

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

Assessment Report
Title Page and Summary

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

TOTAL COST: \$324,619.96

AUTHOR(S): Drew Takahashi, Mark Rebagliati, Alexandra Shaw **SIGNATURE(S):** _____
Gwendolen Ditson

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-2-219/March 7, 2012 - March 31, 2017 **YEAR OF WORK:** 2012

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5435242 2013/MAR/01

PROPERTY NAME: Buck & Karma

CLAIM NAME(S) (on which the work was done): Bob Creek 2, 5-8, 10, 12-47; Bon 041, 043-44, 053, 056-57; Buck 29-50, 58, 64, 67, 70, 73, 75, 78, 82, 89-95, 97-102; CNKS 061, 065-66, 068-69, 071, 074,-75; Dale 023-29, 031-36; Gotcha, Gotcha 2; IRK; ITUTH 10-12, 20-22; Karma 001-4, 006-15; New Buck

COMMODITIES SOUGHT: Zinc, Copper,

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: _____

MINING DIVISION: Omineca **NTS/BCGS:** 093E/15, 16 and 093L/01, 02, 07, 08

LATITUDE: 54 ° 07 '15 " **LONGITUDE:** 126 ° 28 '30 " (at centre of work)

OWNER(S):
1) Quartz Mountain Resources Ltd. 2) _____

MAILING ADDRESS:
15th Floor, 1040 W Georgia St
Vancouver BC V6E 4H1

OPERATOR(S) [who paid for the work]:
1) Quartz Mountain Resources Ltd. 2) _____

MAILING ADDRESS:
15th Floor, 1040 W Georgia St
Vancouver BC V6E 4H1

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Buck Creek formation, Goosley Lake formation; upper cretaceous volcanics Kasalka Group,
Equity Silver Mine, Eocene basaltic volcanics, Ootsa Lake Group

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 2256, 2314, 2318, 2335, 2367, 2427, 2726, 2971, 3011, 3766, 4190, 6283, 6304, 6477, 6484, 6737, 6912, 7072, 7134, 7381, 7954, 8857, 9788, 10166, 10449, 10478, 10949, 11214, 11976, 12074, 12503, 12521, 12595, 12753, 13267, 13414, 13425, 13456, 13899, 14183, 14346, 14698, 15967, 17804, 18665, 18666, 18738, 19107, 19883, 19229, 19879, 19889, 27423, 27458, 27716

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			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization	29.5km	BUCK 43,44,46,48,47,50,90,92	\$109,368
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	1489	see previous page	\$215,251.96
Silt	10	see previous page	
Rock	159	see previous page	
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
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:	\$324,619.96

**Assessment Report on Geochemical and Geophysical Work
on the Buck Claim Group**

Omineca Mining Division

**BC Geological Survey
Assessment Report
34048**

Claims:

Bob Creek 2, 5-8, 10, 12-47; Bon 041, 043-44, 053, 056-57; Buck 29-50, 58, 64, 67, 70, 73, 75, 78, 82, 89-95, 97-102; CNKS 061, 065-66, 068-69, 071, 074,-75; Dale 023-29, 031-36; Gotcha, Gotcha 2; IRK; ITUTH 10-12, 20-22; Karma 001-4, 006-15; New Buck

Tenure Numbers:

731363, 732782, 732802, 849541-42; 851707-11; 852473, 852475-78, 852480, 853506-17; 855208-17, 855388-92; 855527-29; 855566-87; 855595, 855601, 855604, 855607, 855610, 855612, 855615, 855619; 856451-53, 856461, 856647-48; 935629, 935695, 935699-701; 954869, 954873, 954875-76, 954881-82, 954887-92, 954894, 954897-99; 954901, 954904-05, 954907, 954909, 954911, 954913-18, 954920, 954922, 954925-26, 954929, 954933, 954937-38, 954940, 954943-44, 954946-47, 954949; 955699; 985622-26, 985642-47

Owners: R. Billingsley, HDRL Holdings Ltd., Quartz Mountain Resources Ltd.

Operator: Quartz Mountain Resources Ltd.

NTS: 093E/15, 16 and 093L/01, 02, 07, 08

BCGS: 093L.007-008, 017-019, 027-029, 037-038, 093E.087, 097-098

Work program centred at approximately:

6,000,000 m N and 665,000 m E

UTM NAD 83, Zone 9

or

54°07.28'N latitude, 126°28.5' W longitude

Authors:

Drew Takahashi, B.Sc.

Alexandra Shaw, B.Sc.

Mark Rebagliati, P.Eng.

Gwendolen Ditson, M.Sc., P.Geo

May 28, 2013

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1.0 SUMMARY

The Buck property is located immediately south of Houston, B.C., on NTS map sheets 93L/1,2,7 and 8. This report covers the results of geochemical and induced polarization surveys performed on claims belonging to the Buck and Karma properties, conducted during the summer of 2012. The properties are accessible from secondary roads that traverse the properties from Highway 16, or by charter helicopters available in Houston or Smithers. The properties cover moderate terrain of the Nechako Plateau physiographic region with a mixed vegetation cover of second growth conifers, aspen and balsam poplar.

The Buck and Karma properties are comprised of 309 mineral claims held by Quartz Mountain Resources Ltd., Richard Billingsley and HDRL Holdings Ltd. The property has been explored since the turn of the 20th century when placer gold was discovered on Bob Creek. The principal area of interest and past work has been in and south of Bob Creek, where gold mineralization occurs in altered volcanic rocks.

The property is underlain by Lower Jurassic volcanic arc assemblages overlain by Upper Cretaceous to Tertiary volcanism associated with a large resurgent collapsed caldera referred to as the Buck Creek Volcanic complex or basin. Intrusive rocks are primarily Upper Cretaceous to Eocene in age. Mineralization at Bob Creek is associated with a quartz-feldspar porphyry dyke/breccia swarm belonging to the Upper Cretaceous Bulkley Plutonic Suite.

Soil and rock sampling conducted in the summer of 2012 covered several grids throughout the properties. Elevated to weakly anomalous zinc in soil and rock samples were encountered in Work Areas A, C, E and G.

Induced polarization (IP) survey results in Work Area C show zones of weak to moderate chargeability with high resistivity overlain by low resistivity, indicative of thick overburden. There are no anomalous geochemical results associated with the chargeability. IP results in Work Area D do not indicate well-defined zones of anomalous chargeability. A 1km by 1.5km zone of low resistivity is flanked by higher resistivity.

Anomalous zones of IP chargeability in Work Area C warrant increased density surveys.

2.0 INTRODUCTION

This report documents the results of soil, rock and silt sampling along with induced polarization surveys performed on claims belonging to the Buck property. The geochemical survey was conducted by Quartz Mountain Resources Ltd. between June 15 and August 3, 2012. The induced polarization (IP) survey was conducted by Peter E. Walcott & Associates Limited between June 26 and July 12, 2012.

3.0 LOCATION AND ACCESS

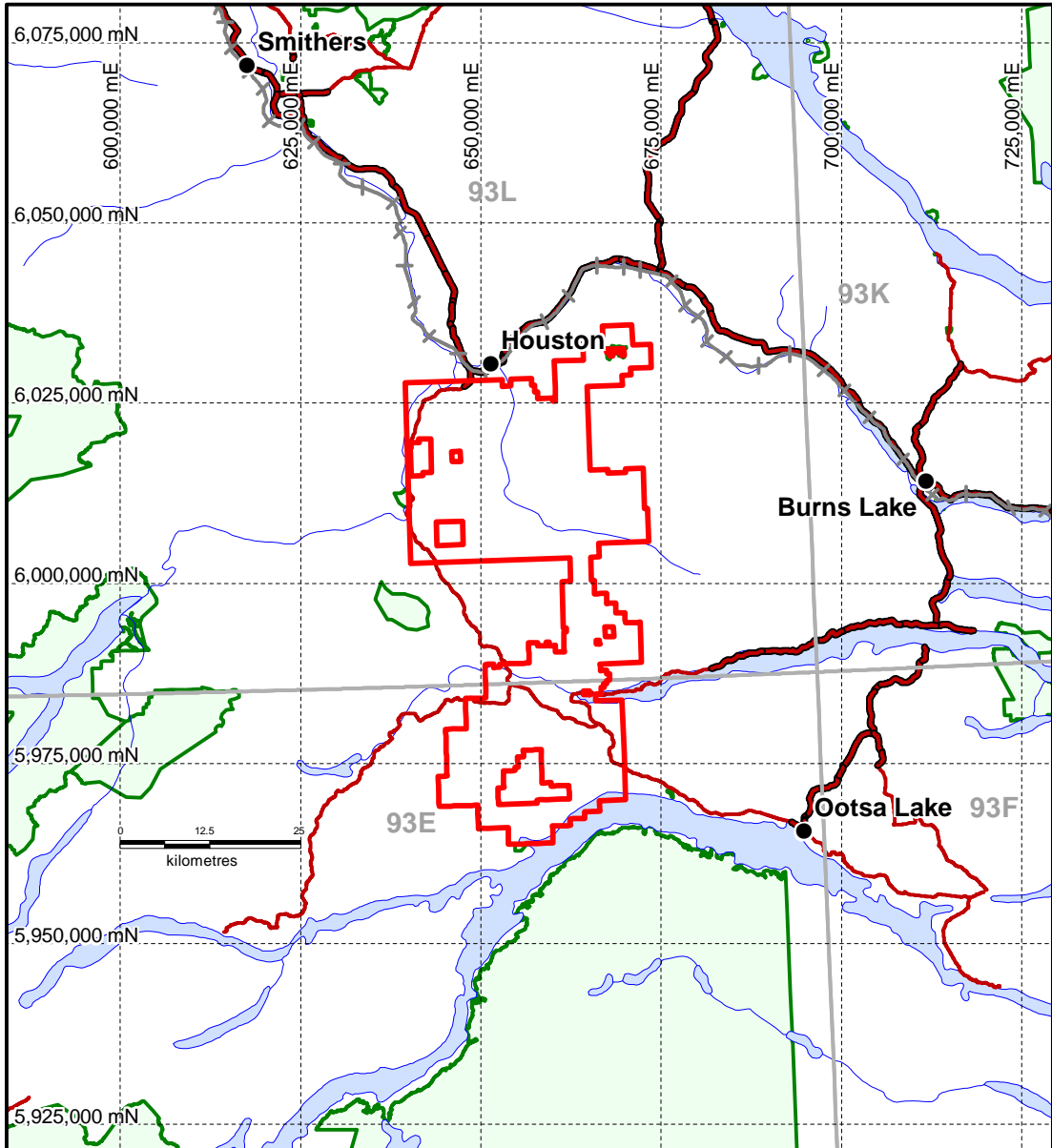
The Buck and Karma properties are comprised of 309 contiguous mineral claims in the Omineca Mining Division. The centre of the claim block is approximately 35 km south-southeast of Houston, in central British Columbia (Figure 1). The property is centred near coordinates 54°07.28' North latitude, 126°28.5' West longitude, or UTM NAD 83, Zone 9, at 6,000,000 m N and 665,000 m E. The property is easily accessible by the all-weather Buck Flats Road from Houston and by bush roads built to facilitate past logging and mineral exploration operations.

4.0 PHYSIOGRAPHY AND CLIMATE

Topography is moderate in the western and central parts of the properties but is more pronounced in eastern portions. Bob Creek canyon and the Buck Creek valley trend north-south through the property, and dominate the topography of the area. Elevations range from about 650 m ASL along Buck Creek at the north edge of the property to over 1,500 m ASL in the eastern part of the area that is underlain by Tertiary volcanics. The claims are heavily forested by predominant lodgepole pine and spruce, with lesser white spruce, fir, aspen and balsam poplar. Clearcuts from historical logging operations occur in the eastern and southern sectors of the property. Current logging operations intersect a small portion of the eastern claim boundary. Climate is typical of the Babine region with mild to warm summers which average 14.5°C, and cold winters with an average temperature of -12.7°C and snow accumulation from early November until late April which averages 164 cm/year (BC Adventure website, 2013).






5.0 CLAIMS

The Buck and Karma properties are comprised of 309 contiguous mineral claims in the Omineca Mining Division which total approximately 130,435 hectares (Tables 1, 2 and 3 and Figure 2). The majority of the claims are held by Richard Billingsley, with whom Quartz Mountain Resources Ltd. has an option agreement. Quartz Mountain Resources Ltd. and HDRL Holdings Ltd. holds the remainder of the claims.



Yukon Territory



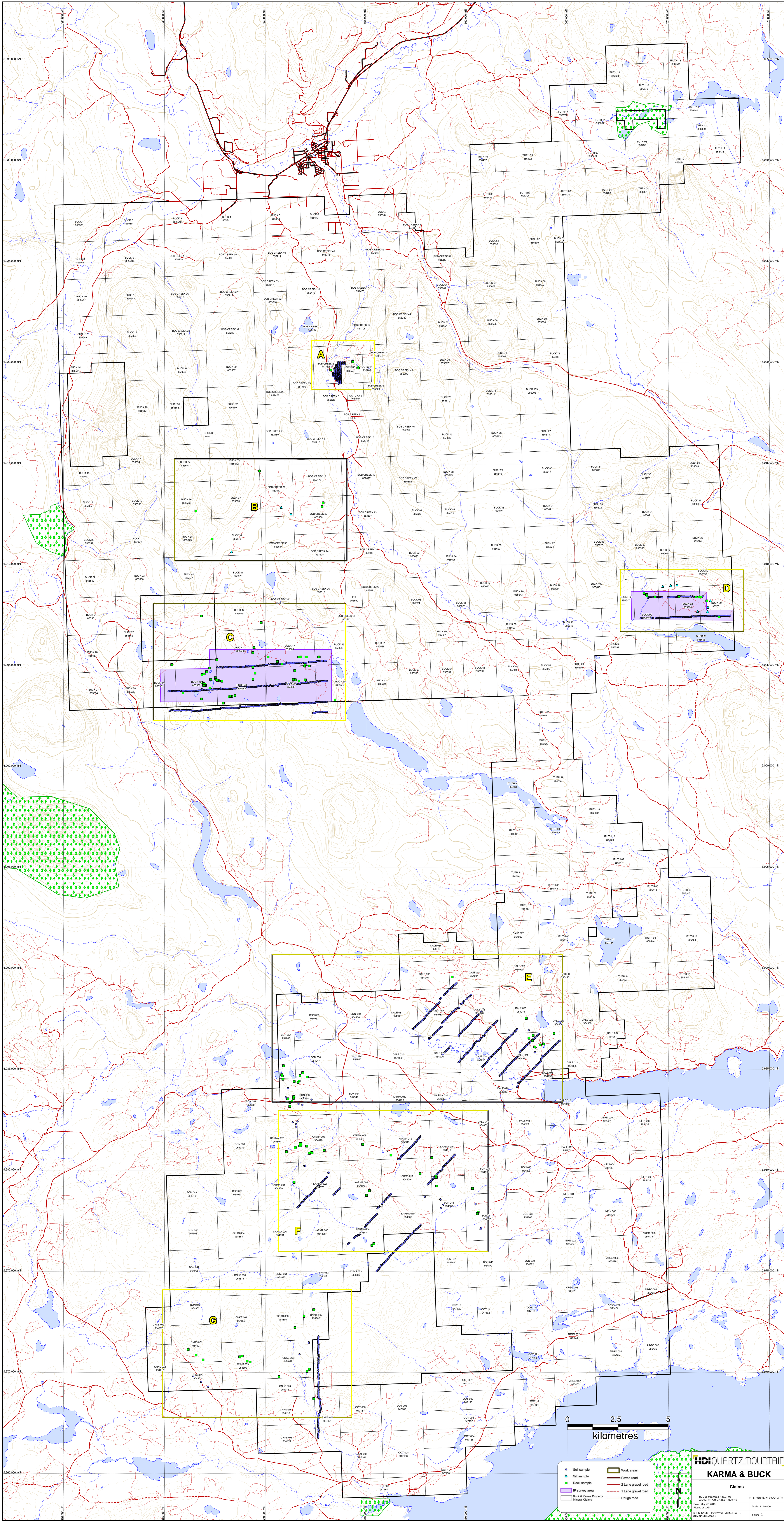
-  Paved road
-  Gravel road
-  Railway
-  Claim boundary
-  Park



HDI QUARTZ MOUNTAIN
KARMA & BUCK

Property Location

BCGS: 93E.086,87,88,97,98 93L.007,8,17,18,27,28,37,38,48,49	NTS: 93E/15,16 93L/01,2,7,8
Date: March 13, 2013 Plotted by: AS	Scale: 1 : 1 000 000
KARM_PropertyLoco_Mar1113.WOR UTM NAD83, Zone 9	Figure 1



- Soil sample
- ▲ Silt sample
- Rock sample
- IP survey area
- Buck & Karma Property
- Mineral Claims
- Work areas
- Paved road
- 2 Lane gravel road
- 1 Lane gravel road
- Rough road

HDI QUARTZ MOUNTAIN
KARMA & BUCK
 Claims

BCOS: 19E 06A7 007 001
 BL: 000 011 707 001 24 04 00
 Date: May 27, 2013
 Printed by: G.S.
 BLCK KARMA ClaimWork_Mar1413.DWG
 UTM NAD83, Zone 9

NTS: 1:60,000
 Date: May 27, 2013
 Scale: 1:50,000
 Page: 2 of 2

Table 1. Claims owned 100% by Richard Billingsley

Tenure No.	Claim Name	Work	Issue Date	Good To Date	Area (ha)
731363	BOB CREEK 2	x	20-Mar-10	23-Jul-16	301.9165
732782	GOTCHA		22-Mar-10	23-Jul-16	113.2288
732802	GOTCHA 2		22-Mar-10	23-Jul-16	113.262
849541	BOB CREEK 7		21-Mar-11	23-Jul-16	56.6052
849542	BOB CREEK 8		21-Mar-11	23-Jul-16	169.9259
851707	BOB CREEK 10		14-Apr-11	23-Jul-16	452.7223
851708	BOB CREEK 12		14-Apr-11	23-Jul-16	452.7155
851709	BOB CREEK 13		14-Apr-11	23-Jul-16	452.999
851710	BOB CREEK 14		14-Apr-11	23-Jul-16	453.2566
851711	BOB CREEK 15		14-Apr-11	23-Jul-16	453.2474
852473	BOB CREEK 16		25-Apr-11	23-Jul-16	452.5251
852475	BOB CREEK 17		25-Apr-11	23-Jul-16	452.5171
852476	BOB CREEK 18		25-Apr-11	23-Jul-16	453.4296
852477	BOB CREEK 19		25-Apr-11	23-Jul-16	453.4208
852478	BOB CREEK 20		25-Apr-11	23-Jul-16	452.9144
852480	BOB CREEK 21		25-Apr-11	23-Jul-16	453.2442
853506	BOB CREEK 22	x	04-May-11	23-Jul-16	453.5955
853507	BOB CREEK 23		04-May-11	23-Jul-16	453.5916
853508	BOB CREEK 24		04-May-11	23-Jul-16	453.7767
853509	BOB CREEK 25		04-May-11	23-Jul-16	453.7768
853510	BOB CREEK 26		04-May-11	23-Jul-16	453.9582
853511	BOB CREEK 27		04-May-11	23-Jul-16	378.2943
853512	BOB CREEK 28		04-May-11	23-Jul-16	454.0975
853513	BOB CREEK 29	x	04-May-11	23-Jul-16	453.5013
853514	BOB CREEK 30		04-May-11	23-Jul-16	453.7444
853515	BOB CREEK 31		04-May-11	23-Jul-16	453.9961
853516	BOB CREEK 32		04-May-11	23-Jul-16	452.7579
853517	BOB CREEK 33		04-May-11	23-Jul-16	150.8339
855208	BOB CREEK 34		18-May-11	23-Jul-16	452.3407
855209	BOB CREEK 35		18-May-11	23-Jul-16	452.3643
855210	BOB CREEK 36		18-May-11	23-Jul-16	452.523
855211	BOB CREEK 37		18-May-11	23-Jul-16	452.5515
855212	BOB CREEK 38		18-May-11	23-Jul-16	452.7018
855213	BOB CREEK 39		18-May-11	23-Jul-16	452.7361
855214	BOB CREEK 40		18-May-11	23-Jul-16	452.3587
855215	BOB CREEK 41		18-May-11	23-Jul-16	452.3397
855216	BOB CREEK 42		18-May-11	23-Jul-16	452.3389
855217	BOB CREEK 42		18-May-11	23-Jul-16	471.2557
855388	BOB CREEK 43		22-May-11	23-Jul-16	188.4465
855389	BOB CREEK 44		22-May-11	23-Jul-16	452.671
855390	BOB CREEK 45		22-May-11	23-Jul-16	452.945
855391	BOB CREEK 46		22-May-11	23-Jul-16	453.2137
855392	BOB CREEK 47		22-May-11	23-Jul-16	321.1873
855527	NEW BUCK	x	24-May-11	23-Jul-16	150.9696
855528	BOB CREEK 5		24-May-11	23-Jul-16	226.5234
855529	BOB CREEK 6		24-May-11	23-Jul-16	226.5113
855538	BUCK 1		25-May-11	01-Aug-13	452.0635
855539	BUCK 2		25-May-11	01-Aug-13	452.1122
855540	BUCK 3		25-May-11	01-Aug-13	452.158
855541	BUCK 4		25-May-11	01-Aug-13	452.1777
855542	BUCK 5		25-May-11	01-Aug-13	452.1742
855543	BUCK 6		25-May-11	01-Aug-13	414.4996

Tenure No.	Claim Name	Work	Issue Date	Good To Date	Area (ha)
855544	BUCK 7		25-May-11	01-Aug-13	414.4836
855545	BUCK 8		25-May-11	01-Aug-13	452.2479
855546	BUCK 9		25-May-11	01-Aug-13	452.2928
855547	BUCK 10		25-May-11	01-Aug-13	452.4487
855548	BUCK 11		25-May-11	01-Aug-13	452.4822
855549	BUCK 12		25-May-11	01-Aug-13	452.6779
855550	BUCK 13		25-May-11	01-Aug-13	452.6863
855551	BUCK 14		25-May-11	01-Aug-13	452.8233
855552	BUCK 15		25-May-11	01-Aug-13	472.1123
855553	BUCK 16		25-May-11	01-Aug-13	453.0423
855554	BUCK 17		25-May-11	01-Aug-13	453.2957
855555	BUCK 18		25-May-11	01-Aug-13	453.4772
855556	BUCK 19		25-May-11	01-Aug-13	453.4758
855557	BUCK 20		25-May-11	01-Aug-13	453.6627
855558	BUCK 21		25-May-11	01-Aug-13	453.6541
855559	BUCK 22		25-May-11	01-Aug-13	453.8494
855560	BUCK 23		25-May-11	01-Aug-13	453.8363
855561	BUCK 24		25-May-11	01-Aug-13	454.0358
855562	BUCK 25		25-May-11	01-Aug-13	454.1118
855563	BUCK 26		25-May-11	01-Aug-13	454.2224
855564	BUCK 27		25-May-11	01-Aug-13	454.4561
855565	BUCK 28		25-May-11	01-Aug-13	227.2187
855566	BUCK 29		25-May-11	23-Jul-16	452.8805
855567	BUCK 30		25-May-11	23-Jul-16	452.9168
855568	BUCK 31		25-May-11	23-Jul-16	283.1483
855569	BUCK 32		25-May-11	23-Jul-16	453.0974
855570	BUCK 33		25-May-11	23-Jul-16	453.2132
855571	BUCK 34		25-May-11	23-Jul-16	453.3272
855572	BUCK 35		25-May-11	23-Jul-16	453.3682
855573	BUCK 36	x	25-May-11	23-Jul-16	453.4862
855574	BUCK 37		25-May-11	23-Jul-16	453.5261
855575	BUCK 38	x	25-May-11	23-Jul-16	453.6573
855576	BUCK 39	x	25-May-11	23-Jul-16	453.6881
855577	BUCK 40		25-May-11	23-Jul-16	453.8348
855578	BUCK 41		25-May-11	23-Jul-16	453.856
855579	BUCK 42	x	25-May-11	23-Jul-16	454.0236
855580	BUCK 43	x	25-May-11	01-Aug-13	454.1913
855581	BUCK 44	x	25-May-11	01-Aug-13	378.6664
855582	BUCK 45	x	25-May-11	01-Aug-13	473.3176
855583	BUCK 46	x	25-May-11	01-Aug-13	454.3969
855584	BUCK 47	x	25-May-11	01-Aug-13	454.2104
855585	BUCK 48	x	25-May-11	01-Aug-13	454.3941
855586	BUCK 49	x	25-May-11	01-Aug-13	454.236
855587	BUCK 50	x	25-May-11	01-Aug-13	454.4194
855588	BUCK 51		25-May-11	01-Aug-13	302.8272
855589	BUCK 52		25-May-11	01-Aug-13	302.9474
855590	BUCK 53		25-May-11	01-Aug-13	454.3822
855591	BUCK 54		25-May-11	01-Aug-13	454.3912
855592	BUCK 55		25-May-11	01-Aug-13	454.3929
855593	BUCK 56		25-May-11	01-Aug-13	264.9551
855594	BUCK 57		25-May-11	01-Aug-13	454.3942
855595	BUCK 58		25-May-11	01-Aug-13	454.3987
855596	BUCK 29		25-May-11	01-Aug-13	454.3994
855597	BUCK 60		25-May-11	01-Aug-13	189.2975

Tenure No.	Claim Name	Work	Issue Date	Good To Date	Area (ha)
855598	BUCK 61		25-May-11	01-Aug-13	471.1665
855599	BUCK 62		25-May-11	01-Aug-13	471.1624
855600	BUCK 63		25-May-11	01-Aug-13	94.2321
855601	BUCK 64		25-May-11	23-Jul-16	452.5241
855602	BUCK 65		25-May-11	01-Aug-13	452.5257
855603	BUCK 66		25-May-11	01-Aug-13	452.5258
855604	BUCK 67		25-May-11	23-Jul-16	452.7274
855605	BUCK 68		25-May-11	01-Aug-13	452.7247
855606	BUCK 69		25-May-11	01-Aug-13	452.7277
855607	BUCK 70		25-May-11	23-Jul-16	452.9103
855608	BUCK 71		25-May-11	01-Aug-13	452.8852
855609	BUCK 72		25-May-11	01-Aug-13	415.2256
855610	BUCK 73		25-May-11	23-Jul-16	453.093
855611	BUCK 74		25-May-11	01-Aug-13	471.9453
855612	BUCK 75		25-May-11	23-Jul-16	453.2756
855613	BUCK 76		25-May-11	01-Aug-13	453.2729
855614	BUCK 77		25-May-11	01-Aug-13	453.2782
855615	BUCK 78		25-May-11	23-Jul-16	453.4558
855616	BUCK 79		25-May-11	01-Aug-13	453.4543
855617	BUCK 80		25-May-11	01-Aug-13	453.4603
855618	BUCK 81		25-May-11	01-Aug-13	453.4654
855619	BUCK 82		25-May-11	23-Jul-16	340.2167
855620	BUCK 83		25-May-11	01-Aug-13	453.6318
855621	BUCK 84		25-May-11	01-Aug-13	453.638
855622	BUCK 85		25-May-11	01-Aug-13	453.639
855623	BUCK 86		25-May-11	01-Aug-13	453.8008
855624	BUCK 87		25-May-11	01-Aug-13	453.8179
855625	BUCK 88		25-May-11	01-Aug-13	453.8191
935598	BUCK 89		01-Dec-11	22-Jun-13	416.0445
935629	BUCK 90	x	01-Dec-11	22-Jun-13	454.1753
986006	BUCK 103		12-May-12	12-May-13	471.9476
985622	BUCK 91		10-May-12	23-Jul-16	396.9193
985623	BUCK 92		10-May-12	23-Jul-16	472.7254
985624	BUCK 93		10-May-12	23-Jul-16	472.9638
985625	BUCK 94		10-May-12	23-Jul-16	453.8548
985626	BUCK 95		10-May-12	23-Jul-16	340.5658
985627	BUCK 96		10-May-12	10-May-13	416.36
985642	BUCK 97		10-May-12	10-May-13	453.9917
985643	BUCK 98		10-May-12	10-May-13	454.0393
985644	BUCK 99		10-May-12	10-May-13	472.9381
985645	BUCK 100		10-May-12	10-May-13	472.9393
985646	BUCK 101		10-May-12	10-May-13	454.2009
985647	BUCK 102		10-May-12	10-May-13	378.4464
955699	IRK		06-Mar-12	23-Jul-16	75.6677

*upon acceptance of this report

Table 2. Claims owned 100% by HDRL Holdings Ltd.

Tenure No.	Claim Name	Work	Issue Date	Good To Date	Area (ha)
856428	TUTH 01		08-Jun-11	01-Aug-13	470.9177
856429	TUTH 02		08-Jun-11	01-Aug-13	451.9012
856430	TUTH 03		08-Jun-11	01-Aug-13	470.9238
856431	TUTH 04		08-Jun-11	01-Aug-13	376.7157

Tenure No.	Claim Name	Work	Issue Date	Good To Date	Area (ha)
856432	TUTH 05		08-Jun-11	01-Aug-13	451.9103
856433	TUTH 06		08-Jun-11	01-Aug-13	357.7021
856434	TUTH 07		08-Jun-11	01-Aug-13	395.4175
856435	TUTH 08		08-Jun-11	01-Aug-13	470.928
856436	TUTH 09		08-Jun-11	01-Aug-13	376.7481
856437	TUTH 10		08-Jun-11	01-Aug-13	169.4698
856438	TUTH 11		08-Jun-11	01-Aug-13	282.4166
856439	TUTH 12		08-Jun-11	01-Aug-13	432.9158
856440	TUTH 13		08-Jun-11	01-Aug-13	263.4711
856441	ITUTH 01		08-Jun-11	01-Aug-13	455.7311
856442	ITUTH 02		08-Jun-11	01-Aug-13	474.4823
856443	ITUTH 03		08-Jun-11	01-Aug-13	398.547
856444	ITUTH 04		08-Jun-11	01-Aug-13	474.7161
856445	ITUTH 05		08-Jun-11	01-Aug-13	455.7066
856446	ITUTH 06		08-Jun-11	01-Aug-13	474.4978
856447	ITUTH 07		08-Jun-11	01-Aug-13	455.3438
856448	ITUTH 08		08-Jun-11	01-Aug-13	417.4802
856449	ITUTH 09		08-Jun-11	01-Aug-13	474.1547
856451	ITUTH 10		08-Jun-11	01-Aug-13	474.1533
856452	ITUTH 11		08-Jun-11	01-Aug-13	379.4923
856453	ITUTH 12		08-Jun-11	01-Aug-13	379.6266
856454	ITUTH 13		08-Jun-11	01-Aug-13	474.7145
856455	ITUTH 14		08-Jun-11	01-Aug-13	455.9097
856456	ITUTH 15		08-Jun-11	01-Aug-13	455.8875
856457	ITUTH 16		08-Jun-11	01-Aug-13	398.9182
856458	ITUTH 17		08-Jun-11	01-Aug-13	455.2351
856459	ITUTH 18		08-Jun-11	01-Aug-13	379.2391
856460	ITUTH 19		08-Jun-11	01-Aug-13	454.9389
856461	ITUTH 20		08-Jun-11	01-Aug-13	473.9158
856647	ITUTH 21		10-Jun-11	01-Aug-13	473.7136
856648	ITUTH 22		10-Jun-11	01-Aug-13	454.6087
856667	TUTH 14		10-Jun-11	01-Aug-13	432.9194
856668	TUTH 15		10-Jun-11	01-Aug-13	451.5286
856670	TUTH 16		10-Jun-11	01-Aug-13	470.381
856671	TUTH 17		10-Jun-11	01-Aug-13	338.7772
856672	ITUTH 18		10-Jun-11	01-Aug-13	451.485

*upon acceptance of this report

Table 3. Claims owned 100% by Quartz Mountain Resources Ltd.

