

Assessment Report

**BC Geological Survey
Assessment Report
30413**

**Rock Geochemistry and
Geological Mapping**

On the

Met 1-14, Met Ext, Met 8-A, Met South and Cherry Mineral Claims

Omineca Mining Division

94E/06

**UTM Zone 9 NAD83
602600E 6367500N**

**57⁰ 26' 19.2'' North Latitude
127⁰ 17' 26.7'' West Longitude**

For

Pembroke Mining Corporation

By

Michael Hocking M.Sc.

September, 2008

Introduction.....	4
Location and Access	4
Physiography, Climate and Vegetation.....	4
Claim and Ownership	5
Exploration History.....	8
Regional Geological Setting	9
Property Geology	11
Work Completed 2008.....	11
Rock Geochemistry.....	11
Mineralization and Alteration.....	12
Conclusions.....	13
Appendix I Statement of Qualifications	20
Appendix II Statement of Costs.....	22
Appendix III Rock Sample Descriptions	24
Appendix IV Analytical Certificates	29

List of Figures

- Figure 1 Location Map
- Figure 2 Claim Location Map
- Figure 3 Regional Geology
- Figure 4 Geological Mapping
- Figure 5 Main Zone Rock Sample Locations
- Figure 6 Cirque Zone Rock Sample Locations
- Figure 7 Main Zone Rock Geochemistry (Au)
- Figure 8 Cirque Zone Rock Geochemistry (Au)

Introduction

The Mets Property was examined by the Michael Hocking, Craig Bow, Chris Leslie, Quinn Harper, and Chris Amy on August 24, 2008. The purpose of the visit was to evaluate the economic potential of the claims by validating the location, style and potential of known mineralization as well as assessing the distribution of diamond drill holes relative to mineralized zones. The Cirque, Ridge, BT, Camp, and NW zones were visited and rock samples were collected. The program was helicopter supported. All work including report writing was completed at a cost of \$15 696.29

The work described above successfully identified high-level epithermal alteration and quartz veining that is probably the southern extension of the Mets/Patti system located further to the north. No further work is recommended at this time.

Location and Access

The Met property is located in the Toodoggone District of the Omineca Mining Division with the centre of the claim group located at UTM coordinates 602600 East 6367500 North (UTM Zone 9 NAD83) or $57^{\circ} 26' 19.2''$ North Latitude and $127^{\circ} 17' 26.7''$ West Longitude (Figure 1).

The property can be accessed by helicopter using the nearest fixed wing airstrip, the Sturdee strip located roughly 30 km south of the property from the Omineca Resource road via Fort St. James. The property is connected to the Cheni mine and Sturdee airstrip by roads that access the Al property to the north. These roads were not traversed by the author and may be in need of repair. At the time of this report there was no bridge in place across the Toodoggone River located south of the property.

Physiography, Climate and Vegetation

The property is located in the Intermontane Belt with moderate annual precipitation, cool summers and cold winters. The area consists of a broad erosional plateau with extensive glacial cover incised by gentle drainages. Elevations range from 1500 to 1800 metres above sea level. Tree line is at roughly 1600m. Below tree line the forest is dominated by short subalpine fir and willow while above tree line vegetation is dominantly lichen short grasses and minor clumps of dwarf birch and willow. The claims are largely covered by extensive glacial till although several of the higher areas have distinct areas of good outcrop.

Exploration History

Exploration in the Toodoggone area dates back to 1925 when placer gold was discovered in the McLaren Creek area. Modern exploration for porphyry and epithermal deposits started in 1966 with a regional reconnaissance program by Kennecott that led to the discovery of the Cheni and Lawyers deposits as well as the Kemess porphyry deposits further south. To date minfile records over 70 mineral occurrences in the Toodoggone area.

Recorded exploration work within the Met claim group starts with prospecting and geochemical work for Lacana Mining Corporation (Gower, 1981) on the Metsantan 1-4 claims in 1981 exploring the Chili occurrence as recorded by Kennecott Exploration. This work led to the trenching sampling of the Ridge zone that was subsequently drilled in 1982. Surface sampling from the vein gave significant gold values but results of the drilling were not reported and are presumed to be poor.

The area north of the Ridge showing was acquired by Golden Rule Resources and worked from 1981 to 1990 by Golden Rule as well as via a succession of joint ventures with Manson Creek Resources, Bart Resources and Skeena Resources. This work was all completed by Taiga Consultants Inc. and included mapping, soil geochemistry, rock sampling, trenching and diamond drilling. The soil sampling is best documented in reports by Taiga Consultants (Netolitsky, 1985; Wilson, 1984; Taiga, 1985) with a compilation map provided in AR 20400 (Aussant, 1990).

This work led to the discovery of the Mets deposit located immediately to the north of the Met claims. Golden Rule reported a resource of 158,000 tons @ 0.338 opt Au in 1988 from the A zone and the property was optioned to Cheni Mines in 1992 and 53,518 tons at 0.339 opt Au were mined and trucked to the Cheni Mill (as reported in Hawkins, 1998). Exploration work from 1986 onwards focussed on the A zone at the Mets deposit and little work has been done on the soil anomalies further south and east that are covered by the Met claim group except for some trenching by Bart Resources (Netolitsky, 1985; Taiga Consultants, 1985) and seven shallow holes that were drilled in 1988. The results of this drilling were not reported but the hole collar locations are presented in AR 20400 (Aussant, 1990).

Subsequent work in the area focused on prospecting in the eastern part of the claim block by Mandusa Resources in 1985 and Alpine Exploration in 1995. This work is best summarized by Richards (1995) who provides rough locations for a number of float and suboutcrop samples that assayed as high as 27.7 gpt Au.

Preliminary rock and soil sampling as well as geological mapping were conducted by Paget Resources Corporation field crews in 2006 (Marsden, 2006). Twenty-five soil samples were collected on a single soil contour line. Gold concentrations were below detection and there were no anomalous concentrations of pathfinder elements. Rock samples from the main mineralized area were consistently anomalous in Au and Ag. Samples of narrow structurally controlled vuggy silica returned values of 0.23 to 0.34 gpt

Claim and Ownership

The Met property consists of 20 claims in good standing covering 2734.41 Ha as indicated on Figure 2. They are owned 100% by Paget Resources Corporation (now Pembroke Mining) of 1160-1040 W Georgia St, Vancouver, BC. The claims are currently valid until September 30, October 22, 24, and 25, 2008.

Table 1: Claim Status

Tenure #	Issue Date	Claim Name	Owner	Status	Area	Good-to-date
521429	22-Oct-05	MET 1	201036 (100%)	GOOD	417.78	22-Oct-08
521430	22-Oct-05	CHERRY	201036 (100%)	GOOD	174.24	22-Oct-08
521431	22-Oct-05	MET 2	201036 (100%)	GOOD	278.68	22-Oct-08
521432	22-Oct-05	MET 3	201036 (100%)	GOOD	174.17	22-Oct-08
521434	22-Oct-05	MET 4	201036 (100%)	GOOD	69.67	22-Oct-08
521435	22-Oct-05	MET 5	201036 (100%)	GOOD	34.84	22-Oct-08
521436	22-Oct-05	MET 6	201036 (100%)	GOOD	34.81	22-Oct-08
521437	22-Oct-05	MET 7	201036 (100%)	GOOD	34.84	22-Oct-08
521438	22-Oct-05	MET 8	201036 (100%)	GOOD	69.60	22-Oct-08
521439	22-Oct-05	MET 7	201036 (100%)	GOOD	156.81	22-Oct-08
521440	22-Oct-05	MET 8	201036 (100%)	GOOD	365.97	22-Oct-08
521441	22-Oct-05	MET 10	201036 (100%)	GOOD	34.82	22-Oct-08
521442	22-Oct-05	MET 11	201036 (100%)	GOOD	17.41	22-Oct-08
521443	22-Oct-05	MET 12	201036 (100%)	GOOD	17.42	22-Oct-08
521444	22-Oct-05	MET 13	201036 (100%)	GOOD	17.42	22-Oct-08
521445	22-Oct-05	MET 14	201036 (100%)	GOOD	17.42	22-Oct-08
		MET				
521464	24-Oct-05	EXT	201036 (100%)	GOOD	17.41	24-Oct-08
521486	25-Oct-05	MET 8-A	201036 (100%)	GOOD	17.40	25-Oct-08
		MET				
521487	25-Oct-05	SOUTH	201036 (100%)	GOOD	366.01	25-Oct-08
532857	21-Apr-06	MET NE	201036 (100%)	GOOD	104.44	30-Sep-08
		MET				
532868	22-Apr-06	EXT 1	201036 (100%)	GOOD	278.43	30-Sep-08
557506	23-Apr-07	MET W	201036 (100%)	GOOD	34.83	30-Sep-08
					2734.41	

