								19.20	4.07	51.8	1.30	0.42	0.72	0.97	0.003	0.37
Upper Bound								20.4	4.47	54.3	1.48	0.51	0.84	1.12	0.014	0.45
OREAS-45h																

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Finalized Date: 18-SEP-2019
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Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method / Analyte / Units / LOD	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01
STANDARDS							
AMIS0085							
	Target Range - Lower Bound						
	Upper Bound						
AMIS0167		0.02	0.02	<0.01	0.01		100.91
	Target Range - Lower Bound	<0.01	<0.01	<0.01	<0.01		97.99
	Upper Bound	0.04	0.05	0.02	0.02		>102.00
AMIS0304							
	Target Range - Lower Bound						
	Upper Bound						
AMIS0547						38.4	
	Target Range - Lower Bound					36.6	
	Upper Bound					40.4	
CDN-W-4						4.34	
	Target Range - Lower Bound					4.08	
	Upper Bound					4.53	
G313-5							
	Target Range - Lower Bound						
	Upper Bound						
GPP-14							
	Target Range - Lower Bound						
	Upper Bound						
MRGeo08							
	Target Range - Lower Bound						
	Upper Bound						
OREAS 252							
	Target Range - Lower Bound						
	Upper Bound						
OREAS 602							
	Target Range - Lower Bound						
	Upper Bound						
OREAS-105							
	Target Range - Lower Bound						
	Upper Bound						
OREAS-14P		0.07	0.12	0.01	0.04		95.33
	Target Range - Lower Bound	0.05	0.10	<0.01	<0.01		97.99
	Upper Bound	0.11	0.16	0.03	0.06		>102.00
OREAS-45h							

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QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
STANDARDS																
Target Range - Lower Bound																
Upper Bound																
SRM88B																
Target Range - Lower Bound																
Upper Bound																
SY-4																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	1	<0.01	<10
Target Range - Lower Bound			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
Upper Bound			0.4	0.02	4	20	20	1.0	4	0.02	1.0	2	2	2	0.02	20
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
STANDARDS																
Target Range - Lower Bound																
Upper Bound																
SRM88B																
Target Range - Lower Bound																
Upper Bound																
SY-4																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<1	<0.01	<10	<0.01	<5	<1	<0.01	1	<10	<2	<0.01	<2	<1	<1	<20
Target Range - Lower Bound		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
Upper Bound		2	0.02	20	0.02	10	2	0.02	2	20	4	0.02	4	2	2	40
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Ti	Tl	U	V	W	Zn	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	10	10	1	10	2	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05
STANDARDS																
Target Range - Lower Bound																
Upper Bound																
SRM88B								4.9	3.7	<10	0.15	0.68	0.43	0.11	0.4	0.62
Target Range - Lower Bound																
Upper Bound																
SY-4																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<10	<10	<1	<10	<2									
Target Range - Lower Bound		<0.01	<10	<10	<1	<10	<2									
Upper Bound		0.02	20	20	2	20	4									
BLANK								<0.5	<0.1	<10	0.01	<0.05	<0.03	<0.03	<0.1	<0.05
Target Range - Lower Bound								<0.5	<0.1	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05
Upper Bound								1.0	0.2	20	0.02	0.10	0.06	0.06	0.2	0.10
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.2	0.01	0.1	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01
STANDARDS																
Target Range - Lower Bound																
Upper Bound																
SRM88B		<0.2	0.14	5.0	0.04	0.3	3.2	0.83	2.9	0.45	<1	62.9	0.1	0.09	0.39	0.07
Target Range - Lower Bound																
Upper Bound																
SY-4																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.2	<0.01	<0.1	<0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	<0.1	0.1	<0.01	<0.05	<0.01
Target Range - Lower Bound		<0.2	<0.01	<0.1	<0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	<0.1	<0.1	<0.01	<0.05	<0.01
Upper Bound		0.4	0.02	0.2	0.02	0.4	0.2	0.06	0.4	0.06	2	0.2	0.2	0.02	0.10	0.02
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%
	LOD	0.05	5	1	0.1	0.03	2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01
STANDARDS																
Target Range - Lower Bound																
Upper Bound																
SRM88B		0.25	<5	<1	7.7	0.34	5									
Target Range - Lower Bound																
Upper Bound																
SY-4								49.9	20.4	6.17	7.95	0.53	7.11	1.64	<0.002	0.28
Target Range - Lower Bound								48.7	20.1	5.95	7.74	0.49	6.81	1.56	<0.002	0.25
Upper Bound								51.1	21.3	6.47	8.36	0.59	7.39	1.76	0.005	0.32
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.05	<5	<1	<0.1	<0.03	<2									
Target Range - Lower Bound		<0.05	<5	<1	<0.1	<0.03	<2									
Upper Bound		0.10	10	2	0.2	0.06	4									
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK								<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01
Target Range - Lower Bound								<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01
Upper Bound								0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.004	0.02
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description / Method / Analyte / Units / LOD	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01
STANDARDS						
Target Range - Lower Bound						
Upper Bound						
SRM88B						
Target Range - Lower Bound						
Upper Bound						
SY-4	0.11	0.11	0.14	0.04		98.94
Target Range - Lower Bound	0.08	0.10	0.11	<0.01		97.99
Upper Bound	0.13	0.16	0.17	0.06		>102.00
BLANKS						
BLANK						
Target Range - Lower Bound						
Upper Bound						
BLANK						
Target Range - Lower Bound						
Upper Bound						
BLANK						
Target Range - Lower Bound						
Upper Bound						
BLANK					0.02	
Target Range - Lower Bound					<0.01	
Upper Bound					0.02	
BLANK	<0.01	<0.01	<0.01	<0.01		<0.01
Target Range - Lower Bound	<0.01	<0.01	<0.01	<0.01		
Upper Bound	0.02	0.02	0.02	0.02		
DUPLICATES						
ORIGINAL					1.31	
DUP					1.32	
Target Range - Lower Bound					1.27	
Upper Bound					1.36	

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QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		0.007														
DUP		0.008														
Target Range - Lower Bound		0.006														
Upper Bound		0.009														
ORIGINAL			1.2	2.13	24	<10	780	0.6	<2	1.44	3.5	18	24	38	4.96	10
DUP			1.2	2.17	23	<10	780	0.6	<2	1.42	3.3	18	24	38	4.92	10
Target Range - Lower Bound			0.9	2.03	20	<10	710	<0.5	<2	1.35	2.7	16	22	36	4.68	<10
Upper Bound			1.5	2.27	27	20	850	1.0	4	1.51	4.1	20	26	40	5.20	20
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		0.369														
DUP		0.382														
Target Range - Lower Bound		0.356														
Upper Bound		0.395														

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QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		1	0.09	10	0.75	10050	1	0.04	29	1140	17	0.07	<2	8	50	<20
DUP		1	0.09	10	0.75	9980	2	0.04	29	1140	17	0.07	<2	9	50	<20
Target Range - Lower Bound		<1	0.08	<10	0.70	9510	<1	0.03	27	1070	14	0.06	<2	7	47	<20
Upper Bound		2	0.10	20	0.80	10500	2	0.05	31	1210	20	0.08	4	10	54	40
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Ti	Tl	U	V	W	Zn	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	10	10	1	10	2	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05
DUPLICATES																
ORIGINAL								118.0	16.5	360	0.78	2.05	1.13	0.82	12.3	2.17
DUP								116.5	16.2	350	0.75	1.83	0.91	0.79	11.5	1.88
Target Range - Lower Bound								111.0	15.4	330	0.72	1.79	0.94	0.73	11.2	1.87
Upper Bound								123.5	17.3	380	0.81	2.09	1.10	0.88	12.6	2.18
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		0.02	<10	<10	75	<10	317									
DUP		0.02	<10	<10	75	<10	318									
Target Range - Lower Bound		<0.01	<10	<10	70	<10	300									
Upper Bound		0.03	20	20	80	20	335									
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

***** See Appendix Page for comments regarding this certificate *****

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220856

Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
Analyte	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample Description LOD	0.2	0.01	0.1	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01
	DUPLICATES														
ORIGINAL	1.7	0.34	7.6	0.12	5.2	8.8	2.18	10.4	1.97	2	175.0	0.4	0.27	1.10	0.15
DUP	1.6	0.36	7.3	0.14	5.1	8.8	2.02	10.0	2.16	2	174.0	0.4	0.29	1.05	0.14
Target Range - Lower Bound	1.4	0.32	7.0	0.11	4.7	8.3	1.97	9.5	1.93	<1	165.5	0.3	0.26	0.97	0.13
Upper Bound	1.9	0.38	7.9	0.15	5.6	9.3	2.24	10.9	2.20	3	183.5	0.5	0.30	1.18	0.16
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															

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Finalized Date: 18-SEP-2019
Account: VIRELIT

Project: Mal-Wen

QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%
	LOD	0.05	5	1	0.1	0.03	2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01
DUPLICATES																
ORIGINAL		0.49	85	2	9.3	0.95	65									
DUP		0.38	82	3	9.3	0.84	66									
Target Range - Lower Bound		0.36	74	<1	8.7	0.82	60									
Upper Bound		0.51	93	4	9.9	0.97	71									
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL								55.3	14.50	9.08	7.98	6.35	3.18	1.86	0.040	0.69
DUP								55.3	14.50	9.12	7.99	6.37	3.19	1.89	0.040	0.69
Target Range - Lower Bound								53.9	14.15	8.86	7.78	6.19	3.10	1.82	0.037	0.66
Upper Bound								56.7	14.85	9.34	8.19	6.53	3.27	1.93	0.043	0.72
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

***** See Appendix Page for comments regarding this certificate *****

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QC CERTIFICATE OF ANALYSIS VA19220856

Sample Description	Method / Analyte / Units / LOD	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01
		DUPLICATES					
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL		0.16	0.26	0.09	0.06		
DUP		0.16	0.27	0.09	0.06		
Target Range - Lower Bound		0.15	0.25	0.08	0.05		
Upper Bound		0.17	0.28	0.10	0.07		
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							

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QC CERTIFICATE OF ANALYSIS VA19220856

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au-ICP21	CRU-31	DISP-01	LOG-21
ME-ICP06	ME-ICP41	ME-MS81	OA-GRA05
PUL-31	SPL-21	TOT-ICP06	WEI-21

Appendix II

1. OREAS Standard 24c
2. Reanalysis comparison plots

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OREAS
Certified Reference Materials

CERTIFICATE OF ANALYSIS FOR

BASALT BLANK PULP

CERTIFIED REFERENCE MATERIAL

OREAS 24c

Table 1. Certified Values, SDs, 95% Confidence and Tolerance Limits for OREAS 24c.

Constituent	Certified Value	1SD	95% Confidence Limits		95% Tolerance Limits	
			Low	High	Low	High
Fire Assay						
Au, Gold (ppb)	< 1	IND	IND	IND	IND	IND
4-Acid Digestion						
Ag, Silver (ppm)	< 0.2	IND	IND	IND	IND	IND
Al, Aluminium (wt.%)	7.45	0.213	7.23	7.66	7.22	7.67
As, Arsenic (ppm)	< 0.2	IND	IND	IND	IND	IND
Ba, Barium (ppm)	269	6.3	264	274	264	274
Be, Beryllium (ppm)	1.05	0.073	0.98	1.12	IND	IND
Bi, Bismuth (ppm)	< 0.1	IND	IND	IND	IND	IND
Ca, Calcium (wt.%)	5.86	0.126	5.80	5.92	5.57	6.15
Cd, Cadmium (ppm)	< 0.1	IND	IND	IND	IND	IND
Co, Cobalt (ppm)	42.7	1.71	41.3	44.1	40.9	44.5
Cr, Chromium (ppm)	193	8.7	183	202	183	202
Cu, Copper (ppm)	48.6	1.45	47.3	49.9	45.9	51.4
Fe, Iron (wt.%)	7.62	0.356	7.29	7.95	7.31	7.93
Hf, Hafnium (ppm)	3.75	0.244	3.44	4.06	3.59	3.92
K, Potassium (wt.%)	0.735	0.041	0.683	0.787	0.711	0.759
Li, Lithium (ppm)	8.32	0.89	7.13	9.50	7.72	8.91
Mg, Magnesium (wt.%)	3.93	0.101	3.82	4.04	3.79	4.06
Mn, Manganese (wt.%)	0.108	0.006	0.101	0.116	0.104	0.112
Mo, Molybdenum (ppm)	2.49	0.203	2.31	2.67	2.38	2.60
Na, Sodium (wt.%)	2.42	0.141	2.24	2.60	2.29	2.55
Nb, Niobium (ppm)	23.8	2.8	20.1	27.5	22.9	24.7
Ni, Nickel (ppm)	138	4.3	135	140	130	146
P, Phosphorus (wt.%)	0.156	0.006	0.148	0.163	0.149	0.163
Pb, Lead (ppm)	2.90	0.245	2.65	3.15	2.73	3.06
Rb, Rubidium (ppm)	21.9	0.91	20.8	22.9	21.1	22.7
Sb, Antimony (ppm)	< 0.1	IND	IND	IND	IND	IND
Sc, Scandium (ppm)	21.6	1.33	19.9	23.3	20.2	23.0
Sn, Tin (ppm)	1.51	0.094	1.44	1.58	IND	IND
Sr, Strontium (ppm)	442	12.0	430	453	426	457
Ta, Tantalum (ppm)	1.48	0.23	1.16	1.80	1.38	1.59
Th, Thorium (ppm)	3.08	0.177	2.91	3.24	2.95	3.21
Ti, Titanium (wt.%)	1.06	0.026	1.04	1.07	1.02	1.10
U, Uranium (ppm)	0.76	0.039	0.73	0.79	IND	IND
V, Vanadium (ppm)	161	6.7	154	167	153	168
W, Tungsten (ppm)	0.53	0.09	0.44	0.61	IND	IND
Y, Yttrium (ppm)	22.3	0.52	21.9	22.7	21.4	23.2
Zn, Zinc (ppm)	108	14	95	122	103	114
Zr, Zirconium (ppm)	143	10.0	130	156	137	150

Note: intervals may appear asymmetric due to rounding.