Tenure No.	Claim Name	Work	Issue Date	Good To Date	Area (ha)
935699	BUCK 89	x	01-Dec-11	22-Jun-13	397.2232
935701	BUCK 90	x	01-Dec-11	22-Jun-13	302.7526
935698	BUCK 91		01-Dec-11	22-Jun-13	416.4329
935695	BUCK 92	x	01-Dec-11	22-Jun-13	472.9681
935700	BUCK 92	x	01-Dec-11	22-Jun-13	227.0646
935691	BUCK 94		01-Dec-11	22-Jun-13	415.8648
935597	BUCK 95		01-Dec-11	22-Jun-13	453.4994
935694	BUCK 96		01-Dec-11	22-Jun-13	453.8099
935690	BUCK 97		01-Dec-11	22-Jun-13	453.6275
935609	BUCK 98		01-Dec-11	22-Jun-13	453.4517
947153	OOT 001		08-Feb-12	08-Feb-13	419.67
947154	OOT 11		08-Feb-12	08-Feb-13	477.02

Tenure No.	Claim Name	Work	Issue Date	Good To Date	Area (ha)
947155	OOT 002		08-Feb-12	08-Feb-13	419.75
947156	OOT 12		08-Feb-12	08-Feb-13	476.78
947157	OOT 003		08-Feb-12	08-Feb-13	419.83
947158	OOT 004		08-Feb-12	08-Feb-13	419.91
947159	OOT 13		08-Feb-12	08-Feb-13	476.55
947160	OOT 005		08-Feb-12	08-Feb-13	477.01
947161	OOT 006		08-Feb-12	08-Feb-13	477.01
947162	OOT 14		08-Feb-12	08-Feb-13	419.37
947164	OOT 007		08-Feb-12	08-Feb-13	477.25
947165	OOT 15		08-Feb-12	08-Feb-13	381.22
947166	OOT 008		08-Feb-12	08-Feb-13	477.25
947167	OOT 009		08-Feb-12	08-Feb-13	381.93
947168	OOT 10		08-Feb-12	08-Feb-13	477.34
954868	BON 038		02-Mar-12	02-Mar-13	476.08
954869	KARMA 001	x	02-Mar-12	02-Mar-13	475.89
954870	DALE 016		02-Mar-12	02-Mar-13	475.51
954871	CNKS 060		02-Mar-12	02-Mar-13	381.07
954872	BON 039		02-Mar-12	02-Mar-13	476.31
954873	KARMA 002	x	02-Mar-12	02-Mar-13	475.90
954874	DALE 017		02-Mar-12	02-Mar-13	475.74
954875	CNKS 061		02-Mar-12	02-Mar-13	381.07
954876	KARMA 003	x	02-Mar-12	02-Mar-13	475.90
954877	BON 040		02-Mar-12	02-Mar-13	476.31
954878	CNKS 062		02-Mar-12	02-Mar-13	381.07
954879	DALE 018		02-Mar-12	02-Mar-13	475.61
954880	CNKS 063		02-Mar-12	02-Mar-13	209.59
954881	KARMA 004	x	02-Mar-12	02-Mar-13	476.13
954882	BON 041	x	02-Mar-12	02-Mar-13	476.08
954883	DALE 019		02-Mar-12	02-Mar-13	475.61
954884	CNKS 064		02-Mar-12	02-Mar-13	476.13
954885	BON 042		02-Mar-12	02-Mar-13	457.24
954886	DALE 020		02-Mar-12	02-Mar-13	380.36
954887	CNKS 065	x	02-Mar-12	02-Mar-13	285.93
954888	KARMA 005		02-Mar-12	02-Mar-13	476.13
954889	BON 043	x	02-Mar-12	02-Mar-13	456.97
954890	CNKS 066	x	02-Mar-12	02-Mar-13	476.55
954891	KARMA 006		02-Mar-12	02-Mar-13	476.13
954892	BON 044	x	02-Mar-12	02-Mar-13	475.85
954893	CNKS 067		02-Mar-12	02-Mar-13	476.55
954894	KARMA 007	x	02-Mar-12	02-Mar-13	475.66
954895	DALE 021		02-Mar-12	02-Mar-13	342.23
954896	BON 045		02-Mar-12	02-Mar-13	475.84
954897	CNKS 068	x	02-Mar-12	02-Mar-13	457.69
954898	KARMA 008	x	02-Mar-12	02-Mar-13	475.66
954899	CNKS 069	x	02-Mar-12	02-Mar-13	476.79
954900	DALE 022		02-Mar-12	02-Mar-13	342.08
954901	KARMA 009	x	02-Mar-12	02-Mar-13	475.67
954902	BON 046		02-Mar-12	02-Mar-13	457.43
954903	CNKS 070		02-Mar-12	02-Mar-13	343.33
954904	DALE 023	x	02-Mar-12	02-Mar-13	456.11
954905	KARMA 010	x	02-Mar-12	02-Mar-13	457.02
954906	BON 047		02-Mar-12	02-Mar-13	457.25
954907	CNKS 071	x	02-Mar-12	02-Mar-13	457.61
954908	BON 048		02-Mar-12	02-Mar-13	457.07

Tenure No.	Claim Name	Work	Issue Date	Good To Date	Area (ha)
954909	KARMA 011	x	02-Mar-12	02-Mar-13	456.84
954910	CNKS 072		02-Mar-12	02-Mar-13	286.08
954911	DALE 024	x	02-Mar-12	02-Mar-13	475.29
954912	CNKS 073		02-Mar-12	02-Mar-13	228.76
954913	KARMA 012	x	02-Mar-12	02-Mar-13	456.66
954914	DALE 028	x	02-Mar-12	02-Mar-13	475.29
954915	CNKS 074	x	02-Mar-12	02-Mar-13	247.99
954916	DALE 025	x	02-Mar-12	02-Mar-13	475.06
954917	KARMA 015	x	02-Mar-12	02-Mar-13	456.70
954918	CNKS 075	x	02-Mar-12	02-Mar-13	400.70
954919	CNKS 076		02-Mar-12	02-Mar-13	400.82
954920	DALE 026		02-Mar-12	02-Mar-13	379.87
954921	CNKS 077		02-Mar-12	02-Mar-13	400.73
954922	DALE 027		02-Mar-12	02-Mar-13	284.80
954925	KARMA 013	x	02-Mar-12	02-Mar-13	475.48
954926	DALE 029	x	02-Mar-12	02-Mar-13	380.21
954927	BON 050		02-Mar-12	02-Mar-13	380.73
954929	KARMA 014		02-Mar-12	02-Mar-13	475.48
954930	DALE 030		02-Mar-12	02-Mar-13	380.21
954932	BON 051		02-Mar-12	02-Mar-13	456.65
954933	DALE 031	x	02-Mar-12	02-Mar-13	475.04
954935	BON 052		02-Mar-12	02-Mar-13	399.39
954936	BON 059		02-Mar-12	02-Mar-13	475.04
954937	DALE 032	x	02-Mar-12	02-Mar-13	475.05
954938	BON 053	x	02-Mar-12	02-Mar-13	456.43
954940	DALE 033	x	02-Mar-12	02-Mar-13	475.05
954941	BON 054		02-Mar-12	02-Mar-13	456.44
954942	BON 049		02-Mar-12	02-Mar-13	456.88
954943	BON 057	x	02-Mar-12	02-Mar-13	342.08
954944	DALE 034	x	02-Mar-12	02-Mar-13	341.90
954945	BON 055		02-Mar-12	02-Mar-13	380.21
954946	DALE 035	x	02-Mar-12	02-Mar-13	341.90
954947	BON 056	x	02-Mar-12	02-Mar-13	380.20
954949	DALE 036	x	02-Mar-12	02-Mar-13	417.76
954951	DALE 037		02-Mar-12	02-Mar-13	209.08
954952	BON 058		02-Mar-12	02-Mar-13	437.03
954958	DALE 078		02-Mar-12	02-Mar-13	19.01
985402	NIRN 001		10-May-12	10-May-13	475.97
985403	ARGO 001		10-May-12	10-May-13	476.92
985422	ARGO 002		10-May-12	10-May-13	476.69
985423	ARGO 003		10-May-12	10-May-13	476.45
985424	NIRN 002		10-May-12	10-May-13	476.21
985425	ARGO 004		10-May-12	10-May-13	476.78
985426	NIRN 003		10-May-12	10-May-13	476.07
985427	ARGO 005		10-May-12	10-May-13	476.54
985428	ARGO 006		10-May-12	10-May-13	476.31
985429	NIRN 004		10-May-12	10-May-13	475.84
985430	ARGO 007		10-May-12	10-May-13	457.69
985431	NIRN 005		10-May-12	10-May-13	475.60
985432	ARGO 008		10-May-12	10-May-13	457.41
985433	NIRN 006		10-May-12	10-May-13	456.87
985434	ARGO 009		10-May-12	10-May-13	457.14
985435	NIRN 007		10-May-12	10-May-13	456.60

*upon acceptance of this report

6.0 EXPLORATION HISTORY

Prospecting, mineral exploration and mining activities have been underway throughout the Smithers-Houston area of British Columbia since the early 1900's. The first recorded work on the Buck claims was mentioned in the 1905 Minister of Mines Annual Report which reports that some placer gold mining was done without yielding any very great returns "a number of years ago." The exploration history of the Buck property as recorded in assessment reports is summarized in Table 4 below.

Table 4. Exploration History

ARIS	Year	Company	Target Area	Work Done	Comments
2256	1969	Kennco Explorations		Soils, Mag	Large NE trending Zn anomaly approximately 1.5km x 0.5km, >250ppm Zn coincident with smaller >3ppm Mo anomaly
2314	1969	Kennco Explorations		Soils, Mag	Spotty Zn and Mo anomalies, one area approximately 400m x 100m of coincident Zn, Mo and Cu
2318	1969	Iskut Silver Mines	Goosly Lake	soils	Elevated coincident Cu and Zn values in southeast corner of claims
2335	1969	Orequest	Goosly Lake	soils	Two small areas of possibly anomalous Cu.
2367	1969	Nadina Explorations	Bob Creek	magnetometer	Survey helped to delineate geological units.
2427	1969	Orequest	IRK	soils	Cu, Zn and Pb anomalies
2726	1970	Mark V. Mines	Goosly Lake	soils	Poor results. Property entirely covered by overburden.
2971	1970	Orequest	Goosly Lake	geology, soils, 2 PDH, 9 trenches	Widespread Zn enrichment, but no Cu anomalies. Over 10 ft of boulder clay in trenches. No anomalous metals in drill holes.
3011	1970	Iskut Silver Mines	Goosly Lake	magnetometer	A weak north-northeast trending magnetic high is at a right angle to soil anomaly.
3766	1972	Solomon Development	IRK	IP, SP	Two zones of high resistivity correlate with thin, 400 ft deep weak-moderately anomalous chargeability zone.
4190	1972	Solomon Development	IRK	geology, soils	Gently west-dipping Hazelton volcanics probably contain a Zn-enriched tuffaceous bed, but no mineralization observed.
6283	1976	Asarco	IRK	soils	Strongly anomalous Zn, Moderate Ag, and weak Cu in areas of no outcrops.
6304	1977	Nevin Sadlier-Brown	Bob Creek	geology, soils	Coincident Zn, Cu, Ag and Pb soil anomalies are present southwest of mineralized outcrops.
6477	1977	Asarco	IRK	soils	No significant anomalies. Area covered by thick glaciofluvial deposits.
6484	1977	Nevin Sadlier-Brown	Bob Creek	IP, SP	An anomalous zone is coincident with large previously reported soil anomaly.
6737	1978	Du Pont of Canada	Bob Creek	pulse EM	Several poor conductors present. One was previously drilled into graphite
6912	1978	Du Pont of Canada	Bob Creek	6 DDH	No economic mineralization encountered.
7072	1978	Asarco	IRK	soils	Several coincident Zn,Cu,Pb,Ag anomalies.
7134	1978	Placer Development	West	soils, silts	Three scattered small Ag anomalies in soil. One of 6 silts had 2.1 ppm Ag. One rock sample with 0.34% Cu and 72 g/t Ag.
7381	1979	Asarco	IRK	soils	A large Zn-Pb-Ag anomaly is present.

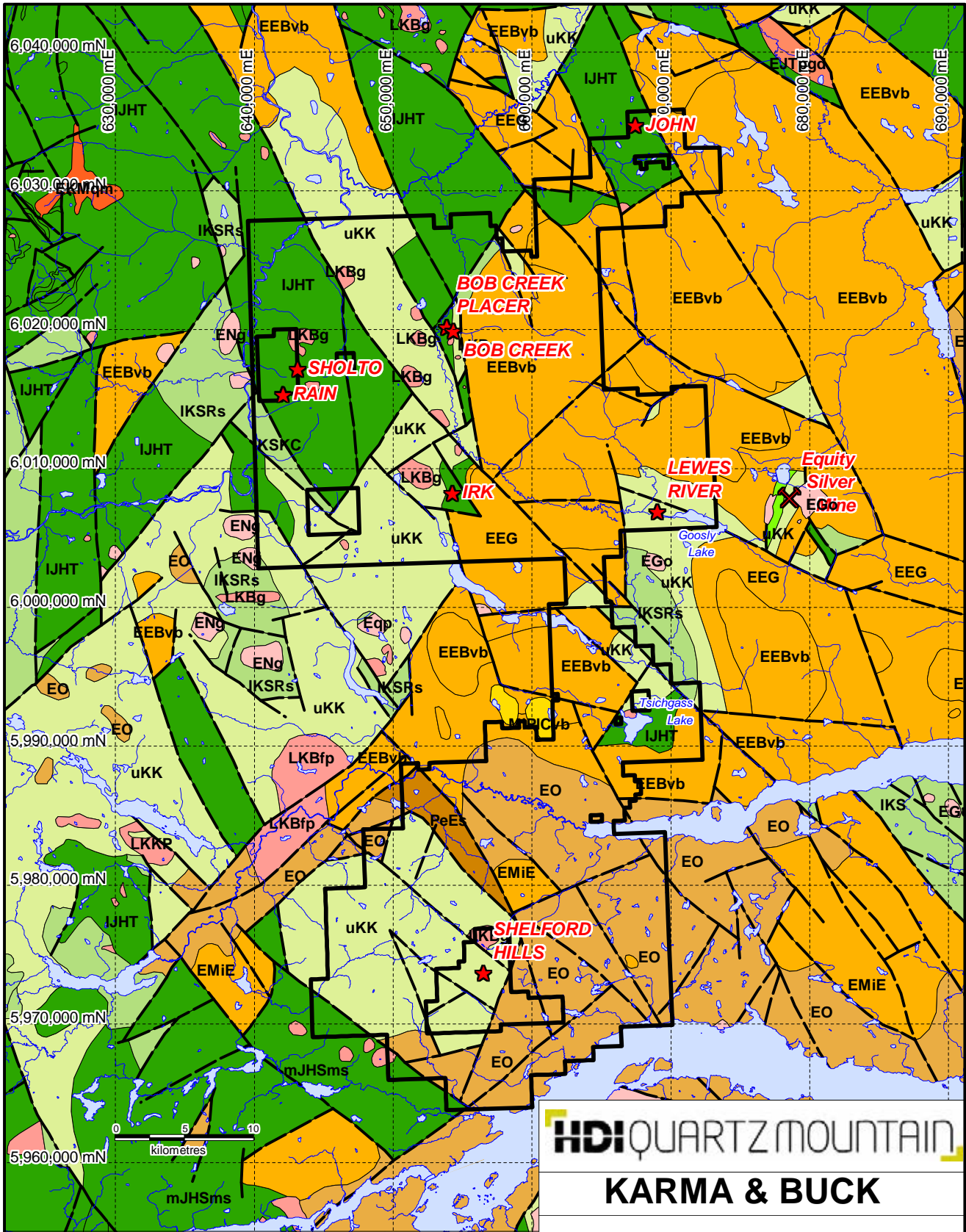
ARIS	Year	Company	Target Area	Work Done	Comments
7954	1979	Asarco	IRK	IP, 7 DDH	A very weak chargeability high occurs within a resistivity high. Seven percussion drill holes, two of which returned significant anomalous Pb, Zn and locally Ag results. Pyrite was the only sulphide observed.
8857	1980	Placer Development	IRK	soils	Some coincident Zn and Cu anomalies are present.
9788	1981	BP Minerals		Geology, Soils, IP	Topo high exposure of rhyolite bx interbedded with rhyolite flows and qfp dykes, moderate clay alteration and disseminated pyrite, associated with anomalous Zn-Ag in soils and 4 IP anomalies (2 definite, 2 probable).
10166	1981	Cominco Limited	Bob Creek	geology, soils, silts, IP, magnetometer	Known mineralization is spatially associated with a dome of predominantly felsic-intermediate volcanics and is accompanied by locally intense sericite, Kf, and possible ankerite. A circular chargeability high correlates with a resistivity high and a magnetic depression.
10449	1982	Asarco	IRK	magnetometer, VLF	Four conductors present. Magnetometer shows two northerly linear highs.
10478	1982	Union Carbide		Soils	200m x 1500m zone of anomalous Hg with As +/- Zn over hydrothermally altered rhodacite porphyry.
10949	1982	Asarco	IRK	soils	Thirty-five backhoe pits show enriched Cu-Ag(-Zn) in west, and Pb-Zn(-Mo-As-Cd) in east. Calcareous arkose with pyrite, galena and sphalerite encountered in 4 pits.
11214	1982	Noranda	Goosly Lake	HLEM	Two possible low conductivity sources are low priority targets.
11976	1983	Selco Division - BP Resources	Bob Creek	geology, soils, 10 DDH	Large, intense hydrothermal alteration with geochemically enhanced Au, Ag and Zn (with As, Sb, Hg) has been confirmed with drilling.
12074	1983	Canamax		Soils, Silts	Discontinuous elevated Ag, Pb, Zn, Cu in soil samples in central part of claim group. Anomalous values of Pb, Zn in silts on West side of claim group.
12503	1984	Asarco	IRK	geology, soils, VLF	Carbonate and barite occur in northerly shears and breccia zones with pyrite and minor tetrahedrite and chalcopyrite.
12521	1984	Selco Division - BP Resources	Bob Creek	soils	Two zones with coincident Au, Zn, As, Pb and Cu anomalies are present.
12595	1984	Riocanex		Geology, Rock	Assay values at or below background except 1568 and 1569 which are anomalous in As-Ba and Zn-As.
12753	1984	Asarco	IRK	trenches	Thirty-six trenches in areas of mineralized float and significant VLF-EM anomalies - half reached bedrock. Red andesite tuff/breccia, rhyolite-dacite flows with quartz veinlets and pyrite or silica flooding, and syeno-monzonitic plug/dyke present.
13267	1984	Equity Silver Mines Limited	West	soils	Only Cu and Zn show anomalies; three low-grade zones defined.
13414	1983	BP Resources		Geology, Soils	Two zones of moderately anomalous Au, As and Zn associated with brecciation and alteration in Ootsa tuffs.
13425	1984	Selco Division - BP Resources	Bob Creek	8 DDH	A Au-Ag zone identified in 83-13. Continued exploration recommended.
13456	1984	BP Resources		Geology, Soils	Detailed soil sampling did not extend or enhance the soil anomalies, rock chip sampling returned gold values <95ppb. Anomalous in Hg and Sb.
13899	1985	Noranda	Goosly Lake	soils	The only potential target area into rocks underlying Tertiary basalts is in valley bottom where there is thick overburden.
14183	1985	Normine Resources	Goosly Lake	IP, magnetometer, VLF	Two small chargeability anomalies present on the West grid.

ARIS	Year	Company	Target Area	Work Done	Comments
14346	1985	Normine Resources	Goosly Lake	soils, IP, magnetometer, VLF	One small weak but well-defined chargeability in the West grid. Anomalous Pb and As with widespread Zn and high background Ag in soils.
14698	1985	Selco Division - BP Resources	Bob Creek	soils, rocks, 22 DDH, trenches	Four soil anomalies defined in main area. Grids west of main area had no anomalies. Trenching and drilling further defined three Au zones identified in 1984. Mineralization result of syn- to slightly post-QFP hydrothermal fluids.
15967	1986	Normine/Bema Industries	Goosly Lake	soils, 24 PDH	Those holes that hit bedrock encountered altered pyritic tuff with elevated As,Pb,Sb,Zn,Au,and Ag.
16120	1986	Equity Silver	Goosly Lake	soils	Some weakly anomalous Zn, Pb and Sb; no anomalous Cu, Ag, Au, or As.
17804, 19107	1988-90	Noranda		Geology, Rock, Silts, Soils	Areas of clay-sericite-py alteration in felsic volcanics, especially through central part of southern block. Grab samples of rhyolite assayed up to 4313ppm Zn and 310 ppb Au. Soil and silt anomalies in Zn, Au and Ag.
18665, 19883, 19889	1989	Noramco Explorations	Bob Creek	10 DDH	Scattered anomalous Au, Cu, Pb, Zn, Ag and As occur in all DHs. The large mineralized complex appears in part related to intrusion of dyke and sill-like masses of feldspar and QFP, and related development of intrusion breccias.
18666	1988	Noramco Explorations	Bob Creek	1 DDH	Epithermal mineralization consists of pyrite, marcasite, sphalerite, and galena with abundant grey quartz veinlets and patches.
18738	1989	Equity Silver Mines		Soils, Silts	Two broad but generally weak anomalies outlined, a 600m circular Zn, Pb,Cu,Ag anomaly and a weak Cu anomaly.
19229	1989	OreQuest Consultants	Bob Creek	IP	Successfully extended existing anomaly an additional 600 m. East-west control probably present
19879	1990	Noramco Explorations	Bob Creek	1 DDH	Ag, Zn, Cu, Pb and As are elevated to anomalous. 30% of hole is QFP dykes with 2-4% pyrite.
27423	2003	Dahrouge Geological	Bob Creek	geology	Dacite flows, flow breccias and tuffs are interpreted as part of a sub-aerial flow-dome complex.
27458	2004	Amarc Resources Ltd.	Bob Creek	soils, IP	Two IP anomalies occur in areas of uncertain overburden thickness where soil sampling was inconclusive.
27716	2004	Dahrouge Geological	Bob Creek	IP, magnetometer, 5 DDH	One drill hole in Canyon Zone expanded low grade mineralization. Three holes in South Zone had poor results.

7.0 REGIONAL GEOLOGY

The Buck and Karma properties lie within the Stikine Terrane of central British Columbia. The Stikine terrane comprises subduction related island-arc magmatic rocks that were emplaced from Carboniferous through Early Jurassic time (Ferbey et al., 2012). The principal stratigraphic units in the Buck region are volcanic arc assemblages comprised of Lower Jurassic subaerial volcanics of the Hazelton Group (Telkwa Formation), and Upper Cretaceous andesitic volcanics of the Kasalka Group (Figure 3a). Less extensive Mesozoic sedimentary sequences present include fine clastic sedimentary rocks of the Upper Jurassic Bowser Group, fluvial sediments of the Lower Cretaceous Skeena Group, and mixed sediments of the Upper Cretaceous to Eocene Sustut Group.

The principal stratigraphic units in the Karma region are volcanic arc assemblages comprised of Upper Cretaceous felsic-mafic volcanics of the Kasalka Group and Eocene basaltic volcanics of



HDI QUARTZ MOUNTAIN
KARMA & BUCK

Regional Geology (BCGS 2005)

BCGS: 93E.086,87,88,97,98 93L.007,8,17,18,27,28,37,38,48,49		NTS: 93E/15,16 93L/01,2,7,8
Date: May 23, 2013 Plotted by : AS		Scale: 1 : 400 000
KARM_RegGeologyBCGS_May2313.WOR UTM NAD83, Zone 9		Figure 3a

Geologic Legend on Figure 3b



STRATIGRAPHIC UNITS

MIOCENE TO PLEISTOCENE

MIPICvb
Chilcotin Group
 Basaltic volcanic rocks

EOCENE

EEBvb
Endako Group - Buck Creek Formation
 Aphanitic andesite and basalt flows with minor dacite

EEG
Endako Group - Goosly Lake Formation
 Feldspathic andesite and trachyandesite lavas, breccias, sills and stocks

EEVI
Nechako Plateau Group - Endako Formation
 Coarse volcanoclastic and pyroclastic volcanic rocks

EMIE
Endako Formation
 Massive vesicular and amygdaloidal basalt and andesite, minor breccia and tuff, aphyric to bladed plagioclase porphyritic textures

EO
Ootsa Lake Group
 Rhyolite, felsic volcanic rocks

PALEOCENE TO EOCENE

PeEs
 Sandstone, siltstone, conglomerate, shale, coal, tuff, tuffaceous siltstone

UPPER CRETACEOUS

uKK
Kasalka Group
 Andesitic volcanic rocks

LOWER CRETACEOUS

IKS
Skeena Group
 Undifferentiated marine sedimentary rocks, sandstone, siltstone, argillite, chert pebble conglomerate

IKSRs
Skeena Group - Red Rose Formation
 Sandstone, siltstone, argillite, chert-pebble conglomerate, mudstone, mainly fluvial, common detrital muscovite

IKSKC
Skeena Group - Kitsuns Creek Formation
 Feldspathic and volcanic sandstone, siltstone, shale, polymictic volcanoclastic conglomerate, coal, carbonaceous sediments

UPPER JURASSIC

uJBAm
Bowser Lake Group - Ashman Formation
 mudstone, siltstone, shale fine clastic sedimentary rocks

LOWER JURASSIC

IJHT
Hazelton Group - Telkwa Formation
 Subaerial to dacitic feldspar phryic flows, pyroclastic and epiclastic rocks, augite phryic to aphyric basalt, breccia, welded tuff

ImJHSH
Hazelton Group - Saddle Hill Formation
 Undivided subaerial to submarine basalt, andesite, dacite and rhyolite flows, tuffs and related volcanoclastic rocks

mJHSms
Hazelton Group - Smithers Formation
 Marine, shallow water feldspathic sandstone, siltstone, argillite, wacke, locally glauconitic and limy, minor ash, crystal and lapilli tuff, volcanoclastic, and limestone

UPPER TRIASSIC

uTrTsm
Takla Group - Savage Mountain Formation
 Pyroxene, basalt to andesite flows, volcanic breccia and volcanic conglomerate

INTRUSIVE UNITS

EOCENE

EGo
Goosly Plutonic Suite
 Monzodioritic to gabbroic intrusive rocks

ENg
Nanika Plutonic Suite
 Granite, quartz monzonite, and minor rhyolite intrusive rocks

LATE CRETACEOUS

LKBg
Bulkley Plutonic Suite
 Intrusive rocks, undivided.

LKBfp
Bulkley Plutonic Suite
 Granite, alkali feldspar granite intrusive rocks

LKKP
Kasalka Plutonic Suite
 Granodiorite and microdiorite intrusive rocks

LKBgd
Bulkley Plutonic Suite
 Granodioritic intrusive rocks

LKBqd
Bulkley Plutonic Suite
 Quartz dioritic intrusive rocks

LKBqp
Bulkley Plutonic Suite
 High level quartz phryic, felsitic intrusive rocks

EARLY CRETACEOUS


EKMqm
McCauley Island Plutonic Suite
 Quartz monzonitic intrusive rocks


EARLY JURASSIC

EJTpgd
Topley Plutonic Suite
 Granodiorite, quartz diorite, diorite, minor granite

LATE TRIASSIC

LTrgd
 Granodiorite

 Selected MINFILE occurrences

 Fault

 Claim boundary

HDI QUARTZ MOUNTAIN

KARMA & BUCK

Geologic Legend

Date: March 13, 2013

Plotted by : AS

KARM_RegGeologyBCGS_Mar1113.WOR
 UTM NAD83, Zone 9

Figure 3b

the Ootsa Lake Group (Figure 3a). The Equity Silver Mine that operated from 1980 to 1994 lies approximately 30km to the northeast of the Karma claim group.

Tertiary stratigraphy is dominated by Eocene volcanism of the Endako and Nechako Plateau groups. Coarse volcanoclastic and pyroclastic rocks of the Endako Formation, andesite and trachyandesite lavas, breccias, sills and stocks of the Goosly Lake Formation, and aphanitic andesite, basalt and minor dacite flows of the Buck Creek Formation are also present.

Eocene volcanics dominate the eastern third of the Buck property. Church (1985) suggested that these volcanics were deposited in a large resurgent collapsed caldera. Equity Mine occurs in the approximate centre of this caldera, and gold mineralization at Bob Creek lies along its western edge.

Intrusive rocks span Upper Triassic to Eocene periods, but Upper Cretaceous to Eocene bodies are most abundant. Intrusions associated with mineralization on the Buck property are correlated with the Upper Cretaceous Bulkley Plutonic Suite. Many of these intrusions are believed to be feeders for Upper Cretaceous to Eocene volcanics in the area (Church and Barakso, 1990; Dostal, et al., 2005).

The caldera structure introduced by Church is referred to by later authors (Dostal, et al., 2005) as the Buck Creek complex or basin. The caldera is described as a block-faulted depression where extensional faulting was broadly coincident with volcanism. The basement of the basin is comprised of greenschist-facies Hazelton and Skeena groups. Volcanism of the Buck Creek Volcanic complex began with extrusion of Cretaceous calc-alkaline volcanics of the Tip Top Hill Formation. These volcanics were fed from several hypabyssal stocks and dykes of the Bulkley intrusions which are known to be spatially and genetically related to porphyry copper-molybdenum deposits off the property (Carter, 1976). The Tip Top Hill Formation volcanics are similar to the Kasalka Group, occur in a similar tectonic setting, and can probably be correlated with the Kasalka Group as shown on the regional geology map.

7.1 Mineral Occurrences

Mineral occurrences in the region are abundant. The most significant of these is the Equity Silver Mine, where Ag, Cu, and Au were mined from 1980 to 1994. Copper, silver and antimony sulphides and sulphosalts with associated gold occur with advanced argillic alteration as tabular zones grossly conformable to host volcanic rocks. Mineralization may be related to fluid circulation above a developing porphyry system (Cyr, et al., 1984).

Those MINFILE occurrences which occur within the Buck project work area include the following (Fig. 3a):

BOB CREEK PLACER (93L 005)

Placer accumulations in Bob Creek are believed to be derived from altered, gossanous rocks exposed further up Bob Creek canyon which are part of the Bob Creek occurrences.

BOB CREEK (93L 009)

Mineralization at Bob Creek is associated with hydrothermally altered Hazelton Group (Tip Top Hill?) volcanics, quartz-feldspar porphyry dykes and breccia. Mineralization occurs in veinlets, stringers and disseminations. Ore minerals observed include galena, sphalerite, pyrite, chalcopyrite, marcasite and arsenopyrite.

IRK (93L 265)

Disseminated galena, sphalerite, and pyrite occur in calcareous arkose, and weak chalcopyrite and pyrite occur in quartz veinlets within andesitic flows. In 1984, a sample of mineralized andesitic flow returned values of 39.6 grams per tonne silver and 0.277 per cent zinc.

LEWES RIVER (93L 261)

Three alkaline stocks occur along a northeast trend, spaced at about 13 kilometre intervals. The alkaline intrusives range from gabbro to syenomonzonite, and have been investigated for their potential to produce titanium and nepheline syenite.

JOHN (93L 059)

Minor chalcopyrite and pyrite in quartz occur as infilling in a fault in basalt.

One mineral occurrence, Shelford Hills was reported within the Karma claim boundary. The MINFILE number which occurs within the Karma project area is as follows (Fig. 3a):

SHELFORD HILLS (093e 085)

Area of rock sampling reported in Assessment Report 19107 with elevated Zinc, Lead and Gold hosted within andesitic volcanic rocks of the Late Cretaceous Kasalka Group.

8.0 PROPERTY GEOLOGY

A summary of historical workers' descriptions of the Bob Creek deposit area is presented herein. The last published detailed geological map of the mineralized area was included in Assessment Report 14,698 (Trinder and Rebagliati, 1985). This report describes the result of several years of work by BP Resources Canada Limited – Selco Division. All volcanic rocks were considered to belong to the Babine Shelf Facies of the Telkwa Formation of the Lower Jurassic Hazelton Group. This facies includes andesite flows, tuffs and flow breccias, dacite crystal, lithic and ash tuffs, and intercalated argillite and volcanic-derived sedimentary rocks. Church and Barakso (1990) reported the geology of the same area to be comprised of Hazelton Group volcanics overlain by an assemblage of acid volcanic rocks which are in turn overlain by the Tip Top Hill Formation. Church and Barakso described the acid volcanics as mostly rhyolitic lavas, breccia and tuff which rest unconformably on Hazelton Group rocks. The Tip Top Hill Formation is described as andesitic lavas and pyroclastic rocks. The BCGS (2005) digital geology of British Columbia correlates Church's acid volcanic rocks and the Tip Top Hill Formation with the Upper Cretaceous Kasalka Group. Kasalka Group volcanics overly Hazelton Group rocks in angular unconformity and are cut by Upper Cretaceous intrusions (MacIntyre, 1985).

The following description of intrusive rocks and alteration are summarized from Trinder and Rebagliati (1985). Volcanic rocks are intruded by minor Mesozoic rhyolite dykes, diorite/gabbro plugs or dykes, and Upper Cretaceous intrusive dykes and breccias correlated with the Bulkley Plutonic Suite. Upper Cretaceous intrusions at Bob Creek were described as a quartz feldspar porphyry (QFP) dyke-breccia complex. The most abundant alteration at Bob Creek is carbonate with lesser sericite, which are most intense within QFP dykes and breccias and in the rocks at their margins. Disseminated pyrite has a close spatial relationship to carbonate-sericite alteration. Silica is present as chalcedonic microveinlets and associated with sulphide veinlets. Church and Barakso (1990) report that sphalerite and lesser galena and chalcopryrite may occur as disseminations, stringers and in quartz veinlets of apparently random orientation.

In the south portion of the claim group, Cann (1984) observed a thick sequence of rhyolitic to dacitic flows, tuffs and tuff-breccias with minor intercalated argillite. This area is near the mapped contact between the Kasalka Group and the northwest trending Paleocene-Eocene sediments and Ootsa Lake Group. Ferbey et al. (2012) collected two samples for U-Pb geochronology between Ootsa Lake and Francois Lake. The study indicated that the dates are Upper Cretaceous and are provisionally included as part of the Kasalka Group.

9.0 GEOCHEMISTRY

9.1 Approach and Methodology

A total of 1489 soil samples, 159 rock samples and 10 silt samples were collected on the Buck and Karma properties between June 16 and August 3, 2012. Sample locations were indicated in the field using flagging tape labeled with unique sample numbers. UTM coordinates were determined for all sample locations with handheld Garmin GPS instruments. Soil samples were collected over 70.5 grid kilometres on several grids displayed in Work Areas A through G in Appendix C. Soil samples were collected at 25 to 50 metre separation where possible with approximately 0.5 kg of sample material from the B horizon collected at each site. Rock and silt samples were collected opportunistically within the sample areas. Samples were shipped to the Acme Analytical laboratory in Smithers B.C., where they were dried and prepped prior to analysis in Vancouver B.C.