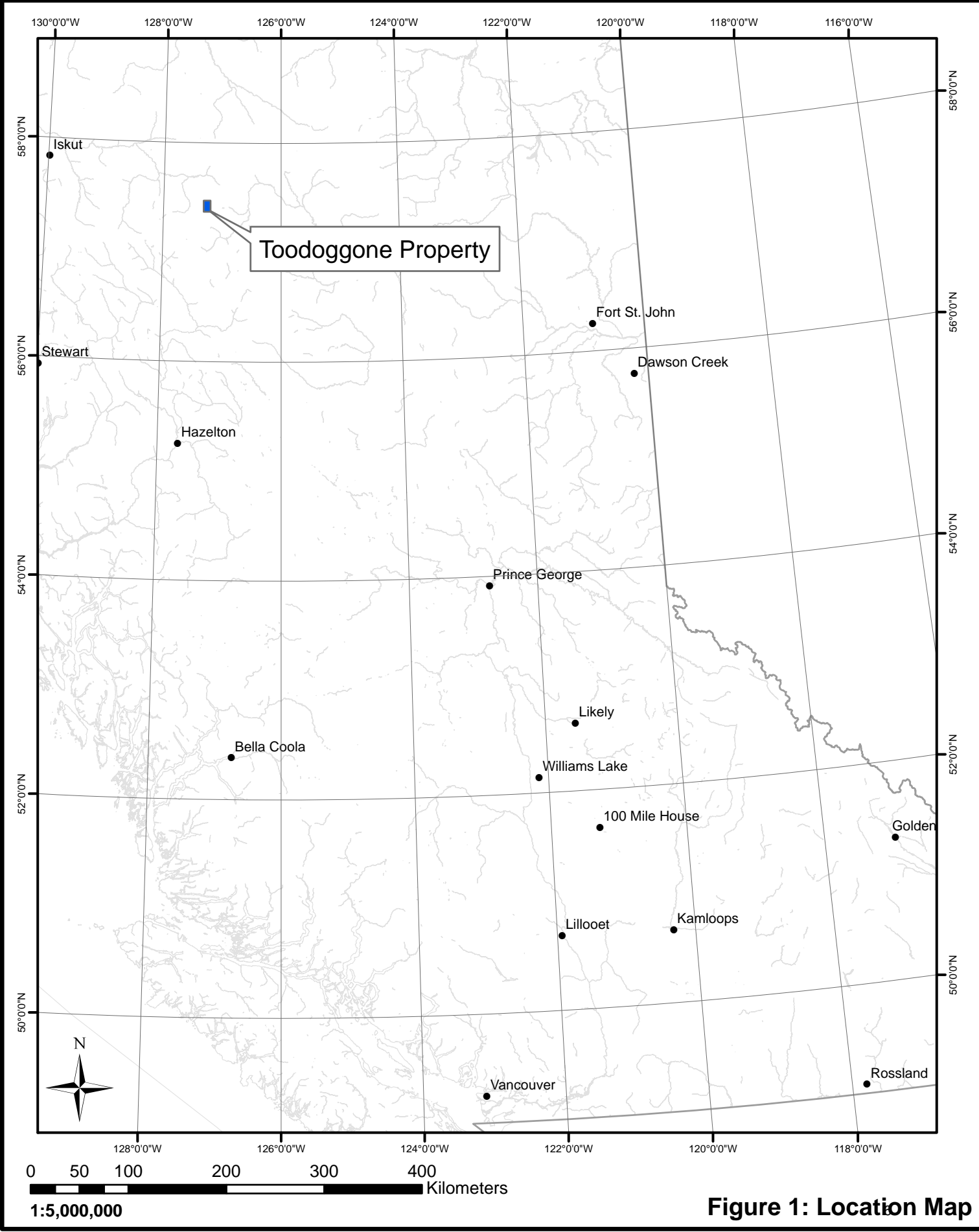


Figure 1: Location Map

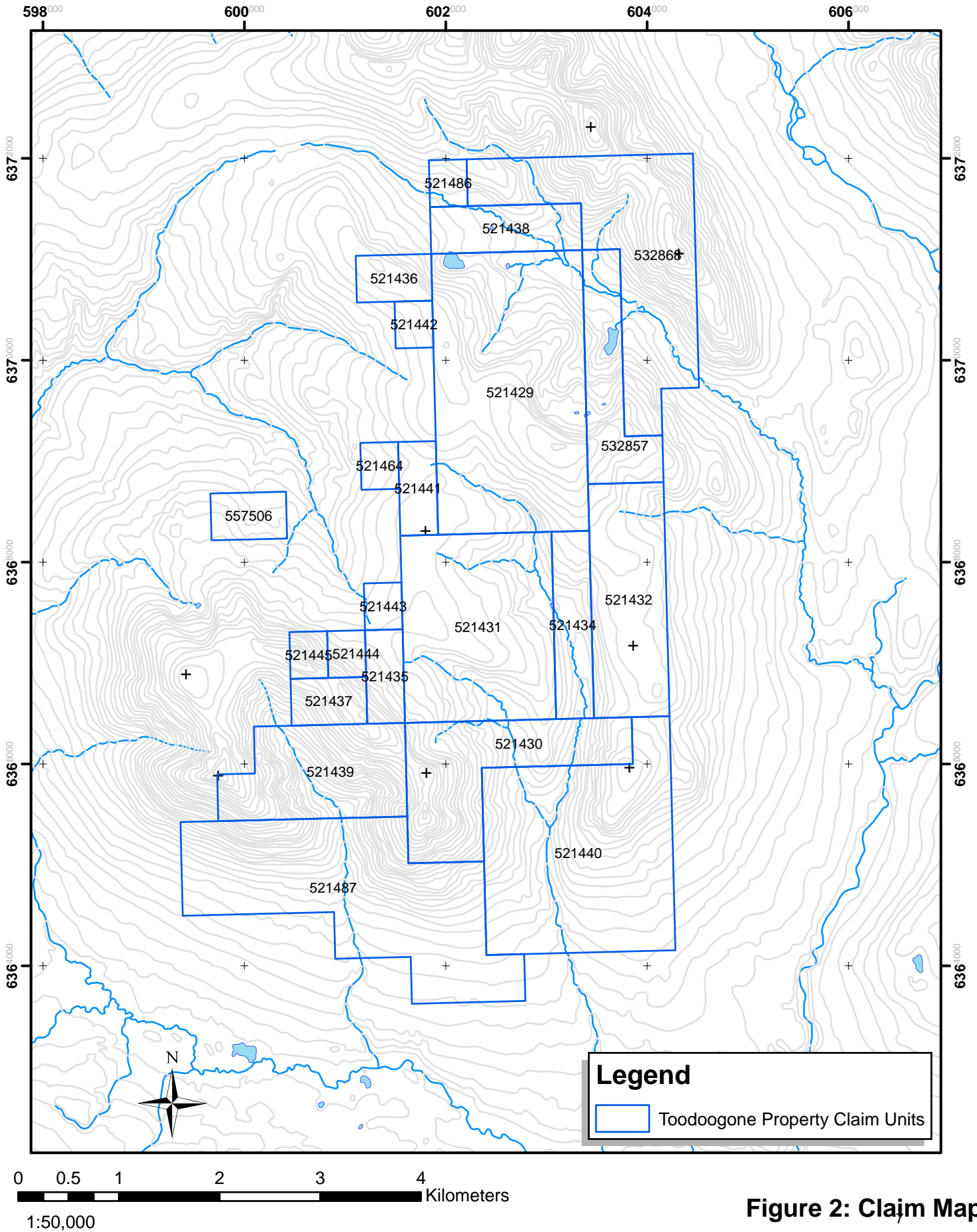


Figure 2: Claim Map

Au. Gold concentration in vein samples ranged from 1.5 to 4.5 gpt Au and 105 – 133 gpt Ag. Rusty, illite-pyrite, rock returned values between 0.4 to 0.88 gpt Au. A single float sampled at the Cirque-Lexim zone contained 11.0 gpt Au and 430 gpt Ag, other samples were not anomalous.