INTRODUCTION

OREAS reference materials are intended to provide a low cost method of evaluating and improving the quality of analysis of geological samples. To the geologist they provide a means of implementing quality control in analytical data sets generated in exploration from the grass roots level through to prospect evaluation, and in grade control at mining operations. To the analyst they provide an effective means of calibrating analytical equipment, assessing new techniques and routinely monitoring in-house procedures.

SOURCE MATERIALS

OREAS 24c was prepared from olivine tholeiitic basalt from the Quaternary Newer Volcanics Province in Victoria, Australia. It is characterised by very low background gold of less than 1 parts per billion.

COMMINUTION AND HOMOGENISATION PROCEDURES

The material constituting OREAS 24c was prepared in the following manner:

- drying to constant mass at 105°C;
- multi stage crushing and milling to approximately 99% minus 75 microns;
- homogenisation;
- packaging into 10 and 60g units sealed in laminated foil pouches and 1kg units in plastic jars.

ANALYTICAL PROGRAM

Seven commercial analytical laboratories participated in the program to characterise gold by fire assay with ICP-OES (4 labs), ICP-MS (1 lab), AAS (1 lab) or SXAAS (1 lab) finish. Elements certified via 4-acid digestion include Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hf, K, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Sb, Sc, Sn, Sr, Ta, Th, Ti, U, V, W, Y, Zn and Zr with ICP-OES or ICP-MS finish.

For the round robin program ten 500g test units were taken at predetermined intervals during the bagging stage, immediately following homogenisation and are considered representative of the entire batch. The six samples received by each laboratory were obtained by taking two 100g scoop splits from each of three separate 500g test units. This format enabled nested ANOVA treatment of the results to evaluate homogeneity, i.e. to ascertain whether between-unit variance is greater than within-unit variance. Table 1 (above) presents the certified values together with their associated 1SD's, 95% confidence and tolerance limits and Table 2 shows indicative values. Indicative values are provided for the major and trace elements determined by borate fusion XRF (Al_2O_3 to Zn) and laser ablation with ICP-MS (Ag to Zr) and are the means of duplicate assays from Bureau Veritas, Perth. Additional indicative values by other analytical methods are present where; i) the number of laboratories reporting a particular analyte is insufficient (< 5) to support certification; ii) inter-laboratory consensus is poor; or iii) a significant proportion of results are outlying or reported as less than detection limits.

Table 3 provides performance gate intervals for the certified values based on their associated standard deviations. Tabulated results of all elements together with analytical method codes, uncorrected means, medians, standard deviations, relative standard deviations and per cent deviation of lab means from the corrected mean of means (PDM[3]) are presented in the detailed certification data for this CRM (**OREAS 24c Datapack.xlsx**).

Table 2. Indicative Values for OREAS 24c.

Constituent	Unit	Value	Constituent	Unit	Value	Constituent	Unit	Value
Fire Assay								
Pd	ppb	*< 5*	Pt	ppb	*< 5*			
Borate Fusion XRF								
Al_2O_3	wt.%	*14.48*	Fe_2O_3	wt.%	*11.30*	Pb	ppm	*12.5*
As	ppm	*< 10*	K_2O	wt.%	*0.876*	SiO_2	wt.%	*51.33*
Ba	ppm	*275*	MgO	wt.%	*6.81*	Sn	ppm	*< 10*
CaO	wt.%	*8.65*	MnO	wt.%	*0.150*	SO_3	wt.%	*0.024*
Co	ppm	*50*	Na_2O	wt.%	*3.18*	TiO_2	wt.%	*1.91*
Cr	ppm	*245*	Ni	ppm	*160*	U	ppm	*20.0*
Cu	ppm	*60*	P_2O_5	wt.%	*0.363*	Zn	ppm	*115*
Thermogravimetry								
LOI^{1000}	wt.%	*0.630*						
Laser Ablation ICP-MS								
Ag	ppm	*< 0.1*	Ho	ppm	*0.90*	Sn	ppm	*3.00*
As	ppm	*0.60*	In	ppm	*0.063*	Sr	ppm	*413*
Ba	ppm	*264*	La	ppm	*19.6*	Ta	ppm	*1.46*
Be	ppm	*1.80*	Lu	ppm	*0.23*	Tb	ppm	*0.80*
Bi	ppm	*< 0.02*	Mn	wt.%	*0.109*	Te	ppm	*< 0.2*
Cd	ppm	*< 0.1*	Mo	ppm	*2.30*	Th	ppm	*3.01*
Ce	ppm	*36.6*	Nb	ppm	*21.4*	Ti	wt.%	*1.10*
Co	ppm	*42.7*	Nd	ppm	*20.7*	Tl	ppm	*< 0.2*
Cr	ppm	*237*	Ni	ppm	*133*	Tm	ppm	*0.36*
Cs	ppm	*0.87*	Pb	ppm	*2.50*	U	ppm	*0.73*
Cu	ppm	*46.0*	Pr	ppm	*4.90*	V	ppm	*166*
Dy	ppm	*4.63*	Rb	ppm	*21.4*	W	ppm	*0.40*
Er	ppm	*2.28*	Re	ppm	*< 0.01*	Y	ppm	*21.4*
Eu	ppm	*1.89*	Sb	ppm	*< 0.1*	Yb	ppm	*1.75*
Ga	ppm	*20.8*	Sc	ppm	*20.3*	Zn	ppm	*98*
Gd	ppm	*5.25*	Se	ppm	*6.25*	Zr	ppm	*128*
Hf	ppm	*4.12*	Sm	ppm	*5.55*			
4-Acid Digestion								
Ce	ppm	*40.2*	Ho	ppm	*0.90*	Se	ppm	*1.00*
Cs	ppm	*0.80*	In	ppm	*0.056*	Sm	ppm	*5.55*
Dy	ppm	*4.82*	La	ppm	*19.7*	Tb	ppm	*0.90*
Er	ppm	*2.35*	Lu	ppm	*0.27*	Te	ppm	*< 0.05*
Eu	ppm	*1.94*	Nd	ppm	*20.7*	Tl	ppm	*0.064*
Ga	ppm	*20.7*	Pr	ppm	*5.28*	Tm	ppm	*0.31*
Gd	ppm	*5.95*	Re	ppm	*< 0.002*	Yb	ppm	*1.88*
Ge	ppm	*0.43*	S	wt.%	*< 0.01*			

Note: the number of significant figures reported is not a reflection of the level of certainty of stated values. They are instead an artefact of ORE's in-house CRM-specific LIMS.

STATISTICAL ANALYSIS

Certified Values, Standard Deviations, Confidence and Tolerance Limits have been determined for each analytical method following removal of individual and laboratory outliers (Table 1). Certified Values are the mean of means after outlier filtering. The 95% Confidence Limit is a measure of the reliability of the certified value, i.e. the narrower the Confidence Interval the greater the certainty in the Certified Value. It should not be used as a control limit for laboratory performance.

Standard Deviation values (1SDs) are reported in Table 1 and provide an indication of a level of performance that might reasonably be expected from a laboratory being monitored by this CRM in a QA/QC program. They take into account errors attributable to measurement uncertainty and CRM variability. For an effective CRM the contribution of the latter should be negligible in comparison to measurement errors. The Standard Deviation values include all sources of measurement uncertainty: between-lab variance, within-run variance (precision errors) and CRM variability. The SD for each analyte's certified value is calculated from the same filtered data set used to determine the certified value, i.e. after removal of all individual, lab dataset (batch) and 3SD outliers (single iteration). These outliers can only be removed after the absolute homogeneity of the CRM has been independently established, i.e. the outliers must be confidently deemed to be analytical rather than arising from inhomogeneity of the CRM. The standard deviation is then calculated for each analyte from the pooled accepted analyses generated from the certification program.

Performance Gates (Table 3) are calculated for two and three standard deviations. As a guide these intervals may be regarded as warning or rejection for multiple 2SD outliers, or rejection for individual 3SD outliers in QC monitoring, although their precise application should be at the discretion of the QC manager concerned.

A second method utilises a 5% window calculated directly from the certified value. Standard deviation is also shown in relative per cent for one, two and three relative standard deviations (1RSD, 2RSD and 3RSD) to facilitate an appreciation of the magnitude of these numbers and a comparison with the 5% window. Caution should be exercised when concentration levels approach lower limits of detection of the analytical methods employed as performance gates calculated from standard deviations tend to be excessively wide whereas those determined by the 5% method are too narrow.

Table 3. Performance Gates for OREAS 24c.

Constituent	Certified Value	Absolute Standard Deviations					Relative Standard Deviations			5% window	
		1SD	2SD Low	2SD High	3SD Low	3SD High	1RSD	2RSD	3RSD	Low	High
Fire Assay											
Au, ppb	< 1	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
4-Acid Digestion											
Ag, ppm	< 0.2	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
Al, wt.%	7.45	0.213	7.02	7.87	6.81	8.08	2.85%	5.71%	8.56%	7.07	7.82
As, ppm	< 0.2	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
Ba, ppm	269	6.3	257	282	250	288	2.35%	4.69%	7.04%	256	283
Be, ppm	1.05	0.073	0.90	1.19	0.83	1.27	6.99%	13.99%	20.98%	0.99	1.10
Bi, ppm	< 0.1	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
Ca, wt.%	5.86	0.126	5.61	6.11	5.48	6.24	2.16%	4.31%	6.47%	5.57	6.15

Table 3 continued.

Constituent	Certified Value	Absolute Standard Deviations					Relative Standard Deviations			5% window	
		1SD	2SD Low	2SD High	3SD Low	3SD High	1RSD	2RSD	3RSD	Low	High
4-Acid Digestion continued											
Cd, ppm	< 0.1	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
Co, ppm	42.7	1.71	39.3	46.1	37.6	47.8	4.00%	8.00%	11.99%	40.6	44.8
Cr, ppm	193	8.7	175	210	166	219	4.53%	9.06%	13.60%	183	202
Cu, ppm	48.6	1.45	45.7	51.5	44.3	53.0	2.99%	5.98%	8.97%	46.2	51.1
Fe, wt.%	7.62	0.356	6.91	8.33	6.55	8.69	4.67%	9.34%	14.02%	7.24	8.00
Hf, ppm	3.75	0.244	3.26	4.24	3.02	4.48	6.51%	13.01%	19.52%	3.56	3.94
K, wt.%	0.735	0.041	0.653	0.817	0.612	0.858	5.58%	11.15%	16.73%	0.698	0.771
Li, ppm	8.32	0.89	6.54	10.09	5.66	10.98	10.66%	21.32%	31.99%	7.90	8.73
Mg, wt.%	3.93	0.101	3.72	4.13	3.62	4.23	2.57%	5.15%	7.72%	3.73	4.12
Mn, wt.%	0.108	0.006	0.096	0.121	0.089	0.127	5.74%	11.48%	17.22%	0.103	0.114
Mo, ppm	2.49	0.203	2.08	2.89	1.88	3.10	8.14%	16.29%	24.43%	2.36	2.61
Na, wt.%	2.42	0.141	2.14	2.70	2.00	2.85	5.82%	11.64%	17.46%	2.30	2.54
Nb, ppm	23.8	2.8	18.2	29.4	15.4	32.2	11.78%	23.56%	35.33%	22.6	25.0
Ni, ppm	138	4.3	129	146	125	151	3.16%	6.32%	9.48%	131	144
P, wt.%	0.156	0.006	0.143	0.168	0.136	0.175	4.09%	8.18%	12.26%	0.148	0.163
Pb, ppm	2.90	0.245	2.41	3.39	2.16	3.63	8.46%	16.91%	25.37%	2.75	3.04
Rb, ppm	21.9	0.91	20.1	23.7	19.2	24.6	4.16%	8.33%	12.49%	20.8	23.0
Sb, ppm	< 0.1	IND	IND	IND	IND	IND	IND	IND	IND	IND	IND
Sc, ppm	21.6	1.33	18.9	24.3	17.6	25.6	6.17%	12.33%	18.50%	20.5	22.7
Sn, ppm	1.51	0.094	1.32	1.70	1.23	1.80	6.24%	12.47%	18.71%	1.44	1.59
Sr, ppm	442	12.0	418	465	406	477	2.71%	5.42%	8.13%	419	464
Ta, ppm	1.48	0.23	1.01	1.95	0.78	2.18	15.82%	31.64%	47.46%	1.41	1.55
Th, ppm	3.08	0.177	2.72	3.43	2.55	3.61	5.76%	11.53%	17.29%	2.92	3.23
Ti, wt.%	1.06	0.026	1.00	1.11	0.98	1.13	2.45%	4.91%	7.36%	1.00	1.11
U, ppm	0.76	0.039	0.68	0.84	0.64	0.88	5.13%	10.27%	15.40%	0.72	0.80
V, ppm	161	6.7	147	174	140	181	4.20%	8.41%	12.61%	152	169
W, ppm	0.53	0.09	0.34	0.71	0.25	0.80	17.56%	35.12%	52.67%	0.50	0.55
Y, ppm	22.3	0.52	21.2	23.3	20.7	23.9	2.34%	4.67%	7.01%	21.2	23.4
Zn, ppm	108	14	81	136	67	150	12.65%	25.31%	37.96%	103	114
Zr, ppm	143	10.0	123	163	113	173	6.96%	13.93%	20.89%	136	150

Note: intervals may appear asymmetric due to rounding

Tolerance Limits (ISO Guide 3207) were determined using an analysis of precision errors method and are considered a conservative estimate of true homogeneity. The meaning of tolerance limits may be illustrated for copper (Cu), where 99% of the time (1-α=0.99) at least 95% of subsamples (ρ=0.95) will have concentrations lying between 45.9 and 51.4ppm. Put more precisely, this means that if the same number of subsamples were taken and analysed in the same manner repeatedly, 99% of the tolerance intervals so constructed would cover at least 95% of the total population, and 1% of the tolerance intervals would cover less than 95% of the total population (IS0 Guide 35).