Samples were analyzed for 36 elements by Inductively Coupled Plasma - Mass Spectrometry (Appendix A). Results are listed on the Acme Analytical Laboratories Ltd. (Acme) Geochemical Analysis Certificates contained in Appendix B.

9.2 Results

Silt, soil and rock surveys yielded some elevated to weakly anomalous zinc results tabulated in Appendix B. Sample locations and zinc values are shown on Work Area Maps A through G in Appendix D.

Work Area A: Elevated zinc throughout the 25m spacing soil grid with the highest value of 1,859ppm on line 653500E. Two anomalous rock samples with zinc values of 4,565ppm and 783ppm occur near 654600E, 6019800N.

Work Area B: No significant results in silt and rock sampling.

Work Area C: Elevated zinc in soils on the eastern end of the soil grid with the highest value of 675ppm on line 6003000N. Highest values of 374ppm and 299ppm in rock samples at 652000E, 6005500N.

Work Area D: No significant results in silt, soil and rock sampling.

Work Area E: Highest results in soils are 415ppm near 663700E, 5986500N and weakly elevated soils (202-361ppm) near 659000E, 5990200N. No significant results in rock samples.

Work Area F: No significant results in silt and rock sampling.

Work Area G: Highest results in soils (up to 650ppm) occur in the northern portion of line 652300E. Highest rock result of 293ppm occurs near 651400E, 5972600N.

10.0 PROSPECTING

Regional prospecting was conducted on the Buck property in tandem with the soil and silt sampling programs. A total of 159 rock samples were opportunistically collected within the claim area during the 2012 field program. The rock sample locations are illustrated on Figures A through G, provided in Appendix C. Rock sample descriptions are located in Appendix C, Tables A through G.

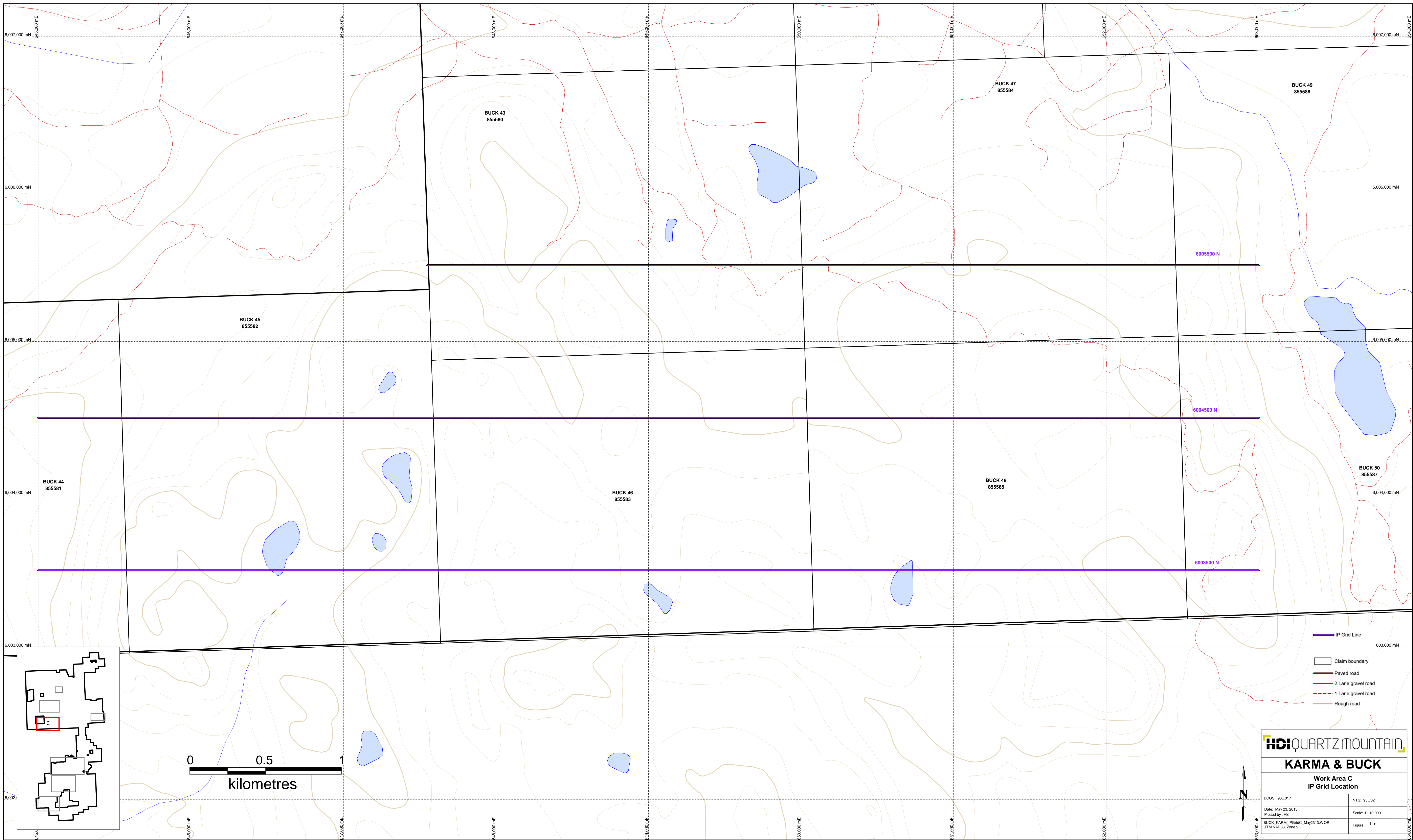
All rock samples were shipped to Acme Analytical Laboratories Ltd. in Smithers B.C., where they were dried and prepped prior to analysis in Vancouver B.C. The results table for the rock and silt samples collected during the 2012 field program are provided in Appendix B.

11.0 GEOPHYSICS

11.1 Induced Polarization

A total of 29.5 line-km of induced polarization was surveyed by Peter E. Walcott & Associates on the Buck claims (Figures 11a and 11b). All 29.5 line-km were brushed-out, flagged, chained and tagged at 50 m stations. Original pseudosections are in located in Appendix D. IP grid lines were 1 km apart and therefore cannot be contoured for plan view interpretation. Information on survey specifications has been provided by A. Walcott of Walcott & Associates.

11.1.1 Approach and Methodology



BUCK 44
855581

BUCK 45
855582

BUCK 43
855580

BUCK 46
855583

BUCK 47
855584

BUCK 49
855586

BUCK 50
855587

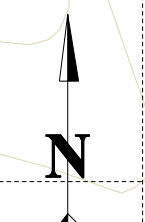
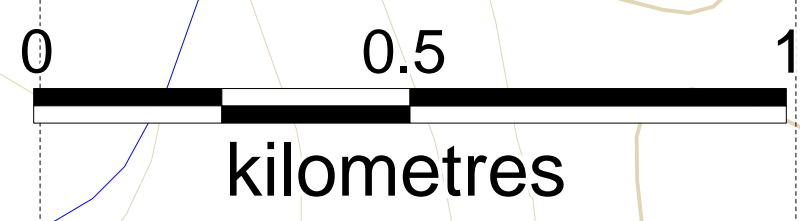
BUCK 48
855585

6005500 N

6004500 N

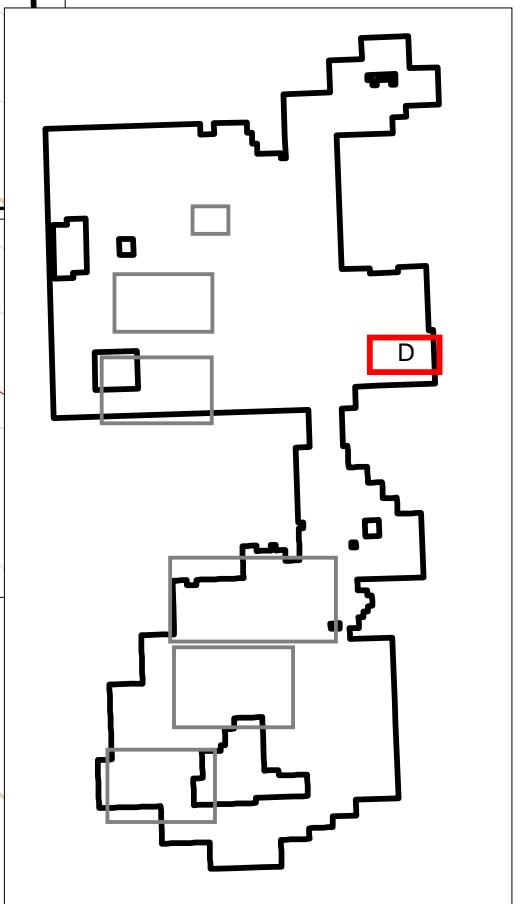
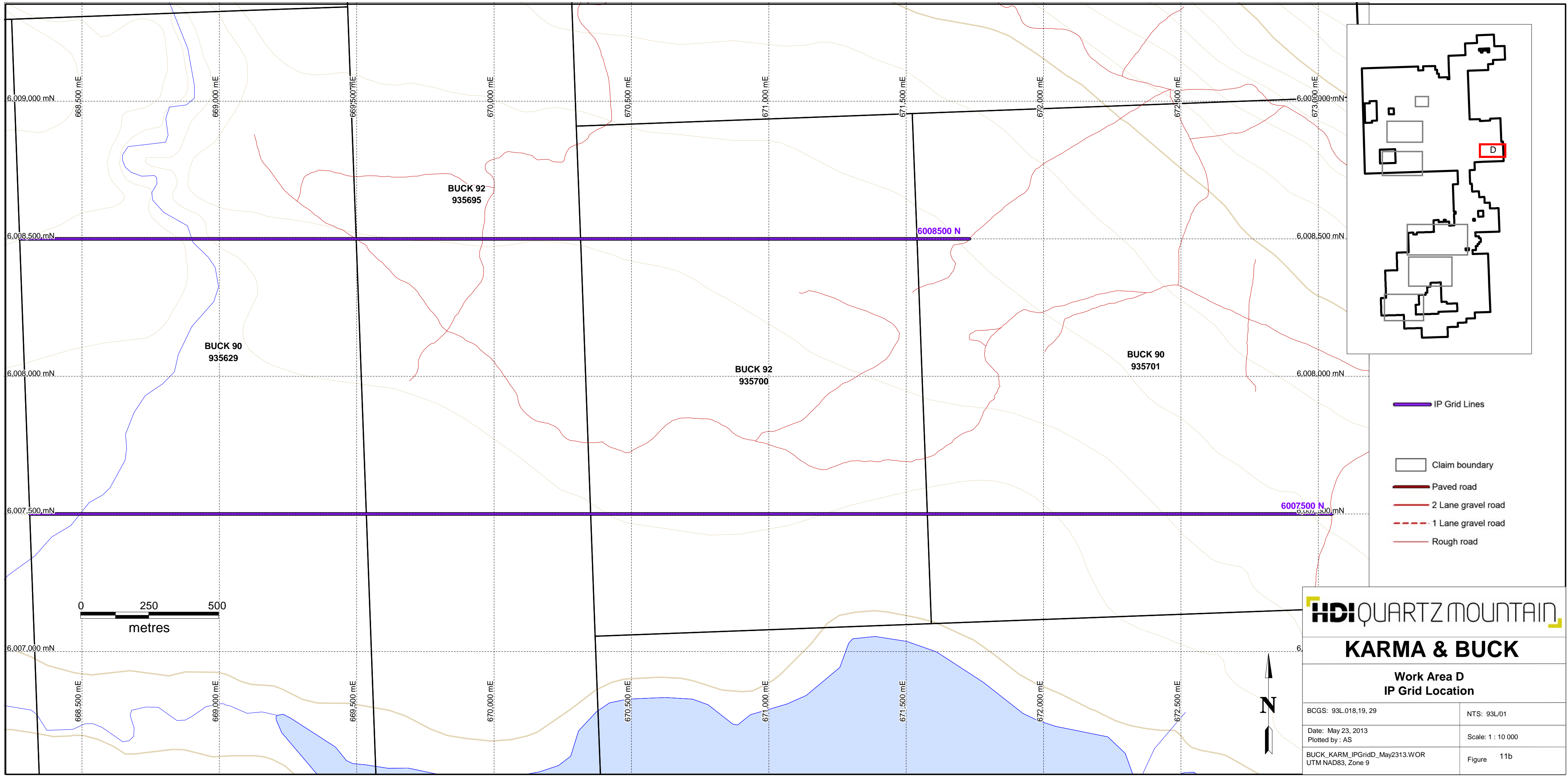
6003500 N





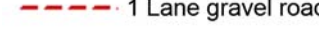

- IP Grid Line
- Claim boundary
- Paved road
- 2 Lane gravel road
- 1 Lane gravel road
- Rough road

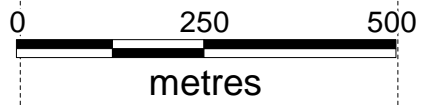


HDI QUARTZ MOUNTAIN
KARMA & BUCK
 Work Area C
 IP Grid Location

BCGS: 93L017	NTS: 93L02
Date: May 23, 2013	Scale: 1:10,000
Plotted by: AS	Figure: 11a
BUCK_KARM_IPGridC_May2313.WOR UTM NAD83, Zone 9	



-  IP Grid Lines
-  Claim boundary
-  Paved road
-  2 Lane gravel road
-  1 Lane gravel road
-  Rough road



HDI QUARTZ MOUNTAIN

KARMA & BUCK

Work Area D
IP Grid Location

BCGS: 93L.018,19, 29	NTS: 93L/01
Date: May 23, 2013 Plotted by: AS	Scale: 1 : 10 000
BUCK_KARM_IPGridD_May2313.WOR UTM NAD83, Zone 9	Figure 11b

The induced polarization (IP) survey was conducted using a pulse type system, the principal components of which were manufactured by Walcer Geophysics of Emskillen, Ontario, and Instrumentation GDD of St. Foy, Quebec.

The system consists basically of three units, a receiver (GDD), transmitter (Walcer) and a motor generator (Walcer). The transmitter, which provides a maximum of 9 kw d.c. to the ground, obtains its power from a 15 kw 400 c.p.s. three phase alternator driven by a Honda 24 h.p. gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes C_1 and C_2 , the primary voltages (V) appearing between any two sequential potential electrodes, P_1 through P_{n+1} , during the "current-on" part of the cycle, and the apparent chargeability, (M_a) presented as a direct readout in millivolts per volt using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor – the sample window is actually the total of twenty individual windows of 50 millisecond widths.

The apparent resistivity ($\hat{\rho}_a$) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode, C_1 , and the potential electrodes, P_1 through P_{n+1} , are moved in unison along the survey lines at a spacing of "a" (the dipole) apart, while the second current electrode, C_2 , is kept constant at "infinity". The distance, "na" between C_1 and the nearest potential electrode generally controls the depth to be explored by the particular separation, "n", traverse.

11.1.2 Interpretation

IP survey results are presented as filtered chargeability and filtered resistivity in pseudosections in Appendix E. IP grid lines were 1 km apart and therefore cannot be contoured for plan view interpretation.

Work Area C:

Three East-West IP lines were conducted in Work Area C. Zones of weak to moderate chargeability occurs on Line 35+00N from station 6470+00E to 6500+00E, Line 45+00N from station 6480+00E to 6500+00E and Line 55+00N from the western limit to 6495+00E. No anomalous geochemical signatures correspond with these zones of chargeability. On all pseudosections, high resistivity is consistently overlain by a zone of low resistivity indicative of thick overburden. Anomalous zinc soil content occurs near the eastern and western edge of

L35+00N. At the western end values of 685ppm and 324ppm zinc occur near a small near-surface resistivity high.

Work Area D:

Two East-West IP lines were conducted in Work Area D. There are no well-defined zones of anomalous chargeability in this area. A 1km by 1.5km zone of low resistivity is flanked by higher resistivity.

12.0 CONCLUSIONS AND RECOMMENDATIONS

In order to better delineate anomalies, higher density geochemical sampling for work areas A, C, E, and G is recommended. Extension of L35+00N to the west, and closer spaced grid lines are also recommended to examine the area of low resistivity in work area C.

13.0 REFERENCES

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- Trinder, I., and Rebagliati, C.M., 1985. Geology, Geochemistry and Diamond Drilling on the Buck Creek Property Joint Venture. Assessment Report 14,698.

14.0 STATEMENTS OF QUALIFICATIONS

I, **Alexandra Shaw**, of Vancouver, British Columbia, hereby certify that:

1. I am an Advisor | Lands & Acquisitions working for Quartz Mountain Resources Ltd., with offices located at 1500-1040 West Georgia Street, Vancouver, British Columbia
2. I received a B.Sc. degree in Earth and Ocean Sciences from the University of Victoria, Victoria, British Columbia in 2003.
3. I am an author of this report and responsible for the technical figures.

Signed on the 28th day of May, 2013

A handwritten signature in blue ink that reads "A. Shaw". The signature is cursive and includes a long horizontal flourish at the end.

Alexandra Shaw, B.Sc.

STATEMENT OF QUALIFICATIONS

I, **Andrew Stewart Takahashi**, resident of Vancouver, British Columbia, do certify that:

1. I am a graduate of the University of Northern British Columbia with a B.Sc. in Geography (2003);
2. I have performed geological services in British Columbia, New Brunswick, Alaska and Tibet since 2004;
3. I am presently employed with Hunter Dickinson Services Inc. as Manager | Project Services;
4. I am an author of this report.

Signed on the 28th day of May, 2013,

A handwritten signature in dark ink, appearing to read 'AST', with a long horizontal line extending to the right.

Andrew Stewart Takahashi, B.Sc.

STATEMENT OF QUALIFICATIONS

I, **C. Mark Rebagliati**, P. Eng., of Vancouver, British Columbia, Canada, do hereby state that:

1. I am Executive VP – Exploration at HDI with offices at 15th floor - 1040 W Georgia St, Vancouver, British Columbia, Canada, V6E 4H1.
2. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, holding License Number 8352.
3. I graduated with a B.Sc. in geological engineering from Michigan Technological University, Houghton, Michigan, USA in 1969.
4. I have worked as an exploration geologist for a total of 42 years since my graduation from university.
5. I am an author of this report.

Signed on the 28th day of May, 2013



C. Mark Rebagliati, P.Eng.

STATEMENT OF QUALIFICATIONS

I, **Gwendolen May Ditson**, do hereby state that:

1. I am a Compilation Geologist working for Amarc Resources Ltd., with offices located at 1500 – 1040 West Georgia Street, Vancouver, B.C.
2. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, holding License Number 20135.
3. I am a graduate of the University of Southern California (B.S., 1974), and the University of British Columbia (M.Sc., 1978).
4. I have been an exploration geologist since 1976, and have worked in Canada, the United States, Chile, Spain and Mexico.
5. I am an author of this report.

Signed on the 28th day of May, 2013,



Gwendolen May Ditson, M.Sc., P.Geo.

14.0 STATEMENT OF COSTS

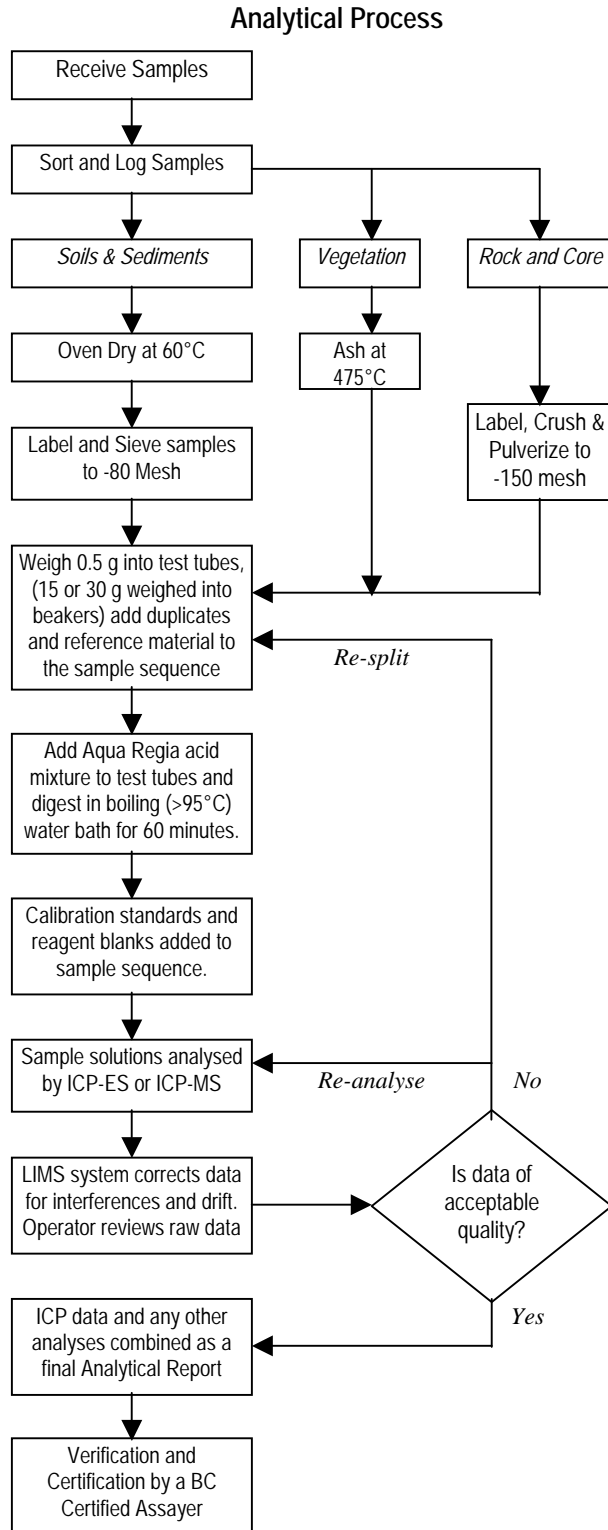
Exploration Work type	Comment	Days			Totals
Personnel	Field Days (list actual days)	Days	Rate	Subtotal	
P. Bui, Project Manager	June 15-29, July 2-6	20	\$ 640.00	\$ 12,800.00	
B. Harding, Field Geologist	June 15-29, July 2-3	17	\$ 640.00	\$ 10,880.00	
A. Andrzejewski, Field Geologist	June 15-21, June 25-29, July 2-6	17	\$ 640.00	\$ 10,880.00	
L. McClenaghan, Field Geologist	July 3-Aug 3	32	\$ 640.00	\$ 20,480.00	
E. Bordet, Field Geologist	July 3-Aug 3	32	\$ 640.00	\$ 20,480.00	
M. Sawatzky, Field Geologist	July 17-Aug 3	17	\$ 640.00	\$ 10,880.00	
O. Reyes, Field Technician	June 21-30	10	\$ 640.00	\$ 6,400.00	
C. Roe, Field Technician	June 21-29	9	\$ 640.00	\$ 5,760.00	
B. Garland, Field Technician	July 16-Aug 1	16	\$ 640.00	\$ 10,240.00	
R. Roe, Logistics Manager	June 2-29, July 2,3	11	\$ 640.00	\$ 7,040.00	
J. Glaim, First Nations Trechnician	June 18-25	8	\$ 400.00	\$ 3,200.00	
N. Ogen, First Nations Technician	June 18	1	\$ 400.00	\$ 400.00	
				\$ 119,040.00	\$ 119,040.00
Office Studies	List Personnel	Days	Rate	Subtotal	
Project Supervision	Mark Rebagliati	2.0	\$ 2,160.00	\$ 4,320.00	
Project Supervision	Robert Cluff	2.5	\$ 2,160.00	\$ 5,400.00	
Processing	Romeo Taras	3.0	\$ 680.00	\$ 2,040.00	
Report Preparation	Drew Takahashi	5.0	\$ 1,040.00	\$ 5,200.00	
				\$ 16,960.00	\$ 16,960.00
Ground geophysics				Subtotal	
Induced Polarization	Peter E. Walcott & Associates, Vancouver			\$ 109,368.00	
				\$ 109,368.00	\$ 109,368.00
Geochemical Surveying		No.	Rate	Subtotal	
Rock Analyses	Acme Labs, Vancouver	159	\$ 25.00	\$ 3,975.00	
Silt Analyses	Acme Labs, Vancouver	10	\$ 20.00	\$ 200.00	
Soil analyses	Acme Labs, Vancouver	1489	\$ 20.00	\$ 29,780.00	
				\$ 33,955.00	\$ 33,955.00
Accommodation & Food				Subtotal	
Wanakena Motel		104.0	\$ 69.00	\$ 7,176.00	
Noralee Resort		50.0	\$ 70.00	\$ 3,500.00	
Noralee Resort Cabin		23.0	\$ 80.00	\$ 1,840.00	
Meals				\$ 4,876.27	
				\$ 17,392.27	\$ 17,392.27
Transportation	Date			Subtotal	
Airfare	Pacific Coast Airlines, Hawk Air, Air Canada			\$ 1,470.00	
Ground transportation	Ron Ridley Truck Rentals			\$ 10,931.93	
				\$ 12,401.93	\$ 12,401.93
Miscellaneous				Subtotal	
Field Supplies & Equipment				\$ 15,502.76	
				\$ 15,502.76	\$ 15,502.76
TOTAL Expenditures					\$ 324,619.96

APPENDIX A

Analytical Procedures



METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 1D & 1DX – ICP & ICP-MS ANALYSIS – AQUA REGIA



Comments

Sample Preparation

All samples are dried at 60°C. Soil and sediment are sieved to -80 mesh (-177 µm). Moss-mats are disaggregated then sieved to yield -80 mesh sediment. Vegetation is pulverized or ashed (475°C). Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g riffle split is then pulverized to 95% passing 150 mesh (100 µm) in a mild-steel ring-and-puck mill. Pulp splits of 0.5 g are weighed into test tubes, 15 and 30 g splits are weighed into beakers.

Sample Digestion

A modified Aqua Regia solution of equal parts concentrated ACS grade HCl and HNO₃ and de-mineralised H₂O is added to each sample to leach for one hour in a hot water bath (>95°C). After cooling the solution is made up to final volume with 5% HCl. Sample weight to solution volume is 1 g per 20 mL.

Sample Analysis

Group 1D: solutions aspirated into a Jarrel Ash AtomComp 800 or 975 ICP or Spectro Ciros Vision emission spectrometer are analysed for 30 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Group 1DX: solutions aspirated into a Perkin Elmer Elan 6000/9000 ICP mass spectrometer are analysed for 36 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Se, Tl, Sr, Th, Ti, U, V, W, Zn.

Quality Control and Data Verification

An Analytical Batch (1 page) comprises 33 samples. QA/QC protocol incorporates a sample-prep blank (SI or G-1) carried through all stages of preparation and analysis as the first sample, a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), two reagent blanks to measure background and aliquots of in-house Standard Reference Materials like STD DS6 to monitor accuracy.

Raw and final data undergo a final verification by a British Columbia Certified Assayer who signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Leo Arciaga, Marcus Lau, Ken Kwok and Jacky Wang.

APPENDIX B

Analytical Certificates



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Ted Oliver
Receiving Lab: Canada-Smithers
Received: July 03, 2012
Report Date: August 15, 2012
Page: 1 of 16

CERTIFICATE OF ANALYSIS

SMI12000047.1

CLIENT JOB INFORMATION

Project: Buck
Shipment ID: WA2
P.O. Number: QZM-Buck-001
Number of Samples: 446

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	433	Dry at 60C			SMI
SS80	433	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	428	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC: Data Email



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 15, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000047.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
964300	Soil	0.7	8.8	7.3	128	<0.1	7.8	6.3	287	2.85	5.2	<0.5	1.1	46	0.6	0.2	<0.1	69	0.21	0.019	4
964301	Soil	1.1	21.2	269.6	675	0.6	8.1	12.6	2146	3.88	22.4	<0.5	1.2	86	4.1	0.3	0.1	79	0.72	0.124	11
964302	Soil	0.7	9.8	10.8	224	<0.1	9.6	7.1	471	2.87	6.2	<0.5	1.1	66	2.7	0.2	<0.1	66	0.22	0.120	5
964303	Soil	0.6	12.8	9.6	102	<0.1	8.1	6.6	599	2.63	7.1	8.7	1.3	45	0.5	0.3	<0.1	63	0.39	0.091	11
964304	Soil	0.6	14.7	8.8	89	0.2	10.8	7.9	426	3.04	7.4	<0.5	1.0	32	0.5	0.3	<0.1	68	0.21	0.035	8
964305	Soil	0.5	11.0	11.0	111	0.1	10.4	7.7	272	2.87	6.6	<0.5	1.0	55	0.2	0.2	<0.1	66	0.36	0.034	6
964306	Soil	0.6	9.2	8.7	106	0.1	7.5	5.2	503	2.44	2.7	<0.5	0.9	49	0.2	0.2	<0.1	62	0.18	0.058	7
964307	Soil	0.4	10.7	7.2	92	0.1	9.6	5.7	281	2.40	3.7	<0.5	1.3	70	0.1	0.2	<0.1	56	0.33	0.027	8
964308	Soil	0.5	19.2	9.2	78	0.1	15.4	10.3	729	2.83	5.4	<0.5	2.5	192	0.3	0.2	<0.1	70	0.81	0.101	17
964309	Soil	0.6	13.1	7.6	97	<0.1	12.6	10.4	371	3.05	7.6	<0.5	1.7	82	0.1	0.2	<0.1	70	0.31	0.165	8
964310	Soil	0.7	9.9	7.0	79	<0.1	8.1	5.4	196	2.70	4.2	<0.5	0.8	87	0.2	0.2	<0.1	73	0.26	0.064	5
964311	Soil	0.7	15.6	9.3	106	0.1	12.5	7.8	677	2.99	5.3	<0.5	1.2	105	0.3	0.2	<0.1	70	0.53	0.062	13
964312	Soil	0.5	7.3	6.3	76	<0.1	6.5	5.3	325	2.39	4.8	<0.5	1.1	47	0.1	0.2	<0.1	59	0.29	0.055	6
964313	Soil	0.6	17.2	9.2	83	0.2	10.4	7.5	483	3.17	7.5	<0.5	1.6	109	0.4	0.2	0.1	72	0.57	0.047	12
964314	Soil	0.6	26.3	10.0	85	0.3	14.2	8.6	557	2.95	6.9	2.0	1.3	162	0.6	0.2	<0.1	62	0.97	0.065	23
972000	Soil	0.5	19.1	9.6	65	<0.1	15.8	7.9	466	2.93	8.2	1.5	2.7	75	0.1	0.5	<0.1	69	0.55	0.089	13
972001	Soil	0.5	32.7	5.5	37	0.5	11.6	4.1	590	1.52	3.7	<0.5	0.3	268	0.7	0.4	<0.1	32	2.39	0.077	10
972002	Soil	0.5	10.3	8.1	133	0.1	8.4	6.3	450	2.52	3.6	<0.5	1.3	61	0.4	0.2	<0.1	62	0.40	0.033	6
972003	Soil	0.4	29.9	6.0	59	0.3	13.2	4.9	241	2.14	3.7	<0.5	0.4	141	0.7	0.2	<0.1	49	1.18	0.058	12
972004	Soil	0.7	10.3	7.3	55	<0.1	11.0	7.0	211	3.00	5.3	<0.5	1.2	44	0.1	0.2	<0.1	73	0.26	0.056	5
972005	Soil	0.7	10.7	10.2	159	0.2	9.6	6.9	321	2.71	4.4	<0.5	1.0	60	0.8	0.2	0.1	61	0.56	0.181	5
972006	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972007	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972008	Soil	0.9	9.7	9.4	76	<0.1	9.0	6.4	406	2.88	5.2	1.4	1.0	24	0.3	0.2	0.1	70	0.21	0.080	5
972009	Soil	0.7	12.1	9.1	86	<0.1	14.6	8.7	289	3.33	5.5	<0.5	1.3	25	0.3	0.2	<0.1	77	0.18	0.148	5
972010	Soil	0.7	7.1	6.8	102	<0.1	9.3	6.5	975	2.70	3.6	<0.5	0.9	20	0.2	0.2	<0.1	58	0.19	0.191	4
972011	Soil	0.6	6.8	6.8	95	<0.1	10.3	5.9	166	2.79	3.2	<0.5	1.3	27	0.2	0.2	<0.1	64	0.20	0.156	5
972012	Soil	0.7	10.9	6.0	94	0.1	11.5	7.3	281	2.99	4.4	<0.5	1.1	33	0.3	0.2	<0.1	68	0.22	0.125	5
972013	Soil	0.9	29.4	5.7	113	0.3	22.0	7.9	666	2.56	2.6	<0.5	0.8	168	0.6	0.1	<0.1	54	1.41	0.066	29
972014	Soil	0.7	9.3	7.0	132	0.2	9.2	7.0	280	2.93	3.5	<0.5	0.6	43	0.3	0.1	<0.1	69	0.23	0.208	5

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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 15, 2012