Regional Geological Setting

Mineral deposits in the Toodoggone area are largely related to or hosted by Early to Middle Jurassic volcanics of the Hazelton Group. These rocks unconformably overlie the late Triassic Takla Group mafic volcanics and Permian limestone of the Asitka Group. The Toodoggone Formation was proposed by Daikow et al. (1993). Daikow recognized a belt 90 km long and 15 to 2 km wide underlain by extensive subaerial volcanic rocks of dominantly latite to dacite composition. He proposed dividing the Toodoggone Formation into lower and upper volcanic cycles that could further be divided into six members. The area around the Mets property is underlain by rocks of the lower cycle and dominantly by rocks of the Metsantan Member, consisting of feldspar phyric latite flows and flow breccia with minor interflow laharic deposits and finer grained epiclastic volcanic sediments. K-Ar dating indicated ages from 200 to 197 Ma. The Toodoggone volcanics are bounded to the west by the Sustut basin, a Cretaceous to Paleocene basin characterized by conglomerate and maroon to green well bedded mudstone to siltstone with interbedded sandstone of probable Albian age. A regional geological map is presented in Figure 3.

Mineral deposits in the Toodoggone River area consist of porphyry occurrences, epithermal vein deposits and quartz barite gold silver bodies associated with high sulphidation alteration. Porphyry deposits include the Porphyry Pearl showing, the Pine showing and, further south, the currently producing Kemess Mine. Epithermal vein deposits have been the most important deposits in the camp. The largest known deposit to date is the Lawyers deposit or Cheni Mine that initiated production in 1989. By the end of 1991 the mine had yielded 499,899 tonnes of ore at 8.6 gpt Au and 190 gpt Ag. Resources remaining in ground consisted of two zones. 279,388 tonnes @ 6.8 gpt Au and 197 gpt Ag. The Baker Mine also produced small amounts of ore from the A vein hosted in the Triassic Takla group volcanic rocks, yielding 77,500 tonnes of ore at 15 gpt Au and 298 gpt Ag between 1981 and 1983. The Shasta deposit was mined from 1989-1991 yielding 106,300 tonnes of ore grading 4.5 gpt Au and 250 gpt Ag. High sulphidation deposits are largely clustered around the north end of the camp adjacent the Met property in an area of roughly 10 km² around the Alberts Hump, Thesis and Mets zones. Work by Energex Minerals Ltd up to 1987 indicated a resource of 340,000 tonnes @ 9.6 gpt Au in three zones (Bonanza, BV, and Thesis III). The Mets deposit was reported to contain a resource of 158,000 tons @ 0.338 opt Au in by Golden Rule Resources in 1988. The deposit produced 53,518 tons at 0.339 opt Au in 1992. The Silver Pond deposit showing further south is another high sulphidation showing with a small gold resource of 63,500 tonnes @ 5.83 gpt Au.

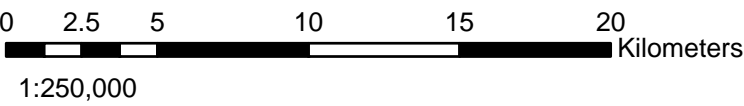
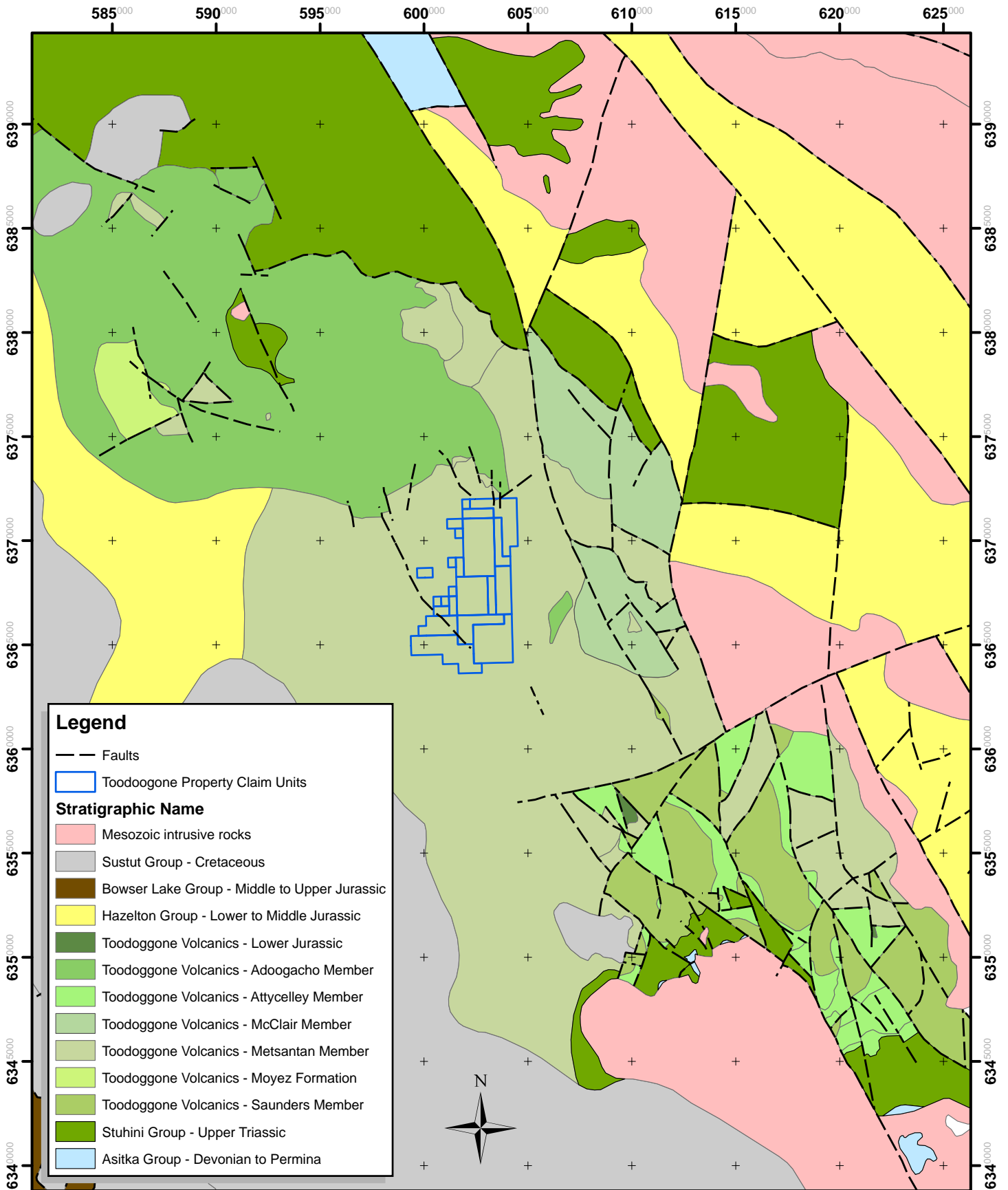


Figure 3: Regional Geology

Property Geology

Mapping by Daikow et al (1993) show the Met property to be underlain solely by latite flows of the Metsantan member of the Toodoggone Formation. Along the northwest margin of the claims these rocks are shown to include minor lahric and tuffaceous rocks. Further north near Alberts Hump the underlying tuffaceous rocks of the Adoogacho Member are exposed. A northwest trending fault through the principal showings (Metsantan, Mets, Bonanza) is shown on the maps accompanying the report (see Figures 3 and 4).

Mapping during the 2008 program was very limited and focussed on the mineralized areas. The entire area is underlain by massive green to mauve coloured feldspar phyric rocks with orange to white plagioclase crystals 3-8mm long. These rocks are commonly very massive and lack fragmental textures. Very similar rocks with clear fragmental textures were observed in the outcrops near the Cirque area.