The homogeneity of OREAS 24c has also been evaluated in an ANOVA study for all certified analytes. This study tests the null hypothesis that no statistically significant difference exists between the *between-unit variance* and the *within-unit variance* (i.e. p-values <0.05 indicate rejection of the null hypothesis). Of the 38 certified values, no failures were observed indicating no evidence to reject the null hypothesis.

Based on the statistical analysis of the results of the inter-laboratory certification program it can be concluded that OREAS 24c is fit-for-purpose as a certified reference material (see 'Intended Use' below).

PARTICIPATING LABORATORIES

1. Acme, Vancouver, BC, Canada
2. ALS, Brisbane, QLD, Australia
3. ALS, Vancouver, BC, Canada
4. Amdel (BV), Adelaide, SA, Australia
5. Intertek Genalysis, Perth, WA, Australia
6. SGS, Perth, WA, Australia
7. Ultra Trace (BV), Perth, WA, Australia

PREPARER AND SUPPLIER

Certified reference material OREAS 24c is prepared, certified and supplied by:

ORE RESEARCH & EXPLORATION

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It is available in unit sizes of 10 and 60g (single-use laminated foil pouches) and 1kg (plastic jars).

INTENDED USE

OREAS 24c is intended for the following uses:

- for the monitoring of laboratory performance in the analysis of Ag, Al, As, Au, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hf, K, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Sb, Sc, Sn, Sr, Ta, Th, Ti, U, V, W, Y, Zn and Zr in geological samples;
- for the verification of analytical methods for Ag, Al, As, Au, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hf, K, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Sb, Sc, Sn, Sr, Ta, Th, Ti, U, V, W, Y, Zn and Zr;
- for the calibration of instruments used in the determination of the concentration of Ag, Al, As, Au, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hf, K, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Sb, Sc, Sn, Sr, Ta, Th, Ti, U, V, W, Y, Zn and Zr.

STABILITY AND STORAGE INSTRUCTIONS

OREAS 24c has been prepared from a barren basalt sample. In its unopened state under normal conditions of storage it has a shelf life beyond ten years.

INSTRUCTIONS FOR CORRECT USE

The certified values for OREAS 24c refer to the concentration level in its packaged state. It should not be dried prior to weighing and analysis.

HANDLING INSTRUCTIONS

Fine powders pose a risk to eyes and lungs and therefore standard precautions such as the use of safety glasses and dust masks are advised.

TRACEABILITY

The analytical samples were selected in a manner to represent the entire batch of prepared CRM. This 'representivity' was maintained in each submitted laboratory sample batch and ensures the user that the data is traceable from sample selection through to the analytical results that underlie the consensus values. Each analytical data set has been validated by its assayer through the inclusion of internal reference materials and QC checks during analysis. The laboratories were chosen on the basis of their competence (from past performance in inter-laboratory programs) for a particular analytical method, analyte or analyte suite, and sample matrix. Most of these laboratories have and maintain ISO 17025 accreditation. The certified and non-certified (indicative) values presented in this report are calculated from the means of accepted data following robust statistical treatment as detailed in this report.

LEGAL NOTICE

Ore Research & Exploration Pty Ltd has prepared and statistically evaluated the property values of this reference material to the best of its ability. The Purchaser by receipt hereof releases and indemnifies Ore Research & Exploration Pty Ltd from and against all liability and costs arising from the use of this material and information.

QMS ACCREDITED

ORE Pty Ltd is accredited to ISO 9001:2008 by Lloyd's Register Quality Assurance Ltd for its quality management system including development, manufacturing, certification and supply of CRMs.

CERTIFYING OFFICER

Craig Hamlyn (B.Sc. Hons - Geology), Technical Manager - ORE P/L

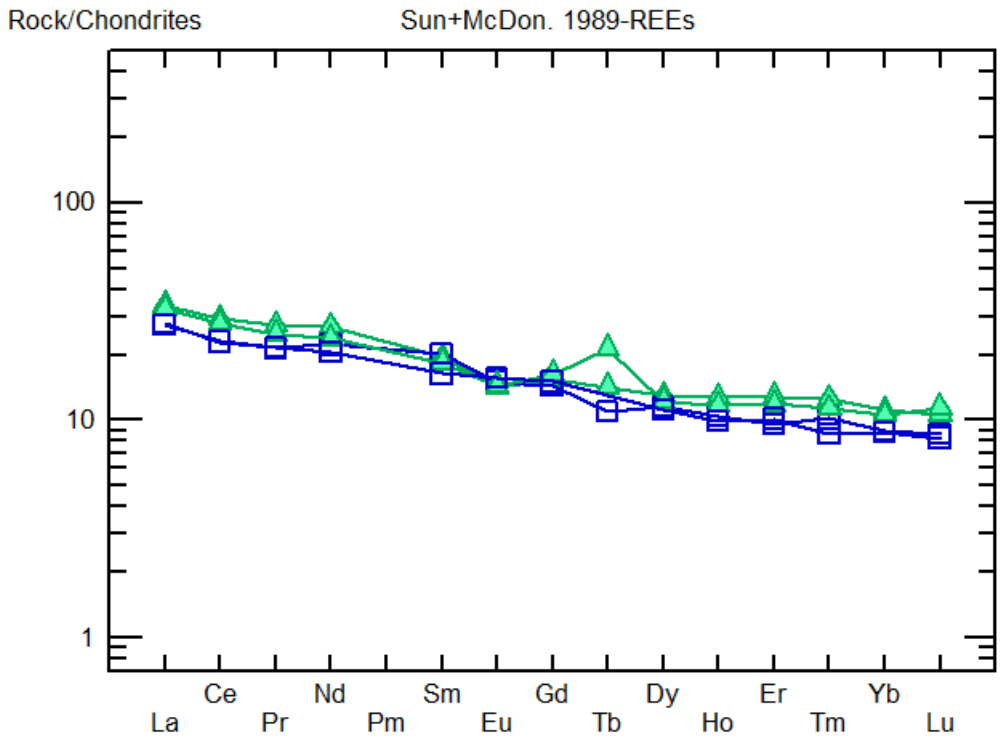
REFERENCES

ISO Guide 30 (1992), Terms and definitions used in connection with reference materials.

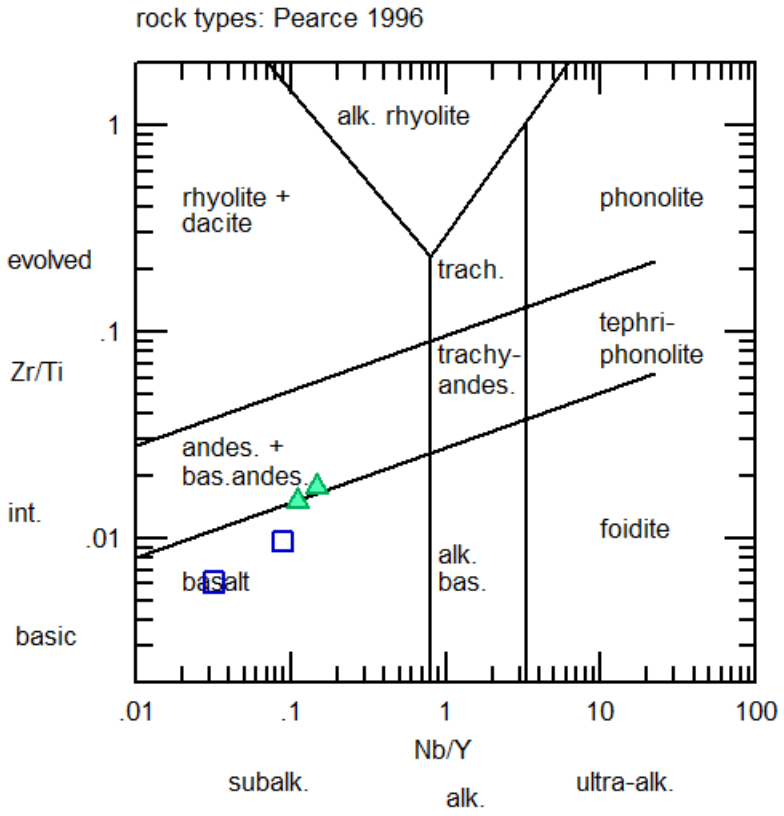
ISO Guide 31 (2000), Reference materials – Contents of certificates and labels.

ISO Guide 3207 (1975), Statistical interpretation of data - Determination of a statistical tolerance interval.

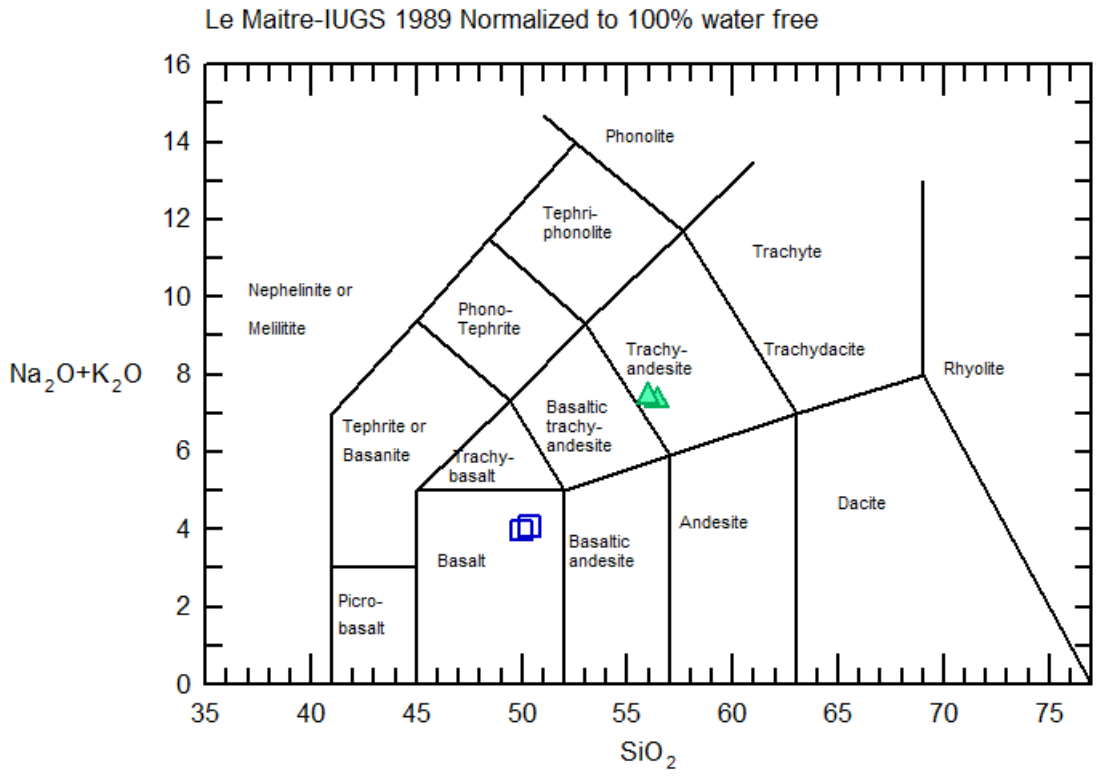
ISO Guide 35 (2006), Certification of reference materials - General and statistical principals.



Sample reanalysis comparison: REE plot (green triangles = sample 21630 (2019) & sample 488640 (2018), blue triangles = sample 21644 (2019) & sample 488643 (2018)



Sample reanalysis comparison: Zr/Ti vs Nb/Y plot (green triangles = sample 21630 (2019) & sample 488640 (2018), blue triangles = sample 21644 (2019) & sample 488643 (2018)



Sample reanalysis comparison: TAS plot (green triangles = sample 21630 (2019) & sample 488640 (2018), blue triangles = sample 21644 (2019) & sample 488643 (2018)

Report 190378 for:
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September 2019

Project: Victory

Samples: MW19: 12.15, 16.16, 16.17, 714.10, 714.14a

Summary:

Sample MW19 12.15 is of altered andesite(?) that contains scattered clusters of very fine grained plagioclase (possibly after plagioclase phenocrysts); these are set in a groundmass containing scattered lathy plagioclase grains in an aphanitic matrix of plagioclase (altered slightly to sericite in patches) and limonite/hematite, with disseminated grains of pyrite (altered strongly to completely to hematite). Replacement patches and veins are dominated by calcite and/or quartz, with locally abundant pyrite (altered moderately to hematite) and elsewhere minor to accessory sericite.