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CERTIFICATE OF ANALYSIS

SMI12000047.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964300	Soil	13	0.19	236	0.066	2	1.02	0.013	0.07	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
964301	Soil	11	0.24	438	0.022	3	2.14	0.008	0.15	<0.1	0.04	6.7	2.2	0.08	6	<0.5	<0.2
964302	Soil	12	0.23	270	0.053	2	1.53	0.012	0.07	<0.1	0.01	3.1	0.2	<0.05	5	<0.5	<0.2
964303	Soil	12	0.23	178	0.053	2	0.79	0.018	0.06	<0.1	0.02	4.2	<0.1	<0.05	3	<0.5	<0.2
964304	Soil	15	0.31	132	0.043	2	1.16	0.015	0.06	<0.1	0.02	4.7	<0.1	<0.05	4	<0.5	<0.2
964305	Soil	14	0.35	248	0.040	2	1.22	0.017	0.06	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
964306	Soil	14	0.18	223	0.070	1	0.96	0.013	0.05	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
964307	Soil	14	0.31	219	0.071	2	1.11	0.019	0.06	<0.1	0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
964308	Soil	19	0.54	485	0.074	3	1.62	0.031	0.10	<0.1	0.02	7.5	0.1	<0.05	5	<0.5	<0.2
964309	Soil	14	0.32	343	0.053	2	2.06	0.015	0.05	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
964310	Soil	12	0.20	311	0.070	2	1.22	0.012	0.06	<0.1	0.01	3.0	<0.1	<0.05	6	<0.5	<0.2
964311	Soil	17	0.45	337	0.039	2	2.08	0.017	0.08	<0.1	0.02	5.7	0.1	<0.05	5	<0.5	<0.2
964312	Soil	10	0.25	181	0.051	1	0.97	0.015	0.05	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
964313	Soil	16	0.34	442	0.036	2	1.77	0.017	0.06	<0.1	0.03	8.3	0.1	<0.05	5	<0.5	<0.2
964314	Soil	16	0.42	569	0.022	2	2.11	0.017	0.07	<0.1	0.05	8.7	0.1	<0.05	5	<0.5	<0.2
972000	Soil	23	0.40	267	0.068	3	1.28	0.026	0.07	<0.1	0.02	7.2	<0.1	<0.05	4	<0.5	<0.2
972001	Soil	19	0.28	848	0.017	4	1.07	0.013	0.04	0.2	0.11	2.8	<0.1	0.10	3	1.0	<0.2
972002	Soil	17	0.25	393	0.055	2	1.37	0.017	0.06	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
972003	Soil	16	0.25	438	0.030	2	1.15	0.017	0.04	<0.1	0.05	3.7	<0.1	0.06	3	<0.5	<0.2
972004	Soil	20	0.24	215	0.063	2	1.46	0.015	0.05	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
972005	Soil	18	0.24	267	0.042	4	1.63	0.011	0.08	<0.1	0.03	3.9	<0.1	<0.05	7	<0.5	<0.2
972006	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972007	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972008	Soil	15	0.20	169	0.029	1	2.21	0.012	0.05	<0.1	0.03	3.8	<0.1	<0.05	7	<0.5	<0.2
972009	Soil	22	0.24	184	0.049	2	3.04	0.009	0.05	<0.1	0.04	3.8	<0.1	<0.05	9	<0.5	<0.2
972010	Soil	14	0.18	161	0.034	1	1.85	0.010	0.06	<0.1	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
972011	Soil	16	0.16	173	0.055	2	2.07	0.011	0.05	<0.1	0.03	3.1	<0.1	<0.05	7	<0.5	<0.2
972012	Soil	19	0.24	217	0.039	2	1.93	0.013	0.06	<0.1	0.03	4.0	<0.1	<0.05	6	<0.5	<0.2
972013	Soil	27	0.42	519	0.021	2	2.48	0.014	0.08	<0.1	0.04	8.0	<0.1	0.05	6	<0.5	<0.2
972014	Soil	18	0.19	279	0.039	1	2.09	0.012	0.05	<0.1	0.03	2.7	<0.1	<0.05	7	<0.5	<0.2

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Page: 3 of 16

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000047.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
972015	Soil	0.8	11.9	7.0	71	<0.1	16.3	9.1	236	3.13	3.2	<0.5	1.3	54	0.2	0.2	<0.1	72	0.21	0.178	7
972016	Soil	1.1	10.4	8.2	115	<0.1	20.2	8.7	222	3.01	3.8	<0.5	1.8	43	0.3	0.2	<0.1	70	0.23	0.201	7
972017	Soil	0.7	13.5	8.7	117	<0.1	19.6	9.1	435	2.95	2.7	<0.5	1.3	60	0.2	0.1	<0.1	66	0.32	0.134	8
972018	Soil	0.6	12.4	6.8	110	<0.1	18.2	8.2	202	2.98	2.3	<0.5	0.7	49	0.1	0.1	<0.1	65	0.23	0.187	6
972019	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972020	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972021	Soil	1.0	20.1	6.5	113	<0.1	19.3	10.9	393	3.11	4.8	<0.5	0.7	72	0.2	0.3	<0.1	74	0.40	0.145	9
972022	Soil	0.2	4.7	0.6	14	<0.1	2.0	0.4	57	0.13	<0.5	<0.5	<0.1	150	0.1	<0.1	<0.1	5	1.15	0.024	1
972023	Soil	0.8	24.1	4.2	32	0.2	15.2	6.7	940	1.95	4.4	<0.5	0.6	325	0.8	0.2	<0.1	36	2.13	0.063	11
972024	Soil	0.7	15.9	7.7	68	<0.1	13.8	6.0	174	2.55	1.6	1.4	0.7	92	0.1	0.2	0.1	66	0.48	0.057	7
972025	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972026	Soil	0.9	7.4	7.4	156	<0.1	9.1	6.6	532	2.75	3.1	1.1	0.8	30	0.7	0.2	0.1	65	0.20	0.135	4
972027	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972028	Soil	0.8	10.7	7.1	81	<0.1	11.1	7.5	261	3.23	9.0	0.5	0.8	24	0.4	0.2	0.1	73	0.15	0.088	4
972029	Soil	1.1	11.8	5.4	93	0.1	14.1	7.1	1303	2.53	5.5	1.0	0.5	56	0.3	0.2	<0.1	58	0.37	0.081	6
972030	Soil	0.9	15.1	7.5	81	<0.1	18.7	11.7	257	3.55	10.9	0.7	1.2	31	0.2	0.3	0.1	81	0.17	0.093	5
972031	Soil	1.4	10.8	13.1	219	0.1	13.4	12.8	2876	3.36	6.1	1.4	0.3	22	2.5	0.2	0.1	73	0.16	0.128	6
972032	Soil	0.9	12.0	7.6	102	0.2	10.3	9.2	788	3.05	7.2	<0.5	0.9	20	1.0	0.2	<0.1	62	0.17	0.185	5
972033	Soil	0.9	9.4	6.9	116	<0.1	7.9	6.9	504	3.13	6.4	1.9	0.8	10	0.3	0.2	<0.1	63	0.13	0.247	4
972034	Soil	0.7	4.8	5.9	72	0.1	4.3	3.9	277	2.33	3.4	1.0	0.5	13	0.3	0.2	<0.1	47	0.15	0.141	4
972035	Soil	0.7	5.1	5.9	78	<0.1	5.8	4.7	249	2.47	4.0	<0.5	1.0	15	0.2	0.1	<0.1	50	0.13	0.169	3
972036	Soil	0.7	6.2	4.0	48	<0.1	6.1	4.6	479	2.30	3.7	0.5	0.7	22	0.1	0.2	<0.1	52	0.24	0.041	6
972037	Soil	0.8	5.1	5.2	62	<0.1	5.3	5.1	517	2.47	3.6	<0.5	0.9	19	0.2	0.2	<0.1	55	0.18	0.069	4
972038	Soil	0.8	6.0	5.2	56	<0.1	6.0	5.6	319	2.57	5.2	<0.5	1.1	18	0.2	0.2	<0.1	57	0.19	0.125	4
972039	Soil	1.1	9.5	7.1	85	0.2	10.6	12.2	3149	2.95	4.6	<0.5	1.2	32	0.3	0.2	<0.1	60	0.27	0.065	7
972040	Soil	0.9	27.2	4.4	89	0.4	15.0	7.5	1618	2.27	2.9	0.7	0.9	242	0.8	0.2	<0.1	52	1.53	0.115	43
972041	Soil	0.7	5.7	7.1	76	0.1	4.9	3.8	128	2.86	4.1	<0.5	0.8	15	0.2	0.2	0.2	60	0.14	0.248	4
972042	Soil	0.6	11.4	4.7	65	<0.1	8.1	5.6	868	2.23	2.5	0.8	0.6	38	0.2	0.1	<0.1	47	0.33	0.067	14
972043	Soil	1.4	24.1	7.8	123	0.3	18.5	11.8	6764	3.11	4.7	<0.5	1.3	80	1.1	0.2	<0.1	59	0.66	0.135	25
972044	Soil	0.9	8.9	5.7	56	<0.1	6.5	5.4	1262	2.37	3.9	<0.5	0.7	26	0.1	0.1	<0.1	54	0.23	0.064	7

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972015	Soil	26	0.27	242	0.070	2	2.69	0.013	0.06	<0.1	0.03	4.0	<0.1	<0.05	7	<0.5	<0.2
972016	Soil	29	0.23	218	0.072	2	2.50	0.011	0.06	<0.1	0.03	3.7	<0.1	<0.05	7	<0.5	<0.2
972017	Soil	29	0.33	281	0.069	1	3.15	0.013	0.07	<0.1	0.03	4.3	<0.1	<0.05	10	<0.5	<0.2
972018	Soil	27	0.29	204	0.056	1	3.27	0.010	0.08	<0.1	0.06	3.2	<0.1	<0.05	9	<0.5	<0.2
972019	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972020	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972021	Soil	29	0.34	265	0.050	2	2.08	0.014	0.09	<0.1	0.04	3.6	<0.1	<0.05	6	<0.5	<0.2
972022	Soil	4	0.06	94	0.002	3	0.12	0.010	0.01	<0.1	0.03	0.4	<0.1	0.07	<1	<0.5	<0.2
972023	Soil	19	0.26	486	0.018	2	1.39	0.015	0.04	<0.1	0.08	5.3	0.1	0.10	4	<0.5	<0.2
972024	Soil	28	0.24	240	0.074	1	1.84	0.014	0.06	<0.1	0.03	2.8	<0.1	<0.05	8	<0.5	<0.2
972025	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972026	Soil	19	0.19	215	0.037	3	1.95	0.009	0.05	<0.1	0.04	2.6	<0.1	<0.05	7	<0.5	<0.2
972027	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972028	Soil	21	0.24	196	0.054	2	2.19	0.009	0.05	<0.1	0.03	2.9	<0.1	<0.05	8	<0.5	<0.2
972029	Soil	25	0.30	287	0.040	2	1.82	0.010	0.08	<0.1	0.04	3.2	<0.1	0.17	7	<0.5	<0.2
972030	Soil	26	0.31	290	0.038	2	3.04	0.009	0.06	<0.1	0.05	3.9	0.4	0.16	8	<0.5	<0.2
972031	Soil	26	0.20	287	0.049	4	1.94	0.010	0.06	<0.1	0.05	2.4	0.3	0.25	10	<0.5	<0.2
972032	Soil	17	0.21	233	0.026	3	1.71	0.009	0.05	<0.1	0.05	3.5	<0.1	0.17	6	<0.5	<0.2
972033	Soil	13	0.20	109	0.013	2	2.28	0.008	0.04	<0.1	0.03	3.1	<0.1	0.13	7	<0.5	<0.2
972034	Soil	9	0.09	123	0.024	2	1.13	0.007	0.04	<0.1	0.03	2.1	<0.1	0.09	5	<0.5	<0.2
972035	Soil	10	0.12	122	0.023	2	1.44	0.008	0.05	<0.1	0.03	2.5	<0.1	0.09	6	<0.5	<0.2
972036	Soil	9	0.19	177	0.034	2	0.93	0.010	0.04	<0.1	0.01	2.7	<0.1	0.15	4	<0.5	<0.2
972037	Soil	9	0.13	165	0.035	2	0.90	0.009	0.05	<0.1	0.01	2.3	<0.1	0.11	4	<0.5	<0.2
972038	Soil	10	0.15	129	0.027	2	1.23	0.008	0.04	<0.1	0.04	2.7	<0.1	0.12	4	<0.5	<0.2
972039	Soil	16	0.29	364	0.012	2	2.12	0.010	0.07	<0.1	0.03	4.9	0.2	0.16	7	<0.5	<0.2
972040	Soil	19	0.49	1010	0.007	4	2.52	0.009	0.08	<0.1	0.11	8.8	0.1	<0.05	6	0.7	<0.2
972041	Soil	12	0.12	161	0.027	1	1.39	0.008	0.04	<0.1	0.04	2.5	<0.1	0.18	7	<0.5	<0.2
972042	Soil	13	0.25	366	0.017	2	1.76	0.009	0.06	<0.1	0.02	3.6	<0.1	0.19	6	<0.5	<0.2
972043	Soil	23	0.37	708	0.011	3	2.93	0.011	0.12	<0.1	0.06	8.2	0.3	0.18	9	<0.5	<0.2
972044	Soil	12	0.16	255	0.025	2	1.23	0.008	0.05	<0.1	0.03	3.0	<0.1	0.18	5	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
972045	Soil	0.7	4.6	5.5	48	<0.1	5.1	3.7	165	1.99	2.8	<0.5	0.5	20	<0.1	0.2	<0.1	47	0.21	0.052	4
972046	Soil	1.4	18.4	6.9	75	0.3	10.3	8.1	3089	2.50	4.2	<0.5	0.8	39	0.4	0.1	<0.1	51	0.27	0.093	20
972047	Soil	0.8	5.7	5.4	56	0.1	5.7	4.7	473	2.11	3.2	<0.5	0.5	20	0.2	0.1	<0.1	48	0.18	0.051	4
972048	Soil	0.7	4.7	4.1	39	<0.1	4.8	3.7	202	2.21	4.0	0.8	0.7	16	<0.1	0.2	<0.1	53	0.16	0.031	4
972049	Soil	1.0	8.1	5.1	55	<0.1	7.7	7.3	928	2.37	4.7	<0.5	0.4	35	0.2	0.2	<0.1	52	0.32	0.076	6
972050	Soil	0.7	7.9	4.9	64	<0.1	6.3	5.1	263	2.86	4.9	<0.5	1.0	24	<0.1	0.2	<0.1	60	0.21	0.113	4
972051	Soil	1.0	9.5	6.1	65	0.1	7.4	5.9	597	2.32	3.3	<0.5	0.4	42	0.2	0.2	<0.1	51	0.37	0.039	8
972052	Soil	1.0	22.3	5.3	69	0.3	16.8	10.0	2357	3.04	5.8	<0.5	1.2	210	0.7	0.2	<0.1	73	0.99	0.062	18
972053	Soil	0.8	23.5	4.7	100	0.5	13.9	6.4	1318	2.15	2.7	0.9	1.0	189	0.6	0.3	<0.1	53	1.54	0.101	30
972054	Soil	0.7	6.9	5.5	68	<0.1	7.8	6.6	875	2.32	3.5	<0.5	0.6	35	0.4	0.2	<0.1	55	0.32	0.055	7
972055	Soil	0.7	6.9	4.2	47	<0.1	6.7	4.7	231	2.29	4.4	<0.5	0.8	29	<0.1	0.2	<0.1	53	0.28	0.038	5
972056	Soil	0.7	16.4	5.4	71	0.1	12.1	6.2	480	2.49	4.3	0.9	1.0	81	0.2	0.2	<0.1	56	0.67	0.060	13
972057	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972058	Soil	1.3	13.6	5.1	109	0.2	13.2	7.3	1176	2.48	4.1	<0.5	1.0	90	0.6	0.2	<0.1	62	0.90	0.091	21
972059	Soil	0.6	9.3	4.6	53	0.1	8.8	6.1	510	2.42	5.1	0.8	1.0	47	0.2	0.2	<0.1	60	0.54	0.084	11
972060	Soil	1.0	6.4	5.4	67	<0.1	5.2	5.8	463	2.82	5.3	0.6	1.3	14	0.1	0.2	<0.1	59	0.16	0.242	4
972061	Soil	0.9	6.6	4.7	107	<0.1	5.7	5.4	293	2.99	5.1	<0.5	1.5	14	<0.1	0.1	<0.1	60	0.16	0.196	4
972062	Soil	0.9	8.5	4.1	46	<0.1	7.9	6.0	214	2.58	5.2	<0.5	1.3	27	<0.1	0.2	<0.1	53	0.28	0.066	4
972063	Soil	0.8	7.8	5.2	69	<0.1	6.0	5.7	270	2.80	5.3	0.6	1.4	10	<0.1	0.2	<0.1	57	0.11	0.121	4
972064	Soil	0.7	3.7	4.3	29	<0.1	3.4	3.1	190	1.81	2.8	1.1	0.7	16	<0.1	0.1	0.1	47	0.15	0.030	3
972065	Soil	0.8	11.5	6.1	55	<0.1	7.1	6.6	579	2.79	6.7	1.0	1.9	28	<0.1	0.3	<0.1	66	0.32	0.105	9
972066	Soil	0.7	12.9	5.9	48	<0.1	7.7	6.6	587	2.77	6.8	1.7	2.5	29	<0.1	0.3	<0.1	68	0.39	0.112	11
972067	Soil	0.9	5.4	5.5	46	<0.1	3.4	4.2	547	2.20	3.2	<0.5	1.0	14	0.1	0.2	0.1	56	0.12	0.049	4
972068	Soil	1.3	9.7	5.5	65	<0.1	5.7	5.5	179	3.20	5.5	1.4	1.5	11	<0.1	0.2	0.1	75	0.09	0.188	4
972069	Soil	1.0	4.6	5.3	40	0.1	3.7	3.3	280	2.02	2.9	0.8	0.5	10	<0.1	0.2	<0.1	50	0.10	0.058	3
972070	Soil	0.9	8.6	4.9	75	<0.1	7.1	6.2	1315	2.60	4.0	0.8	0.7	18	0.2	0.2	0.1	59	0.16	0.069	5
972071	Soil	0.9	8.2	5.8	53	0.1	7.1	6.9	839	2.40	4.5	<0.5	0.7	34	<0.1	0.2	<0.1	58	0.28	0.081	7
972072	Soil	0.8	10.3	5.6	78	<0.1	8.9	7.0	312	2.95	5.5	<0.5	1.4	22	0.1	0.2	<0.1	63	0.17	0.109	8
972073	Soil	0.9	7.5	1.0	33	<0.1	3.9	1.9	606	0.49	1.2	0.8	0.3	244	0.4	<0.1	<0.1	19	1.72	0.105	4
972074	Soil	1.8	11.4	2.0	51	0.1	6.0	8.5	4890	2.88	6.0	1.4	0.3	403	0.6	0.2	<0.1	21	2.54	0.124	15

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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972045	Soil	9	0.13	146	0.030	2	0.81	0.008	0.04	0.1	0.02	2.0	<0.1	0.12	5	<0.5	<0.2
972046	Soil	14	0.17	415	0.008	2	2.01	0.009	0.06	<0.1	0.05	4.3	0.1	0.17	7	<0.5	<0.2
972047	Soil	10	0.13	153	0.025	1	0.88	0.007	0.04	<0.1	0.02	2.3	<0.1	0.13	4	<0.5	<0.2
972048	Soil	9	0.16	97	0.040	1	0.72	0.009	0.03	<0.1	<0.01	2.1	<0.1	0.11	4	<0.5	<0.2
972049	Soil	12	0.20	202	0.020	2	1.07	0.009	0.05	<0.1	0.02	2.7	<0.1	0.14	4	<0.5	<0.2
972050	Soil	12	0.19	182	0.017	2	1.50	0.008	0.05	<0.1	0.02	3.7	<0.1	0.12	5	<0.5	<0.2
972051	Soil	13	0.20	243	0.024	2	1.02	0.009	0.06	<0.1	0.02	3.1	<0.1	0.18	4	<0.5	<0.2
972052	Soil	20	0.44	592	0.016	4	1.80	0.016	0.09	0.1	0.05	8.8	0.1	0.22	6	<0.5	<0.2
972053	Soil	17	0.42	880	0.006	4	2.22	0.010	0.10	<0.1	0.16	11.1	0.1	<0.05	6	<0.5	<0.2
972054	Soil	13	0.21	278	0.028	2	1.13	0.010	0.05	<0.1	0.04	3.2	<0.1	0.22	5	<0.5	<0.2
972055	Soil	10	0.22	191	0.037	2	0.94	0.010	0.04	<0.1	0.01	2.7	<0.1	0.17	4	<0.5	<0.2
972056	Soil	17	0.37	452	0.019	3	1.47	0.010	0.10	<0.1	0.04	7.4	<0.1	<0.05	5	<0.5	<0.2
972057	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972058	Soil	21	0.30	637	0.014	3	1.95	0.009	0.08	<0.1	0.09	7.4	0.1	0.20	6	<0.5	<0.2
972059	Soil	13	0.28	289	0.022	2	1.18	0.014	0.05	<0.1	0.02	5.3	<0.1	0.18	4	<0.5	<0.2
972060	Soil	11	0.14	151	0.018	1	1.87	0.007	0.06	<0.1	0.03	2.7	<0.1	0.13	7	<0.5	<0.2
972061	Soil	10	0.17	128	0.013	1	2.45	0.009	0.06	<0.1	0.03	2.9	<0.1	0.08	8	<0.5	<0.2
972062	Soil	11	0.22	198	0.022	1	1.67	0.009	0.05	<0.1	0.02	3.1	<0.1	0.11	4	<0.5	<0.2
972063	Soil	10	0.17	129	0.020	1	1.83	0.008	0.04	<0.1	0.03	3.3	<0.1	0.09	6	<0.5	<0.2
972064	Soil	6	0.11	89	0.031	1	0.60	0.009	0.03	<0.1	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
972065	Soil	11	0.20	207	0.033	3	0.97	0.012	0.05	<0.1	0.01	5.6	<0.1	<0.05	3	<0.5	<0.2
972066	Soil	12	0.23	218	0.037	2	0.94	0.016	0.04	<0.1	0.01	6.9	<0.1	<0.05	3	<0.5	<0.2
972067	Soil	8	0.11	136	0.025	2	0.79	0.010	0.03	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
972068	Soil	9	0.15	115	0.012	1	1.79	0.009	0.03	0.1	0.03	2.9	<0.1	<0.05	6	<0.5	<0.2
972069	Soil	8	0.07	82	0.023	1	0.58	0.008	0.03	<0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
972070	Soil	12	0.21	194	0.016	2	1.37	0.012	0.05	<0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
972071	Soil	11	0.20	232	0.017	1	1.28	0.011	0.05	<0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
972072	Soil	13	0.24	261	0.011	1	1.86	0.009	0.05	<0.1	0.01	4.5	<0.1	<0.05	6	<0.5	<0.2
972073	Soil	6	0.27	264	0.004	7	0.32	0.015	0.05	<0.1	0.13	1.1	<0.1	0.15	<1	0.5	<0.2
972074	Soil	6	0.35	829	0.005	9	0.66	0.012	0.03	<0.1	0.18	2.5	0.3	0.17	1	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
972075	Soil	0.8	6.6	0.7	31	<0.1	1.7	1.1	230	0.12	<0.5	0.8	<0.1	176	0.2	<0.1	<0.1	4	1.25	0.078	<1
972076	Soil	1.4	13.0	5.9	49	<0.1	11.0	7.4	562	2.52	6.3	0.8	1.2	67	0.2	0.2	<0.1	60	0.54	0.069	9
972077	Soil	1.2	16.5	6.1	61	0.1	13.4	10.5	984	2.91	5.8	<0.5	1.7	91	0.2	0.3	0.1	65	0.63	0.050	19
972078	Soil	0.8	8.0	4.3	67	<0.1	5.2	4.7	394	2.14	4.2	<0.5	0.5	22	<0.1	0.3	0.1	52	0.20	0.058	5
972079	Soil	0.9	16.0	6.0	85	<0.1	8.9	7.2	313	3.09	7.2	<0.5	1.2	19	<0.1	0.3	0.2	70	0.22	0.085	6
972080	Soil	1.0	5.1	5.1	29	<0.1	3.1	2.3	84	2.01	3.0	1.2	0.3	19	0.1	0.1	<0.1	54	0.13	0.022	3
972081	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972082	Soil	1.2	13.4	5.5	53	0.3	8.9	7.1	671	2.20	4.0	<0.5	0.7	48	0.3	0.2	<0.1	54	0.77	0.061	9
972083	Soil	0.8	7.9	3.6	74	<0.1	4.1	4.3	180	2.49	4.6	<0.5	0.7	17	<0.1	0.2	<0.1	61	0.21	0.077	3
972084	Soil	1.2	11.4	5.7	76	<0.1	4.7	7.8	2367	2.04	2.7	0.7	0.1	28	0.3	0.1	<0.1	51	0.25	0.058	5
972085	Soil	1.5	10.5	5.1	34	<0.1	3.3	4.3	137	2.70	4.3	<0.5	0.3	29	<0.1	0.2	<0.1	69	0.20	0.044	3
972086	Soil	0.5	5.3	5.1	25	<0.1	5.6	2.9	106	1.49	1.1	<0.5	0.6	67	<0.1	<0.1	<0.1	42	0.57	0.022	4
972087	Soil	1.0	9.3	5.1	80	<0.1	8.2	6.5	296	2.73	3.9	<0.5	0.8	26	<0.1	0.2	<0.1	66	0.17	0.173	4
972088	Soil	1.3	7.0	5.1	35	<0.1	4.3	3.2	104	2.43	4.2	<0.5	0.2	16	<0.1	0.3	<0.1	61	0.11	0.035	4
972089	Soil	1.1	6.1	5.4	36	<0.1	4.1	3.5	113	2.47	4.3	<0.5	0.4	17	<0.1	0.3	<0.1	65	0.12	0.029	3
972090	Soil	1.2	8.6	6.5	87	0.1	8.7	8.5	1582	2.97	3.4	<0.5	0.4	24	0.2	0.1	<0.1	59	0.24	0.078	7
972091	Soil	1.2	8.4	5.5	54	<0.1	6.3	5.1	254	2.51	5.2	<0.5	0.4	38	0.1	0.3	0.1	63	0.33	0.060	4
972092	Soil	0.8	6.5	4.1	51	<0.1	5.0	4.1	219	2.33	4.4	1.0	0.5	19	<0.1	0.2	<0.1	58	0.17	0.029	6
972093	Soil	0.8	10.0	1.4	15	<0.1	5.6	2.0	376	0.66	1.4	0.9	0.4	636	0.2	0.1	<0.1	23	1.74	0.075	15
972094	Soil	0.9	4.5	1.0	44	<0.1	1.7	3.9	3420	0.72	1.0	<0.5	<0.1	612	<0.1	<0.1	<0.1	5	2.46	0.125	<1
972095	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972096	Soil	2.1	23.3	9.3	97	0.1	12.5	19.2	>10000	2.25	5.3	<0.5	0.1	78	1.1	0.3	0.1	61	1.02	0.094	6
972097	Soil	1.8	9.6	3.6	63	<0.1	2.9	3.8	1261	0.19	1.1	<0.5	<0.1	74	0.3	0.1	<0.1	18	1.41	0.084	1
972098	Soil	1.0	7.9	5.2	42	<0.1	5.2	4.9	153	2.52	4.2	<0.5	0.4	19	<0.1	0.3	<0.1	66	0.12	0.034	4
972099	Soil	1.2	6.8	6.1	43	<0.1	7.0	6.7	544	2.33	3.0	<0.5	0.5	29	0.1	0.2	<0.1	62	0.36	0.024	4
972100	Soil	1.3	6.1	5.3	59	<0.1	6.4	5.2	171	2.85	4.0	1.2	0.7	30	0.2	0.2	0.2	64	0.26	0.044	4
972101	Soil	1.0	15.7	6.0	46	0.2	9.6	6.5	1077	2.11	3.3	<0.5	0.4	350	0.5	0.3	0.2	46	1.89	0.049	10
972102	Soil	0.7	8.4	6.7	41	0.1	8.7	4.8	397	2.01	3.5	1.1	0.6	31	<0.1	0.3	0.1	51	0.25	0.057	9
972103	Soil	0.9	12.5	8.4	77	0.1	11.6	6.5	325	2.70	4.1	1.0	0.2	27	0.2	0.4	0.2	58	0.18	0.056	8
972104	Soil	1.0	25.6	4.7	42	0.5	11.0	7.1	3078	1.59	2.5	1.1	0.2	617	1.5	0.2	0.1	32	2.61	0.113	12

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972075	Soil	4	0.17	159	0.002	9	0.06	0.014	0.02	<0.1	0.10	0.3	<0.1	0.13	<1	<0.5	<0.2
972076	Soil	17	0.29	231	0.022	2	0.99	0.014	0.06	0.1	0.04	5.1	<0.1	<0.05	3	<0.5	<0.2
972077	Soil	20	0.40	398	0.012	2	1.86	0.018	0.06	<0.1	0.06	10.3	<0.1	<0.05	5	<0.5	<0.2
972078	Soil	9	0.15	163	0.025	2	0.78	0.009	0.04	<0.1	0.04	2.1	<0.1	<0.05	3	<0.5	<0.2
972079	Soil	13	0.27	231	0.017	1	1.91	0.009	0.05	<0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
972080	Soil	9	0.05	126	0.033	2	0.42	0.009	0.03	<0.1	0.03	1.1	<0.1	<0.05	3	<0.5	<0.2
972081	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972082	Soil	14	0.18	744	0.005	2	1.33	0.013	0.05	<0.1	0.06	4.0	<0.1	<0.05	4	<0.5	<0.2
972083	Soil	8	0.13	211	0.011	2	0.85	0.009	0.05	<0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
972084	Soil	9	0.05	486	0.015	2	0.71	0.009	0.05	<0.1	0.05	1.1	<0.1	<0.05	3	<0.5	<0.2
972085	Soil	8	0.06	169	0.008	2	0.65	0.009	0.05	<0.1	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
972086	Soil	12	0.22	295	0.019	2	0.90	0.014	0.03	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
972087	Soil	17	0.17	308	0.021	2	1.31	0.012	0.05	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
972088	Soil	10	0.08	128	0.025	2	0.53	0.010	0.05	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
972089	Soil	11	0.09	110	0.032	1	0.60	0.009	0.03	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
972090	Soil	14	0.17	472	0.008	2	1.70	0.011	0.05	<0.1	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
972091	Soil	12	0.15	238	0.022	1	0.86	0.009	0.05	<0.1	0.05	2.0	<0.1	<0.05	4	<0.5	<0.2
972092	Soil	9	0.17	169	0.027	1	0.83	0.011	0.04	0.1	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
972093	Soil	7	0.34	477	0.004	9	0.68	0.019	0.05	<0.1	0.16	3.5	<0.1	0.11	1	<0.5	<0.2
972094	Soil	4	0.48	667	0.002	19	0.10	0.018	0.06	<0.1	0.11	0.4	<0.1	0.20	<1	<0.5	<0.2
972095	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972096	Soil	14	0.09	884	0.015	4	0.96	0.011	0.07	<0.1	0.13	1.2	0.4	<0.05	4	<0.5	<0.2
972097	Soil	4	0.07	435	0.005	8	0.13	0.007	0.05	<0.1	0.22	0.7	<0.1	0.10	<1	<0.5	<0.2
972098	Soil	11	0.11	222	0.021	1	0.72	0.011	0.04	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
972099	Soil	14	0.14	283	0.034	2	0.71	0.010	0.06	<0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
972100	Soil	12	0.14	245	0.022	3	0.90	0.009	0.05	0.1	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
972101	Soil	13	0.47	769	0.015	5	1.03	0.019	0.05	0.1	0.06	3.6	<0.1	0.05	3	<0.5	<0.2
972102	Soil	14	0.22	198	0.039	2	1.01	0.011	0.04	0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
972103	Soil	17	0.28	267	0.022	2	1.44	0.010	0.06	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
972104	Soil	10	0.32	381	0.008	6	1.33	0.013	0.04	<0.1	0.18	1.5	<0.1	0.12	3	1.3	<0.2

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 Phone (604) 253-3158 Fax (604) 253-1716