Work Completed 2008

The Toodoggone (Met) Property was examined by the author and four other Pembroke employees during the course of a single day in September, 2008. The purpose of the visit was to evaluate the economic potential of the claims with emphasis on mapping and sampling at the Ridge Zone and the on the ridge NW of the North Zone.

Mapping and rock sampling was completed on tenures; 521429, 521430, 521437, 521439 and 532857, 532868, 521445, and 521444 (Figures 4, 5, 6, 7, 8). A map of geological observations is presented in Figure 4.

Rock Geochemistry

Rock samples were collected from various mineralized zones on the property in order to define the character and location of the better mineralized zones on the property. The samples types vary from selected grab samples of mineralized rock to continuous chip samples across a specific width. Samples were collected in plastic sample bags and sealed with plastic zip ties. Sample locations were recorded by GPS. Samples were shipped to the lab directly from the project area in sealed bags with security tags. Sample locations are marked with flagging tape and embossed aluminum tags.

At the laboratory, the samples were dried crushed and pulverized using standard rock preparation procedures. The pulps were then analyzed for Au using a 30 gram fire assay with AA finish and for 30 elements by ICP. Quality control at the laboratory is maintained by submitting blanks, standards and re-assaying duplicate samples from each analytical batch.

Rock sample descriptions are included in Appendix III and the associated analytical results are in Appendix IV. Rock sample locations for the Main and Cirque Zones are

presented in Figures 5 and 6. Analytical results (Au) for rock samples collected at the Main and Cirque Zones are presented in Figures 7 and 8.

Mineralization and Alteration

A concerted effort was made by two Paget field teams to conduct additional mapping and geological sampling on this remote target. Targets are mooted low sulfidation vein arrays hosted by Jurassic subaerial felsic volcanic rocks. Previous traverse sampling (Marsden, 2006) confirmed the presence of potentially economic grade mineralization at several points along the kilometre long, curvilinear ridge which focused previous exploration efforts.

The 2008 program evaluated most of the known mineralized zones on the property. The area with the most previous work is the Metsantan showing comprising the Ridge, South Silver, North Silver, North and BT zones. These zones all make up a NW trending corridor of localized alteration, veins composed of coarse white coxcomb quartz and structurally controlled, narrow vuggy silica alteration. Alteration around the veins and vuggy silica zones is generally limited to weak to moderate bleaching and iron staining of the volcanics. These are narrow zones, generally less than one metre wide although there are some zones of strong clay pyrite up to several metres wide.

The most significant zones appear to be the Ridge zone, the BT zone, North and North BT Zone.

Cirque

The Cirque Zone consists is comprised of non-magnetic, pink, feldspar-biotite porphyritic volcanic rocks. Potassic alteration, as noted by previous workers, was not observed. Coarse-grained quartz-pyrite veins with minor iron-carbonate oxide were observed in peripheral talus, a sample returned gold values of 340 ppb. Boulders of quartz-mudstone-porphyry conglomerate were also noted in the area.

Camp Zone

Deteriorating core racks were inspected at the camp zone. Two samples were collected from the DDH 88-7 including one sample of grey vuggy-textured quartz and one sample of clay-pyrite altered volcanic rock. The samples returned gold values of less than 100 ppb; volatile elements are slightly elevated (232-329 ppm Sb, 27-208 ppm As).

North Zone

A traverse of the ridge trending northwest from the North Zone revealed a number of trenches and patches ($\leq 5\text{m}^2$) of white clay-altered (argillic) volcanic rocks. Open space fill silica, quartz vein, and pyrite-illite alteration were sampled along the dozer track and

in trenches and returned anomalous gold values up to 441 ppb. A single sample of structurally controlled silica/silicification returned a gold value of 1.46 gpt. The silica was observed adjacent to relatively unaltered volcanic rocks. Silica zones are oriented west to southwest and dip steeply to the north. Vuggy textured blocks were observed peripheral to some trenches.

Ridge Zone

The Ridge Zone occupies the extreme southern end of the system and was not previously sampled by Paget. Shallow hand dug trenches explore multiple zones of narrow, anastomosing quartz veinlets hosted by a crowded k-feldspar porphyritic rhyodacitic volcanic unit. Individual veinlets display comb quartz and locally drusy textures indicative of open space fillings; veinlet arrays trend approximately 010 and dip very steeply westwards. Stockwork or ladder vein arrays are locally conspicuous. Vein fill and immediate wall rocks contain up to 3% fine grained pyrite. Individual vein arrays range to 2.5m in width and are enclosed by visually barren, propylitic altered volcanic rock. Historic drill pads were identified around three sides of the Ridge Zone knob and record clear attempts to drill the target from different directions. Five drill holes were drilled in 1982. Results were not reported and are presumed to be insignificant. Failure to intersect grades and widths of mineralization equivalent to those obtained in trenches suggests discontinuity in the vein system rather than failure to drill from an appropriate platform with appropriate hole direction.

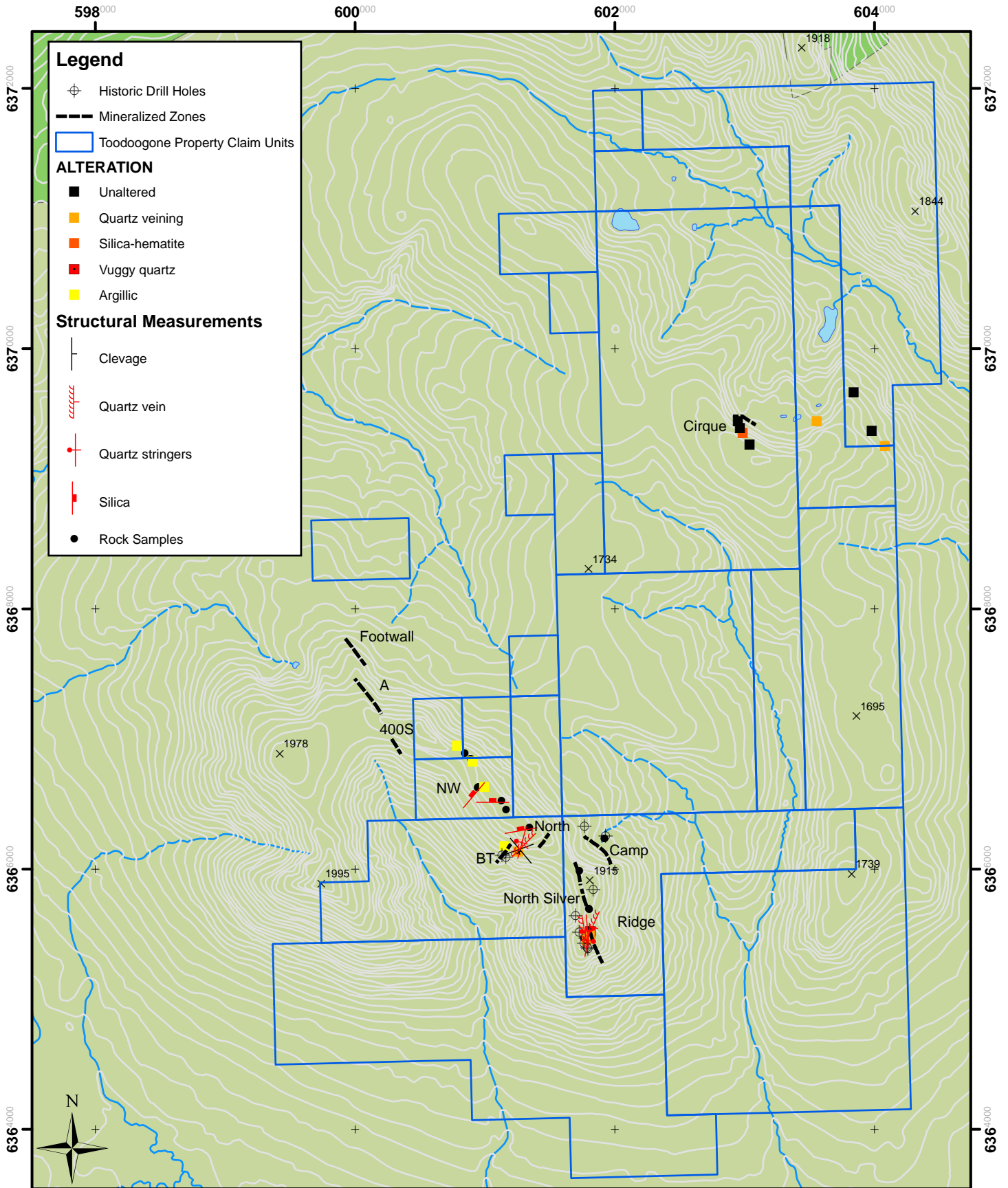
Central and BT Zones

Although less well exposed, similar, narrow veins and areas of sulfidized wall rock were observed and sampled in the Central Silver and BT zones. The traverse ended down slope of BT in an area with multiple historic Au-in-soil anomalies. We encountered only fresh volcanic rock and poorly developed, un-mineralized regolith in this area, and the anomaly remains unexplained.