Sample MW19 16.16 is of altered andesite/latite(?). Minor plagioclase phenocrysts (?; altered completely to sericite) are set in a groundmass of plagioclase (altered strongly to completely to sericite) with scattered patches of ilmenite (altered completely to leucoxene). Early, commonly diffuse replacement patches are of quartz with much less abundant calcite, and with diffuse patches of extremely fine grained quartz and sericite. Later replacement patches and veinlets are dominated by calcite and/or quartz. Chalcopyrite and pyrite commonly occur separately in replacement patches and veins and in the altered host rock.

Sample MW19 16.17 is of slightly porphyritic latite/andesite that contains scattered phenocrysts of plagioclase (altered slightly to moderately to sericite) and of hornblende (altered completely to chlorite); these are set in a groundmass dominated by plagioclase with lesser K-feldspar. Abundant discontinuous veinlets are of quartz with minor to accessory calcite.

Sample MW19 714.10 is of andesite crystal tuff that contains abundant subhedral to euhedral crystal of plagioclase (altered slightly to moderately to sericite) and much less abundant ones of hornblende (altered completely to tremolite/actinolite-calcite-epidote); these are set in a sparse groundmass dominated by granular plagioclase/K-feldspar(?) with accessory disseminated ilmenite (altered completely to leucoxene). Replacement patches, mainly in the groundmass, are of epidote and locally abundant quartz. A few veinlets are of epidote and of calcite-epidote.

Sample MW19 714.14 is of altered andesite crystal tuff that contains abundant subhedral to euhedral crystals of plagioclase (altered completely to sericite) and lesser ones of hornblende (altered completely to calcite-hematite), as well as disseminated grains of ilmenite in a groundmass of extremely fine grained plagioclase/sericite that was variably replaced by hematite. Several replacement patches are of calcite-(hematite) and two are of plagioclase. A veinlet of calcite has selvages along its margin of hematite; in the adjacent host rock an envelope up to 1 mm wide contains disseminated patches of calcite in sericite-altered plagioclase crystals.

Photographic Notes:

The scanned section shows the gross textural features of the sections; these features are seen much better on the digital image than on the printed image. For the photographs, sample numbers are shown in the upper left corner, photo numbers are shown in the lower left corner, and the letter in the lower right corner indicates the lighting conditions: incident light in crossed nicols (= X); reflected light (= R); reflected light in nearly crossed nicols and incident light in crossed nicols (= ~RX). Locations of photographs are shown on the scanned section. Descriptions of the photographs are at the end of the report.

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Sample MW19 12.15 Altered Andesite(?)
Veins/Replacement: Calcite-Quartz-(Pyrite-Sericite)

Scattered clusters of very fine grained plagioclase (possibly after plagioclase phenocrysts) are set in a groundmass containing scattered lathy plagioclase grains in an aphanitic matrix of plagioclase (altered slightly to sericite in patches) and limonite/hematite, with disseminated grains of pyrite (altered strongly to completely to hematite). Replacement patches and veins are dominated by calcite and/or quartz, with locally abundant pyrite (altered moderately to hematite) and elsewhere minor to accessory sericite.

mineral	**percentage**	**main grain size range (mm)**
phenocrysts(?)		
plagioclase	3- 4%	0.5-0.7
groundmass		
plagioclase (lathy)	1- 2	0.07-0.15
plagioclase	50-55	0.005-0.02
limonite/hematite	2- 3	dusty-0.02
sericite	2- 3	0.01-0.03
pyrite	1- 2	0.05-0.2
veins, replacement		
1) calcite-quartz-(sericite-pyrite)	30-35	0.1-1.5 (ct), 0.1-0.3 (qz, py), 0.01-0.03 (se)

Scattered patches up to 0.7 mm across of very fine grained plagioclase may be secondary after plagioclase phenocrysts.

The groundmass is dominated by equant plagioclase and possibly lesser other minerals, but much of it is too fine grained for minerals to be identified optically. Plagioclase also forms unoriented, disseminated elongate prismatic to lathy grains. In places the groundmass contains accessory to modestly abundant sericite.

Pyrite is concentrated moderately locally as disseminated subhedral to euhedral cubic grains that were altered strongly to completely to pseudomorphic red-brown hematite.

Limonite and hematite form disseminated spots, lenses, and wispy veinlets up to 0.02 mm wide.

Veins, veinlets, and replacement patches up to several mm across are dominated by calcite and/or quartz. A few veinlets also contain minor to accessory sericite, in part stained orange by limonite). A few patches, including one up to a few mm across are of pyrite (altered moderately to deep red-brown hematite).

Sample MW19 16.16 **Altered Andesite/Latite(?); Alteration: Sericite-K-feldspar(?) Replacement, Veins: Calcite-Quartz-(Chalcopyrite)**

Minor plagioclase phenocrysts(?; altered completely to sericite) are set in a groundmass of plagioclase (altered strongly to completely to sericite) with scattered patches of ilmenite (altered completely to leucoxene). Early, commonly diffuse replacement patches are of quartz with much less abundant calcite, and with diffuse patches of extremely fine grained quartz and sericite. Later replacement patches and veinlets are dominated by calcite and/or quartz. Chalcopyrite and pyrite commonly occur separately in replacement patches and veins and in the altered host rock.

mineral	percentage	main grain size range (mm)	
phenocrysts(?)			
plagioclase	minor	0.2-0.3	
groundmass			
plagioclase/sericite	60-70%	0.01-0.03	
ilmenite/Ti-oxide	1- 2	0.05-0.25	
apatite	trace	0.05-0.07	
replacement			
quartz-calcite	12-15	0.03-0.07	(locally up to 0.5 mm)
veinlets, replacement			
calcite-quartz	15-17	0.05-0.3	
pyrite	0.3	0.05-0.3	
chalcopyrite	0.3	0.03-0.15	(locally up to 1 mm)

A few sericite-rich patches with vague subhedral outlines may represent original plagioclase phenocrysts.

Much of the sample consists of groundmass feldspar (probably plagioclase that was altered strongly to sericite). The bright yellow stain on the offcut block suggests the presence of abundant K-feldspar; however, feldspar grains intergrown with sericite are too fine grained to be identified optically as either plagioclase or K-feldspar. Feldspar is moderately well preserved in one corner of the section; it appears to be mainly plagioclase altered slightly to moderately to micritic calcite and sericite.

Ilmenite (altered completely to leucoxene) forms irregular equant patches in the host rock and locally in the veins/replacement patches.

Apatite forms scattered subhedral grains.

Irregular, diffuse replacement patches are of intergrowths of quartz and generally lesser calcite. A few coarser grained patches contain moderately abundant subhedral prismatic quartz grains up to 0.7 mm long.

Chalcopyrite forms disseminated anhedral equant patches, mainly associated with quartz.

Pyrite forms disseminated, commonly subhedral grains, locally associated with chalcopyrite.

Veinlets up to 2 mm wide are of calcite and quartz, in which quartz commonly forms elongate prismatic crystals. One calcite-quartz veinlet contains a large grain of chalcopyrite and several patches of leucoxene (after ilmenite).

A few veinlets up to 1 mm wide are dominated by calcite with no to accessory quartz. One calcite-rich veinlet is rimmed by thin selvages of limonite.

A wispy seam is of limonite.**Sample MW19 16.17 Slightly Porphyritic Latite/Andesite**

Veinlets/Replacement: Quartz-(Calcite); Limonite

Scattered phenocrysts of plagioclase (altered slightly to moderately to sericite) and of hornblende (altered completely to chlorite) are set in a groundmass dominated by plagioclase with lesser K-feldspar. Abundant discontinuous veinlets are of quartz with minor to accessory calcite and minor K-feldspar. Late stringers are of limonite.

mineral	**percentage**	**main grain size range (mm)**
phenocrysts		
plagioclase	3- 4%	0.5-1
hornblende	4- 5	0.7-1 (one 1.7 mm long)
groundmass		
plagioclase	45-50(?)	0.02-0.04
K-feldspar	30-35(?)	0.02-0.04
chlorite	2- 3	0.01-0.03
veinlets, replacement		
1) quartz-(calcite-K-feldspar)	4- 5	0.03-0.1
2) limonite	2- 3	cryptocrystalline

Plagioclase forms subhedral to euhedral equant phenocrysts that were altered slightly to moderately to sericite. Some phenocrysts were cut by veinlets of K-feldspar, which in the groundmass beyond the phenocrysts are of quartz.

Hornblende (altered completely to chlorite and minor calcite) forms disseminated anhedral phenocrysts and a few clusters up to 2 mm across of several phenocrysts.

The groundmass consists of an intergrowth of unoriented plagioclase and K-feldspar; the strong yellow stain on the offcut block suggests the presence of abundant K-feldspar. Chlorite forms disseminated flakes and minor patches.

Wispy veinlets mainly from 0.03-0.08 mm wide are of quartz with generally lesser calcite. Where a few quartz-rich veinlets cut plagioclase phenocrysts they consist of K-feldspar. Several irregular replacement patches are dominated by quartz.

Numerous late fracture-filling seams are of limonite.

Sample MW19 714.10 Andesite Crystal Tuff
Replacement: Epidote-Calcite-K-feldspar

Abundant subhedral to euhedral crystal of plagioclase (altered slightly to moderately to sericite) and much less abundant ones of hornblende (altered completely to tremolite/actinolite-calcite-epidote) are set in a sparse groundmass dominated by granular plagioclase/K-feldspar(?) with accessory disseminated ilmenite (altered completely to leucoxene). Replacement patches, mainly in the groundmass, are of epidote and locally abundant quartz. A few veinlets are of epidote and of calcite-epidote.

mineral	percentage	main grain size range (mm)
phenocrysts		
plagioclase	40-45%	0.5-1 (a few up to 1.5 mm long)
tremolite/actinolite	7- 8	0.5-1 (a few up to 1.5 mm long)
groundmass		
plagioclase-(K-feldspar)	25-30	0.02-0.05
leucoxene	2- 3	0.1-0.3
magnetite	0.3	0.2-0.25
chlorite	minor	0.01-0.02
chalcopyrite	minor	0.02-0.05
apatite	trace	0.05-0.1
pyrite	trace	0.02-0.03
replacement, veinlets		
epidote	4- 5	0.05-0.3 (locally up to 0.4 mm long)
calcite	1- 2	0.05-0.2
quartz	0.5	0.05-0.2; one grain 1 mm long
K-feldspar	minor	0.05-0.1

Plagioclase forms subhedral to euhedral, unzoned prismatic grains that were altered slightly to locally moderately to sericite.

Tremolite/actinolite forms subhedral to euhedral prismatic grains that are secondary after hornblende. They commonly contain patches of calcite and less commonly epidote and/or leucoxene.

In the groundmass, plagioclase and lesser K-feldspar form aggregates of granular grains. The yellow stain on the offcut block is unusual, indicating that K-feldspar is concentrated along the margins of the section; because of this unusual distribution, and the inability to identify K-feldspar optically, its distribution is uncertain. A few patches up to 1 mm long are of very fine igneous plagioclase altered in part to epidote.

Leucoxene (after ilmenite) forms disseminated irregular equant patches up to 0.25 mm across.

Magnetite forms disseminated equant grains.

Chlorite forms a few patches up to 0.15 mm across.

Apatite forms scattered anhedral to subhedral, equant to stubby prismatic grains.

Chalcopyrite and pyrite form disseminated anhedral grains, commonly associated with epidote.

Epidote forms irregular replacement patches up to 0.7 mm across and discontinuous veinlets up to 0.2 mm wide.

Quartz forms one large interstitial grain and also occurs with epidote in a few replacement patches up to 1 mm across.

Calcite and epidote occur together and locally separately in discontinuous veinlets up to 0.3 mm wide. One veinlet is of calcite-K-feldspar.

Sample MW19 714.14 Altered Andesite Crystal Tuff

Alteration: Sericite-Calcite-Hematite
Replacement: Calcite, Plagioclase
Veinlet: Calcite-Hematite

The sample contains abundant subhedral to euhedral crystals of plagioclase (altered completely to sericite) and lesser ones of hornblende (altered completely to calcite-hematite), as well as disseminated grains of ilmenite in a groundmass of extremely fine grained plagioclase/sericite that was variably replaced by hematite. Several replacement patches are of calcite-(hematite) and two are of plagioclase. A veinlet of calcite has selvages along its margin of hematite; in the adjacent host rock an envelope up to 1 mm wide contains disseminated patches of calcite in sericite-altered plagioclase crystals.

mineral	**percentage**	**main grain size range (mm)**	
phenocrysts			
plagioclase	40-45%	0.2-0.7	(a few up to 1.0 mm)
hornblende(?)	10-12	0.4-0.7	(a few up to 2 mm)
groundmass			
plagioclase(?)	25-30	0.01-0.03	
hematite/limonite	7- 8	cryptocrystalline	
ilmenite	2- 3	0.05-0.3	(a few up to 0.4 mm)
kaolinite(?)	minor	0.005-0.01	
replacement			
calcite	2- 3	0.03-0.07	
plagioclase	0.3	0.02-0.07	
veinlets			
1) calcite-hematite	0.5	0.03-0.07 (ct), 0.01-0.015 (qz)	

Plagioclase forms subhedral to euhedral crystals that were altered strongly to completely to sericite. Along the side of the section with strong hematite alteration, some sericite is stained yellow by limonite.