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.001	0.001	1
972105	Soil	0.8	14.1	5.0	60	<0.1	5.0	3.7	241	2.07	3.7	<0.5	0.4	22	0.4	0.3	<0.1	52	0.14	0.035	9
972106	Soil	0.7	14.7	2.9	24	0.3	9.3	3.4	558	0.95	1.5	0.5	0.2	276	0.5	0.2	0.2	21	1.62	0.088	8
972107	Soil	0.8	9.6	5.4	39	<0.1	7.1	4.5	185	2.56	6.5	<0.5	1.0	12	<0.1	0.3	<0.1	57	0.13	0.075	4
972108	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972109	Soil	0.8	17.2	2.8	32	0.2	9.7	4.4	830	1.15	2.3	1.0	0.4	339	0.5	0.2	0.1	20	2.73	0.096	9
972110	Soil	0.6	11.2	6.8	80	<0.1	10.8	7.8	559	2.84	6.0	0.8	1.1	60	0.1	0.1	<0.1	62	0.55	0.140	8
972111	Soil	0.6	11.1	7.5	82	<0.1	9.7	10.6	843	2.78	10.2	<0.5	1.1	57	0.3	0.2	<0.1	62	0.44	0.102	6
972112	Soil	0.8	15.0	6.5	92	0.2	13.0	7.3	801	2.40	11.4	<0.5	0.5	102	0.6	0.2	<0.1	54	0.72	0.071	11
972113	Soil	0.8	19.6	6.8	107	0.4	16.2	8.5	656	2.20	6.2	<0.5	0.3	123	0.6	0.1	<0.1	48	0.76	0.056	13
972114	Soil	0.8	8.7	4.1	104	0.1	8.0	4.6	213	2.08	1.9	<0.5	1.8	80	0.1	<0.1	<0.1	39	0.31	0.117	14
972115	Soil	0.7	11.0	6.1	80	<0.1	10.1	7.6	614	2.42	4.9	<0.5	0.8	52	0.2	0.1	<0.1	54	0.23	0.105	10
972116	Soil	0.6	9.7	8.0	52	<0.1	8.4	6.4	622	1.99	3.4	<0.5	3.4	255	0.1	0.1	0.1	41	0.91	0.053	19
972117	Soil	0.7	19.1	10.9	98	0.2	11.1	7.8	1421	2.25	5.3	<0.5	1.5	191	0.6	0.2	0.1	44	1.19	0.064	19
972118	Soil	0.5	10.3	6.3	62	<0.1	10.1	7.2	356	2.60	10.7	<0.5	1.9	108	<0.1	0.2	<0.1	58	0.38	0.027	12
972119	Soil	0.6	10.1	7.5	117	<0.1	12.6	7.5	450	2.93	5.9	<0.5	1.0	55	0.2	0.2	<0.1	68	0.43	0.084	7
972120	Soil	0.5	8.3	6.1	72	<0.1	9.1	6.1	239	2.17	2.6	<0.5	1.8	95	0.2	0.1	<0.1	50	0.34	0.056	10
972121	Soil	0.9	8.6	8.8	188	<0.1	7.3	5.9	265	2.58	8.5	<0.5	0.8	47	1.1	0.1	<0.1	60	0.32	0.080	5
972122	Soil	0.6	8.3	8.7	86	<0.1	7.9	4.9	264	2.39	3.3	0.6	1.0	33	0.7	0.2	<0.1	56	0.20	0.120	5
972123	Soil	0.7	7.3	7.8	80	<0.1	7.6	6.8	535	2.19	3.1	2.0	1.0	72	0.2	0.1	<0.1	53	0.34	0.066	7
972124	Soil	0.7	8.2	9.7	94	<0.1	6.9	4.6	234	2.47	2.3	<0.5	0.9	34	0.3	0.1	<0.1	56	0.18	0.160	6
972125	Soil	0.8	10.6	7.5	95	<0.1	13.7	7.4	370	2.73	2.8	<0.5	1.4	46	0.1	0.1	<0.1	60	0.19	0.254	8
972126	Soil	0.6	9.5	6.6	70	0.1	9.3	5.0	358	1.79	1.7	<0.5	1.3	106	0.3	0.1	<0.1	48	0.82	0.049	30
972127	Soil	0.7	8.8	4.9	117	<0.1	10.4	6.3	470	2.10	0.9	<0.5	1.0	42	0.3	0.1	<0.1	54	0.23	0.084	9
972128	Soil	0.6	8.3	5.7	119	<0.1	12.9	6.7	281	2.47	1.7	<0.5	2.0	57	0.3	0.1	<0.1	56	0.25	0.264	9
972129	Soil	0.8	8.3	6.2	105	<0.1	11.2	5.8	220	2.75	2.7	<0.5	1.4	28	0.1	0.1	<0.1	60	0.14	0.189	8
972130	Soil	1.0	6.3	4.7	59	<0.1	7.9	4.2	265	1.83	0.8	<0.5	0.3	19	0.2	<0.1	<0.1	52	0.10	0.036	7
972131	Soil	1.0	11.3	6.8	77	<0.1	12.1	6.7	250	2.42	2.1	0.6	1.0	42	0.2	0.1	<0.1	62	0.22	0.079	7
972132	Soil	0.5	13.7	6.2	58	<0.1	12.3	7.4	232	2.74	6.3	<0.5	1.5	42	<0.1	0.2	<0.1	65	0.21	0.073	9
972133	Soil	0.6	7.2	5.9	49	<0.1	6.4	4.2	156	1.98	0.9	<0.5	0.5	18	0.2	<0.1	0.1	58	0.10	0.028	5
972134	Soil	1.2	8.8	6.1	58	<0.1	9.9	5.7	296	2.35	1.1	0.6	0.8	23	0.2	0.3	0.1	76	0.07	0.019	5

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 15, 2012

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972105	Soil	10	0.09	332	0.031	1	0.65	0.010	0.04	0.1	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
972106	Soil	11	0.23	446	0.008	5	1.02	0.009	0.06	<0.1	0.12	2.9	<0.1	0.07	2	<0.5	<0.2
972107	Soil	11	0.21	95	0.032	2	1.08	0.009	0.03	0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
972108	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972109	Soil	11	0.37	348	0.007	9	1.10	0.019	0.06	<0.1	0.08	3.4	<0.1	0.13	3	<0.5	<0.2
972110	Soil	16	0.31	243	0.016	3	1.74	0.009	0.09	<0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
972111	Soil	14	0.24	292	0.033	3	0.99	0.011	0.11	<0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
972112	Soil	14	0.29	266	0.025	4	1.10	0.013	0.07	<0.1	0.06	3.7	<0.1	<0.05	3	<0.5	<0.2
972113	Soil	16	0.30	325	0.021	4	1.28	0.013	0.09	<0.1	0.09	3.2	<0.1	<0.05	4	<0.5	<0.2
972114	Soil	9	0.31	358	0.064	2	1.61	0.012	0.11	<0.1	0.04	3.4	<0.1	<0.05	5	<0.5	<0.2
972115	Soil	14	0.22	278	0.041	3	1.18	0.011	0.09	<0.1	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
972116	Soil	10	0.46	630	0.047	2	1.72	0.021	0.12	<0.1	0.02	4.2	0.1	<0.05	5	<0.5	<0.2
972117	Soil	13	0.38	500	0.026	3	1.97	0.015	0.10	<0.1	0.04	5.4	0.2	<0.05	6	<0.5	<0.2
972118	Soil	16	0.33	406	0.060	2	1.70	0.017	0.09	<0.1	0.04	5.9	<0.1	<0.05	5	<0.5	<0.2
972119	Soil	18	0.32	308	0.047	1	2.27	0.010	0.07	<0.1	0.03	3.3	<0.1	<0.05	7	<0.5	<0.2
972120	Soil	13	0.33	356	0.068	1	1.80	0.016	0.08	<0.1	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
972121	Soil	14	0.17	235	0.032	2	1.29	0.011	0.06	<0.1	0.03	2.9	<0.1	<0.05	6	<0.5	<0.2
972122	Soil	14	0.19	190	0.046	1	1.57	0.008	0.05	<0.1	0.04	2.8	<0.1	<0.05	7	<0.5	<0.2
972123	Soil	12	0.22	306	0.053	1	1.33	0.012	0.07	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
972124	Soil	14	0.16	214	0.047	1	1.70	0.010	0.05	<0.1	0.04	2.3	<0.1	<0.05	8	<0.5	<0.2
972125	Soil	18	0.29	301	0.075	2	2.60	0.011	0.07	<0.1	0.07	3.1	<0.1	<0.05	9	<0.5	<0.2
972126	Soil	15	0.25	288	0.087	2	1.23	0.015	0.06	0.1	0.06	3.4	<0.1	<0.05	5	<0.5	<0.2
972127	Soil	17	0.21	219	0.076	1	1.22	0.010	0.06	<0.1	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
972128	Soil	17	0.27	314	0.076	2	1.94	0.012	0.07	<0.1	0.03	3.4	<0.1	<0.05	8	<0.5	<0.2
972129	Soil	15	0.28	188	0.050	2	2.09	0.010	0.06	0.1	0.04	3.3	<0.1	<0.05	9	<0.5	<0.2
972130	Soil	14	0.11	102	0.069	<1	0.63	0.009	0.04	<0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
972131	Soil	19	0.21	192	0.083	1	1.27	0.010	0.08	<0.1	0.04	2.5	0.1	<0.05	7	<0.5	<0.2
972132	Soil	17	0.29	203	0.037	2	1.79	0.011	0.05	<0.1	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
972133	Soil	15	0.09	94	0.085	1	0.54	0.010	0.04	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
972134	Soil	23	0.10	145	0.109	<1	0.51	0.011	0.03	<0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972135	Soil	0.6	8.0	7.3	54	<0.1	7.1	3.8	130	2.08	1.5	1.0	0.7	28	<0.1	0.2	<0.1	55	0.10	0.028	6
972136	Soil	0.6	28.8	6.5	102	0.4	19.5	8.0	1035	2.51	5.2	<0.5	0.7	231	0.4	0.2	<0.1	46	1.30	0.109	51
972137	Soil	0.7	8.2	9.5	71	<0.1	6.8	4.9	250	2.60	3.1	4.0	1.1	19	0.1	0.1	0.2	63	0.11	0.094	5
972138	Soil	0.6	4.3	5.5	46	<0.1	3.9	2.8	104	2.04	3.3	0.9	0.5	21	<0.1	0.1	0.1	47	0.15	0.039	4
972139	Soil	0.8	8.7	8.3	149	<0.1	9.2	7.3	171	3.43	25.4	0.6	1.5	19	0.1	0.2	0.1	64	0.14	0.221	5
972140	Soil	0.5	16.4	6.9	55	0.1	7.8	3.7	214	1.68	2.5	<0.5	0.2	184	0.3	<0.1	<0.1	39	0.94	0.034	10
972141	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972142	Soil	0.8	6.1	8.3	72	<0.1	5.4	4.4	402	3.05	5.8	2.8	1.1	13	0.2	0.2	0.1	59	0.08	0.339	4
972143	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972144	Soil	0.6	13.3	6.8	73	0.1	9.7	8.9	598	2.39	5.2	<0.5	1.2	52	0.1	0.1	<0.1	50	0.33	0.077	13
972145	Soil	1.5	9.4	6.1	143	<0.1	10.1	7.2	207	3.15	38.8	<0.5	1.2	45	0.2	0.2	<0.1	65	0.24	0.090	5
972146	Soil	0.9	7.9	6.4	75	<0.1	7.4	6.3	361	2.91	8.4	<0.5	0.6	38	0.1	0.2	<0.1	60	0.34	0.124	4
972147	Soil	0.7	7.9	5.1	81	0.1	7.1	6.6	447	2.65	9.8	<0.5	0.9	31	0.2	0.2	<0.1	56	0.33	0.171	4
972148	Soil	2.0	19.4	5.3	99	0.3	11.7	16.9	>10000	4.26	20.4	<0.5	1.2	444	0.4	0.3	<0.1	52	2.05	0.119	10
972149	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972150	Soil	0.7	12.6	7.1	94	0.2	15.3	8.4	256	2.64	3.3	<0.5	1.4	84	0.2	0.2	<0.1	62	0.28	0.115	10
972151	Soil	0.9	5.9	6.4	69	<0.1	5.1	3.5	273	2.54	6.8	<0.5	0.6	23	0.1	0.2	<0.1	51	0.23	0.182	3
972152	Soil	0.7	5.9	6.1	65	<0.1	4.4	3.8	160	2.32	5.7	<0.5	0.7	17	0.1	0.1	<0.1	49	0.14	0.107	3
972153	Soil	0.8	6.9	4.1	60	<0.1	5.4	5.0	223	2.53	6.2	<0.5	1.1	17	<0.1	0.2	<0.1	57	0.19	0.055	4
972154	Soil	0.8	4.5	5.7	87	<0.1	7.4	5.6	221	2.65	5.4	<0.5	1.3	14	<0.1	0.2	<0.1	53	0.12	0.178	5
972155	Soil	0.8	4.2	5.3	81	<0.1	4.0	4.6	270	2.60	4.1	<0.5	1.2	10	0.1	0.2	<0.1	55	0.09	0.099	4
972156	Soil	0.7	5.7	4.7	57	<0.1	5.1	3.6	194	1.99	3.7	<0.5	0.6	31	<0.1	0.2	<0.1	46	0.22	0.034	6
972157	Soil	0.6	11.9	6.0	54	<0.1	8.6	6.9	572	2.74	9.8	0.7	2.0	41	<0.1	0.2	<0.1	58	0.44	0.090	11
972158	Soil	0.7	6.1	4.9	56	<0.1	4.9	5.0	211	2.16	4.9	<0.5	0.6	29	0.1	0.2	<0.1	48	0.23	0.058	6
972159	Soil	1.1	16.5	5.9	80	0.2	12.9	6.9	618	2.42	6.5	<0.5	1.1	161	0.6	0.3	<0.1	52	1.21	0.062	30
972160	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972161	Soil	0.7	8.6	10.0	75	0.1	8.3	4.7	181	2.89	6.1	<0.5	1.2	18	<0.1	0.4	0.1	56	0.10	0.263	6
972162	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972163	Soil	0.6	7.7	5.8	63	<0.1	7.5	5.7	1046	2.27	5.4	<0.5	0.9	86	<0.1	0.2	<0.1	51	0.56	0.059	10
972164	Soil	0.9	12.7	7.5	93	<0.1	13.6	8.9	226	3.30	8.5	<0.5	1.5	16	0.1	0.6	0.1	68	0.09	0.210	6

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972135	Soil	15	0.10	157	0.069	1	0.88	0.010	0.03	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
972136	Soil	19	0.46	644	0.013	3	3.17	0.014	0.09	<0.1	0.09	7.3	0.1	<0.05	8	<0.5	<0.2
972137	Soil	15	0.12	154	0.043	<1	1.27	0.008	0.06	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
972138	Soil	8	0.10	108	0.029	1	0.89	0.009	0.03	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
972139	Soil	13	0.18	172	0.012	1	3.29	0.009	0.05	<0.1	0.04	3.8	0.2	<0.05	8	<0.5	<0.2
972140	Soil	13	0.14	335	0.041	2	0.91	0.013	0.05	<0.1	0.05	2.4	<0.1	<0.05	4	<0.5	<0.2
972141	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972142	Soil	13	0.10	101	0.023	2	1.78	0.008	0.04	<0.1	0.05	2.4	<0.1	<0.05	7	<0.5	<0.2
972143	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972144	Soil	15	0.28	291	0.018	1	1.90	0.012	0.05	<0.1	0.03	4.6	0.2	<0.05	6	<0.5	<0.2
972145	Soil	15	0.23	166	0.032	1	2.19	0.009	0.06	0.1	0.05	3.4	3.2	<0.05	7	<0.5	<0.2
972146	Soil	12	0.18	184	0.025	2	1.82	0.008	0.07	<0.1	0.04	2.7	0.1	<0.05	7	<0.5	<0.2
972147	Soil	10	0.18	232	0.030	2	1.13	0.010	0.06	0.1	0.05	2.9	<0.1	<0.05	4	<0.5	<0.2
972148	Soil	15	0.38	1001	0.014	8	1.99	0.028	0.11	<0.1	0.12	9.5	0.2	<0.05	6	0.6	<0.2
972149	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972150	Soil	21	0.36	342	0.074	1	1.89	0.013	0.07	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
972151	Soil	10	0.12	142	0.030	2	0.99	0.009	0.04	0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
972152	Soil	9	0.10	137	0.022	2	1.00	0.008	0.04	<0.1	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
972153	Soil	8	0.16	143	0.032	2	1.10	0.008	0.07	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
972154	Soil	11	0.14	152	0.042	1	1.69	0.010	0.06	0.1	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
972155	Soil	8	0.10	132	0.036	1	0.98	0.008	0.05	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
972156	Soil	9	0.15	180	0.031	<1	0.82	0.011	0.04	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
972157	Soil	12	0.27	268	0.031	1	1.09	0.013	0.06	0.1	0.02	6.3	<0.1	<0.05	4	<0.5	<0.2
972158	Soil	8	0.16	167	0.029	1	0.82	0.012	0.04	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
972159	Soil	17	0.40	582	0.014	3	2.27	0.014	0.07	0.1	0.07	7.4	0.2	<0.05	6	<0.5	<0.2
972160	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972161	Soil	16	0.16	149	0.032	<1	2.03	0.009	0.05	0.1	0.04	2.2	<0.1	<0.05	8	<0.5	<0.2
972162	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972163	Soil	12	0.25	304	0.029	2	1.22	0.014	0.04	<0.1	0.02	3.4	0.1	<0.05	4	<0.5	<0.2
972164	Soil	22	0.23	193	0.019	1	2.50	0.010	0.05	<0.1	0.05	3.3	<0.1	<0.05	7	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
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 Vancouver BC V6E 4H1 Canada

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Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
972165	Soil	1.2	10.1	6.4	54	<0.1	9.0	4.7	120	2.72	6.7	<0.5	0.8	17	<0.1	0.5	0.1	62	0.07	0.127	5
972166	Soil	0.9	12.1	6.6	76	<0.1	11.4	7.1	148	2.86	7.0	0.5	0.9	72	<0.1	0.6	<0.1	63	0.25	0.051	6
972167	Soil	0.8	12.7	6.5	82	<0.1	10.7	5.8	141	2.59	4.8	<0.5	0.9	60	<0.1	0.4	0.1	65	0.20	0.048	6
972168	Soil	1.1	22.3	8.0	72	<0.1	21.2	11.3	294	3.74	14.7	0.5	1.8	18	<0.1	1.4	0.2	77	0.16	0.162	8
972169	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972170	Soil	0.8	11.9	7.9	86	0.1	12.5	5.6	150	2.81	6.1	<0.5	1.1	50	0.2	0.3	0.1	59	0.22	0.123	6
972171	Soil	1.2	11.1	7.9	59	0.1	10.6	4.8	165	2.45	9.0	<0.5	1.4	17	<0.1	1.2	0.2	57	0.09	0.123	8
972172	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972173	Soil	1.1	11.3	5.7	68	<0.1	11.3	4.7	110	2.08	6.4	<0.5	0.9	38	0.1	1.3	0.2	55	0.17	0.045	9
972174	Soil	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
972175	Soil	0.9	16.7	7.4	132	0.3	15.2	7.8	486	2.90	7.9	<0.5	1.1	129	0.3	0.6	0.2	57	0.87	0.077	13
972176	Soil	0.8	8.8	6.1	61	<0.1	8.6	5.8	200	2.79	8.4	<0.5	1.6	22	<0.1	0.3	0.1	60	0.16	0.087	7
972177	Soil	0.8	4.8	6.4	52	<0.1	4.6	3.3	251	2.85	3.0	<0.5	1.2	6	<0.1	0.3	0.1	51	0.04	0.070	7
972178	Soil	0.7	14.1	6.7	77	0.1	12.8	7.4	490	2.38	3.5	<0.5	1.0	82	0.2	0.4	0.2	57	0.46	0.034	11
972179	Soil	0.9	18.8	8.2	96	0.1	10.6	8.8	411	2.52	4.7	1.0	0.8	71	0.3	0.4	0.2	55	0.30	0.061	8
972180	Soil	1.1	11.1	8.0	76	<0.1	7.6	5.1	307	2.41	5.3	0.8	0.2	24	0.2	0.3	0.3	52	0.13	0.053	7
972181	Soil	0.8	13.0	7.9	65	<0.1	9.1	6.3	308	2.56	6.0	0.9	1.2	36	0.1	0.3	0.2	60	0.23	0.047	10
972182	Soil	1.3	10.4	8.7	57	<0.1	5.7	4.6	154	2.44	10.2	1.1	0.6	20	<0.1	0.3	0.4	56	0.09	0.046	5
972183	Soil	1.8	11.2	8.8	59	0.1	7.8	4.7	180	2.48	11.0	1.3	0.7	19	0.1	0.3	0.4	56	0.11	0.057	5
972184	Soil	1.6	10.7	7.9	44	0.1	7.4	3.1	82	1.39	6.2	1.2	0.3	38	0.3	0.2	0.3	36	0.30	0.035	4
972185	Soil	0.6	5.4	6.2	38	<0.1	4.6	2.9	102	1.67	2.8	<0.5	0.5	19	<0.1	0.2	0.1	46	0.10	0.026	4
972186	Soil	0.7	10.8	9.7	66	<0.1	10.2	6.0	189	2.87	8.7	<0.5	1.5	14	<0.1	0.4	0.1	62	0.08	0.140	6
972187	Soil	0.8	9.2	7.9	57	0.1	5.8	3.6	149	2.24	3.7	0.5	1.1	12	0.1	0.3	0.1	52	0.06	0.109	6
972188	Soil	0.6	5.7	6.4	37	<0.1	7.1	3.7	72	1.63	2.9	<0.5	0.4	154	0.2	0.2	0.1	38	0.92	0.038	8
972189	Soil	0.9	5.9	6.2	59	<0.1	6.4	5.2	156	2.09	4.6	<0.5	0.7	47	<0.1	0.2	0.1	58	0.29	0.020	4
972190	Soil	1.0	25.8	7.2	85	0.2	16.5	8.5	887	2.63	5.8	0.6	0.7	69	0.4	0.3	0.1	56	0.61	0.056	24
972191	Soil	0.8	8.2	5.7	75	<0.1	6.5	4.3	217	2.33	5.2	<0.5	0.4	21	0.1	0.2	0.1	56	0.16	0.058	5
972192	Soil	0.9	14.9	7.4	121	0.2	10.8	9.8	687	3.27	8.2	<0.5	1.5	17	0.2	0.3	0.1	68	0.18	0.108	6
972193	Soil	0.7	9.2	6.6	69	<0.1	5.8	5.6	503	2.39	4.7	<0.5	0.8	22	0.1	0.2	0.1	51	0.24	0.071	9
972194	Soil	0.8	9.9	5.8	65	<0.1	9.4	6.1	242	2.75	8.1	<0.5	1.4	24	<0.1	0.3	0.1	63	0.20	0.095	7

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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972165	Soil	20	0.14	139	0.017	1	1.58	0.009	0.05	<0.1	0.04	2.4	<0.1	<0.05	7	<0.5	<0.2
972166	Soil	16	0.28	230	0.019	1	1.95	0.012	0.04	<0.1	0.03	2.9	<0.1	<0.05	7	<0.5	<0.2
972167	Soil	21	0.21	272	0.026	2	1.28	0.010	0.05	<0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
972168	Soil	27	0.56	160	0.019	2	2.28	0.009	0.05	<0.1	0.08	4.0	<0.1	<0.05	6	<0.5	<0.2
972169	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972170	Soil	20	0.24	301	0.022	1	2.18	0.009	0.07	<0.1	0.05	3.3	<0.1	<0.05	9	<0.5	<0.2
972171	Soil	21	0.15	128	0.020	1	1.22	0.008	0.05	0.1	0.09	1.9	<0.1	<0.05	6	<0.5	<0.2
972172	Soil	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
972173	Soil	20	0.20	152	0.016	1	0.85	0.008	0.05	0.1	0.07	1.6	<0.1	<0.05	5	<0.5	<0.2
972174	Soil	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
972175	Soil	20	0.43	588	0.009	2	2.12	0.014	0.08	<0.1	0.10	5.2	0.1	<0.05	6	<0.5	<0.2
972176	Soil	13	0.28	193	0.026	2	1.63	0.011	0.05	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
972177	Soil	12	0.10	84	0.015	1	1.27	0.010	0.04	<0.1	0.02	1.5	<0.1	<0.05	8	<0.5	<0.2
972178	Soil	21	0.38	482	0.027	2	1.53	0.015	0.05	<0.1	0.03	3.6	0.1	<0.05	5	<0.5	<0.2
972179	Soil	17	0.26	270	0.016	3	1.37	0.011	0.04	<0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
972180	Soil	13	0.13	175	0.015	2	0.97	0.011	0.04	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
972181	Soil	15	0.20	240	0.029	2	1.29	0.012	0.05	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
972182	Soil	10	0.12	133	0.020	2	0.89	0.011	0.03	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
972183	Soil	14	0.12	123	0.013	1	1.06	0.009	0.07	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
972184	Soil	13	0.11	168	0.012	3	0.97	0.010	0.04	<0.1	0.05	1.6	0.1	<0.05	5	<0.5	<0.2
972185	Soil	10	0.11	112	0.034	1	0.72	0.010	0.03	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
972186	Soil	18	0.16	133	0.026	<1	1.76	0.009	0.04	<0.1	0.07	2.5	<0.1	<0.05	7	<0.5	<0.2
972187	Soil	14	0.11	124	0.027	1	1.51	0.010	0.03	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
972188	Soil	11	0.23	287	0.015	2	1.04	0.013	0.02	<0.1	0.05	1.4	<0.1	0.07	4	<0.5	<0.2
972189	Soil	12	0.18	167	0.026	1	0.86	0.013	0.03	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
972190	Soil	20	0.33	588	0.018	2	1.62	0.012	0.07	<0.1	0.05	5.6	<0.1	<0.05	5	<0.5	<0.2
972191	Soil	11	0.17	179	0.026	1	1.08	0.011	0.04	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
972192	Soil	14	0.23	231	0.013	1	2.55	0.009	0.07	0.1	0.05	3.8	0.1	<0.05	7	<0.5	<0.2
972193	Soil	10	0.17	345	0.018	1	1.45	0.010	0.04	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
972194	Soil	13	0.23	192	0.030	2	1.39	0.010	0.05	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		
972195	Soil	0.9	7.6	5.3	41	<0.1	5.1	4.0	155	2.24	5.6	<0.5	0.7	29	<0.1	0.3	<0.1	58	0.26	0.020	4
972196	Soil	0.8	10.4	7.0	47	<0.1	7.9	5.4	234	2.28	4.8	<0.5	0.6	44	0.1	0.2	<0.1	57	0.22	0.042	7
972197	Soil	1.0	24.2	10.4	95	0.1	18.1	15.5	1117	3.50	6.2	1.0	2.1	97	0.2	0.3	0.2	71	0.59	0.059	18
972198	Soil	0.9	28.2	8.2	67	0.3	18.6	9.3	900	3.08	6.0	0.7	1.8	250	0.4	0.2	0.1	59	1.35	0.066	44
972199	Soil	1.8	26.2	8.3	66	0.3	20.3	10.1	1051	2.78	6.6	<0.5	1.3	183	0.5	0.3	0.2	64	1.53	0.098	22
972200	Soil	0.8	6.2	6.4	37	<0.1	3.1	2.5	95	1.92	3.7	<0.5	0.5	15	0.1	0.2	0.1	49	0.11	0.039	4
972201	Soil	0.8	7.5	1.5	20	<0.1	2.6	0.6	556	0.10	0.6	<0.5	<0.1	312	0.3	0.1	<0.1	4	2.79	0.074	<1
972202	Soil	2.4	13.8	1.7	113	<0.1	8.0	5.9	>10000	0.40	0.9	<0.5	0.2	364	0.4	0.3	<0.1	5	3.05	0.122	2
972203	Soil	0.8	17.6	6.9	63	0.2	8.2	7.2	686	3.24	7.5	<0.5	1.4	121	0.2	0.2	<0.1	47	0.92	0.113	14
972204	Soil	0.6	12.0	5.5	39	<0.1	9.0	5.4	254	2.54	5.7	19.5	2.0	98	<0.1	0.2	<0.1	54	0.64	0.083	14
972205	Soil	1.0	11.7	6.2	55	<0.1	11.0	8.2	607	2.75	6.7	0.5	1.3	67	0.1	0.2	<0.1	60	0.48	0.062	9
972206	Soil	0.8	8.3	7.2	79	<0.1	6.6	5.5	265	2.63	3.8	<0.5	0.4	74	0.1	0.2	0.1	66	0.49	0.050	4
972207	Soil	0.6	5.9	5.4	43	<0.1	5.0	3.8	152	1.78	3.1	<0.5	0.3	44	<0.1	0.2	<0.1	44	0.30	0.031	8
972208	Soil	0.8	7.7	5.4	49	<0.1	7.0	5.6	270	2.44	5.9	<0.5	0.4	38	<0.1	0.2	<0.1	65	0.35	0.041	6
972209	Soil	0.9	11.2	6.0	65	<0.1	10.9	8.3	261	2.94	7.0	<0.5	1.5	28	0.1	0.3	0.1	67	0.18	0.099	6
972210	Soil	0.7	9.6	5.8	53	<0.1	8.6	5.8	272	2.30	6.2	0.7	1.1	41	<0.1	0.2	0.2	59	0.30	0.083	8
972211	Soil	0.7	7.4	5.4	56	<0.1	5.8	4.9	614	2.37	3.2	0.6	0.9	23	<0.1	0.2	0.1	58	0.17	0.052	5
972212	Soil	0.6	8.2	5.1	48	<0.1	7.6	5.6	415	2.16	3.0	<0.5	0.9	27	<0.1	0.2	<0.1	48	0.18	0.041	6
972213	Soil	0.6	8.7	6.8	52	<0.1	8.8	4.6	164	2.12	2.9	<0.5	0.9	28	<0.1	0.2	<0.1	52	0.15	0.051	6
972214	Soil	0.5	8.0	7.8	57	<0.1	7.6	4.0	183	2.03	2.0	0.9	1.1	30	<0.1	0.1	0.1	51	0.14	0.092	4
972215	Soil	0.9	11.0	7.1	55	<0.1	9.5	7.7	388	2.80	5.7	2.7	1.6	24	<0.1	0.4	0.2	63	0.21	0.079	6
972216	Soil	0.6	11.3	7.9	68	<0.1	9.5	5.2	180	2.50	2.7	2.2	1.4	36	<0.1	0.2	0.1	57	0.17	0.116	6
972217	Soil	0.7	8.1	6.1	49	<0.1	7.0	4.6	197	2.16	2.8	0.8	1.0	77	0.1	0.2	<0.1	59	0.32	0.024	5
972218	Soil	0.8	9.2	5.7	77	<0.1	7.2	5.7	157	2.54	2.4	1.3	0.8	56	0.1	0.2	0.1	60	0.21	0.030	6
972219	Soil	0.7	10.3	7.0	49	<0.1	9.0	6.8	309	2.86	5.9	2.5	1.1	21	<0.1	0.4	<0.1	65	0.18	0.067	5
972220	Soil	0.7	10.2	8.2	68	<0.1	11.3	7.5	576	2.67	2.1	0.5	1.2	48	0.1	0.1	<0.1	67	0.20	0.068	7
972221	Soil	0.6	10.6	7.2	48	<0.1	10.7	6.9	335	2.40	3.7	0.8	1.8	80	<0.1	0.2	<0.1	63	0.33	0.053	10
972222	Soil	0.9	10.4	6.5	59	<0.1	9.4	6.5	204	2.90	6.2	<0.5	1.0	19	<0.1	0.3	<0.1	66	0.14	0.050	5
972223	Soil	0.7	16.1	8.9	83	<0.1	14.6	10.0	321	3.08	5.1	0.7	2.2	58	0.1	0.2	<0.1	73	0.28	0.117	9
972224	Soil	0.9	11.8	8.7	169	<0.1	8.6	10.0	1615	3.22	4.8	<0.5	1.4	23	0.3	0.2	0.1	66	0.24	0.301	6