Conclusions

Previous explorations programs have been unable to expand known surface mineralization with diamond drilling. Field mapping did not identify targets that have not already been sufficiently tested at depth.

Assay results confirm anomalous Au, base metals and Ba mineralization within narrow veinlets and veinlet stringer zones. The highest Au values are in the 3 g/t range. The absence of high grade Au mineralization, the remote location, and past exploration failures suggests no further work is warranted.



0 250 500 1,000 1,500 2,000 2,500
Meters

1:40,000

Figure 4: Geological Mapping

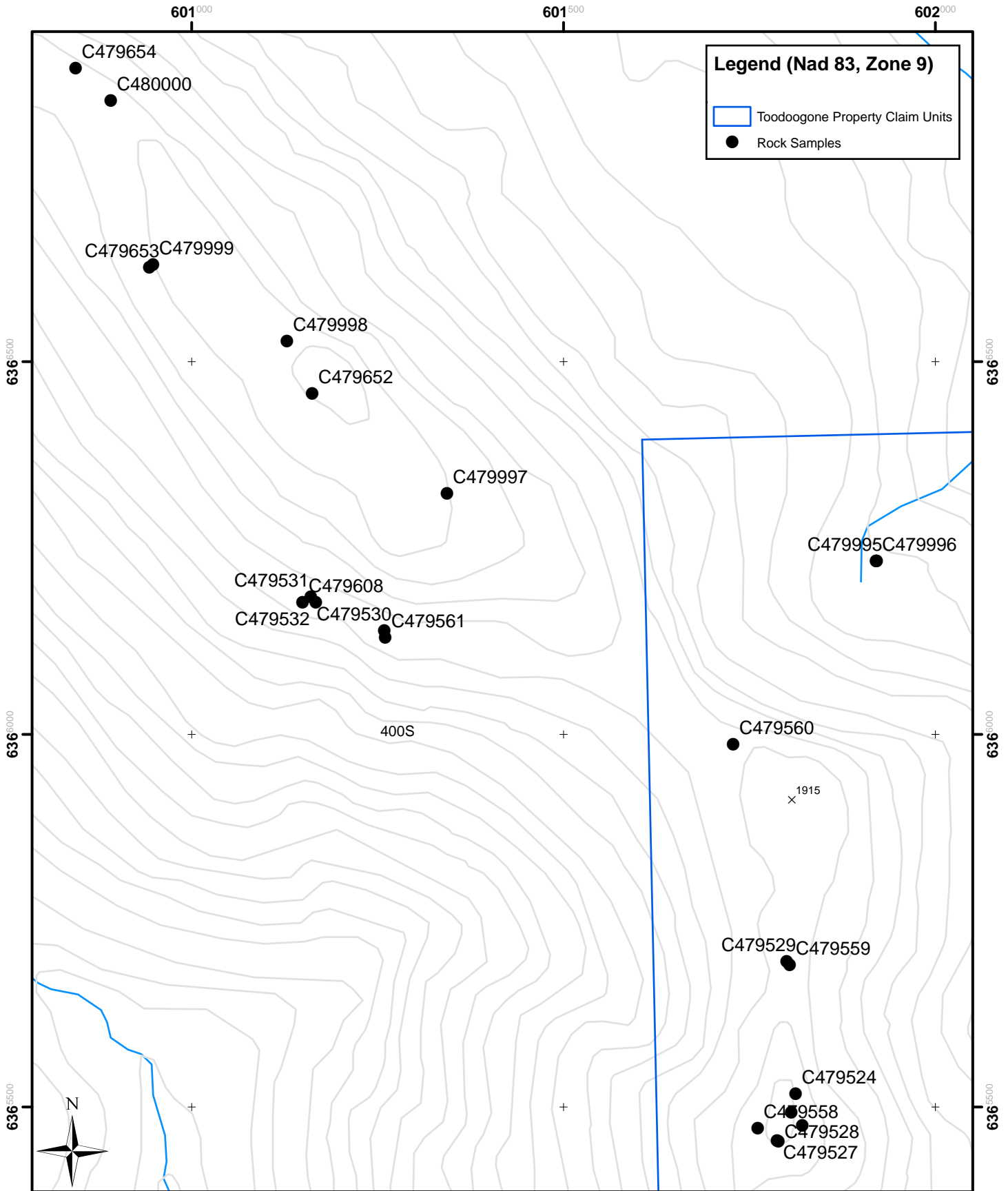


Figure 5: Main Zone Rock Sample Locations

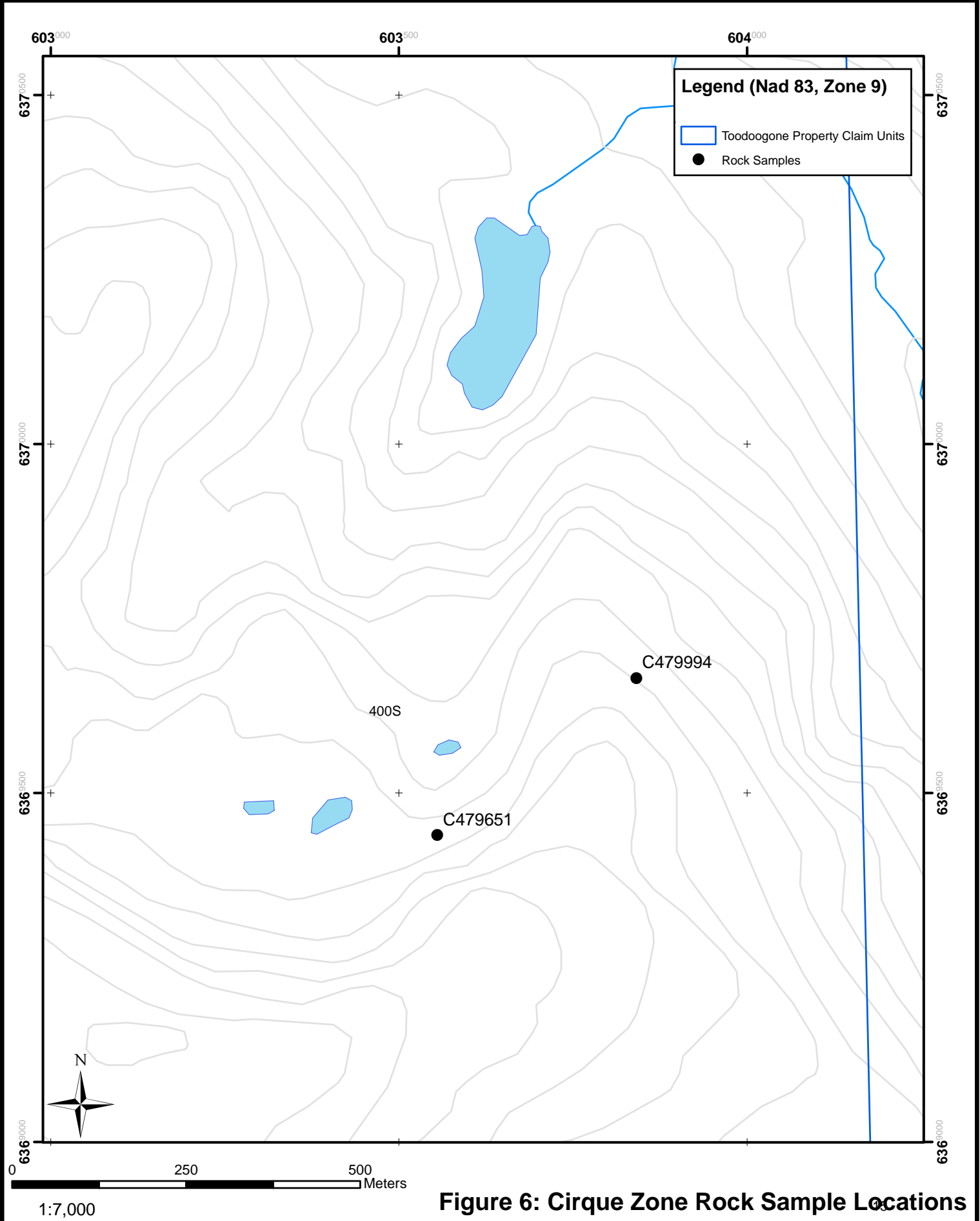


Figure 6: Cirque Zone Rock Sample Locations