Hornblende forms subhedral equant crystals that were altered completely to calcite and minor to moderately abundant hematite. In the more strongly hematite-altered zone, hematite is abundant in hornblende crystals and obscures the optical properties of any calcite that is present.

The groundmass is mainly of extremely fine grained plagioclase/sericite(?) with moderately abundant to abundant dusty hematite, which increases in intensity towards one side of the section.

Locally calcite forms replacement patches up to 0.8 mm in size in the groundmass of equant, unoriented grains.

A few interstitial patches up to 0.7 mm across are of slightly coarser grained replacement(?) plagioclase that is at most only slightly altered to sericite.

Kaolinite(?) forms a few patches up to 0.15 mm in size.

A veinlet 0.2-0.3 mm wide along one end of the section is of calcite with seams of hematite along its margins and with a few inclusions(?) of groundmass plagioclase(?). Near the veinlet, a few plagioclase crystals were altered completely to sericite with accessory patches of calcite.

List of Photographs

Photo	Section	Description
01	MW19 12.15	patch of very fine grained plagioclase (possibly after a plagioclase phenocryst) in a matrix of aphanitic plagioclase(?) with scattered elongate laths of plagioclase, minor dusty Ti-oxide(?), and disseminated patches and veinlets of limonite/hematite.
02	MW19 12.15	groundmass of plagioclase (altered slightly to moderately to sericite), disseminated, cubic pyrite grains (altered completely to red-brown hematite), and replacement patches of calcite.
03	MW19 12.15	upper left: patches of very fine grained plagioclase (possibly secondary after plagioclase phenocrysts) in a groundmass of much finer grained plagioclase and disseminated limonite; lower right: calcite-rich replacement patch with an inclusion of plagioclase-limonite.
04	MW19 12.15	replacement patch/vein of pyrite (altered moderately inwards from grain borders to hematite), calcite (poorly preserved) and quartz.
05	MW19 16.16	to the left: possible plagioclase phenocryst (altered completely to sericite) in a groundmass of plagioclase (altered completely to sericite with disseminated patches of ilmenite (altered strongly to completely to Ti-oxide) and minor replacement grains of quartz and of calcite; to the right: diffuse replacement patch of secondary quartz and minor calcite with relic patches of sericite (after plagioclase); cutting both is a veinlet of calcite.
06	MW19 16.16	scattered subhedral plagioclase grains can be identified intergrown with anhedral plagioclase (all altered slightly to locally moderately to sericite and calcite; one grain of apatite, one of quartz, one of pyrite, and a few of calcite.
07	MW19 16.16	host rock: plagioclase (altered completely to sericite); vein/replacement: quartz-calcite with a large patch of chalcopyrite and a few patches of leucoxene (after ilmenite).
08	MW19 16.17	cluster of hornblende phenocrysts (altered completely to chlorite and minor calcite) enclosed in a groundmass of plagioclase-K-feldspar; minor discontinuous veinlets of quartz and of calcite-(limonite).
09	MW19 16.17	plagioclase phenocryst (altered strongly to sericite) in a groundmass of plagioclase-K-feldspar-(sericite-limonite); veinlet of quartz-K-feldspar (in plagioclase phenocryst)-calcite; late veinlets and spots of limonite.
10	MW19 16.17	hornblende phenocrysts (altered completely to chlorite-[limonite]) and one plagioclase phenocryst (altered strongly to sericite) in a groundmass of plagioclase-K-feldspar; a veinlet of calcite-quartz and a few irregular veinlets/replacement patches of quartz.

List of Photographs

Photo	Section	Description
11	MW19 714.10	plagioclase crystals (altered slightly to moderately to sericite) and a few of tremolite/actinolite-(calcite-magnetite) that probably are secondary after hornblende or diopside; sparse groundmass of extremely fine grained granular plagioclase with minor magnetite; replacement patches in the groundmass of epidote.
12	MW19 714.10	large subhedral tremolite/actinolite-(epidote-calcite) grain (probably after hornblende) and euhedral plagioclase crystals (altered slightly to moderately to sericite) in a sparse groundmass of plagioclase with disseminated patches of leucoxene (after ilmenite) and replacement patches of epidote.
13	MW19 714.10	subhedral to euhedral plagioclase (altered slightly to moderately to sericite), minor tremolite/actinolite-calcite (after hornblende) in a sparse groundmass dominated by plagioclase with a few patches of leucoxene (after ilmenite); replacement patches of epidote-quartz.
14	MW19 714.14	larger euhedral hornblende crystals (altered completely to calcite-sericite[?]-ilmenite and smaller subhedral to euhedral plagioclase crystals and crystal fragments (altered completely to sericite) in a sparse groundmass of plagioclase/sericite(?)-(hematite) with disseminated grains of ilmenite.
15	MW19 714.14	subhedral to anhedral plagioclase crystals (altered completely to sericite) in a groundmass of extremely fine grained plagioclase/sericite(?)-hematite, with abundant replacement patches in the groundmass of calcite.
16	MW19 714.14	many subhedral to euhedral plagioclase crystals (altered completely to sericite), two subhedral hornblende crystals (altered completely to calcite-hematite) and a cluster of ilmenite in a sparse groundmass of plagioclase/ sericite(?)-hematite; replacement patches of calcite (in part with rims of hematite) and of plagioclase.
17	MW19 714.14	above: calcite veinlet with selvages of hematite along its margins, scattered patches of hematite in the interior, and a few lensy inclusions of groundmass plagioclase(?) parallel to its margins; below: subhedral to euhedral plagioclase crystals (altered completely to sericite-calcite near the vein and to sericite-(calcite) or sericite further away from the veinlet; one subhedral grain of hornblende (altered completely to calcite-hematite) and one patch of ilmenite; sparse groundmass of plagioclase-(sericite) with patches of calcite adjacent to ilmenite.