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 15, 2012

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972195	Soil			10	0.14	157	0.032	1	0.70	0.012	0.04	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
972196	Soil			14	0.19	191	0.034	1	1.08	0.011	0.05	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
972197	Soil			23	0.51	540	0.010	1	3.06	0.014	0.10	<0.1	0.03	6.4	0.1	<0.05	9	<0.5	<0.2
972198	Soil			20	0.49	652	0.008	2	2.67	0.016	0.10	<0.1	0.07	10.4	0.1	0.05	6	<0.5	<0.2
972199	Soil			25	0.41	581	0.009	2	2.31	0.014	0.10	<0.1	0.07	7.1	0.1	0.11	6	0.6	<0.2
972200	Soil			8	0.07	118	0.026	1	0.66	0.009	0.04	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
972201	Soil			4	0.22	170	0.001	10	0.06	0.010	0.04	<0.1	0.14	0.3	<0.1	0.26	<1	<0.5	<0.2
972202	Soil			5	0.18	482	0.004	13	0.27	0.019	0.03	<0.1	0.22	0.9	0.2	0.44	<1	0.6	<0.2
972203	Soil			10	0.24	163	0.005	2	1.14	0.017	0.08	<0.1	0.07	8.0	<0.1	<0.05	3	<0.5	<0.2
972204	Soil			14	0.26	109	0.031	3	1.08	0.023	0.06	<0.1	0.04	8.0	<0.1	<0.05	3	<0.5	<0.2
972205	Soil			15	0.25	178	0.026	2	1.11	0.015	0.06	<0.1	0.03	4.6	<0.1	<0.05	3	<0.5	<0.2
972206	Soil			13	0.13	82	0.020	4	1.02	0.010	0.05	<0.1	0.04	1.8	<0.1	<0.05	5	<0.5	<0.2
972207	Soil			9	0.15	122	0.026	<1	0.93	0.014	0.03	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
972208	Soil			13	0.20	225	0.036	1	0.84	0.012	0.05	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
972209	Soil			15	0.22	222	0.036	1	1.68	0.011	0.05	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
972210	Soil			11	0.24	310	0.029	1	1.35	0.013	0.07	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
972211	Soil			11	0.14	190	0.031	1	0.99	0.011	0.04	<0.1	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
972212	Soil			12	0.25	179	0.024	2	1.43	0.012	0.03	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
972213	Soil			15	0.21	174	0.052	1	1.17	0.011	0.05	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
972214	Soil			16	0.14	178	0.071	1	0.91	0.011	0.05	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2
972215	Soil			14	0.28	155	0.041	2	1.39	0.015	0.04	0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
972216	Soil			16	0.22	216	0.057	2	1.63	0.013	0.05	<0.1	0.04	3.3	<0.1	<0.05	7	<0.5	<0.2
972217	Soil			14	0.24	225	0.061	1	0.95	0.016	0.05	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
972218	Soil			13	0.21	177	0.042	2	1.01	0.013	0.04	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
972219	Soil			14	0.28	115	0.049	2	1.19	0.013	0.04	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
972220	Soil			19	0.23	255	0.080	1	1.67	0.013	0.06	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
972221	Soil			18	0.32	317	0.092	2	1.27	0.022	0.06	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
972222	Soil			16	0.28	138	0.030	2	1.69	0.012	0.05	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
972223	Soil			21	0.39	262	0.073	2	2.63	0.018	0.10	<0.1	0.01	4.3	<0.1	<0.05	7	<0.5	<0.2
972224	Soil			15	0.21	277	0.027	2	2.02	0.010	0.12	<0.1	0.04	3.5	<0.1	<0.05	8	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
972225	Soil	1.1	23.1	8.2	70	<0.1	15.1	11.1	903	3.50	10.2	3.6	2.8	56	<0.1	0.5	0.1	70	0.55	0.084	11	
972226	Soil	0.7	12.9	7.5	71	<0.1	10.9	8.0	495	2.75	4.3	1.2	1.6	109	0.1	0.2	0.1	64	0.37	0.078	12	
972227	Soil	0.8	9.2	6.5	45	<0.1	8.0	6.9	321	2.52	5.2	1.6	1.7	50	<0.1	0.3	<0.1	62	0.33	0.062	10	
972228	Soil	0.9	10.6	7.6	50	<0.1	7.6	5.1	171	2.61	3.5	1.3	1.1	34	<0.1	0.2	0.1	63	0.14	0.037	5	
972229	Soil	1.0	14.1	6.5	77	<0.1	12.1	7.6	598	2.69	4.6	0.6	1.0	51	0.2	0.2	0.1	60	0.59	0.039	11	
972230	Soil	1.2	15.9	8.0	102	<0.1	10.7	10.0	872	3.37	10.5	0.7	0.6	66	0.2	0.2	0.2	57	0.48	0.074	9	
972231	Soil	1.2	13.8	7.2	78	<0.1	11.7	8.8	633	3.62	9.3	1.2	1.6	31	<0.1	0.3	0.2	69	0.22	0.092	8	
972232	Soil	1.2	12.1	8.9	126	0.1	8.7	13.0	1226	3.91	14.5	<0.5	0.6	112	0.2	0.2	0.2	60	0.16	0.078	5	
972233	Soil	1.1	12.9	6.7	70	<0.1	10.6	7.9	738	3.15	9.1	1.2	0.6	57	0.2	0.3	0.2	62	0.34	0.051	6	
972234	Soil	0.7	10.6	6.7	88	<0.1	8.5	7.2	353	3.06	7.7	1.1	1.2	27	0.1	0.3	0.1	65	0.24	0.106	6	
972235	Soil	0.9	14.7	7.5	79	<0.1	10.5	9.5	2047	2.92	7.5	0.7	0.7	42	0.4	0.3	0.1	60	0.32	0.053	7	
972236	Soil	0.9	13.5	6.8	69	0.2	9.4	8.9	950	2.88	6.2	8.9	0.6	38	0.2	0.3	<0.1	60	0.25	0.049	7	
972237	Soil	1.0	12.7	7.7	57	<0.1	10.5	9.4	666	3.23	7.7	1.2	1.1	39	<0.1	0.3	0.2	67	0.31	0.050	8	
972238	Soil	0.7	13.2	7.5	61	<0.1	12.0	9.0	588	2.99	5.8	1.3	1.9	71	0.1	0.2	<0.1	68	0.50	0.049	10	
972239	Soil	0.7	15.0	6.8	85	0.1	15.7	7.5	513	2.83	4.7	1.3	1.3	95	0.3	0.2	0.1	58	0.69	0.041	9	
972240	Soil	1.0	29.1	7.1	84	0.4	20.9	7.9	1142	2.83	5.9	2.4	1.3	335	0.6	0.3	0.2	47	2.16	0.109	18	
972241	Soil	0.5	30.9	6.2	81	0.3	48.4	13.6	580	2.90	8.0	2.0	0.8	115	0.4	0.2	0.1	49	0.47	0.037	4	
972242	Soil	0.6	13.6	8.2	82	0.1	14.9	7.3	452	3.32	5.6	<0.5	1.1	112	0.3	0.2	0.2	63	0.70	0.087	8	
972243	Soil	0.8	9.2	11.0	106	<0.1	8.0	8.2	613	3.29	5.0	2.0	1.4	111	0.3	0.2	0.1	60	0.69	0.040	5	
972244	Soil	0.6	12.6	10.9	88	0.1	13.0	7.6	544	3.55	5.6	1.3	1.7	98	0.3	0.2	0.1	62	0.50	0.060	9	
972245	Soil	0.8	17.7	10.3	128	0.1	14.3	11.1	1664	3.05	6.3	1.5	0.5	47	0.5	0.3	0.1	60	0.45	0.073	7	
972246	Soil	0.8	10.6	8.0	65	<0.1	12.2	6.8	673	2.59	5.3	1.9	0.6	44	0.2	0.2	<0.1	56	0.33	0.037	7	
972247	Soil	0.7	9.6	7.2	46	<0.1	9.6	5.8	368	2.46	5.1	2.1	0.9	26	0.1	0.3	0.1	51	0.25	0.043	7	
972248	Soil	0.7	7.8	5.5	77	<0.1	6.7	4.3	198	2.58	4.5	1.6	0.4	24	0.2	0.2	<0.1	58	0.19	0.045	4	
972249	Soil	0.9	8.3	8.6	76	<0.1	10.9	6.3	366	2.89	5.8	1.9	0.6	31	0.2	0.2	<0.1	60	0.25	0.057	4	
972250	Soil	0.7	14.3	15.9	77	0.1	9.2	6.2	1256	1.87	4.8	1.9	1.3	78	0.4	0.3	0.2	29	0.56	0.048	7	
972251	Soil	1.0	9.9	5.9	53	<0.1	10.2	7.2	383	3.10	7.0	0.8	0.5	25	<0.1	0.3	0.1	63	0.23	0.049	4	
972252	Soil	0.7	5.8	5.5	77	<0.1	5.7	5.2	496	2.50	3.4	<0.5	0.5	20	0.2	0.2	<0.1	56	0.14	0.053	4	
972253	Soil	0.8	10.7	8.9	63	<0.1	10.1	7.4	398	2.80	5.5	1.5	0.6	30	0.1	0.3	0.1	58	0.24	0.034	5	
972254	Soil	0.8	10.7	6.5	58	<0.1	10.2	7.1	693	2.52	4.4	6.0	0.7	39	0.1	0.2	0.1	54	0.33	0.047	7	

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972225	Soil	18	0.42	332	0.028	3	1.58	0.023	0.10	<0.1	0.05	7.9	0.1	<0.05	5	<0.5	<0.2
972226	Soil	16	0.29	320	0.053	2	1.73	0.019	0.08	<0.1	0.03	4.2	<0.1	<0.05	6	<0.5	<0.2
972227	Soil	13	0.27	200	0.053	2	1.32	0.017	0.05	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
972228	Soil	14	0.20	170	0.052	1	1.42	0.014	0.05	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
972229	Soil	18	0.33	226	0.043	2	1.69	0.016	0.07	<0.1	0.03	4.9	<0.1	<0.05	6	<0.5	<0.2
972230	Soil	14	0.29	338	0.016	2	1.99	0.014	0.11	<0.1	0.03	3.6	0.1	<0.05	6	<0.5	0.2
972231	Soil	15	0.31	185	0.013	1	2.65	0.011	0.08	<0.1	0.03	4.5	0.1	<0.05	8	<0.5	<0.2
972232	Soil	11	0.21	293	0.008	1	1.96	0.012	0.09	<0.1	0.03	2.6	0.2	<0.05	7	<0.5	0.3
972233	Soil	14	0.27	317	0.022	2	1.55	0.017	0.07	<0.1	0.02	3.6	0.1	0.05	5	<0.5	<0.2
972234	Soil	12	0.28	229	0.021	2	1.99	0.013	0.09	<0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
972235	Soil	12	0.23	331	0.034	2	1.20	0.014	0.08	<0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
972236	Soil	13	0.26	273	0.033	2	1.15	0.015	0.08	<0.1	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
972237	Soil	14	0.34	161	0.039	1	1.17	0.016	0.08	<0.1	0.04	4.7	<0.1	<0.05	4	<0.5	<0.2
972238	Soil	16	0.40	260	0.043	2	1.60	0.025	0.08	<0.1	0.02	6.6	<0.1	<0.05	5	<0.5	<0.2
972239	Soil	18	0.39	263	0.021	2	1.68	0.016	0.11	<0.1	0.03	6.2	<0.1	<0.05	5	<0.5	<0.2
972240	Soil	18	0.51	659	0.004	6	2.53	0.014	0.16	<0.1	0.14	10.6	0.2	0.09	6	1.3	<0.2
972241	Soil	22	0.31	225	0.002	2	1.21	0.013	0.10	<0.1	0.06	7.9	0.1	<0.05	3	<0.5	<0.2
972242	Soil	19	0.46	435	0.016	3	1.40	0.055	0.09	<0.1	0.03	8.5	0.1	<0.05	4	<0.5	<0.2
972243	Soil	12	0.38	242	0.011	3	1.31	0.014	0.07	<0.1	0.03	4.8	<0.1	<0.05	4	<0.5	<0.2
972244	Soil	16	0.41	341	0.013	4	1.71	0.020	0.10	<0.1	0.02	10.3	0.1	<0.05	5	<0.5	<0.2
972245	Soil	15	0.26	411	0.017	2	1.23	0.015	0.11	<0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
972246	Soil	14	0.30	267	0.026	2	1.03	0.013	0.08	<0.1	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
972247	Soil	13	0.28	146	0.026	3	1.00	0.012	0.08	<0.1	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2
972248	Soil	11	0.17	159	0.027	2	0.90	0.010	0.07	<0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
972249	Soil	14	0.20	196	0.014	2	1.26	0.012	0.09	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
972250	Soil	7	0.15	716	0.002	4	0.73	0.009	0.17	<0.1	0.04	5.1	0.2	<0.05	2	<0.5	<0.2
972251	Soil	13	0.25	122	0.033	2	0.93	0.012	0.07	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
972252	Soil	11	0.15	147	0.034	2	0.72	0.010	0.06	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
972253	Soil	15	0.28	135	0.028	2	0.91	0.012	0.06	<0.1	0.02	3.2	<0.1	<0.05	3	<0.5	<0.2
972254	Soil	14	0.32	166	0.026	2	1.01	0.012	0.07	<0.1	0.03	3.6	<0.1	0.06	4	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 15, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P	1DX15 La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
972255	Soil			0.7	11.3	5.3	57	<0.1	11.3	6.4	466	2.62	4.4	<0.5	0.5	30	0.1	0.2	0.1	56	0.21	0.034	7
972256	Soil			0.8	13.0	7.4	104	<0.1	11.2	8.5	938	2.86	4.9	<0.5	0.5	42	0.3	0.2	<0.1	61	0.30	0.051	7
972257	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972258	Soil			1.0	17.7	7.3	77	<0.1	16.9	10.3	684	3.27	5.7	1.1	1.0	78	0.2	0.3	0.1	64	0.69	0.047	8
972259	Soil			1.1	29.5	7.6	92	0.2	22.8	8.9	626	3.53	6.1	0.8	1.3	83	0.4	0.2	0.2	67	0.67	0.062	16
972260	Soil			1.0	16.0	6.5	55	<0.1	14.6	8.4	570	2.91	5.5	1.9	1.2	58	0.2	0.2	0.1	62	0.44	0.044	10
972261	Soil			0.9	13.0	3.5	38	0.1	9.1	5.6	868	1.17	2.3	0.9	0.3	385	0.4	0.5	<0.1	20	2.19	0.073	7
972262	Soil			0.6	18.8	1.8	39	0.2	10.9	3.0	475	0.73	1.0	<0.5	0.2	617	0.5	0.2	<0.1	8	3.44	0.103	12
972263	Soil			0.5	14.1	6.0	62	<0.1	12.3	6.1	311	2.24	2.9	<0.5	0.7	95	0.2	0.2	<0.1	52	0.58	0.035	9
972264	Soil			1.0	22.3	4.9	72	0.1	19.0	5.7	584	1.98	2.7	<0.5	0.9	298	0.3	0.2	<0.1	44	1.55	0.080	21
972265	Soil			0.7	26.8	5.6	81	0.2	21.1	6.4	579	2.29	3.3	<0.5	0.5	332	0.6	0.2	<0.1	43	1.70	0.100	13
972266	Soil			0.7	29.7	4.5	95	0.2	27.8	6.6	684	2.00	2.5	<0.5	0.5	388	1.1	0.2	<0.1	34	2.12	0.078	17
972267	Soil			1.0	39.6	9.1	122	0.3	36.7	12.0	1478	3.78	5.1	0.6	1.5	76	0.4	0.2	0.1	70	0.46	0.100	23
972268	Soil			1.2	32.5	9.5	129	0.3	30.9	12.2	1476	3.67	4.6	<0.5	1.5	83	0.3	0.2	0.2	71	0.50	0.094	25
972269	Soil			1.0	36.6	8.6	89	0.2	28.9	10.1	954	3.71	5.6	<0.5	1.4	80	0.3	0.1	0.2	75	0.51	0.080	20
972270	Soil			1.1	11.1	11.1	184	<0.1	11.2	9.7	1043	3.04	4.3	<0.5	1.5	64	0.5	0.1	<0.1	70	0.33	0.193	8
972271	Soil			0.7	8.9	7.2	84	<0.1	11.3	7.5	420	2.62	3.3	<0.5	2.1	74	0.2	0.1	<0.1	65	0.34	0.094	11
972272	Soil			0.7	7.7	7.0	87	<0.1	10.9	6.6	201	2.36	1.8	<0.5	1.8	56	<0.1	<0.1	<0.1	55	0.19	0.080	8
972273	Soil			0.8	8.4	6.5	100	<0.1	9.5	6.3	256	2.56	3.1	<0.5	1.3	64	0.2	0.2	<0.1	66	0.26	0.046	8
972274	Soil			0.6	12.4	6.7	97	<0.1	13.6	8.9	306	2.84	2.6	<0.5	2.1	125	0.2	0.1	<0.1	70	0.32	0.099	10
972275	Soil			1.4	11.4	7.4	189	<0.1	11.6	9.5	987	3.49	4.7	<0.5	1.9	55	0.3	0.1	<0.1	78	0.31	0.203	8
972276	Soil			0.5	6.9	6.3	58	<0.1	6.7	5.4	309	2.33	4.0	<0.5	2.4	70	<0.1	0.1	<0.1	58	0.30	0.053	11
972277	Soil			1.1	12.1	16.0	291	<0.1	11.8	11.4	992	3.58	7.6	0.8	1.5	71	0.5	0.2	0.1	80	0.43	0.073	11
972278	Soil			1.0	11.5	14.7	262	0.1	8.8	10.1	705	3.03	4.4	<0.5	0.7	31	1.2	0.1	0.1	65	0.15	0.056	10
972279	Soil			0.8	12.6	7.1	165	0.1	12.3	9.0	423	3.02	4.5	0.8	1.9	79	0.3	0.2	<0.1	73	0.38	0.138	12
972280	Soil			0.7	11.9	6.9	108	0.1	12.2	7.4	689	2.53	3.4	<0.5	1.6	83	0.2	0.2	<0.1	62	0.35	0.060	12
972281	Soil			0.8	18.0	8.3	75	0.2	17.8	9.2	785	2.91	4.9	<0.5	2.8	143	0.2	0.2	<0.1	72	0.57	0.055	19
972282	Soil			1.0	25.4	8.6	184	0.2	19.0	11.6	1046	3.19	3.6	<0.5	1.7	136	0.5	0.2	<0.1	67	0.81	0.078	22
972283	Soil			0.8	16.3	8.5	80	0.1	16.4	9.2	619	3.04	5.6	1.3	2.7	128	0.3	0.4	0.1	76	0.65	0.075	19
972284	Soil			0.9	23.3	10.0	83	0.2	17.3	8.9	761	2.89	6.1	<0.5	2.7	110	0.3	0.3	<0.1	69	0.66	0.080	24

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972255	Soil	14	0.29	171	0.024	2	1.09	0.012	0.07	<0.1	0.03	3.5	<0.1	0.05	4	<0.5	<0.2
972256	Soil	14	0.22	246	0.021	2	1.03	0.009	0.08	<0.1	0.02	3.0	<0.1	0.06	4	<0.5	<0.2
972257	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972258	Soil	20	0.44	222	0.015	2	1.37	0.018	0.09	<0.1	0.02	7.1	<0.1	0.07	5	<0.5	<0.2
972259	Soil	21	0.46	413	0.012	2	1.88	0.016	0.12	<0.1	0.04	9.9	0.1	0.07	6	<0.5	<0.2
972260	Soil	18	0.37	256	0.027	2	1.33	0.015	0.08	<0.1	0.02	6.3	<0.1	0.06	4	<0.5	<0.2
972261	Soil	12	0.34	391	0.005	5	0.71	0.012	0.05	<0.1	0.11	2.4	0.1	0.17	2	<0.5	<0.2
972262	Soil	7	0.36	461	0.003	6	0.54	0.012	0.02	<0.1	0.13	1.2	<0.1	0.19	1	0.8	<0.2
972263	Soil	15	0.28	258	0.023	2	1.30	0.012	0.06	<0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
972264	Soil	17	0.50	482	0.008	4	1.82	0.013	0.10	<0.1	0.11	6.4	0.1	0.14	5	<0.5	<0.2
972265	Soil	17	0.41	396	0.011	4	1.42	0.015	0.07	<0.1	0.05	4.7	<0.1	0.12	4	<0.5	<0.2
972266	Soil	14	0.46	459	0.005	4	1.61	0.014	0.07	<0.1	0.06	5.0	<0.1	0.11	4	<0.5	<0.2
972267	Soil	27	0.57	626	0.006	1	3.33	0.015	0.16	<0.1	0.03	9.9	0.2	0.05	9	<0.5	<0.2
972268	Soil	27	0.50	577	0.008	2	3.20	0.016	0.14	<0.1	0.03	8.6	0.2	0.07	9	<0.5	<0.2
972269	Soil	26	0.52	602	0.009	2	2.86	0.014	0.15	<0.1	0.03	8.0	0.2	<0.05	9	<0.5	<0.2
972270	Soil	16	0.26	326	0.077	2	2.34	0.013	0.08	<0.1	0.02	3.3	0.1	<0.05	8	<0.5	<0.2
972271	Soil	15	0.27	243	0.097	2	1.75	0.017	0.08	<0.1	0.02	2.9	<0.1	0.06	6	<0.5	<0.2
972272	Soil	14	0.21	250	0.104	1	1.84	0.021	0.06	<0.1	0.02	2.4	<0.1	0.05	7	<0.5	<0.2
972273	Soil	15	0.24	349	0.101	1	1.29	0.016	0.07	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
972274	Soil	16	0.33	485	0.125	2	2.18	0.019	0.10	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
972275	Soil	15	0.28	337	0.070	4	2.45	0.016	0.12	<0.1	0.03	3.2	<0.1	<0.05	10	<0.5	<0.2
972276	Soil	11	0.26	253	0.090	2	0.97	0.021	0.07	<0.1	<0.01	3.5	<0.1	<0.05	3	<0.5	<0.2
972277	Soil	16	0.26	332	0.023	3	2.61	0.011	0.12	<0.1	0.04	5.3	0.3	0.06	8	<0.5	<0.2
972278	Soil	13	0.20	238	0.041	2	1.30	0.011	0.09	<0.1	0.02	3.0	<0.1	0.06	6	<0.5	<0.2
972279	Soil	18	0.32	341	0.084	2	1.72	0.019	0.09	<0.1	0.02	3.8	<0.1	0.05	6	<0.5	<0.2
972280	Soil	17	0.31	262	0.082	2	1.39	0.024	0.08	<0.1	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
972281	Soil	24	0.47	374	0.086	2	1.74	0.029	0.10	<0.1	0.03	7.3	0.1	0.06	5	<0.5	<0.2
972282	Soil	25	0.52	426	0.049	3	2.39	0.016	0.13	<0.1	0.04	7.4	0.1	0.06	7	<0.5	<0.2
972283	Soil	24	0.49	272	0.076	3	1.56	0.023	0.09	<0.1	0.09	7.1	0.1	0.06	5	<0.5	<0.2
972284	Soil	22	0.48	265	0.063	3	1.57	0.025	0.09	<0.1	0.05	8.3	0.1	<0.05	5	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
972285	Soil	0.5	7.6	8.1	92	<0.1	10.3	6.8	226	2.37	3.4	<0.5	0.7	52	<0.1	<0.1	<0.1	60	0.34	0.097	10
972286	Soil	0.7	10.4	7.2	86	0.2	11.2	7.7	254	2.76	3.5	<0.5	1.2	79	0.2	0.2	<0.1	69	0.32	0.038	9
972287	Soil	0.7	7.0	6.6	73	0.1	7.7	4.8	160	2.27	2.4	<0.5	1.0	37	0.2	0.2	<0.1	62	0.14	0.025	5
972288	Soil	0.7	10.1	7.9	215	0.1	12.1	7.6	478	3.09	3.7	1.0	1.9	37	0.6	0.2	<0.1	58	0.19	0.544	9
972289	Soil	0.8	11.5	9.6	110	<0.1	10.5	7.9	360	3.03	6.9	<0.5	1.6	23	0.2	0.2	<0.1	69	0.22	0.112	6
972290	Soil	0.8	11.0	8.8	79	0.1	9.1	5.9	184	3.06	5.2	1.5	1.8	32	0.1	0.3	0.1	69	0.11	0.177	7
972291	Soil	0.7	13.4	7.2	90	0.1	13.6	8.5	216	2.74	3.7	0.7	1.4	112	0.2	0.1	<0.1	64	0.27	0.159	12
972292	Soil	0.8	10.2	7.4	86	0.1	5.5	5.7	537	2.49	2.3	<0.5	0.5	35	0.3	0.2	0.1	63	0.19	0.033	6
972293	Soil	0.8	10.9	8.2	73	<0.1	7.9	7.8	267	3.05	7.8	0.5	1.1	29	0.1	0.2	<0.1	73	0.22	0.071	5
972294	Soil	1.2	12.9	7.8	75	<0.1	7.9	8.9	543	2.83	6.5	<0.5	0.6	31	0.2	0.2	0.1	67	0.21	0.039	6
972295	Soil	1.1	20.4	8.1	93	0.2	10.7	8.7	933	2.97	6.6	0.6	0.4	55	0.4	0.2	0.1	62	0.43	0.064	19
972296	Soil	1.0	15.6	6.3	58	<0.1	10.5	9.8	789	3.23	8.4	0.7	1.2	25	<0.1	0.5	0.1	72	0.36	0.096	7
972297	Soil	0.9	9.0	7.5	107	<0.1	6.3	5.6	317	3.05	5.0	<0.5	0.6	20	0.2	0.2	0.1	66	0.17	0.104	5
972298	Soil	1.0	10.2	8.4	146	<0.1	8.6	7.2	346	3.10	2.7	<0.5	0.8	52	0.5	0.2	0.1	84	0.16	0.046	5
972299	Soil	0.7	13.5	7.8	121	<0.1	11.7	7.8	307	2.93	2.5	<0.5	1.1	100	0.2	0.1	0.1	65	0.31	0.140	8
972300	Soil	0.7	15.1	8.8	58	<0.1	6.4	4.6	169	2.32	2.1	<0.5	0.4	85	0.9	0.1	0.1	61	0.35	0.042	8
972301	Soil	0.7	9.2	5.4	77	<0.1	7.2	5.8	318	2.68	4.8	<0.5	0.7	52	0.1	0.2	<0.1	64	0.28	0.075	7
972302	Soil	0.7	9.1	6.4	97	0.1	5.9	5.4	374	2.51	3.3	<0.5	0.5	36	0.3	0.2	<0.1	58	0.21	0.071	6
972303	Soil	0.8	13.3	5.7	82	<0.1	9.7	6.5	385	2.69	4.0	0.8	0.9	83	0.2	0.2	<0.1	62	0.30	0.063	10
972304	Soil	0.9	8.9	7.5	88	<0.1	7.4	6.6	546	3.00	5.7	<0.5	1.0	26	0.1	0.3	<0.1	71	0.13	0.131	5
972305	Soil	0.6	10.0	6.2	56	<0.1	7.6	5.7	267	2.41	5.1	<0.5	1.2	55	<0.1	0.2	<0.1	60	0.29	0.080	9
972306	Soil	1.0	12.7	7.9	95	0.2	14.6	9.2	222	3.03	3.7	<0.5	1.7	70	0.1	0.1	<0.1	72	0.18	0.154	8
972307	Soil	0.6	8.6	6.1	94	<0.1	7.2	6.7	341	3.07	4.7	<0.5	2.4	55	<0.1	0.1	<0.1	65	0.30	0.237	6
972308	Soil	0.9	11.0	8.9	103	<0.1	11.0	10.4	786	3.14	3.9	<0.5	1.5	36	0.2	0.2	0.1	70	0.18	0.120	7
972309	Soil	1.0	7.5	6.4	85	<0.1	6.3	5.9	223	3.35	6.9	5.1	1.3	18	0.1	0.2	0.1	77	0.15	0.093	4
972310	Soil	0.8	6.8	6.9	73	<0.1	6.5	6.3	216	3.15	6.4	<0.5	1.2	33	<0.1	0.2	<0.1	69	0.30	0.106	4
972311	Soil	0.9	10.7	6.0	68	<0.1	7.6	6.4	238	3.00	6.6	<0.5	1.2	56	0.2	0.2	0.1	66	0.32	0.058	6
972312	Soil	0.8	11.7	6.7	120	0.1	12.2	7.7	252	3.11	6.4	<0.5	1.6	48	0.3	0.2	<0.1	68	0.31	0.226	9
972313	Soil	0.9	12.8	8.1	85	0.1	10.7	7.4	456	3.00	4.0	<0.5	1.6	36	<0.1	0.2	<0.1	69	0.13	0.096	9
972314	Soil	0.8	11.5	7.9	97	<0.1	12.9	8.9	206	3.26	6.5	<0.5	1.6	39	<0.1	0.2	<0.1	71	0.22	0.130	7

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 15, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972285	Soil	15	0.34	207	0.060	2	1.77	0.016	0.05	<0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
972286	Soil	18	0.32	370	0.069	2	1.63	0.019	0.05	<0.1	0.02	3.1	<0.1	0.05	6	<0.5	<0.2
972287	Soil	14	0.18	202	0.072	2	1.00	0.013	0.05	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
972288	Soil	19	0.26	484	0.054	3	2.59	0.012	0.09	<0.1	0.05	3.6	<0.1	<0.05	8	<0.5	<0.2
972289	Soil	14	0.26	160	0.034	2	1.95	0.012	0.08	<0.1	0.05	3.5	<0.1	<0.05	6	<0.5	<0.2
972290	Soil	16	0.20	198	0.045	2	1.89	0.011	0.05	<0.1	0.04	2.7	<0.1	<0.05	7	<0.5	<0.2
972291	Soil	15	0.41	417	0.064	2	3.26	0.019	0.05	<0.1	0.06	3.8	<0.1	0.05	7	<0.5	<0.2
972292	Soil	11	0.14	209	0.040	2	0.95	0.010	0.05	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
972293	Soil	14	0.24	145	0.036	2	1.14	0.012	0.05	<0.1	0.01	3.5	<0.1	0.05	5	<0.5	<0.2
972294	Soil	14	0.21	199	0.033	2	1.05	0.012	0.05	<0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
972295	Soil	14	0.28	437	0.011	2	1.65	0.012	0.07	<0.1	0.04	4.4	<0.1	0.06	6	<0.5	<0.2
972296	Soil	16	0.33	161	0.045	2	0.92	0.015	0.07	0.1	0.02	5.3	<0.1	<0.05	3	<0.5	<0.2
972297	Soil	12	0.19	162	0.032	2	1.23	0.011	0.04	0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
972298	Soil	13	0.20	187	0.103	2	1.12	0.011	0.06	<0.1	0.03	2.4	0.2	0.05	8	<0.5	<0.2
972299	Soil	14	0.32	326	0.066	2	2.29	0.016	0.07	<0.1	0.03	3.7	<0.1	0.06	8	<0.5	<0.2
972300	Soil	10	0.11	276	0.063	1	0.83	0.011	0.05	<0.1	0.02	1.8	<0.1	0.06	5	<0.5	<0.2
972301	Soil	12	0.24	169	0.049	2	1.05	0.013	0.07	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
972302	Soil	10	0.18	231	0.051	1	0.90	0.012	0.04	<0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
972303	Soil	13	0.33	359	0.055	2	1.45	0.016	0.08	<0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
972304	Soil	12	0.17	178	0.041	1	1.54	0.010	0.04	<0.1	0.03	2.6	<0.1	0.05	6	<0.5	<0.2
972305	Soil	11	0.26	231	0.056	2	1.11	0.015	0.05	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
972306	Soil	17	0.29	315	0.097	2	2.68	0.017	0.07	<0.1	0.08	3.0	<0.1	<0.05	8	<0.5	<0.2
972307	Soil	11	0.20	348	0.048	1	1.91	0.011	0.07	<0.1	0.03	3.2	<0.1	0.06	6	<0.5	<0.2
972308	Soil	14	0.22	213	0.060	2	2.23	0.011	0.07	<0.1	0.04	3.0	<0.1	<0.05	7	<0.5	<0.2
972309	Soil	10	0.20	128	0.017	1	1.84	0.009	0.05	<0.1	0.02	3.7	<0.1	0.06	7	<0.5	<0.2
972310	Soil	11	0.19	126	0.031	2	1.59	0.010	0.06	0.1	0.03	2.7	<0.1	0.07	5	<0.5	<0.2
972311	Soil	12	0.27	219	0.022	2	1.50	0.015	0.05	<0.1	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
972312	Soil	15	0.31	333	0.046	3	2.50	0.014	0.07	0.1	0.07	3.9	<0.1	0.06	7	<0.5	<0.2
972313	Soil	16	0.23	266	0.069	2	1.88	0.017	0.05	<0.1	0.04	3.3	<0.1	<0.05	7	<0.5	<0.2
972314	Soil	16	0.27	230	0.056	2	2.38	0.013	0.06	<0.1	0.04	3.5	<0.1	0.07	7	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 15, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P	1DX15 La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
972315	Soil			0.8	9.4	8.1	79	<0.1	9.1	7.1	273	2.94	4.1	<0.5	1.4	35	<0.1	0.2	<0.1	69	0.19	0.070	6
972316	Soil			0.9	8.3	7.0	87	<0.1	6.7	6.9	229	3.12	4.6	0.7	1.3	23	<0.1	0.2	0.1	71	0.17	0.055	5
972317	Soil			1.0	9.3	6.0	67	<0.1	8.5	6.4	244	3.23	7.4	<0.5	0.9	38	<0.1	0.2	<0.1	73	0.25	0.145	5
972318	Soil			0.8	6.9	6.3	71	<0.1	5.8	5.2	272	2.78	3.9	<0.5	0.9	25	<0.1	0.2	<0.1	66	0.18	0.111	4
972319	Soil			0.8	6.1	6.2	83	<0.1	6.6	6.9	486	2.75	4.5	1.2	1.2	23	<0.1	0.2	0.1	60	0.15	0.113	5
972320	Soil			0.8	9.1	7.0	103	0.1	7.0	6.3	247	3.20	5.3	<0.5	1.3	23	0.1	0.2	0.1	68	0.14	0.180	5
972321	Soil			0.9	9.5	7.9	88	<0.1	7.2	6.6	400	3.17	4.2	<0.5	1.5	20	<0.1	0.2	0.1	75	0.20	0.093	5
972322	Soil			0.9	9.7	6.3	86	<0.1	11.6	8.6	235	3.33	5.1	<0.5	1.1	34	<0.1	0.3	<0.1	80	0.29	0.071	5
972323	Soil			0.7	12.4	7.8	96	0.1	9.3	7.2	350	3.01	3.4	<0.5	1.1	36	0.1	0.2	0.2	72	0.23	0.105	5
972324	Soil			0.6	11.0	7.8	65	0.1	11.8	6.6	152	2.72	2.6	1.1	1.0	31	0.1	0.1	0.1	72	0.15	0.043	6
972325	Soil			0.8	18.9	7.1	91	<0.1	8.8	7.0	364	2.91	5.9	1.4	0.8	29	0.2	0.3	0.1	70	0.28	0.144	5
972326	Soil			0.9	7.7	6.4	50	<0.1	6.6	4.5	210	2.57	7.6	<0.5	0.8	13	<0.1	0.2	<0.1	64	0.08	0.086	4
972327	Soil			0.6	12.4	7.1	73	<0.1	13.4	7.0	179	2.90	6.9	2.2	1.5	25	<0.1	0.2	<0.1	65	0.11	0.123	5
972328	Soil			0.8	9.2	7.9	75	<0.1	10.0	6.8	222	3.20	10.8	<0.5	1.4	14	<0.1	0.3	0.1	72	0.08	0.115	4
972329	Soil			0.7	9.2	6.1	55	<0.1	9.2	6.8	323	2.39	5.6	<0.5	1.2	40	<0.1	0.2	<0.1	56	0.28	0.053	6
972330	Soil			0.5	10.8	7.2	62	<0.1	12.7	9.6	503	2.54	8.1	<0.5	1.9	60	0.1	0.2	<0.1	65	0.36	0.095	10
972331	Soil			0.6	16.1	7.2	152	<0.1	17.6	11.7	327	3.27	7.3	<0.5	1.7	57	<0.1	0.2	<0.1	76	0.34	0.100	8
972332	Soil			1.2	9.0	6.8	99	<0.1	7.8	5.2	325	2.80	6.2	<0.5	0.3	19	0.1	0.2	<0.1	68	0.14	0.087	5
972333	Soil			0.7	7.0	8.0	81	<0.1	6.5	4.8	150	2.80	8.4	<0.5	1.1	11	0.1	0.2	<0.1	65	0.10	0.069	4
972334	Soil			0.8	4.2	6.8	86	<0.1	3.9	4.0	403	2.42	6.6	<0.5	0.7	14	0.2	0.2	<0.1	55	0.13	0.097	4
972335	Soil			0.7	9.2	7.6	79	<0.1	6.9	5.5	237	2.68	6.6	<0.5	1.1	18	0.1	0.2	<0.1	62	0.19	0.098	5
972336	Soil			0.8	6.0	5.3	74	<0.1	4.2	4.5	153	2.55	7.1	<0.5	0.9	13	0.1	0.3	<0.1	61	0.10	0.073	3
972337	Soil			0.9	5.4	6.3	90	<0.1	4.8	4.4	287	2.88	6.3	<0.5	1.1	15	<0.1	0.3	<0.1	66	0.13	0.101	4
972338	Soil			1.1	8.4	6.9	132	0.1	4.0	8.9	1946	2.95	7.5	0.8	1.0	26	0.1	0.2	<0.1	60	0.24	0.175	4
972339	Soil			0.7	9.4	5.8	85	<0.1	6.1	5.3	155	2.59	6.9	8.8	1.6	13	<0.1	0.2	<0.1	56	0.16	0.138	6
972340	Soil			1.2	6.2	7.5	101	0.1	2.8	5.9	1157	2.94	8.3	0.9	0.4	8	0.1	0.1	0.2	61	0.07	0.102	4
972341	Soil			0.8	4.4	6.4	81	<0.1	3.4	4.8	308	2.60	4.9	2.1	0.6	13	0.1	0.2	0.1	57	0.11	0.095	4
972342	Soil			0.8	4.4	5.5	61	<0.1	2.7	3.6	241	2.44	4.5	<0.5	0.5	11	<0.1	0.2	0.1	56	0.09	0.038	3
972343	Soil			0.9	8.6	7.8	84	0.1	5.4	6.4	378	3.35	10.0	0.7	2.3	36	0.2	0.2	0.1	76	0.26	0.054	5
972344	Soil			1.0	9.5	8.5	89	0.2	6.6	7.6	417	3.25	8.0	<0.5	2.8	61	0.2	0.3	0.2	69	0.35	0.033	7

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

Acme Analytical Laboratories (Vancouver) Ltd.