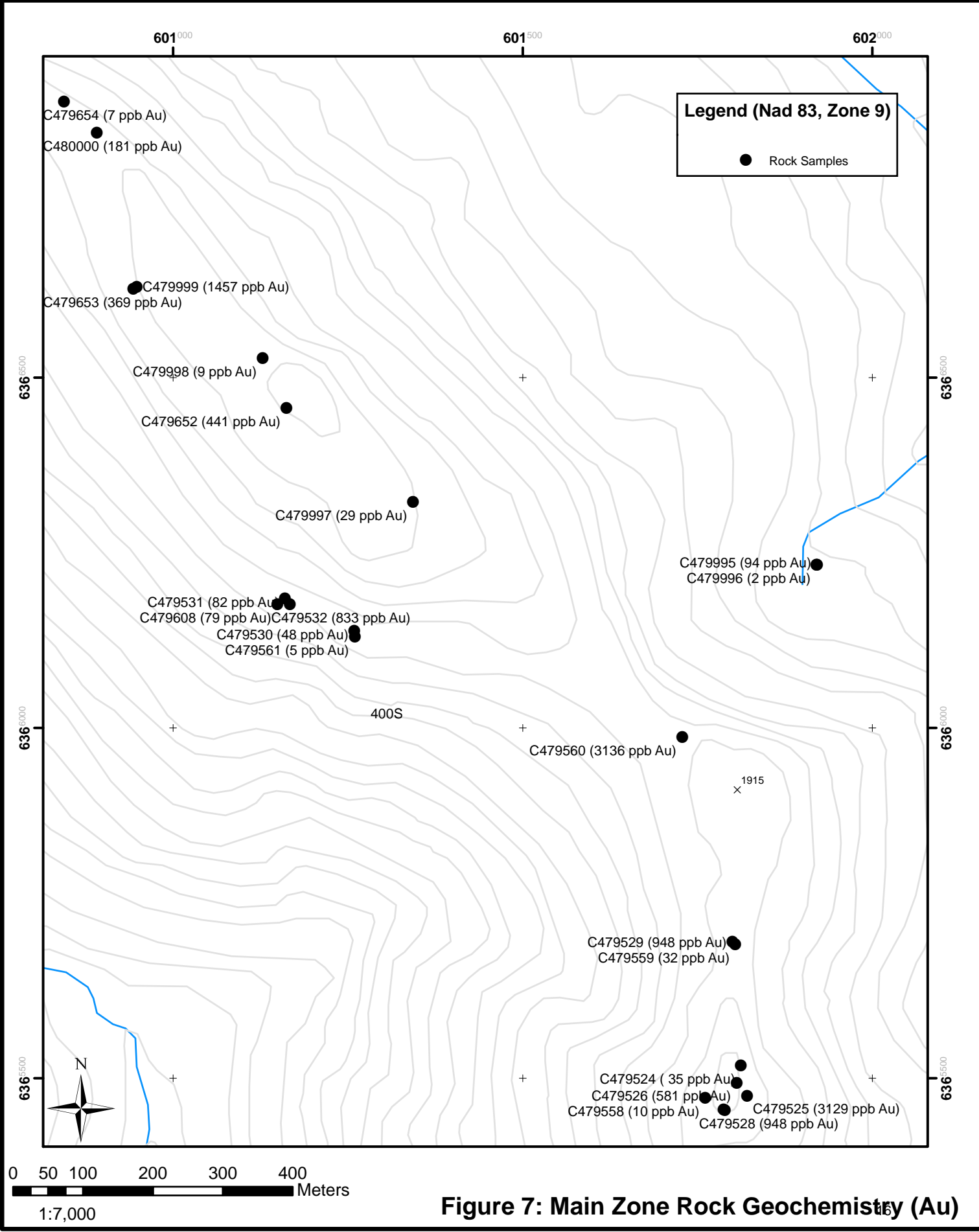
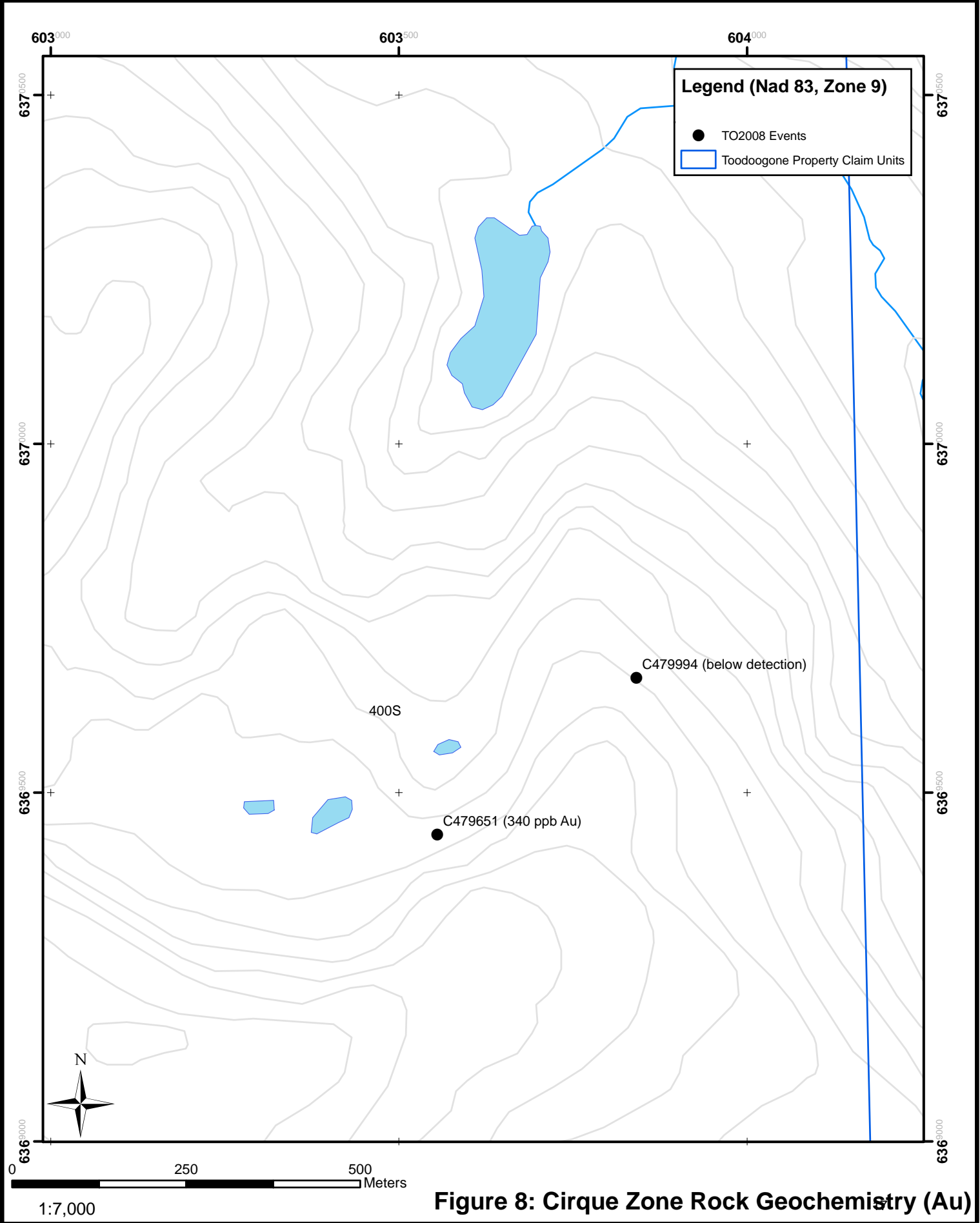


Figure 7: Main Zone Rock Geochemistry (Au)



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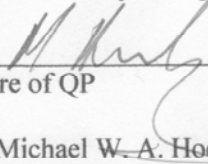
Appendix I Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Michael W. A. Hocking, of 77 Charlotte St., Ottawa, ON do hereby certify that:

1. I am currently an employee of Pembroke Mining Corporation
2. I graduated with a BSc. degree in Earth Sciences from Laurentian University in 2003. In addition, I have obtained a MSc, in Earth Sciences from The University of Ottawa in 2007.
3. I have worked as a geologist for a total of five years since my graduation from university.
4. I have prepared the attached report for assessment work credit.