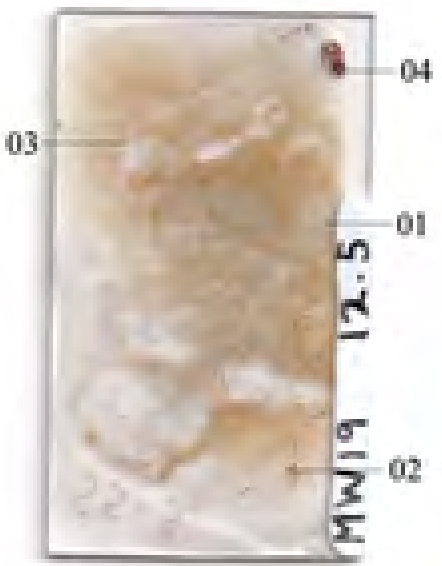
190378 victory blocks

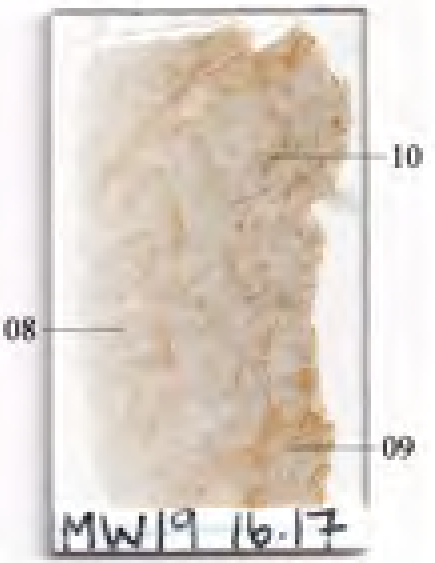
MW19 12.15 MW19 16.16 MW19 16.17

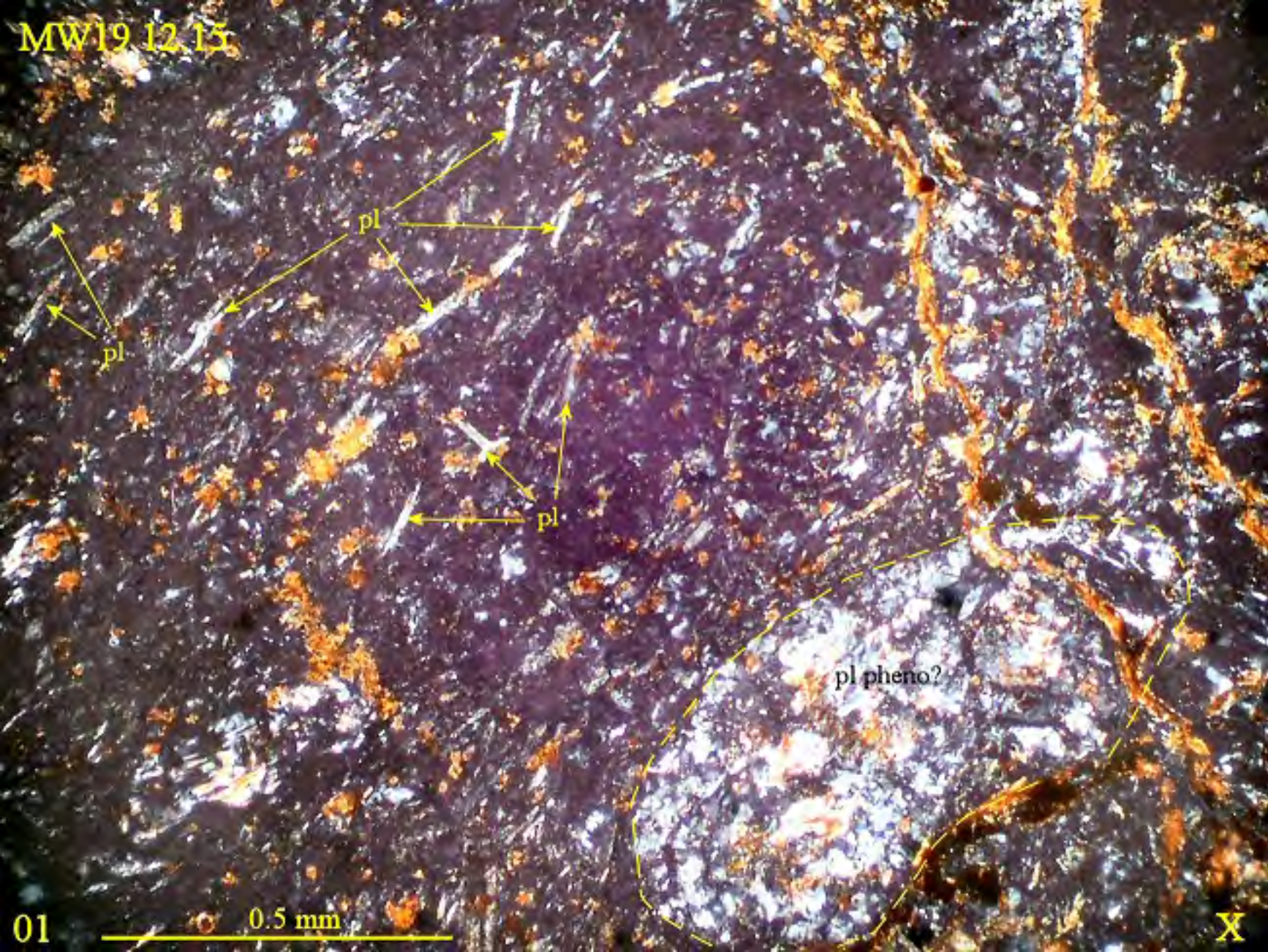
MW19 714.14

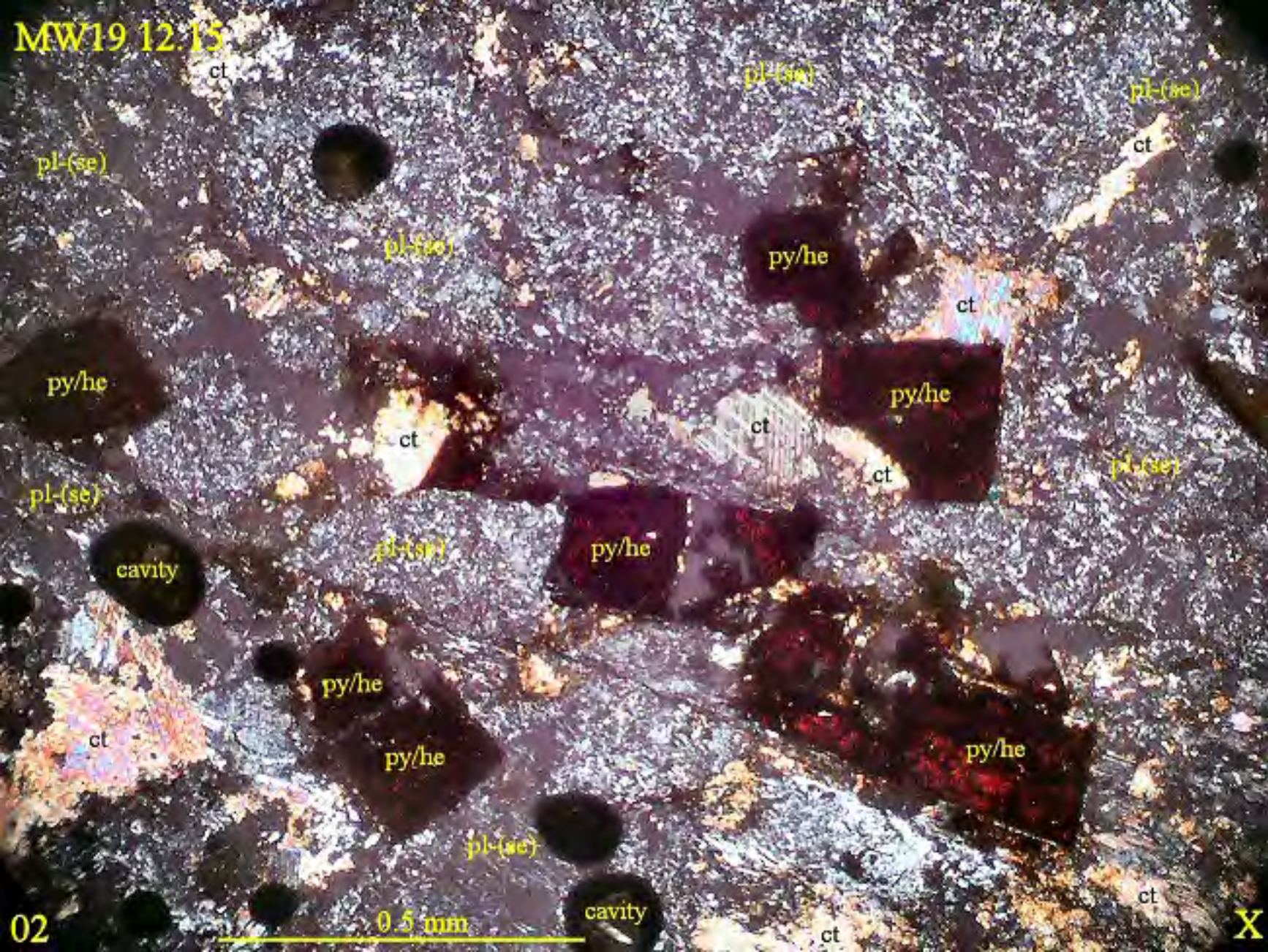
MW19 714.10

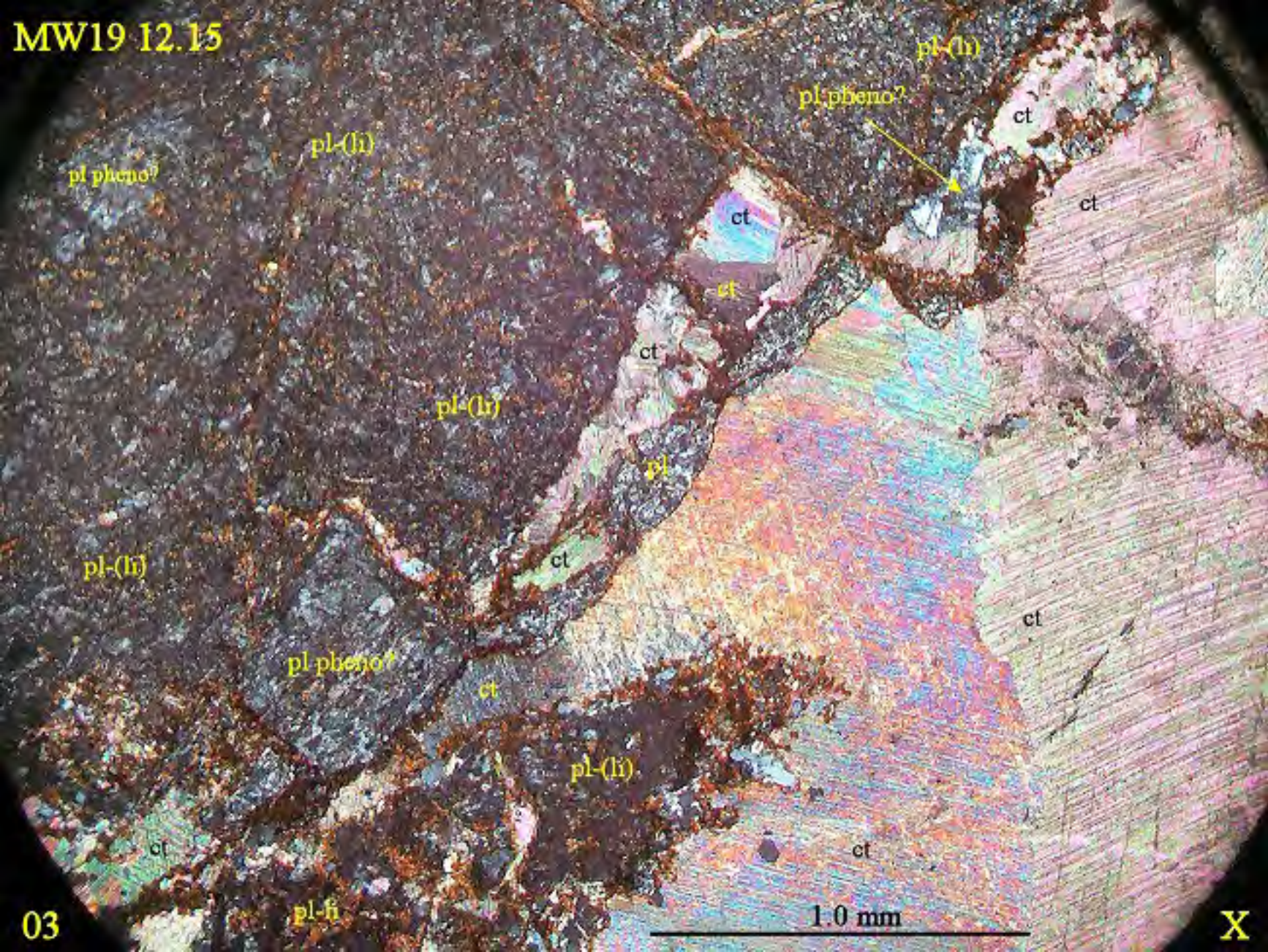
190378 victory sections

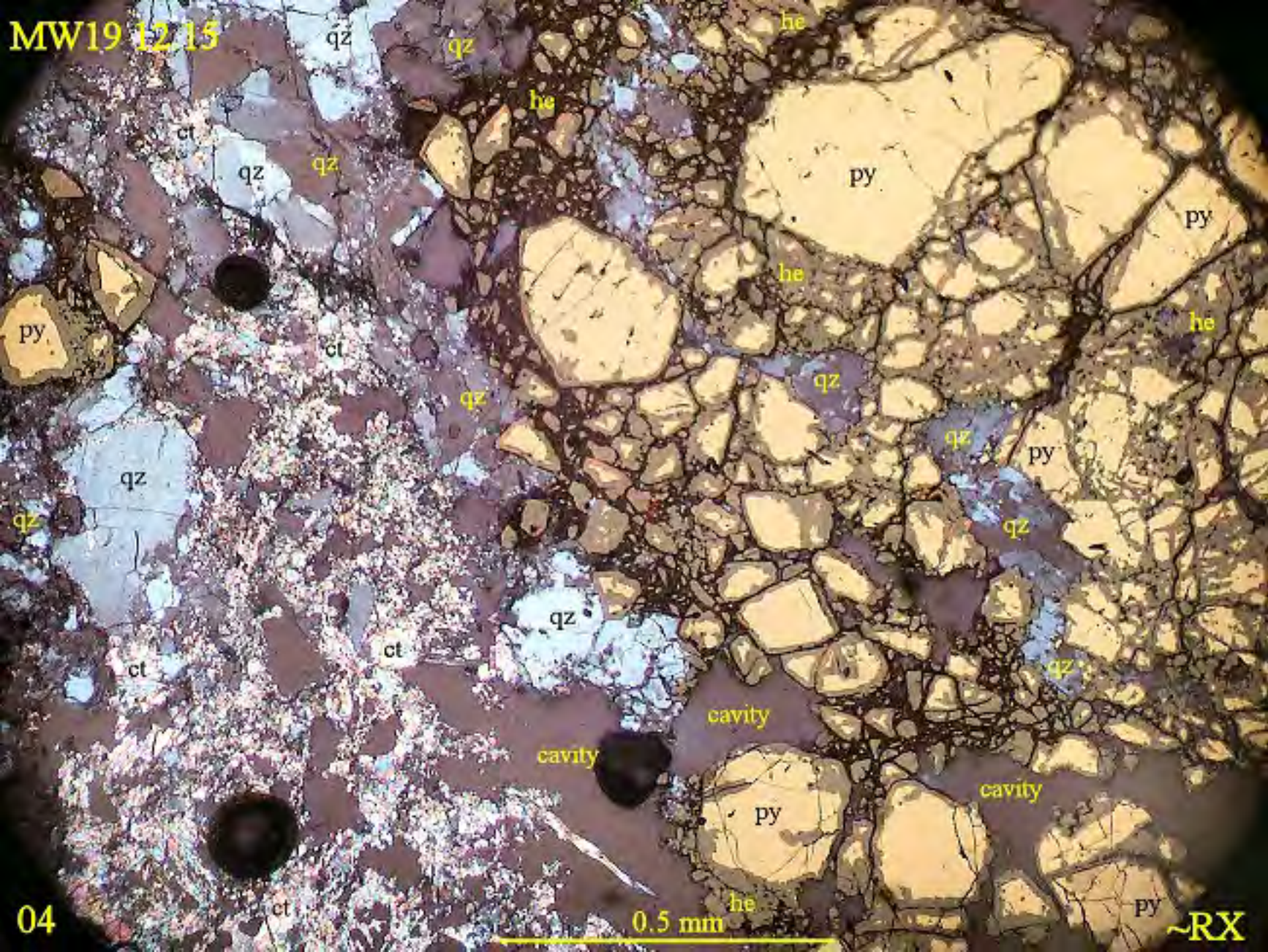




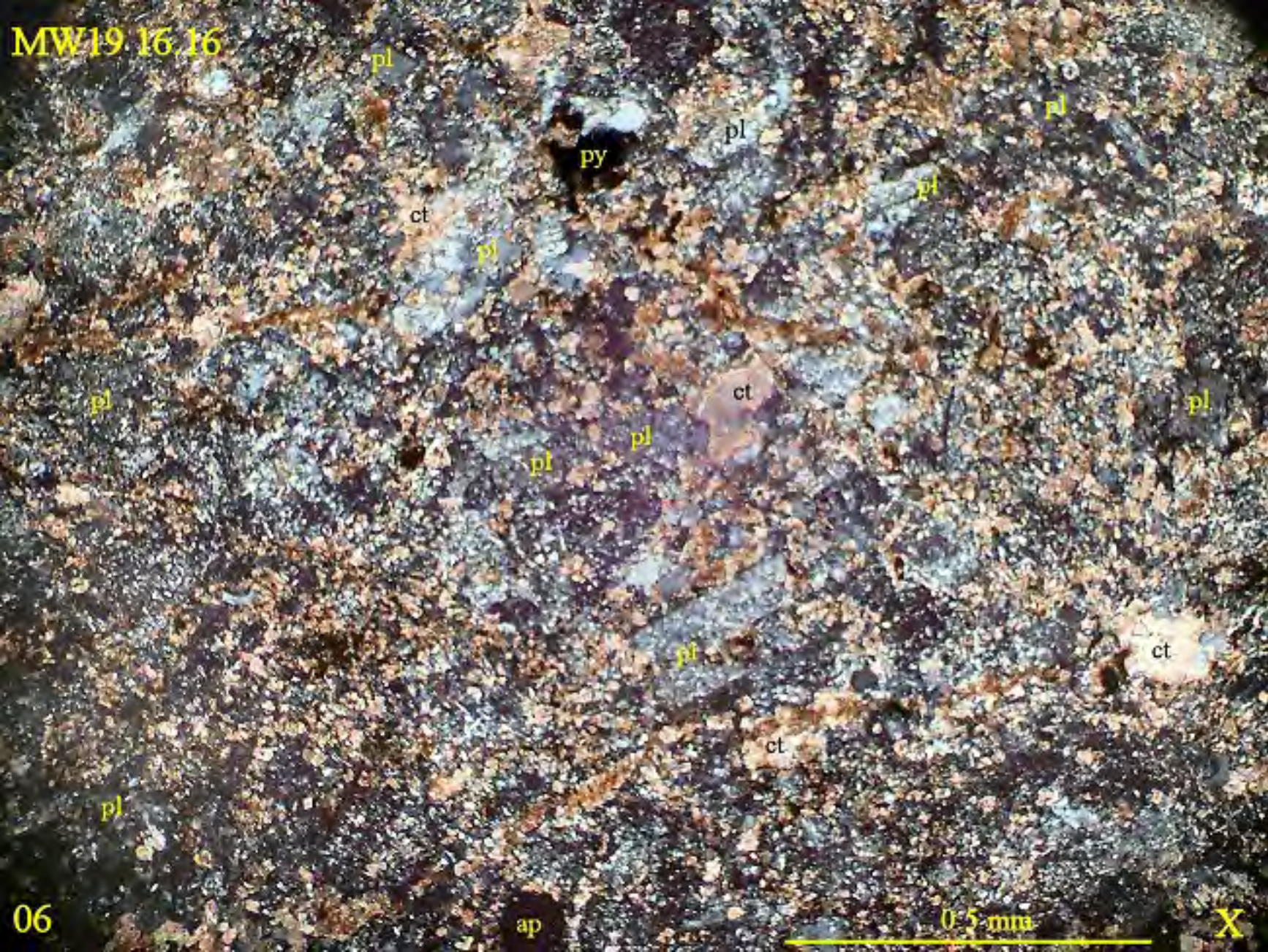

MW19 12 15
pl
pl
pl
pl pheno?
01
0.5 mm
X


MW19 12.15
ct
pl-(se)
pl-(se)
pl-(se)
ct
pl-(se)
py/he
ct
py/he
py/he
ct
ct
pl-(se)
pl-(se)
cavity
pl-(se)
py/he
py/he
ct
py/he
py/he
pl-(se)
cavity
ct
ct
02
0.5 mm
X