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5		
972315	Soil			14	0.20	222	0.064	2	1.43	0.014	0.05	<0.1	0.03	3.0	<0.1	0.06	6	<0.5	<0.2
972316	Soil			12	0.16	239	0.033	2	1.46	0.012	0.05	<0.1	0.03	2.9	<0.1	0.05	6	<0.5	<0.2
972317	Soil			13	0.21	230	0.037	2	1.35	0.012	0.06	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
972318	Soil			12	0.14	169	0.048	2	0.92	0.011	0.05	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
972319	Soil			11	0.14	168	0.032	2	1.28	0.011	0.04	<0.1	0.02	2.4	<0.1	0.06	5	<0.5	<0.2
972320	Soil			13	0.20	200	0.026	2	1.69	0.010	0.05	<0.1	0.04	3.1	<0.1	<0.05	6	<0.5	<0.2
972321	Soil			12	0.18	220	0.023	1	1.92	0.011	0.05	<0.1	0.03	3.6	<0.1	<0.05	8	<0.5	<0.2
972322	Soil			17	0.25	295	0.038	2	2.29	0.013	0.05	<0.1	0.03	3.2	<0.1	<0.05	7	<0.5	<0.2
972323	Soil			13	0.21	294	0.035	1	1.83	0.010	0.08	<0.1	0.05	2.9	<0.1	<0.05	8	<0.5	<0.2
972324	Soil			22	0.18	260	0.065	1	1.53	0.012	0.04	<0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
972325	Soil			14	0.20	319	0.026	1	1.50	0.010	0.06	0.1	0.05	3.3	<0.1	<0.05	6	<0.5	<0.2
972326	Soil			12	0.12	114	0.028	<1	1.10	0.009	0.03	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
972327	Soil			16	0.23	183	0.034	1	2.21	0.009	0.04	<0.1	0.06	3.3	<0.1	<0.05	7	<0.5	<0.2
972328	Soil			13	0.19	135	0.022	1	2.07	0.009	0.04	0.1	0.05	3.2	<0.1	<0.05	7	<0.5	<0.2
972329	Soil			12	0.20	240	0.040	1	1.06	0.012	0.05	<0.1	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
972330	Soil			14	0.31	290	0.059	1	1.14	0.015	0.04	<0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
972331	Soil			19	0.36	458	0.042	2	2.50	0.012	0.13	<0.1	0.01	4.8	<0.1	<0.05	7	<0.5	<0.2
972332	Soil			12	0.13	175	0.028	2	1.26	0.011	0.04	<0.1	0.04	2.1	<0.1	<0.05	5	<0.5	<0.2
972333	Soil			11	0.17	127	0.030	1	1.30	0.011	0.03	0.1	0.04	2.8	<0.1	<0.05	5	<0.5	<0.2
972334	Soil			10	0.07	87	0.031	<1	0.87	0.008	0.04	<0.1	0.05	1.8	<0.1	<0.05	5	<0.5	<0.2
972335	Soil			12	0.21	145	0.037	1	1.09	0.010	0.04	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
972336	Soil			8	0.11	166	0.022	1	0.88	0.009	0.03	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
972337	Soil			9	0.12	200	0.021	1	1.32	0.010	0.04	0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
972338	Soil			7	0.14	343	0.020	2	1.71	0.010	0.09	0.1	0.03	4.0	<0.1	<0.05	7	<0.5	<0.2
972339	Soil			9	0.20	205	0.020	1	2.27	0.010	0.05	0.1	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
972340	Soil			4	0.08	160	0.011	1	1.52	0.009	0.07	0.2	0.04	2.4	<0.1	<0.05	6	<0.5	<0.2
972341	Soil			7	0.11	165	0.020	2	1.38	0.009	0.05	0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
972342	Soil			6	0.07	159	0.023	2	0.78	0.010	0.03	0.2	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2
972343	Soil			9	0.18	464	0.025	3	1.62	0.012	0.05	0.2	0.05	6.2	<0.1	<0.05	5	<0.5	<0.2
972344	Soil			10	0.23	589	0.030	3	1.52	0.014	0.05	0.1	0.04	6.1	<0.1	<0.05	4	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
972345	Soil	1.1	11.0	7.2	75	0.2	9.0	6.6	467	2.75	5.6	<0.5	1.7	93	0.3	0.3	<0.1	58	0.63	0.031	9
972346	Soil	1.1	6.3	5.9	64	<0.1	5.6	4.8	140	2.68	6.8	<0.5	1.3	30	<0.1	0.3	0.1	62	0.18	0.024	4
972347	Soil	0.7	9.0	5.5	73	0.1	5.1	4.3	193	2.15	3.9	<0.5	0.7	74	0.3	0.2	<0.1	47	0.47	0.027	5
972348	Soil	0.6	12.2	7.5	112	0.1	9.3	7.8	427	2.65	3.2	<0.5	1.1	124	0.6	0.2	0.1	58	0.62	0.034	8
972349	Soil	0.5	12.1	7.2	83	<0.1	9.7	6.4	324	2.56	4.5	<0.5	1.7	72	<0.1	0.1	<0.1	62	0.30	0.088	10
972350	Soil	0.6	7.7	7.1	52	0.2	4.7	4.2	282	2.51	2.8	<0.5	0.6	20	0.3	0.2	<0.1	65	0.10	0.052	4
972351	Soil	0.6	8.9	8.1	63	<0.1	9.4	5.8	368	2.58	3.3	<0.5	1.0	51	<0.1	0.2	<0.1	61	0.21	0.094	5
972352	Soil	0.9	8.3	9.1	60	<0.1	7.4	4.7	189	2.20	1.7	<0.5	0.7	43	<0.1	0.1	0.1	54	0.12	0.051	5
972353	Soil	0.7	8.2	7.3	48	<0.1	6.3	4.5	172	2.04	2.9	0.5	0.7	48	<0.1	0.1	<0.1	50	0.14	0.050	6
972354	Soil	0.9	7.9	6.1	68	<0.1	6.4	5.4	327	2.77	7.5	1.3	0.9	15	0.1	0.3	0.1	58	0.19	0.091	5
972355	Soil	0.9	17.5	8.6	70	0.2	10.6	10.9	746	3.04	4.9	0.9	2.1	44	<0.1	0.2	0.2	62	0.28	0.035	12
972356	Soil	0.8	8.9	5.7	49	<0.1	6.8	5.1	376	2.31	4.8	0.8	0.9	35	0.2	0.2	0.1	48	0.29	0.042	6
972357	Soil	1.1	14.7	8.4	55	<0.1	11.0	6.6	456	3.00	8.3	1.2	2.3	39	<0.1	0.3	0.3	57	0.51	0.092	13
972358	Soil	0.9	7.2	9.4	50	<0.1	4.4	4.3	305	2.34	3.3	<0.5	0.4	16	0.6	0.2	0.3	54	0.08	0.034	3
972359	Soil	0.9	9.2	8.2	66	<0.1	8.1	6.2	183	2.85	5.3	0.8	1.2	24	<0.1	0.2	0.3	69	0.10	0.123	4
972360	Soil	0.8	13.3	8.3	89	<0.1	10.2	7.6	212	3.03	5.2	<0.5	2.0	37	0.2	0.2	0.2	71	0.14	0.084	8
972361	Soil	1.0	11.6	8.9	112	0.1	7.1	5.9	336	3.33	4.1	0.8	1.0	15	0.3	0.2	0.3	74	0.13	0.165	7
972362	Soil	1.2	11.1	8.9	71	<0.1	12.1	8.4	221	3.15	7.2	1.7	1.4	29	<0.1	0.2	0.3	69	0.13	0.114	5
972363	Soil	0.9	9.4	8.3	45	<0.1	7.0	5.8	147	2.69	5.0	<0.5	1.4	19	<0.1	0.2	0.3	67	0.08	0.086	5
972364	Soil	0.9	12.6	8.9	91	<0.1	12.9	8.3	211	2.88	4.4	1.2	1.6	47	<0.1	0.2	0.2	68	0.27	0.073	12
972365	Soil	0.7	5.1	5.5	44	<0.1	4.7	3.8	143	2.35	2.0	<0.5	0.7	28	<0.1	0.1	0.1	52	0.17	0.024	6
972366	Soil	0.7	6.7	5.2	47	<0.1	6.2	4.6	180	2.11	3.8	<0.5	0.8	27	<0.1	0.2	0.2	53	0.23	0.037	5
972367	Soil	0.7	9.4	7.1	38	<0.1	7.8	5.5	291	2.19	3.6	1.1	1.2	51	<0.1	0.2	0.3	55	0.30	0.041	7
972368	Soil	0.9	5.8	6.9	34	<0.1	5.3	4.8	208	2.40	3.5	<0.5	0.5	22	<0.1	0.1	0.3	64	0.20	0.039	5
972369	Soil	0.9	7.5	6.6	35	<0.1	5.1	4.1	269	2.42	3.4	2.0	0.7	12	<0.1	0.2	0.3	60	0.09	0.038	4
972370	Soil	1.0	12.6	7.2	86	<0.1	11.1	7.4	282	3.19	6.5	0.8	1.9	16	<0.1	0.2	0.3	64	0.13	0.180	6
972371	Soil	1.4	19.6	8.5	73	<0.1	15.9	9.7	1873	3.04	3.6	0.7	1.7	67	0.2	0.1	0.3	64	0.78	0.090	51
972372	Soil	1.0	9.3	7.8	52	<0.1	6.3	4.1	213	1.89	2.0	0.6	0.6	24	<0.1	<0.1	0.3	47	0.20	0.099	6
972373	Soil	1.1	8.6	8.7	92	<0.1	10.9	9.7	489	3.25	4.3	<0.5	1.3	25	<0.1	0.2	0.2	78	0.19	0.072	6
972374	Soil	1.0	7.6	5.0	61	<0.1	6.4	5.9	229	2.93	5.4	0.7	1.1	15	<0.1	0.2	0.1	67	0.13	0.046	4

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 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972345	Soil	14	0.28	618	0.017	2	1.37	0.013	0.05	<0.1	0.04	7.1	<0.1	<0.05	4	<0.5	<0.2
972346	Soil	10	0.16	246	0.026	<1	1.16	0.013	0.02	<0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
972347	Soil	9	0.20	386	0.021	2	0.91	0.012	0.03	<0.1	0.03	3.0	<0.1	<0.05	3	<0.5	<0.2
972348	Soil	13	0.36	537	0.027	2	1.73	0.016	0.06	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
972349	Soil	12	0.31	401	0.063	1	1.63	0.016	0.07	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
972350	Soil	10	0.09	169	0.061	<1	0.66	0.009	0.04	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
972351	Soil	12	0.22	288	0.070	2	1.42	0.010	0.08	<0.1	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
972352	Soil	12	0.17	252	0.081	1	1.09	0.012	0.05	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
972353	Soil	9	0.18	231	0.060	1	1.02	0.010	0.06	<0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
972354	Soil	10	0.21	136	0.023	<1	1.04	0.010	0.04	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
972355	Soil	14	0.34	334	0.012	1	2.03	0.011	0.05	<0.1	0.03	5.8	0.1	<0.05	6	<0.5	<0.2
972356	Soil	10	0.25	140	0.021	<1	1.21	0.012	0.05	<0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
972357	Soil	14	0.31	181	0.014	2	1.30	0.014	0.08	<0.1	0.04	8.1	0.1	<0.05	4	1.2	<0.2
972358	Soil	9	0.06	140	0.033	<1	0.54	0.008	0.04	<0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
972359	Soil	13	0.17	188	0.045	1	1.37	0.012	0.05	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
972360	Soil	15	0.24	227	0.058	2	2.07	0.013	0.06	<0.1	0.04	3.1	<0.1	<0.05	6	<0.5	<0.2
972361	Soil	15	0.13	235	0.032	1	1.60	0.009	0.05	<0.1	0.05	2.9	0.1	<0.05	7	<0.5	<0.2
972362	Soil	14	0.25	196	0.030	2	2.21	0.011	0.05	0.1	0.04	2.7	<0.1	<0.05	6	<0.5	<0.2
972363	Soil	12	0.16	121	0.034	<1	1.86	0.011	0.03	<0.1	0.06	2.4	<0.1	<0.05	5	<0.5	<0.2
972364	Soil	15	0.30	327	0.046	2	3.01	0.013	0.09	<0.1	0.04	4.0	0.1	<0.05	9	<0.5	<0.2
972365	Soil	9	0.13	278	0.028	1	0.91	0.012	0.04	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
972366	Soil	10	0.19	160	0.038	1	0.87	0.013	0.04	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
972367	Soil	13	0.25	362	0.051	1	1.07	0.018	0.05	<0.1	0.02	3.0	0.1	<0.05	4	<0.5	<0.2
972368	Soil	13	0.11	166	0.029	1	0.78	0.010	0.04	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
972369	Soil	12	0.11	100	0.037	<1	0.66	0.008	0.03	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
972370	Soil	16	0.23	168	0.023	2	2.55	0.010	0.05	<0.1	0.04	3.4	0.1	<0.05	7	<0.5	<0.2
972371	Soil	21	0.34	1521	0.006	1	3.56	0.010	0.10	<0.1	0.06	7.7	0.2	<0.05	8	<0.5	<0.2
972372	Soil	12	0.15	182	0.017	<1	1.48	0.010	0.06	<0.1	0.05	2.0	<0.1	<0.05	7	<0.5	<0.2
972373	Soil	15	0.20	293	0.061	1	2.05	0.012	0.05	<0.1	0.04	2.4	<0.1	<0.05	9	<0.5	<0.2
972374	Soil	11	0.17	185	0.030	1	1.09	0.010	0.06	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
972375	Soil			0.8	7.0	6.6	42	<0.1	5.3	4.9	210	2.43	4.6	0.5	0.4	12	<0.1	0.2	0.2	56	0.11	0.045	4
972376	Soil			1.1	7.9	6.7	62	<0.1	6.2	7.7	380	2.69	5.2	1.8	0.8	21	<0.1	0.2	0.2	59	0.24	0.051	6
972377	Soil			1.0	10.5	8.0	71	<0.1	7.0	8.0	973	2.74	5.3	<0.5	0.3	37	0.4	0.2	0.3	59	0.48	0.069	5
972378	Soil			1.1	13.6	8.0	105	0.1	7.9	7.2	556	2.86	6.6	0.5	0.3	25	0.8	0.2	0.3	63	0.18	0.071	5
972379	Soil			1.3	34.0	9.2	154	0.4	18.5	10.1	1845	3.29	6.1	1.0	0.9	300	1.4	0.2	0.4	55	1.61	0.077	17
972380	Soil			0.9	26.8	10.2	164	0.2	13.9	10.1	1810	3.45	5.8	0.8	1.6	238	1.2	0.2	0.5	63	1.22	0.055	12
972381	Soil			1.2	8.3	6.9	57	<0.1	5.8	4.7	179	2.75	6.8	<0.5	0.8	12	0.1	0.2	0.4	62	0.11	0.032	4
972382	Soil			1.4	24.9	8.3	71	0.2	16.8	7.8	557	3.06	6.3	0.6	0.8	110	0.4	0.3	0.3	67	0.82	0.060	15
972383	Soil			1.4	15.7	9.0	68	<0.1	13.1	9.0	591	3.31	8.7	1.7	1.8	52	0.1	0.3	0.5	67	0.59	0.089	10
972384	Soil			1.2	29.6	7.1	78	0.3	16.0	7.6	537	2.90	5.8	1.7	1.0	111	0.6	0.2	0.4	54	0.89	0.113	22
972385	Soil			1.6	33.2	8.3	84	0.2	18.5	8.0	644	2.88	5.9	1.2	0.6	77	0.6	0.2	0.4	59	0.58	0.124	31
972386	Soil			1.1	11.6	7.7	89	<0.1	7.9	6.8	605	2.84	6.6	1.8	0.8	23	0.3	0.2	0.4	60	0.19	0.065	5
972387	Soil			1.3	11.6	9.2	70	<0.1	8.6	6.8	260	3.40	8.4	0.7	1.0	14	0.1	0.3	0.6	68	0.10	0.064	4
972388	Soil			1.2	16.5	7.9	72	0.2	10.3	7.3	504	2.93	6.5	1.0	1.0	29	0.1	0.2	0.5	55	0.21	0.070	8
972389	Soil			0.9	10.5	6.0	71	<0.1	7.0	4.7	268	2.54	5.5	1.6	0.8	17	0.2	0.2	0.4	55	0.15	0.064	6
972390	Soil			1.1	14.3	10.9	83	0.1	8.0	8.8	563	3.13	7.6	<0.5	1.0	17	0.2	0.3	0.5	58	0.12	0.086	5
972391	Soil			1.1	19.4	11.7	88	<0.1	15.3	8.6	469	3.37	7.5	0.5	1.0	52	0.3	0.3	0.7	65	0.44	0.046	9
972392	Soil			1.1	6.9	10.7	54	<0.1	5.4	5.1	198	2.41	4.5	<0.5	0.8	26	<0.1	0.2	0.6	51	0.21	0.035	5
972393	Soil			1.2	7.6	12.3	67	<0.1	5.6	5.6	503	2.74	6.3	<0.5	0.9	13	0.1	0.2	0.6	53	0.08	0.064	4
972394	Soil			1.3	7.7	8.5	78	<0.1	4.3	5.2	387	2.46	4.6	<0.5	0.9	17	0.2	0.2	0.4	54	0.12	0.037	4
972395	Soil			1.9	22.2	20.8	59	<0.1	10.0	8.9	456	4.00	12.8	3.1	2.7	40	<0.1	0.5	0.8	57	0.33	0.065	10
972396	Soil			1.3	8.4	15.4	98	<0.1	8.2	10.5	1357	3.02	6.6	0.7	0.4	38	0.2	0.2	0.6	54	0.29	0.062	5
972397	Soil			1.0	10.1	14.2	112	<0.1	9.2	9.6	994	2.92	7.1	0.7	0.4	33	0.2	0.2	0.5	57	0.34	0.048	5
972398	Soil			0.9	15.3	11.9	100	0.1	14.3	10.6	1637	2.61	7.3	0.5	0.2	41	0.5	0.2	0.5	47	0.38	0.069	6
972399	Soil			0.4	6.0	10.2	29	<0.1	5.9	3.3	70	1.09	2.3	<0.5	1.0	21	<0.1	<0.1	0.3	30	0.19	0.020	8
972400	Soil			0.5	7.5	12.7	53	<0.1	13.0	7.7	122	1.89	2.7	<0.5	2.2	44	<0.1	0.2	0.3	59	0.29	0.050	7
972401	Soil			0.7	4.0	6.5	22	<0.1	3.5	3.0	53	1.30	3.3	0.8	0.7	39	<0.1	0.1	0.3	42	0.20	0.014	4
972402	Soil			0.9	11.3	12.9	94	0.1	9.0	8.9	718	3.01	6.1	0.5	1.0	46	0.4	0.2	0.4	54	0.44	0.025	6
972403	Soil			1.7	23.2	13.7	132	0.1	13.0	12.0	1481	3.11	5.4	0.7	0.5	71	0.4	0.2	0.5	58	0.77	0.048	8
972404	Soil			1.1	32.4	9.5	324	0.2	11.0	9.3	2234	2.21	3.4	<0.5	0.1	123	2.3	0.2	0.4	39	1.49	0.195	6

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.



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

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Project: Buck

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972375	Soil	10	0.14	121	0.024	<1	0.86	0.009	0.03	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
972376	Soil	11	0.18	203	0.022	1	1.19	0.011	0.07	<0.1	0.03	2.5	0.1	<0.05	5	<0.5	<0.2
972377	Soil	11	0.16	269	0.019	2	0.91	0.009	0.06	<0.1	0.04	1.8	<0.1	<0.05	4	<0.5	<0.2
972378	Soil	12	0.16	255	0.018	2	1.12	0.010	0.05	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
972379	Soil	16	0.34	325	0.007	3	2.02	0.015	0.07	<0.1	0.08	7.0	0.2	0.08	6	<0.5	<0.2
972380	Soil	16	0.30	224	0.011	3	1.77	0.019	0.06	<0.1	0.05	7.8	0.2	<0.05	5	<0.5	<0.2
972381	Soil	10	0.17	85	0.022	<1	1.03	0.011	0.04	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
972382	Soil	21	0.35	405	0.017	3	1.84	0.014	0.09	0.1	0.06	6.1	0.2	<0.05	6	<0.5	<0.2
972383	Soil	18	0.37	199	0.022	2	1.40	0.020	0.09	<0.1	0.03	6.5	0.1	<0.05	4	<0.5	<0.2
972384	Soil	18	0.44	395	0.003	2	2.85	0.010	0.12	<0.1	0.08	7.3	0.2	0.07	7	<0.5	<0.2
972385	Soil	20	0.36	477	0.009	3	2.15	0.014	0.12	<0.1	0.09	5.3	0.2	0.06	6	0.5	<0.2
972386	Soil	11	0.21	176	0.018	1	1.10	0.011	0.05	<0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
972387	Soil	12	0.19	106	0.017	1	1.37	0.010	0.04	<0.1	0.02	2.8	0.1	<0.05	5	<0.5	<0.2
972388	Soil	14	0.28	206	0.008	<1	1.75	0.011	0.09	<0.1	0.04	4.1	0.2	<0.05	5	<0.5	0.3
972389	Soil	11	0.21	154	0.020	1	1.09	0.010	0.05	<0.1	0.02	2.7	0.1	<0.05	4	<0.5	<0.2
972390	Soil	13	0.20	137	0.011	1	1.33	0.011	0.05	<0.1	0.03	2.8	0.1	<0.05	5	<0.5	<0.2
972391	Soil	20	0.34	156	0.030	2	1.20	0.017	0.08	<0.1	0.02	5.4	0.2	<0.05	4	0.5	0.2
972392	Soil	11	0.15	169	0.018	2	0.89	0.011	0.03	<0.1	0.02	1.8	0.2	<0.05	4	<0.5	<0.2
972393	Soil	10	0.12	124	0.015	1	0.97	0.009	0.04	<0.1	0.02	1.6	0.2	<0.05	4	<0.5	<0.2
972394	Soil	9	0.10	186	0.019	<1	0.75	0.008	0.06	<0.1	0.03	1.4	0.1	<0.05	4	<0.5	<0.2
972395	Soil	14	0.27	345	0.008	1	1.29	0.023	0.07	<0.1	0.08	7.7	0.3	<0.05	4	0.7	0.3
972396	Soil	11	0.14	411	0.011	1	1.23	0.010	0.05	<0.1	0.02	1.6	0.2	<0.05	5	<0.5	<0.2
972397	Soil	12	0.18	436	0.018	1	1.10	0.008	0.12	<0.1	0.02	2.1	0.1	<0.05	4	<0.5	<0.2
972398	Soil	13	0.20	274	0.012	2	1.08	0.009	0.08	<0.1	0.03	1.8	0.1	<0.05	4	<0.5	<0.2
972399	Soil	8	0.17	154	0.007	<1	0.96	0.010	0.04	<0.1	0.03	2.4	0.2	<0.05	3	<0.5	<0.2
972400	Soil	24	0.37	178	0.042	<1	1.72	0.017	0.03	<0.1	0.05	4.2	0.2	<0.05	5	<0.5	<0.2
972401	Soil	7	0.13	103	0.004	<1	0.76	0.015	0.02	<0.1	0.02	1.9	0.1	<0.05	3	<0.5	<0.2
972402	Soil	13	0.26	317	0.017	1	1.11	0.010	0.05	<0.1	0.03	3.8	0.1	<0.05	4	<0.5	<0.2
972403	Soil	15	0.18	426	0.015	2	1.37	0.008	0.10	<0.1	0.04	3.3	0.1	<0.05	5	<0.5	<0.2
972404	Soil	13	0.19	867	0.015	5	0.88	0.008	0.11	<0.1	0.04	0.8	<0.1	0.12	4	<0.5	<0.2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	ppm	
972405	Soil	0.9	29.2	16.0	685	0.1	9.4	10.5	2126	3.00	6.4	<0.5	0.2	55	3.5	0.3	0.9	48	0.73	0.124	7	
972406	Soil	1.2	20.4	9.9	154	<0.1	11.3	8.1	1048	2.77	8.2	<0.5	0.2	60	1.2	0.2	0.5	46	0.85	0.107	5	
972407	Soil	1.1	18.4	12.0	117	0.1	8.0	8.5	1959	2.86	6.5	<0.5	0.2	61	0.7	0.2	0.5	48	0.77	0.100	5	
972408	Soil	1.4	16.4	11.7	67	<0.1	9.1	9.3	1862	3.06	6.0	<0.5	0.4	47	0.4	0.2	0.5	55	0.50	0.066	5	
972409	Soil	1.8	40.3	16.2	66	<0.1	9.1	9.7	682	3.73	11.4	40.5	1.0	26	0.1	0.3	0.7	61	0.20	0.036	6	
972410	Soil	1.4	26.4	14.7	147	0.1	15.3	13.2	2130	3.47	6.7	<0.5	1.3	76	0.6	0.2	0.5	65	0.74	0.137	14	
972411	Soil	1.0	9.7	10.1	57	<0.1	7.9	7.7	532	2.98	7.8	<0.5	0.8	24	0.1	0.3	0.4	59	0.24	0.034	5	
972412	Soil	1.1	11.7	10.5	94	<0.1	7.6	7.8	635	2.73	3.9	<0.5	0.7	47	0.3	0.2	0.4	55	0.19	0.026	5	
972413	Soil	1.1	16.8	9.8	178	0.1	9.7	8.2	1248	2.60	4.7	<0.5	0.4	52	0.3	0.2	0.3	51	0.33	0.057	6	
972414	Soil	1.0	20.9	11.9	187	0.2	14.2	10.1	1895	2.82	7.6	<0.5	0.2	86	1.0	0.2	0.5	50	0.82	0.114	7	
972415	Soil	1.1	9.3	11.4	128	<0.1	10.6	10.9	2224	2.76	4.7	<0.5	0.5	37	0.3	0.2	0.4	55	0.33	0.076	6	
972416	Soil	1.2	14.4	11.6	67	<0.1	10.5	8.3	214	3.56	9.2	0.6	1.8	15	<0.1	0.3	0.5	65	0.08	0.077	6	
972417	Soil	0.8	10.7	7.7	46	<0.1	7.0	6.3	526	2.33	4.0	<0.5	1.0	36	<0.1	0.1	0.4	45	0.32	0.073	11	
972418	Soil	1.3	9.9	7.4	38	<0.1	7.2	6.5	196	2.75	7.8	0.6	1.2	16	<0.1	0.3	0.4	50	0.13	0.033	5	
972419	Soil	0.8	10.0	8.6	108	<0.1	8.3	10.3	1391	3.52	1.9	<0.5	1.3	44	0.1	0.1	0.2	79	0.37	0.134	7	
972420	Soil	0.9	10.9	8.1	82	<0.1	5.8	11.2	860	3.42	2.5	<0.5	1.4	39	<0.1	0.1	0.1	78	0.45	0.194	8	
972421	Soil	1.1	11.4	8.8	58	<0.1	9.0	8.5	333	3.06	7.2	<0.5	1.3	19	<0.1	0.2	0.3	64	0.19	0.117	5	
972422	Soil	0.9	17.6	8.8	84	<0.1	6.4	12.0	897	3.55	3.4	<0.5	1.9	54	0.1	0.2	0.2	87	0.66	0.173	11	
972423	Soil	0.7	13.4	10.1	87	<0.1	6.6	9.8	921	3.13	2.7	<0.5	2.0	36	<0.1	0.1	0.2	73	0.50	0.171	10	
972424	Soil	1.0	10.8	8.7	47	<0.1	9.5	7.9	466	3.00	8.7	<0.5	0.9	27	<0.1	0.3	0.4	58	0.28	0.037	7	
972425	Soil	0.7	10.6	7.6	84	<0.1	10.1	8.6	1215	2.77	5.2	<0.5	0.7	57	0.3	0.2	0.2	59	0.69	0.089	5	
972426	Soil	1.3	12.4	9.5	114	<0.1	8.3	8.8	2215	2.78	1.9	<0.5	0.6	35	0.5	0.2	0.3	51	0.51	0.152	5	
972427	Soil	0.6	13.1	6.9	167	<0.1	8.2	14.2	1444	3.85	3.3	<0.5	1.4	23	0.2	0.1	0.1	79	0.37	0.147	12	
972428	Soil	0.9	22.5	7.7	273	0.2	7.0	13.9	3277	3.09	2.3	0.5	0.3	69	0.7	0.1	0.2	56	1.18	0.223	7	
972429	Soil	0.9	19.6	9.4	117	0.1	8.8	9.9	1957	2.96	5.2	<0.5	0.3	71	0.8	0.2	0.3	55	0.64	0.108	7	
972430	Soil	1.0	16.9	8.6	95	0.1	9.2	8.4	1162	2.84	6.4	<0.5	0.4	236	0.5	0.2	0.3	55	1.00	0.095	6	



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972405	Soil	12	0.20	860	0.016	3	1.22	0.007	0.11	<0.1	0.02	1.9	0.1	<0.05	4	<0.5	<0.2
972406	Soil	10	0.17	669	0.012	2	0.89	0.008	0.11	<0.1	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
972407	Soil	11	0.18	619	0.013	3	1.10	0.008	0.13	<0.1	0.02	1.2	0.1	0.05	5	<0.5	<0.2
972408	Soil	12	0.20	612	0.015	2	1.23	0.008	0.10	<0.1	0.03	2.0	0.1	<0.05	4	<0.5	<0.2
972409	Soil	12	0.20	224	0.020	1	1.06	0.010	0.09	<0.1	0.02	3.6	0.2	<0.05	4	<0.5	0.2
972410	Soil	18	0.27	743	0.009	3	2.00	0.008	0.20	<0.1	0.03	8.2	0.2	<0.05	6	<0.5	<0.2
972411	Soil	11	0.20	213	0.026	2	0.91	0.008	0.09	<0.1	0.01	2.8	0.1	<0.05	3	<0.5	<0.2
972412	Soil	11	0.15	317	0.020	2	1.07	0.009	0.05	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
972413	Soil	11	0.19	310	0.013	2	1.18	0.009	0.10	<0.1	0.03	2.3	0.1	<0.05	4	<0.5	<0.2
972414	Soil	11	0.18	314	0.010	2	1.05	0.007	0.07	<0.1	0.03	1.7	0.1	<0.05	4	<0.5	<0.2
972415	Soil	12	0.16	464	0.015	2	1.55	0.008	0.09	<0.1	0.04	2.1	0.2	<0.05	5	<0.5	<0.2
972416	Soil	14	0.25	165	0.007	<1	2.32	0.009	0.05	<0.1	0.04	3.8	0.2	<0.05	6	<0.5	0.2
972417	Soil	11	0.19	353	0.008	1	2.11	0.010	0.05	<0.1	0.03	3.3	0.1	<0.05	6	<0.5	<0.2
972418	Soil	9	0.20	159	0.019	<1	1.09	0.010	0.04	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
972419	Soil	11	0.54	201	0.108	2	2.23	0.012	0.05	0.1	0.03	3.7	<0.1	<0.05	12	<0.5	<0.2
972420	Soil	8	0.81	119	0.131	1	2.58	0.020	0.07	0.2	0.05	3.4	<0.1	<0.05	14	<0.5	<0.2
972421	Soil	12	0.27	173	0.033	1	1.98	0.012	0.06	0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
972422	Soil	7	0.64	167	0.174	2	3.42	0.022	0.09	0.2	0.04	3.5	<0.1	<0.05	13	<0.5	<0.2
972423	Soil	9	0.63	206	0.165	2	2.32	0.018	0.06	0.2	0.03	3.8	<0.1	<0.05	12	<0.5	<0.2
972424	Soil	11	0.25	179	0.028	1	1.08	0.011	0.06	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
972425	Soil	11	0.42	296	0.055	2	1.76	0.012	0.09	0.1	0.03	2.9	<0.1	<0.05	8	<0.5	<0.2
972426	Soil	12	0.28	367	0.041	2	1.25	0.009	0.11	0.1	0.02	2.5	<0.1	<0.05	7	<0.5	<0.2
972427	Soil	9	0.39	383	0.015	1	2.12	0.008	0.11	<0.1	0.02	5.4	<0.1	<0.05	9	<0.5	<0.2
972428	Soil	9	0.23	1265	0.016	5	1.20	0.008	0.15	<0.1	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
972429	Soil	9	0.23	570	0.016	2	0.99	0.009	0.11	<0.1	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
972430	Soil	9	0.28	393	0.020	5	1.02	0.010	0.13	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2



Acme Analytical Laboratories (Vancouver) Ltd.