Dated this 30th Day of September, 2008



Signature of QP

Name: Michael W. A. Hocking
Address: 77 Charlotte St., Ottawa, On, K1N 8J9
Phone (613) 241-5464

Appendix II Statement of Costs

Item	Name	Date	#	Cost	Split	Item sub-total	Comment
TOODOGGONE							
WORK COSTS							
Geological - salaries and wages			days	daily rate			
	Craig Bow	24-Jul	1	660		660	
	Mike Hocking	24-Jul	1	450		450	
	Chris Leslie	24-Jul	1	325		325	
	Chris Amy	24-Jul	1	250		250	
	Quinn Harper	24-Jul	1	225		225	
						1910.00	
Food & Accommodation: on-site			man-days	rate			
	Camp		10	95		950	
	Food		10	75		750	
						1700.00	
Report			days	daily rate			
	Preparation		4	600		2400	
	Materials, maps, binding, copying		1	50		50	
						2450.00	
Geochemical							
	Rock sample assays		25	30		750	
	Freight		1	88		88	minimum charge Smithers-Vanc
						838.00	
Vehicle							
	Truck rental		2	80		160	2400/month = 80/day
	Mileage		0	0.25		0	Since I have no idea of the actual fuel costs for the t I used 0.25/km.
						160.00	
MOB/DEMOB COSTS							
Food & Accommodation: travel to/from site			man-days	rate			
	Hotel		19	100	6	317	4 days travel to Ball Creek for our guys, 3 for Craig
	Food		19	95	3	602	Split 3 ways - Lucifer, Ball Creek and Toodoggone
						918.33	
	Air travel CB		1	1485.35	3	495	
						495.12	
Wages: travel to/from site			days	daily rate			
Denver to Ball Creek camp	Craig Bow		3	660	3	660	
Vancouver to Ball Creek camp	Mike Hocking		4	450	3	600	
	Chris Leslie		4	325	3	433	
	Chris Amy		4	250	3	333	
	Quinn Harper		4	225	3	300	
						2326.67	
Vehicle							
	Truck rental		4	80	3	107	
	Mileage		3400	0.25	3	283	
						390.00	
						SUBTOTAL work/mob-demob	11188.12
Transportation on-site - Helicopter							
	Pacific Western		3.1	1385	1.05	4508	
						SUBTOTAL helicopter costs:	4508
						Allowable helicopter costs (maximum of 50% work)	4508.18
						Assessment work to claim:	15696.29

Appendix III Rock Sample Descriptions

Sample	Project	Area	Geo	UTM E	UTM N	Type	Width (m)
C479524	Toodoggone	Ridge	CB	601812	6365518	chip	1.5
C479525	Toodoggone	Ridge	CB	601821	6365475	chip	1.5
C479526	Toodoggone	Ridge	QH	601806	6365493	grab	
C479527	Toodoggone	Ridge	CB	601787	6365455	chip	2
C479528	Toodoggone	Ridge	CB	601789	6365454	chip	0.7
C479529	Toodoggone	Central Silver	CB	601800	6365695	grab	
C479530	Toodoggone	BT	CB	601259	6366139	chip	2
C479531	Toodoggone	BT	CB	601160	6366185	chip	0.5
C479532	Toodoggone	BT	CB	601167	6366177	grab	
C479558	Toodoggone	Ridge	QH	601761	6365472	Grab	
C479559	Toodoggone	Ridge	QH	601804	6365691	Grab	
C479560	Toodoggone	Ridge	QH	601728	6365987	Grab	
C479561	Toodoggone	Ridge	QH	601260	6366130	Grab	
C479608	Toodoggone	BT	CA	601149	6366177	Chip	1
C479651	Toodoggone	Cirque	CL	603555	6369440	Grab	
C479652	Toodoggone	North	CL	601162	6366457	Grab	
C479653	Toodoggone	North	CL	600943	6366627	Grab	
C479654	Toodoggone	North	CL	600844	6366894	Grab	
C479994	Toodoggone	Cirque	MH	603841	6369665	talus	0
C479995	Toodoggone	Camp	MH	601921	6366233	core	0
C479996	Toodoggone	Camp	MH	601920	6366233	core	0
C479997	Toodoggone	NW	MH	601343	6366323	talus	0
C479998	Toodoggone	NW	MH	601128	6366528	talus	0
C479999	Toodoggone	NW	MH	600948	6366630	chip	1
C480000	Toodoggone	NW	MH	600891	6366850	trench dump	5

Sample Sample Description

- C479524 Sheeted quartz veinlets, oriented 190, in massive rhyodacite; open space fill textures; tr-1% diss py
C479525 As above; wall rocks epidote altered
C479526 Quartz feldspar intrusive with veins, as c479524
C479527 Sheeted Qtz-pyrite veinlets oriented 355 in rhyodacite
C479528 Sulfidized, Si-py flooded footwall to sample 479527
C479529 float block with quartz-pyrite flooding
C479530 Qtz stringer zone on 015/85W; localized lim after py
C479531 weakly silicified, argillic altered fragmental rhyodacite
C479532 Strong Qtz (barite?) vein float from dozer push
C479558 Trench. Same quartzofeldspathic intrusive as above.
- C479559 Trench. Same quartzofeldspathic intrusive as above with vuggy Qtz veining and sulfide mineralization. Goethite??
C479560 Outcrop. Quartzofeldspathic intrusive with associated Qtz. Stringers with <1% sulfide mineralization.
C479561 no description, trench sample, celvage 140/50. 070/88
C479608 Heavily bleached country rock. White argillic alteration producing chalky sericite w/ light oxidation.
C479651 from talus, silica +/- pyrite altered, minor Qtz flooding
C479652 from subcrop, fracture/void Qtz infill, no evident mineralization
C479653 from E-W trending trench, small 1m zone of silica/argillic + pyrite alteration
C479654 from SE-NW trending trench, local zone of pyrite + pink (allunite?) clay alteration
C479994 small cobble, fg silica laminated, sinter like
C479995 ddh b88-7 bx18 408-422td ~1m of core, mixed vuggy textured silica
C479996 ddh 88-7 b13 288.7-311.2, argillic clay +/- silica, disseminated pyrite assorted sample
C479997 argillic, silica veinlets, some msv silica, zone is ~ 10m striking 260, volcanic peripheral to zone
C479998 talus rubble-crop on ridge 1x6m msv silica, sugary, trending n-s
- C479999 1.4 m zone silica w/ clay relic feldspars, oriented 220/80 wallrock barley altered, green chloritic rock, not argillic, trench trends 280 degrees
C480000 5m composite sample, coarse grained open space fill quartz, locally volcanic breccia texture, porous host