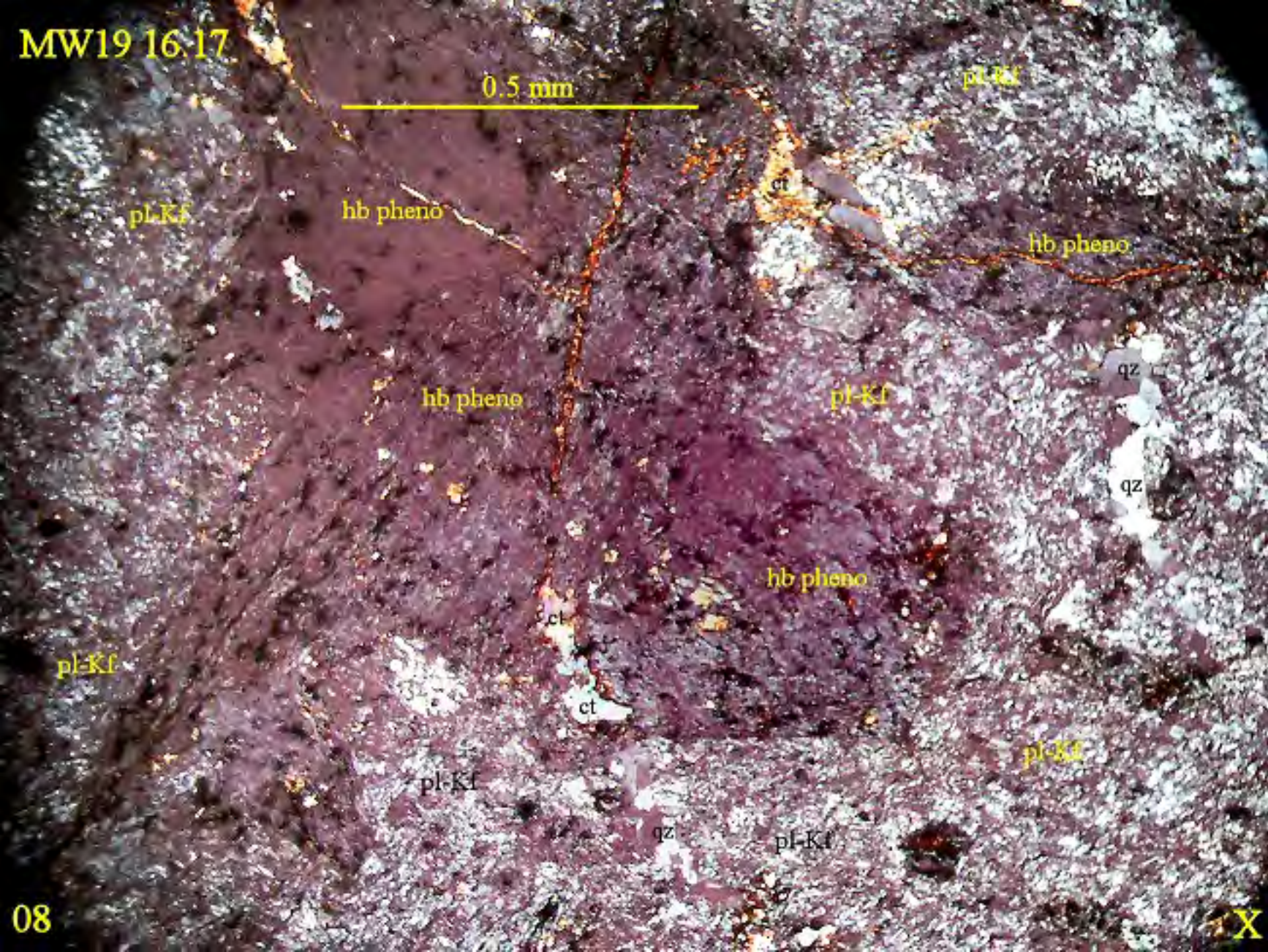

MW19 12.15
pl-(li)
pl phenocryst?
pl-(li)
pl phenocryst?
ct
ct
ct
ct
ct
pl-(li)
pl
ct
pl-(li)
pl phenocryst?
ct
pl-(li)
ct
ct
ct
pl-fi
1.0 mm
03
X


MW19 12.15
qz
qz
he
ct
qz
qz
py
he
py
py
he
ct
qz
qz
qz
py
qz
qz
qz
ct
ct
cavity
cavity
cavity
py
he
py
0.5 mm
04
~RX


MW19 16.16
pl/se
qz-(se)
qz
qz
qz-(se)
qz-se
qz-(se)
ct
qz
qz
pl phenos?
pl/se
pl/se
ct
qz-(se)
qz
qz
il/Ti
qz
qz
ct
qz
ct
ct
ct
ct
qz
il/Ti
qz-(se)
qz
pl/se
pl/se
qz
qz
0.5 mm
X
05

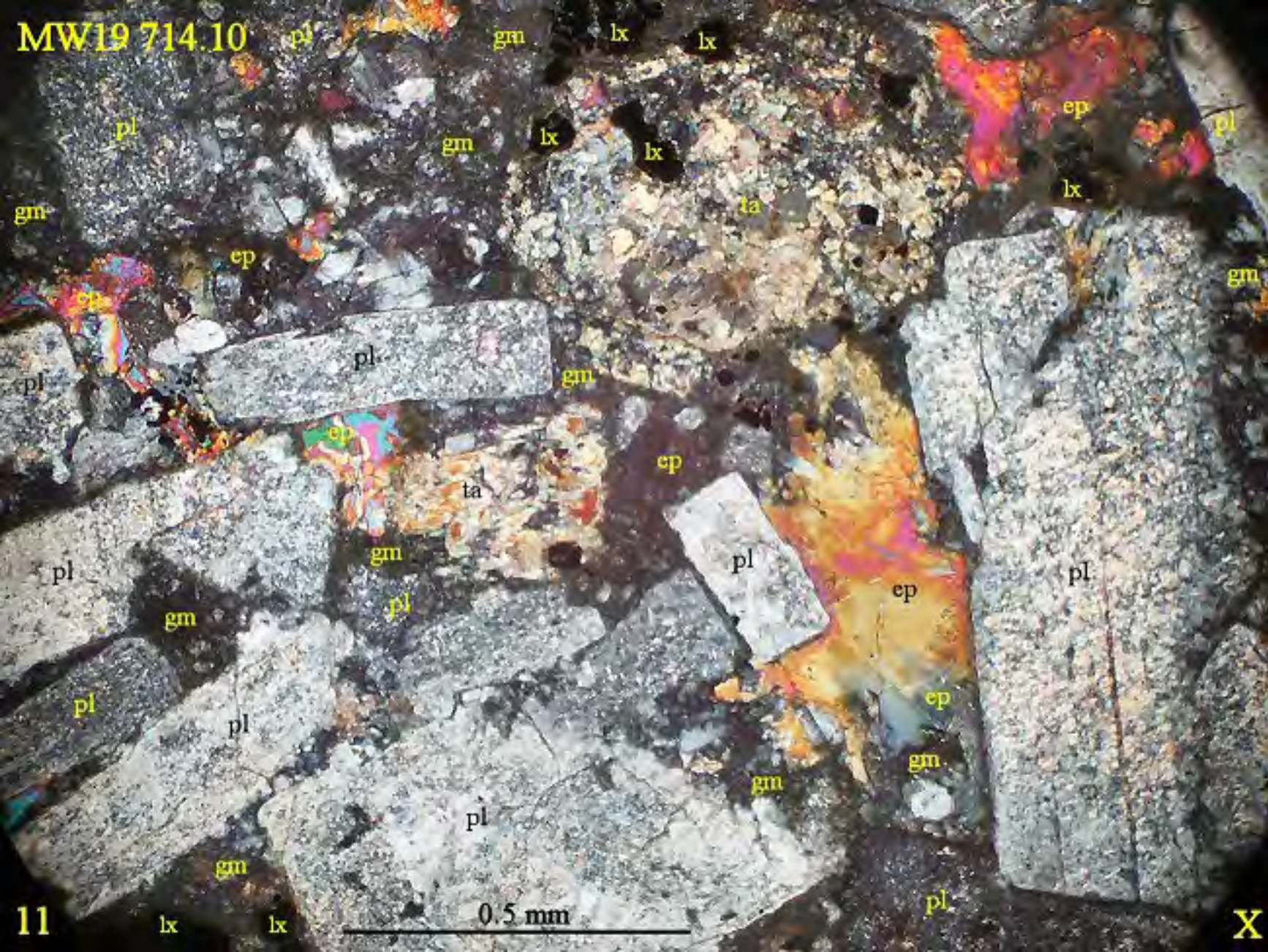

MW19 16.16
pl
pl
py
pl
pl
ct
pl
pl
ct
pl
pl
pl
pl
ct
pl
ct
pl
ct
pl
ap
06
0·5 mm
X