Sample	Weight kg	Au ppb	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe ppm	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca ppm	P ppm
C479524	2.32	35	10	25	826	384	1.2	2	6	1807	3.55	51	-20	-4	6	197	2	-5	-5	84	0.82	0.07
C479525	2.15	3129	-2	16	309	861	1.9	-2	8	2257	3.4	9	-20	-4	6	161	4.2	-5	-5	90	0.44	0.067
C479526	2.94	581	-2	16	1048	1443	0.8	-2	8	2151	3.48	8	-20	-4	4	143	2.1	-5	-5	92	0.53	0.065
C479527	2.02	3157	-2	9	480	1228	1.8	3	8	2482	3.53	-5	-20	-4	4	208	5.8	-5	-5	81	0.72	0.068
C479528	2.55	948	-2	202	452	589	3	2	6	1748	3.19	12	-20	-4	5	178	2.6	-5	6	82	0.42	0.068
C479529	1.35	963	13	99	1171	978	13.2	5	6	1198	2.51	14	-20	-4	-2	21	5.4	8	-5	54	0.03	0.021
C479530	2.53	48	14	28	101	265	7.8	-2	10	2362	4.18	32	-20	-4	3	140	2.3	-5	-5	124	0.33	0.078
C479531	1.23	82	-2	74	52	266	21.8	2	10	1882	4.01	56	-20	-4	5	91	1.4	-5	-5	160	0.1	0.071
C479532	1.42	833	4	32	48	11	1.5	3	-2	143	0.84	-5	-20	-4	-2	18	-0.4	13	-5	5	0.02	0.008
C479558	2.87	10	-2	3	-5	82	-0.5	2	9	1705	3.89	7	-20	-4	4	178	-0.4	-5	-5	93	0.68	0.081
C479559	3.18	32	-2	55	123	379	1.8	3	11	1631	3.53	12	-20	-4	5	146	4.1	-5	-5	90	1.15	0.081
C479560	2.23	3136	-2	67	103	1067	5.5	3	16	2979	6.08	-5	-20	-4	4	142	14.6	-5	-5	120	0.28	0.066
C479561	2.19	5	12	118	-5	20	0.6	2	5	292	9.07	13	-20	-4	-2	449	-0.4	11	-5	150	0.62	0.109
C479608	2.33	79	9	31	67	130	6.6	3	4	305	4.03	23	-20	-4	6	230	0.6	-5	-5	134	0.08	0.097
C479651	1.64	340	-2	13	11	44	29.3	2	4	267	1.61	-5	-20	-4	-2	137	0.5	17	-5	80	0.11	0.039
C479652	1.53	441	2	6	145	38	8.9	-2	-2	151	1.54	12	-20	-4	-2	50	-0.4	15	-5	34	0.04	0.035
C479653	1.4	369	19	24	442	165	69.2	4	5	127	2.48	111	-20	-4	-2	19	1.8	21	7	73	0.07	0.031
C479654	1.65	7	-2	18	8	34	1.5	-2	-2	187	2.64	-5	-20	-4	5	152	-0.4	5	-5	122	0.11	0.052
C479994	0.26	-2	-2	3	21	48	-0.5	3	-2	276	0.68	-5	22	-4	21	1581	-0.4	-5	-5	3	2.11	0.005
C479995	1.18	94	14	177	110	-2	6.1	-2	-2	27	0.46	27	-20	-4	-2	472	-0.4	232	13	37	0.02	0.027
C479996	1.38	2	5	438	190	21	3.7	-2	-2	-5	2.46	208	-20	-4	5	1672	-0.4	329	-5	192	0.02	0.085
C479997	1.59	29	-2	29	80	303	2.9	-2	6	347	3.38	61	-20	-4	3	95	1	8	-5	104	0.03	0.063
C479998	1.96	9	7	3	16	9	1.1	3	-2	70	0.8	7	-20	-4	-2	50	-0.4	25	-5	43	0.07	0.012
C479999	2.04	1457	7	45	175	129	58.2	5	12	258	1.88	98	21	-4	-2	20	1.8	28	8	42	0.04	0.021
C480000	2.56	181	-2	30	120	163	7.7	3	6	712	2.37	44	-20	-4	-2	52	0.5	6	-5	66	0.04	0.039

Sample	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
C479524	15	5	1.15	1400	0.3	7.1	1.14	4.55	-4	44	-2	11	5	-1	11
C479525	12	5	1.19	1877	0.27	6.48	0.91	5	-4	45	-2	12	4	-1	10
C479526	14	4	1.28	1882	0.27	6.44	0.72	5.42	4	43	2	12	4	-1	10
C479527	16	4	1.23	2019	0.29	6.96	1.22	4.8	5	45	-2	16	5	-1	10
C479528	10	3	0.93	1803	0.3	6.93	0.56	5.92	-4	41	3	10	5	-1	10
C479529	4	17	0.02	325	0.06	1.35	0.03	1.02	-4	12	4	4	-2	-1	5
C479530	11	4	1.22	1282	0.34	6.53	1.08	4.79	-4	47	-2	13	4	-1	12
C479531	11	9	0.66	1253	0.33	6.64	0.08	5.41	4	49	3	13	5	1	14
C479532	-2	8	0.01	153	0.01	0.78	0.01	0.4	-4	2	-2	-2	-2	-1	-1
C479558	30	4	1.03	2017	0.32	8.08	1.17	5.88	-4	47	-2	29	5	-1	12
C479559	16	4	0.21	1522	0.33	7.56	0.13	6.18	10	51	-2	17	5	-1	12
C479560	13	5	0.48	763	0.34	7.32	0.11	5.58	-4	51	-2	12	5	-1	13
C479561	3	6	0.71	256	0.4	7.7	4.13	1.15	-4	33	2	4	4	-1	8
C479608	15	3	0.16	1590	0.41	7.91	0.1	4.49	6	64	-2	11	6	1	14
C479651	4	10	0.1	842	0.14	3.4	0.05	3.11	-4	21	-2	5	-2	-1	5
C479652	13	8	0.14	732	0.11	2.81	0.05	2.74	-4	16	-2	5	2	-1	3
C479653	5	41	0.07	95	0.29	2.63	0.04	1.08	6	46	-2	6	5	-1	6
C479654	7	4	0.33	1469	0.43	8.01	1.76	4.48	-4	62	-2	8	7	-1	14
C479994	24	-2	0.24	3666	0.05	6.19	0.62	1.65	-4	86	5	21	32	4	4
C479995	4	14	-0.01	1281	0.32	0.89	0.01	0.03	6	35	-2	2	4	-1	3
C479996	15	3	-0.01	468	0.36	7.78	0.01	0.03	10	48	-2	3	5	-1	7
C479997	10	4	0.03	971	0.32	6.63	0.08	5.46	11	52	-2	11	4	-1	11
C479998	6	8	0.07	570	0.1	2.18	0.04	2.12	10	14	-2	4	-2	-1	4
C479999	5	22	0.03	98	0.29	1.05	0.03	0.41	-4	50	3	7	5	-1	4
C480000	8	6	0.47	950	0.17	4.4	0.12	4.77	5	23	-2	7	3	-1	6

Appendix IV Analytical Certificates



ACME ANALYTICAL LABORATORIES LTD.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

CERTIFICATE OF ANALYSIS

SM108000669.2

Client: Pembrook Mining Corporation
 1160-1040 W. Georgia St.
 Vancouver, B.C. V6E 4H1 Canada

Submitted By: John Bradford
 Receiving Lab: Canada-Smithers
 Received: July 28, 2008
 Report Date: September 23, 2008
 Page: 1 of 5

www.acmelab.com

CLIENT JOB INFORMATION

Project: Ball Creek
 Shipment ID:
 P.O. Number
 Number of Samples: 103

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
 DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

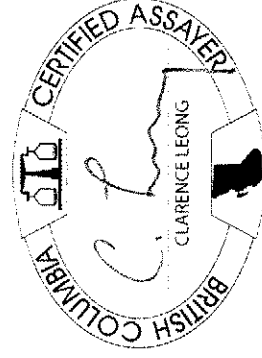
Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	103	Crush, split and pulverize rock to 200 mesh	30	Completed
3B	103	Fire assay fusion Au by ICP-ES	0.25	Completed
1ED	103	4 Acid digestion ICP-ES analysis	30	Completed
G6 Grav	1	Fire assay Au by gravimetric finish	0.5	Completed
7TD	1	4 Acid digestion ICP-ES analysis	0.5	Completed

ADDITIONAL COMMENTS

Version 2: Group 6 Au Grav & 7TD Cu included

Invoice To: Pembrook Mining Corporation
 1160-1040 W. Georgia St.
 Vancouver, B.C. V6E 4H1
 Canada

CC: B. Booth
 Nigel Luckman



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.