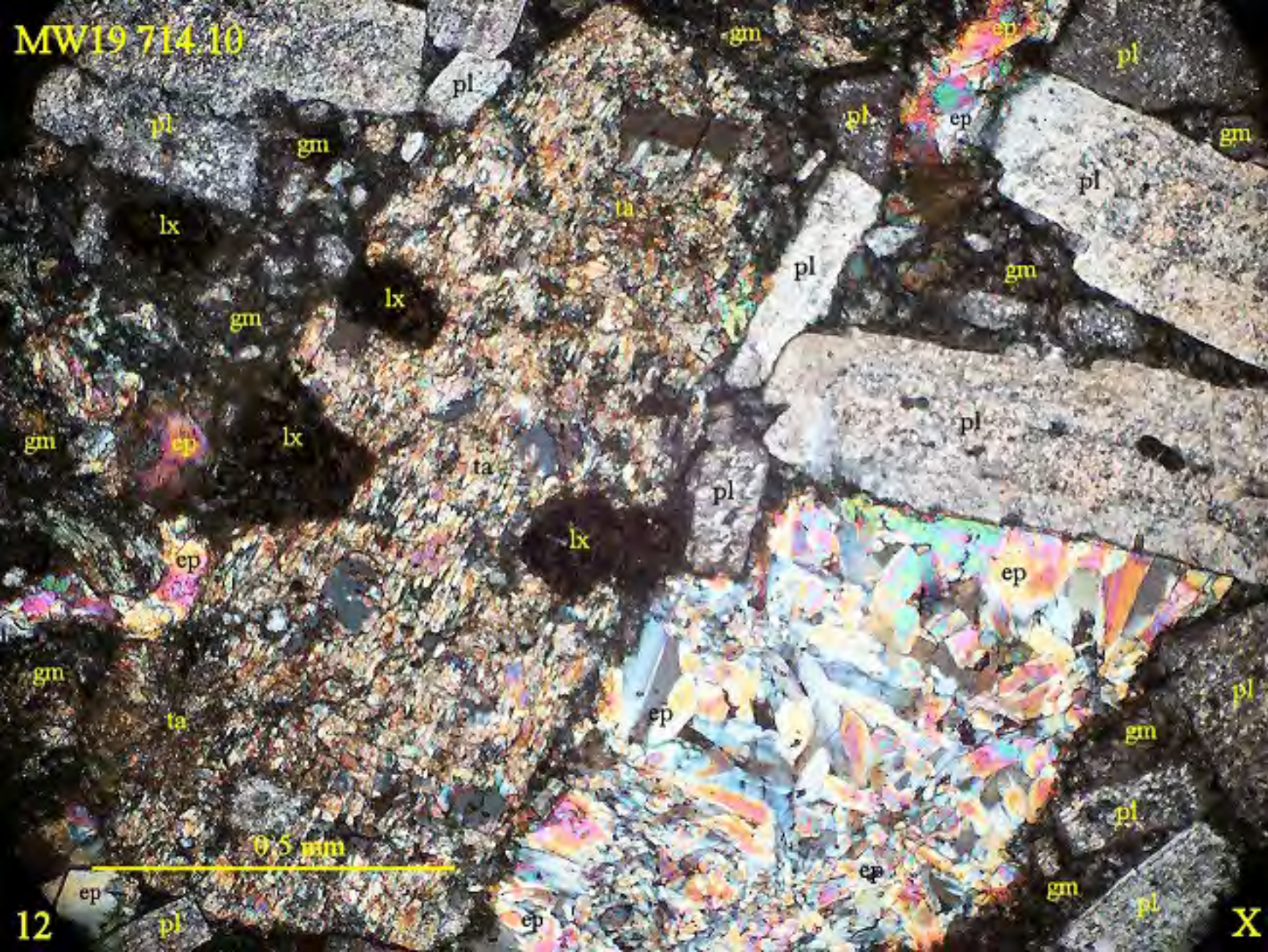

MW19 16.16
pl/se
il/lx
ct
qz
ep
1.0 mm
07
~RX

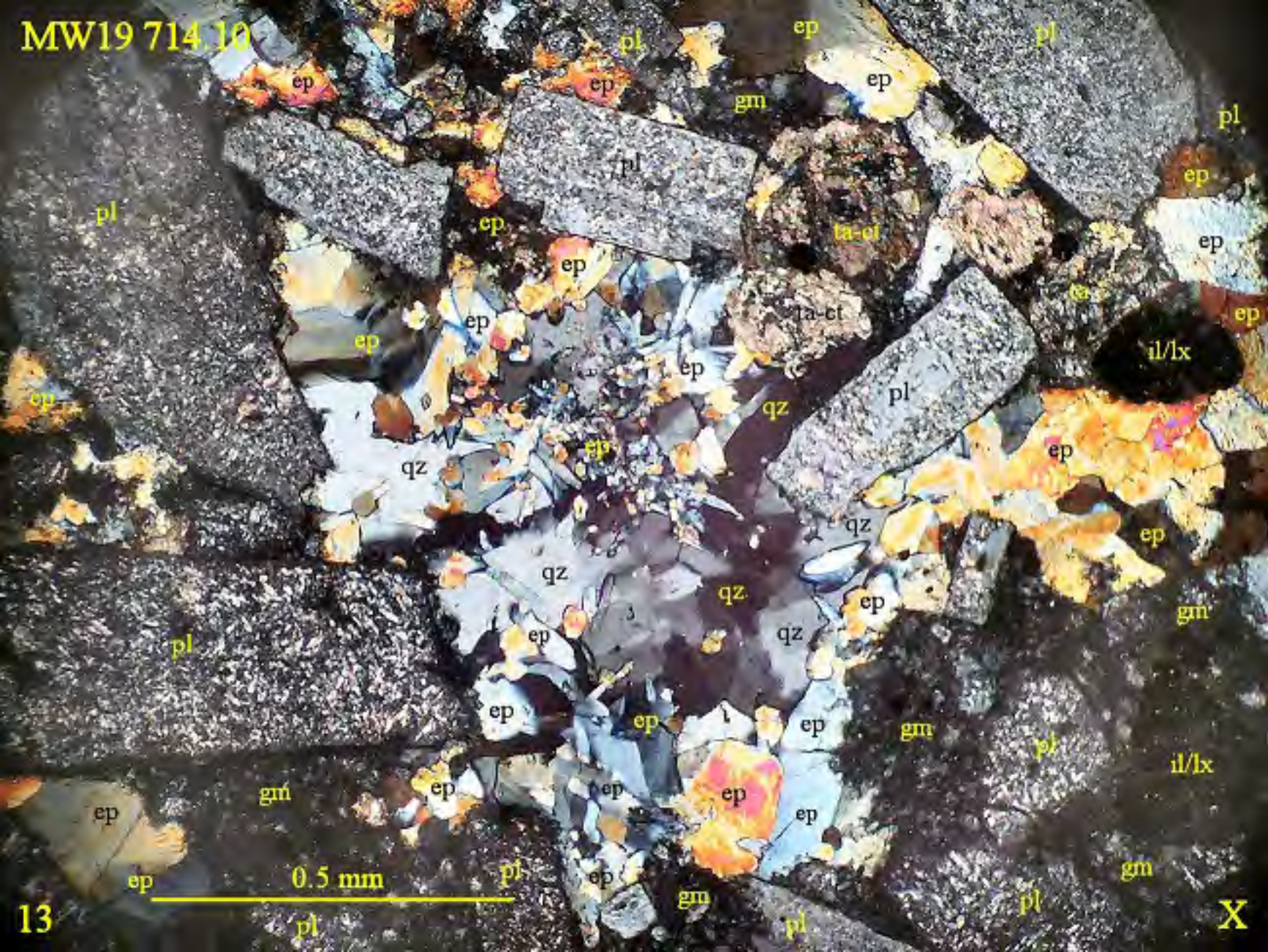

MW19 16.17
0.5 mm
pl-Kf
ct
hb pheno
pl-Kf
hb pheno
qz
hb pheno
pl-Kf
qz
hb pheno
ct
pl-Kf
ct
pl-Kf
pl-Kf
qz
pl-Kf
08
X


MW19 16.17
pl-Kf
pl-Kf
li
qz
qz
li
ct
pl-Kf
Kf
li
li
pl pheno
pl-Kf
li
Kf
li
li
li
qz
pl-Kf
qz
pl-Kf
li
pl-Kf
li
0.5 mm
09
qz
X


MW19 16.17
pl-Kf
qz
ct
hb/cl
hb/cl-(li)
pl-phen
1.0 mm
10
X

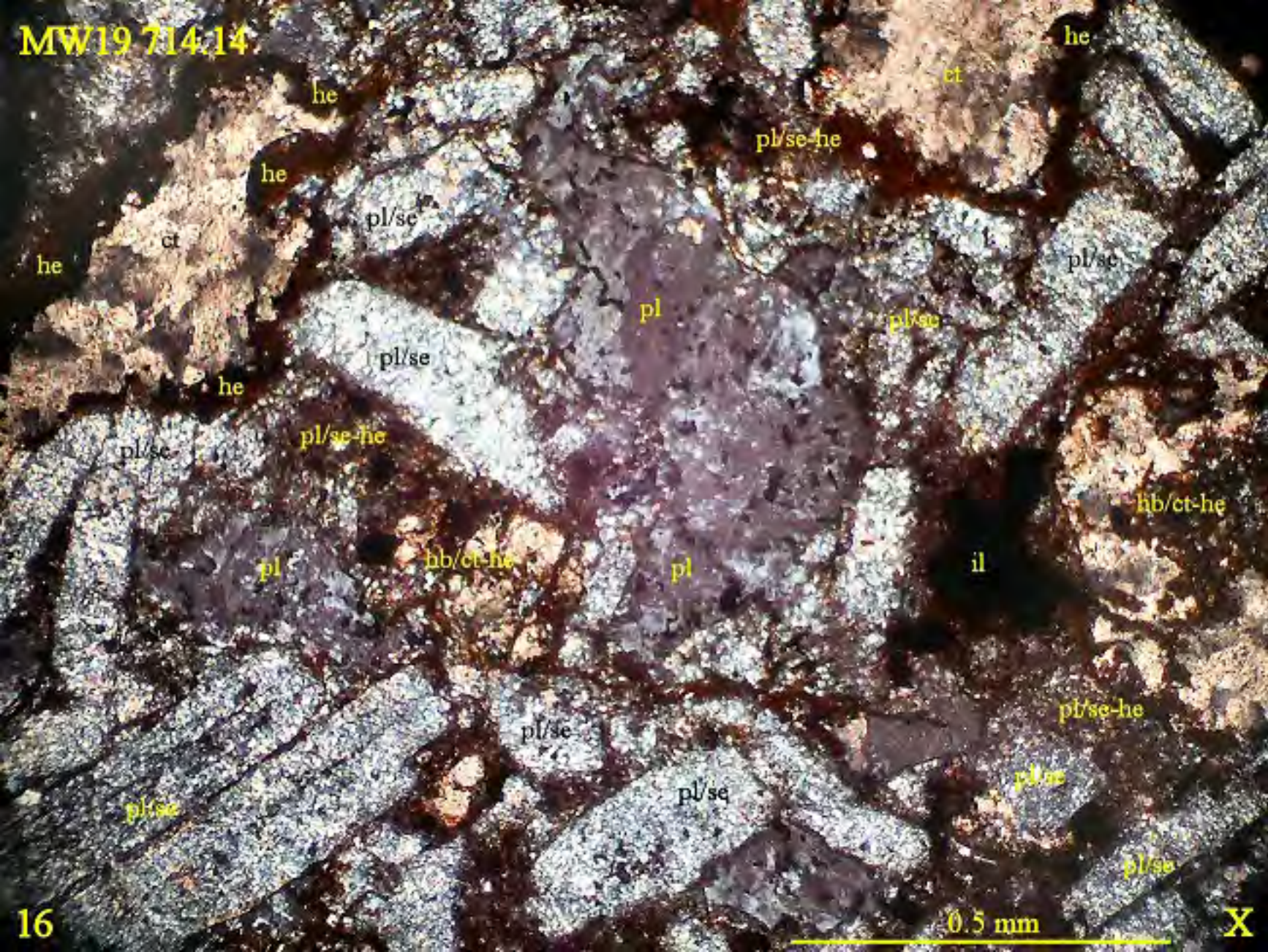

MW19 714.10
pl
gm
lx
lx
pl
gm
lx
lx
ep
pl
gm
ta
lx
ep
gm
ep
pl
pl
gm
ep
ep
ta
gm
pl
pl
ep
pl
gm
pl
pl
ep
pl
gm
gm
pl
gm
pl
0.5 mm
11
lx
lx
X

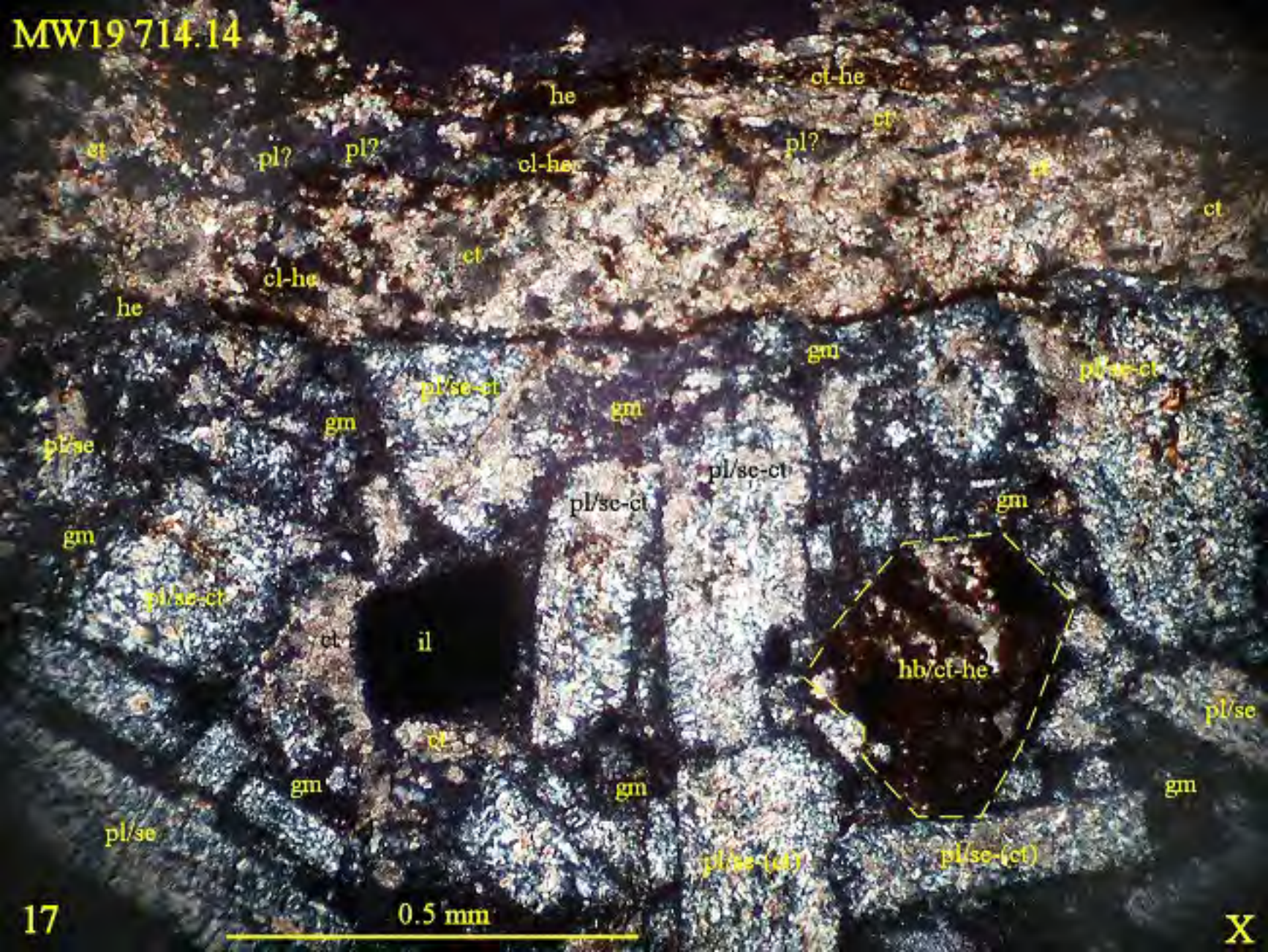

MW19 714.10
pl
gm
ep
lx
ta
0.5 mm
12
X


MW19 714.10
ep
pl
gm
ta-ct
il/lx
qz
0.5 mm
13
X


MW19 714 14
pl/se
il
fib/ct-(se?-il)
14
1.0 mm
X


MW19 714.14
pl/se
pl/se
ct
ct
pl/se-he
pl/se-he
ct
ct
ct
pl/se
pl/se
pl/se-he
pl/se
pl/se
ct
ct
il
pl/se-he
ct
pl/se
ct
pl/se
ct
15
0.5 mm
ct
X


MW19 714.14
he
he
he
ct
he
pl/se
pl/se-he
ct
he
pl/se
pl
pl/se
pl/se
he
pl/se
pl/se-he
hb/ct-he
pl
pl
hb/ct-he
il
pl/se-he
pl/se
pl/se
pl/se
pl/se
16
0.5 mm
X


MW19 714.14
ct-he
he
ct
pl?
pl?
pl?
ct
cl-he
ct
ct
ct
cl-he
ct
he
gm
gm
pl/sc-ct
pl/sc-ct
gm
pl/se
pl/sc-ct
pl/sc-ct
gm
gm
pl/sc-ct
il
ct
hb/ct-he
pl/se
ct
gm
gm
gm
pl/se
pl/se-(ct)
pl/se-(ct)
17
0.5 mm
X