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

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Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
972017	Soil	0.7	13.5	8.7	117	<0.1	19.6	9.1	435	2.95	2.7	<0.5	1.3	60	0.2	0.1	<0.1	66	0.32	0.134	8
REP 972017	QC	0.8	14.6	8.8	125	<0.1	20.6	9.7	455	3.02	2.9	<0.5	1.3	61	0.2	0.2	<0.1	66	0.33	0.140	8
972044	Soil	0.9	8.9	5.7	56	<0.1	6.5	5.4	1262	2.37	3.9	<0.5	0.7	26	0.1	0.1	<0.1	54	0.23	0.064	7
REP 972044	QC	0.9	9.3	5.9	57	<0.1	6.9	5.6	1290	2.44	4.0	1.2	0.8	26	0.1	0.2	<0.1	56	0.24	0.061	7
972092	Soil	0.8	6.5	4.1	51	<0.1	5.0	4.1	219	2.33	4.4	1.0	0.5	19	<0.1	0.2	<0.1	58	0.17	0.029	6
REP 972092	QC	0.9	6.5	4.2	51	<0.1	5.3	4.2	220	2.37	4.3	<0.5	0.6	20	<0.1	0.2	<0.1	59	0.16	0.028	6
972131	Soil	1.0	11.3	6.8	77	<0.1	12.1	6.7	250	2.42	2.1	0.6	1.0	42	0.2	0.1	<0.1	62	0.22	0.079	7
REP 972131	QC	1.0	11.5	6.9	78	<0.1	12.6	6.9	264	2.50	2.4	0.5	1.0	43	0.1	0.2	<0.1	66	0.21	0.079	7
972171	Soil	1.2	11.1	7.9	59	0.1	10.6	4.8	165	2.45	9.0	<0.5	1.4	17	<0.1	1.2	0.2	57	0.09	0.123	8
REP 972171	QC	1.0	10.7	7.8	58	0.1	9.7	4.5	148	2.37	8.9	<0.5	1.4	17	<0.1	1.1	0.2	55	0.09	0.126	8
972209	Soil	0.9	11.2	6.0	65	<0.1	10.9	8.3	261	2.94	7.0	<0.5	1.5	28	0.1	0.3	0.1	67	0.18	0.099	6
REP 972209	QC	0.9	11.5	6.0	68	<0.1	10.7	8.7	270	3.06	7.4	1.3	1.5	29	0.1	0.3	0.1	67	0.18	0.101	6
972245	Soil	0.8	17.7	10.3	128	0.1	14.3	11.1	1664	3.05	6.3	1.5	0.5	47	0.5	0.3	0.1	60	0.45	0.073	7
REP 972245	QC	0.9	17.6	10.4	126	0.2	14.2	11.2	1673	3.03	6.4	1.6	0.5	46	0.6	0.3	0.1	61	0.46	0.070	8
972281	Soil	0.8	18.0	8.3	75	0.2	17.8	9.2	785	2.91	4.9	<0.5	2.8	143	0.2	0.2	<0.1	72	0.57	0.055	19
REP 972281	QC	0.9	19.0	8.5	80	0.2	18.4	9.6	788	3.05	5.5	<0.5	2.8	149	0.2	0.2	<0.1	79	0.61	0.060	20
972317	Soil	1.0	9.3	6.0	67	<0.1	8.5	6.4	244	3.23	7.4	<0.5	0.9	38	<0.1	0.2	<0.1	73	0.25	0.145	5
REP 972317	QC	1.2	10.2	6.5	73	<0.1	9.3	6.9	266	3.58	7.8	<0.5	0.9	42	0.1	0.3	<0.1	84	0.28	0.159	5
972353	Soil	0.7	8.2	7.3	48	<0.1	6.3	4.5	172	2.04	2.9	0.5	0.7	48	<0.1	0.1	<0.1	50	0.14	0.050	6
REP 972353	QC	0.8	8.3	7.5	49	<0.1	7.1	4.7	178	2.13	3.4	0.7	0.8	50	0.2	0.2	<0.1	53	0.15	0.051	6
972389	Soil	0.9	10.5	6.0	71	<0.1	7.0	4.7	268	2.54	5.5	1.6	0.8	17	0.2	0.2	0.4	55	0.15	0.064	6
REP 972389	QC	1.0	11.0	6.0	73	<0.1	7.2	5.0	269	2.61	5.8	1.0	0.8	17	0.2	0.2	0.4	55	0.15	0.062	6
972401	Soil	0.7	4.0	6.5	22	<0.1	3.5	3.0	53	1.30	3.3	0.8	0.7	39	<0.1	0.1	0.3	42	0.20	0.014	4
REP 972401	QC	0.8	4.1	6.6	22	<0.1	3.8	3.1	55	1.35	3.3	0.7	0.7	39	<0.1	0.1	0.3	41	0.21	0.014	4
972413	Soil	1.1	16.8	9.8	178	0.1	9.7	8.2	1248	2.60	4.7	<0.5	0.4	52	0.3	0.2	0.3	51	0.33	0.057	6
REP 972413	QC	1.2	17.2	9.8	183	0.1	9.8	8.7	1296	2.70	4.7	<0.5	0.4	53	0.3	0.2	0.3	52	0.33	0.055	5
Reference Materials																					
STD DS9	Standard	13.8	106.8	125.8	316	2.1	39.5	7.7	615	2.37	26.5	121.4	7.0	73	2.5	5.6	6.1	44	0.77	0.086	16



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 15, 2012

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
972017	Soil	29	0.33	281	0.069	1	3.15	0.013	0.07	<0.1	0.03	4.3	<0.1	<0.05	10	<0.5	<0.2
REP 972017	QC	30	0.34	300	0.091	2	3.20	0.013	0.07	<0.1	0.03	4.4	<0.1	<0.05	10	<0.5	<0.2
972044	Soil	12	0.16	255	0.025	2	1.23	0.008	0.05	<0.1	0.03	3.0	<0.1	0.18	5	<0.5	<0.2
REP 972044	QC	12	0.16	261	0.034	2	1.21	0.009	0.05	0.1	0.03	3.1	<0.1	0.17	5	<0.5	<0.2
972092	Soil	9	0.17	169	0.027	1	0.83	0.011	0.04	0.1	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
REP 972092	QC	9	0.17	167	0.027	1	0.82	0.012	0.04	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
972131	Soil	19	0.21	192	0.083	1	1.27	0.010	0.08	<0.1	0.04	2.5	0.1	<0.05	7	<0.5	<0.2
REP 972131	QC	20	0.21	193	0.101	2	1.30	0.011	0.08	<0.1	0.04	2.5	<0.1	<0.05	7	<0.5	<0.2
972171	Soil	21	0.15	128	0.020	1	1.22	0.008	0.05	0.1	0.09	1.9	<0.1	<0.05	6	<0.5	<0.2
REP 972171	QC	20	0.15	130	0.028	2	1.23	0.009	0.05	0.1	0.07	1.9	<0.1	<0.05	5	<0.5	<0.2
972209	Soil	15	0.22	222	0.036	1	1.68	0.011	0.05	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
REP 972209	QC	15	0.23	228	0.035	1	1.72	0.013	0.05	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
972245	Soil	15	0.26	411	0.017	2	1.23	0.015	0.11	<0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
REP 972245	QC	14	0.25	421	0.018	2	1.20	0.012	0.11	<0.1	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
972281	Soil	24	0.47	374	0.086	2	1.74	0.029	0.10	<0.1	0.03	7.3	0.1	0.06	5	<0.5	<0.2
REP 972281	QC	26	0.50	359	0.105	3	1.81	0.029	0.11	0.1	0.03	7.6	0.1	0.13	5	<0.5	<0.2
972317	Soil	13	0.21	230	0.037	2	1.35	0.012	0.06	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
REP 972317	QC	15	0.24	255	0.053	3	1.46	0.012	0.06	0.1	0.02	3.4	<0.1	0.09	5	<0.5	<0.2
972353	Soil	9	0.18	231	0.060	1	1.02	0.010	0.06	<0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
REP 972353	QC	10	0.20	230	0.074	2	1.10	0.012	0.07	0.1	0.04	2.3	<0.1	<0.05	5	<0.5	<0.2
972389	Soil	11	0.21	154	0.020	1	1.09	0.010	0.05	<0.1	0.02	2.7	0.1	<0.05	4	<0.5	<0.2
REP 972389	QC	11	0.21	155	0.020	1	1.09	0.010	0.05	<0.1	0.02	2.8	0.1	<0.05	4	<0.5	<0.2
972401	Soil	7	0.13	103	0.004	<1	0.76	0.015	0.02	<0.1	0.02	1.9	0.1	<0.05	3	<0.5	<0.2
REP 972401	QC	7	0.13	101	0.004	<1	0.78	0.011	0.02	<0.1	0.02	1.8	0.1	<0.05	3	<0.5	<0.2
972413	Soil	11	0.19	310	0.013	2	1.18	0.009	0.10	<0.1	0.03	2.3	0.1	<0.05	4	<0.5	<0.2
REP 972413	QC	11	0.19	308	0.014	2	1.22	0.008	0.10	<0.1	0.02	2.4	0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	125	0.66	328	0.118	3	1.02	0.092	0.38	3.0	0.19	3.0	5.9	0.15	5	5.7	5.3

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Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: Quartz Mountain Resources Ltd.
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
Report Date: August 15, 2012

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QUALITY CONTROL REPORT

SMI12000047.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD DS9	Standard	12.3	100.1	123.4	303	1.8	36.7	7.1	536	2.19	24.0	113.3	6.1	63	2.2	5.3	5.5	38	0.66	0.075	12
STD DS9	Standard	12.7	106.7	123.6	286	1.8	40.7	7.6	548	2.27	24.0	112.1	6.6	66	2.2	5.3	6.2	40	0.71	0.078	14
STD DS9	Standard	13.9	104.8	127.2	303	1.8	42.5	8.1	594	2.38	24.2	117.7	6.1	70	2.3	5.6	6.4	43	0.73	0.081	13
STD DS9	Standard	13.5	108.8	120.9	306	1.8	43.6	8.1	570	2.31	25.4	111.9	6.2	72	2.2	5.9	6.3	43	0.71	0.085	13
STD DS9	Standard	15.2	106.6	127.4	305	1.9	42.2	8.2	611	2.46	24.4	114.0	6.6	78	2.2	5.6	6.2	45	0.78	0.082	15
STD DS9	Standard	12.9	99.4	122.7	302	1.8	40.6	7.6	573	2.31	23.4	123.4	5.7	70	2.2	5.5	5.7	41	0.71	0.078	12
STD DS9	Standard	13.8	97.1	117.1	294	1.8	40.8	7.6	579	2.32	23.2	106.7	5.2	62	1.9	4.9	4.8	47	0.70	0.079	12
STD DS9	Standard	14.1	106.8	127.8	308	1.8	42.3	8.1	605	2.39	23.9	115.6	6.2	71	2.2	5.5	6.1	46	0.75	0.083	13
STD DS9	Standard	12.2	101.8	117.0	282	1.7	38.4	7.4	524	2.11	23.8	109.5	5.6	61	2.1	5.2	6.0	43	0.65	0.075	11
STD DS9	Standard	13.7	100.1	135.4	307	1.9	42.2	8.0	608	2.39	23.7	124.2	5.7	66	2.1	5.5	5.9	45	0.71	0.083	12
STD DS9	Standard	14.5	106.9	136.5	315	1.9	43.4	8.1	621	2.47	24.0	115.4	6.2	76	2.3	5.2	5.8	46	0.77	0.082	14
STD DS9	Standard	13.8	100.7	128.2	307	1.9	40.7	7.3	596	2.40	24.3	127.2	6.3	74	2.1	5.1	6.1	39	0.77	0.080	14
STD DS9	Standard	12.9	107.3	124.9	317	1.9	39.9	7.5	596	2.46	27.1	117.3	6.9	79	2.5	6.2	7.1	42	0.71	0.083	13
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<2	<0.01	<0.001	<1	

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
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 Report Date: August 15, 2012

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS9	Standard	113	0.57	291	0.098	2	0.88	0.086	0.35	2.7	0.26	2.3	5.5	0.16	5	4.8	4.9
STD DS9	Standard	119	0.58	276	0.112	2	0.92	0.086	0.33	3.0	0.20	2.6	5.6	0.18	5	5.0	5.0
STD DS9	Standard	128	0.63	280	0.107	3	0.90	0.086	0.36	3.3	0.21	2.4	5.7	0.21	5	5.4	5.4
STD DS9	Standard	126	0.62	285	0.117	3	0.95	0.084	0.36	3.1	0.20	2.4	5.4	0.21	5	5.1	5.6
STD DS9	Standard	129	0.65	287	0.120	3	0.99	0.094	0.36	3.1	0.21	2.6	5.6	0.22	5	5.5	5.3
STD DS9	Standard	129	0.61	297	0.106	2	0.90	0.094	0.35	3.0	0.19	2.3	5.6	0.11	5	5.3	5.2
STD DS9	Standard	122	0.61	281	0.107	3	0.91	0.090	0.35	2.9	0.19	2.5	5.4	<0.05	5	5.4	5.2
STD DS9	Standard	128	0.66	293	0.113	3	0.98	0.091	0.37	3.2	0.21	2.6	5.7	0.20	5	5.4	5.5
STD DS9	Standard	116	0.58	269	0.098	2	0.84	0.087	0.32	3.0	0.20	2.0	5.3	0.13	4	4.9	4.7
STD DS9	Standard	128	0.63	309	0.110	3	0.95	0.084	0.38	3.0	0.22	2.5	5.7	0.14	5	5.3	5.7
STD DS9	Standard	131	0.67	315	0.120	3	1.04	0.108	0.39	3.1	0.21	2.7	5.9	0.11	5	5.6	5.4
STD DS9	Standard	128	0.66	321	0.120	3	1.01	0.087	0.36	3.2	0.23	2.6	5.7	0.18	5	6.1	5.2
STD DS9	Standard	129	0.62	321	0.118	1	0.92	0.077	0.35	2.9	0.21	2.3	5.2	0.16	5	4.1	5.7
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	2	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 03, 2012

Report Date: August 08, 2012

Page: 1 of 6

CERTIFICATE OF ANALYSIS

SMI12000048.2

CLIENT JOB INFORMATION

Project: Buck
Shipment ID: WA3
P.O. Number: QZM-Buck-002
Number of Samples: 138

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC: Data Email

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	130	Dry at 60C			SMI
SS80	130	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	126	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Version 2: Samples 972436, 972439, 972465 to 972469, 972471 & 972479 are marked as IS.



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 08, 2012

Page: 2 of 6

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000048.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
972431	Soil	0.7	30.6	7.4	68	0.3	25.8	10.2	727	2.43	4.5	1.0	2.1	163	0.3	0.5	0.1	64	1.16	0.081	51
972432	Soil	0.7	13.4	5.7	98	0.2	22.6	10.6	219	2.88	2.9	<0.5	2.0	42	0.1	0.2	<0.1	76	0.29	0.357	11
972434	Soil	0.6	22.0	7.2	45	0.1	22.8	9.5	338	2.33	6.9	<0.5	3.0	92	<0.1	0.3	<0.1	75	0.72	0.141	26
972436	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972437	Soil	0.9	22.2	2.1	38	0.3	19.0	3.3	92	1.14	1.3	<0.5	0.4	157	0.2	0.5	<0.1	25	1.61	0.075	30
972439	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972440	Soil	0.6	16.1	5.8	48	<0.1	19.3	8.5	379	2.26	5.3	<0.5	2.6	89	0.1	0.2	<0.1	68	0.63	0.135	19
972441	Soil	0.4	16.8	6.5	46	<0.1	20.3	7.3	222	2.07	3.3	1.6	2.1	92	0.1	0.2	<0.1	58	0.67	0.116	19
972442	Soil	0.4	19.5	7.2	54	0.2	19.0	6.3	231	2.10	3.4	<0.5	1.5	91	0.1	0.1	0.1	55	0.68	0.112	18
972443	Soil	0.4	15.9	6.7	43	<0.1	19.2	7.2	214	2.08	3.4	0.6	2.0	89	0.1	0.1	<0.1	57	0.55	0.116	16
972444	Soil	0.4	18.2	7.0	44	0.1	17.1	8.4	311	1.96	3.5	1.6	2.4	80	0.1	0.1	<0.1	57	0.52	0.110	17
972445	Soil	0.5	19.4	7.1	50	<0.1	19.0	7.6	289	2.12	3.8	0.7	2.6	86	0.1	0.1	<0.1	62	0.54	0.129	18
972446	Soil	0.5	17.7	7.7	76	0.1	19.3	8.0	390	2.28	2.6	<0.5	2.5	84	<0.1	0.2	<0.1	57	0.47	0.103	16
972447	Soil	0.4	11.0	7.2	51	<0.1	13.9	6.1	175	1.91	1.6	<0.5	2.2	80	<0.1	0.2	<0.1	49	0.41	0.111	13
972448	Soil	0.4	20.1	7.2	50	<0.1	29.3	10.9	374	2.90	3.2	0.7	3.7	111	<0.1	0.3	<0.1	70	0.60	0.124	24
972449	Soil	0.8	17.2	8.6	83	<0.1	30.3	13.8	418	3.17	2.4	<0.5	3.6	63	<0.1	0.2	0.1	80	0.32	0.276	14
972450	Soil	0.5	20.5	7.4	53	<0.1	23.8	9.5	484	2.41	4.3	<0.5	2.8	96	<0.1	0.2	<0.1	67	0.66	0.115	23
972451	Soil	0.6	23.8	6.2	57	0.1	29.8	10.3	418	2.66	4.8	<0.5	2.2	108	0.2	0.2	<0.1	79	0.75	0.122	23
972452	Soil	0.3	16.4	6.8	37	<0.1	16.6	6.7	388	1.87	4.0	8.2	2.7	81	<0.1	0.1	<0.1	64	0.63	0.132	20
972453	Soil	0.5	20.2	5.8	61	<0.1	29.9	11.6	505	2.86	4.3	<0.5	2.5	135	<0.1	0.2	<0.1	86	0.80	0.162	21
972455	Soil	0.6	24.2	5.9	51	0.1	30.6	10.6	466	2.94	4.7	0.7	2.7	133	<0.1	0.3	<0.1	92	0.92	0.131	26
972456	Soil	1.0	17.9	6.9	39	0.1	18.8	8.1	499	2.15	13.8	1.2	2.3	76	0.1	0.2	<0.1	71	0.63	0.117	17
972457	Soil	0.8	13.5	6.9	93	<0.1	25.7	11.5	427	3.13	2.2	<0.5	2.1	52	<0.1	0.2	<0.1	82	0.29	0.177	10
972458	Soil	0.6	14.7	6.0	73	<0.1	27.0	10.7	237	3.05	2.7	<0.5	2.1	52	<0.1	0.2	<0.1	81	0.28	0.212	9
972459	Soil	0.5	11.0	6.4	56	<0.1	17.2	7.0	229	2.33	1.5	<0.5	1.8	69	<0.1	0.1	<0.1	63	0.34	0.092	10
972460	Soil	0.5	18.0	7.5	71	<0.1	27.2	12.7	296	3.35	3.5	<0.5	2.7	65	<0.1	0.2	<0.1	85	0.34	0.212	14
972461	Soil	0.4	13.4	5.7	45	<0.1	18.2	9.1	249	2.65	2.1	<0.5	2.3	66	<0.1	0.2	<0.1	78	0.34	0.088	12
972462	Soil	0.8	16.2	6.8	80	<0.1	28.7	12.9	666	3.27	2.8	<0.5	2.5	57	<0.1	0.2	<0.1	84	0.37	0.195	12
972463	Soil	0.5	19.6	6.3	57	<0.1	27.8	12.4	354	3.27	3.0	<0.5	2.8	76	<0.1	0.3	<0.1	92	0.43	0.116	20
972464	Soil	0.5	16.5	6.4	82	0.1	24.7	10.9	366	3.05	2.3	<0.5	2.2	67	<0.1	0.2	<0.1	81	0.40	0.178	14

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 08, 2012

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI12000048.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972431	Soil	29	0.62	210	0.047	3	1.53	0.017	0.06	<0.1	0.07	7.0	<0.1	<0.05	5	<0.5	<0.2
972432	Soil	35	0.31	213	0.112	3	2.14	0.012	0.07	<0.1	0.05	3.9	<0.1	<0.05	6	<0.5	<0.2
972434	Soil	36	0.61	164	0.100	3	1.26	0.030	0.06	<0.1	0.04	6.0	<0.1	<0.05	4	<0.5	<0.2
972436	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972437	Soil	16	0.48	106	0.013	4	1.24	0.011	0.04	<0.1	0.13	2.7	<0.1	<0.05	4	<0.5	<0.2
972439	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972440	Soil	31	0.51	176	0.093	2	1.05	0.025	0.06	<0.1	0.02	4.8	<0.1	<0.05	4	<0.5	<0.2
972441	Soil	35	0.52	164	0.098	2	1.17	0.023	0.07	<0.1	0.03	5.2	<0.1	<0.05	4	<0.5	<0.2
972442	Soil	28	0.53	169	0.078	2	1.37	0.021	0.06	<0.1	0.03	5.6	<0.1	<0.05	4	<0.5	<0.2
972443	Soil	28	0.51	188	0.106	2	1.15	0.026	0.05	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
972444	Soil	25	0.47	170	0.106	1	1.12	0.021	0.07	<0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
972445	Soil	29	0.55	181	0.115	2	1.25	0.023	0.07	<0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
972446	Soil	29	0.53	194	0.121	1	1.41	0.023	0.07	<0.1	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
972447	Soil	24	0.38	200	0.109	<1	1.28	0.035	0.06	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
972448	Soil	37	0.71	236	0.116	2	1.59	0.026	0.08	<0.1	0.02	7.2	0.1	<0.05	5	<0.5	<0.2
972449	Soil	40	0.52	281	0.111	2	3.16	0.013	0.09	<0.1	0.03	4.4	<0.1	<0.05	8	<0.5	<0.2
972450	Soil	28	0.59	177	0.102	2	1.46	0.029	0.07	<0.1	0.02	5.9	0.1	<0.05	5	<0.5	<0.2
972451	Soil	36	0.68	186	0.103	2	1.63	0.028	0.07	<0.1	0.02	6.6	0.1	<0.05	5	<0.5	<0.2
972452	Soil	28	0.42	153	0.102	2	0.99	0.029	0.06	<0.1	0.01	5.4	<0.1	<0.05	3	<0.5	<0.2
972453	Soil	42	0.74	242	0.126	2	1.48	0.034	0.08	<0.1	<0.01	5.7	<0.1	<0.05	5	<0.5	<0.2
972455	Soil	40	0.75	246	0.120	2	1.66	0.039	0.06	<0.1	0.02	7.7	0.1	<0.05	5	<0.5	<0.2
972456	Soil	37	0.45	186	0.125	1	1.17	0.030	0.05	<0.1	0.02	6.1	<0.1	<0.05	4	<0.5	<0.2
972457	Soil	44	0.34	250	0.120	2	2.37	0.014	0.10	<0.1	0.02	4.5	<0.1	<0.05	7	<0.5	<0.2
972458	Soil	40	0.37	267	0.118	1	2.75	0.013	0.08	<0.1	0.02	3.8	<0.1	<0.05	7	<0.5	<0.2
972459	Soil	35	0.39	272	0.124	<1	1.35	0.023	0.06	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
972460	Soil	41	0.45	263	0.119	<1	2.26	0.016	0.06	<0.1	<0.01	5.9	<0.1	<0.05	6	<0.5	<0.2
972461	Soil	36	0.39	255	0.134	<1	1.38	0.024	0.06	<0.1	<0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
972462	Soil	44	0.42	285	0.131	2	2.90	0.012	0.12	<0.1	0.02	5.0	<0.1	<0.05	7	<0.5	<0.2
972463	Soil	42	0.50	277	0.137	<1	2.10	0.025	0.09	<0.1	0.01	7.5	<0.1	<0.05	6	<0.5	<0.2
972464	Soil	41	0.41	285	0.130	1	2.17	0.017	0.07	<0.1	0.03	6.0	<0.1	<0.05	6	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000048.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972465	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
972466	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
972467	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
972468	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
972469	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
972470	Soil	0.8	10.1	6.7	89	<0.1	19.4	9.0	597	2.46	1.4	1.1	1.4	42	<0.1	0.2	<0.1	60	0.21	0.162	7
972471	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
972472	Soil	0.8	12.7	6.7	180	<0.1	23.8	9.2	338	2.77	1.9	<0.5	1.8	34	0.1	0.2	<0.1	67	0.20	0.273	7
972473	Soil	0.6	10.9	6.1	71	<0.1	21.5	8.9	252	2.64	2.2	<0.5	1.5	51	<0.1	0.2	<0.1	69	0.27	0.195	7
972474	Soil	0.4	15.9	7.4	77	0.1	18.9	7.9	405	2.16	1.5	<0.5	1.5	82	0.2	0.2	<0.1	56	0.58	0.094	14
972475	Soil	0.8	15.9	6.8	97	<0.1	34.9	12.3	660	3.12	3.8	<0.5	1.6	50	0.1	0.2	<0.1	79	0.29	0.263	8
972476	Soil	0.7	11.7	7.5	120	0.1	26.5	11.0	364	3.11	2.4	<0.5	1.7	39	<0.1	0.2	<0.1	76	0.21	0.280	6
972478	Soil	0.8	13.9	7.0	142	<0.1	28.0	11.6	912	3.08	2.0	7.8	1.9	46	0.2	0.2	<0.1	76	0.25	0.232	9
972479	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
972480	Soil	0.7	13.6	7.4	97	<0.1	27.0	10.7	565	2.92	2.3	<0.5	1.7	65	0.1	0.2	<0.1	74	0.33	0.200	7
972481	Soil	0.8	11.9	8.7	123	<0.1	23.1	10.2	995	2.75	2.2	1.7	1.3	39	0.1	0.2	<0.1	75	0.24	0.173	7
972482	Soil	0.7	11.8	7.8	166	<0.1	22.5	10.0	612	2.87	2.2	<0.5	1.8	29	0.1	0.2	<0.1	72	0.16	0.259	6
972483	Soil	0.5	10.3	7.9	84	<0.1	17.9	8.7	491	2.67	1.8	0.9	1.7	54	0.1	0.2	<0.1	73	0.31	0.071	11
972484	Soil	0.5	19.9	5.7	68	<0.1	31.9	13.6	573	2.94	4.0	<0.5	2.4	91	0.2	0.3	<0.1	90	0.62	0.122	18
972499	Soil	1.2	33.1	9.1	59	0.5	27.7	10.9	745	2.96	11.9	0.7	2.7	154	0.5	0.9	<0.1	72	0.92	0.094	41
972500	Soil	1.0	15.4	8.7	143	0.5	16.5	7.8	159	3.08	3.7	<0.5	2.7	46	0.3	0.5	<0.1	79	0.28	0.442	11
972501	Soil	1.5	18.9	10.1	84	0.2	19.6	11.6	273	3.41	4.5	<0.5	2.4	61	0.3	0.4	0.1	94	0.33	0.301	11
972502	Soil	0.8	19.2	7.6	99	0.1	22.1	14.3	417	3.22	6.9	<0.5	3.2	82	0.2	0.4	<0.1	82	0.56	0.217	16
972503	Soil	0.7	19.8	7.7	126	0.3	16.5	11.0	437	2.61	5.3	<0.5	2.7	78	0.2	0.4	<0.1	51	0.41	0.156	9
972504	Soil	0.8	24.0	7.2	107	0.4	18.2	9.6	519	2.72	7.0	0.6	3.5	75	0.2	0.4	<0.1	65	0.46	0.117	17
972505	Soil	0.6	18.2	9.2	59	<0.1	16.6	8.2	330	2.45	6.7	<0.5	3.0	67	<0.1	0.7	0.1	71	0.51	0.142	23
972506	Soil	0.6	16.9	8.7	90	0.2	15.3	8.2	376	2.38	3.6	<0.5	2.4	58	0.2	0.5	0.1	65	0.40	0.098	18
972507	Soil	0.8	14.5	8.5	106	0.1	20.0	10.7	457	2.91	3.5	<0.5	2.2	51	0.2	0.4	0.1	74	0.37	0.244	13
972508	Soil	0.6	14.8	7.3	66	<0.1	16.0	7.6	295	2.45	4.6	<0.5	2.9	69	0.1	0.4	<0.1	69	0.52	0.127	18
972509	Soil	0.5	14.7	7.2	67	<0.1	16.6	7.5	301	2.46	5.0	<0.5	2.8	70	<0.1	0.5	<0.1	68	0.51	0.121	17

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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972465	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972466	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972467	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972468	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972469	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972470	Soil	34	0.27	264	0.111	<1	2.01	0.013	0.07	<0.1	0.01	3.2	<0.1	<0.05	6	<0.5	<0.2
972471	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972472	Soil	37	0.31	215	0.115	2	2.18	0.013	0.08	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
972473	Soil	37	0.32	215	0.113	<1	1.83	0.017	0.07	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
972474	Soil	33	0.40	193	0.110	1	1.55	0.028	0.07	<0.1	0.05	5.9	0.1	<0.05	5	<0.5	<0.2
972475	Soil	54	0.41	233	0.108	<1	2.37	0.012	0.09	0.1	0.02	4.1	<0.1	<0.05	7	<0.5	<0.2
972476	Soil	41	0.32	219	0.107	2	2.85	0.011	0.09	<0.1	0.04	3.6	<0.1	<0.05	8	<0.5	<0.2
972478	Soil	41	0.35	327	0.128	<1	2.48	0.013	0.08	<0.1	0.01	4.2	<0.1	<0.05	7	<0.5	<0.2
972479	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972480	Soil	38	0.40	356	0.134	1	2.62	0.014	0.09	<0.1	0.03	3.7	<0.1	<0.05	7	<0.5	<0.2
972481	Soil	42	0.32	225	0.115	3	2.21	0.011	0.08	<0.1	0.01	3.3	<0.1	<0.05	7	<0.5	<0.2
972482	Soil	38	0.27	215	0.109	3	2.46	0.012	0.06	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
972483	Soil	36	0.30	185	0.124	3	1.24	0.020	0.11	<0.1	<0.01	4.1	0.1	<0.05	4	<0.5	<0.2
972484	Soil	36	0.70	292	0.115	3	1.12	0.046	0.07	<0.1	<0.01	5.0	<0.1	<0.05	4	<0.5	<0.2
972499	Soil	30	0.67	268	0.057	3	1.93	0.022	0.08	<0.1	0.06	8.7	<0.1	<0.05	6	<0.5	<0.2
972500	Soil	40	0.24	262	0.092	3	2.00	0.011	0.07	<0.1	0.05	3.9	<0.1	<0.05	7	<0.5	<0.2
972501	Soil	42	0.33	200	0.108	2	1.83	0.013	0.12	<0.1	0.04	3.9	<0.1	<0.05	7	<0.5	<0.2
972502	Soil	34	0.52	224	0.102	2	1.88	0.022	0.08	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
972503	Soil	24	0.45	197	0.062	2	1.85	0.013	0.08	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
972504	Soil	29	0.46	214	0.087	1	1.53	0.017	0.09	<0.1	0.02	5.7	<0.1	<0.05	5	<0.5	<0.2
972505	Soil	26	0.39	175	0.092	1	0.96	0.025	0.07	<0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
972506	Soil	26	0.33	177	0.103	2	1.07	0.026	0.07	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
972507	Soil	32	0.34	245	0.107	<1	1.76	0.016	0.08	<0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
972508	Soil	29	0.44	179	0.109	1	1.04	0.029	0.07	<0.1	0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
972509	Soil	29	0.43	185	0.110	1	1.00	0.031	0.07	<0.1	0.01	4.8	<0.1	<0.05	4	<0.5	<0.2

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				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001	1
972511	Soil			1.4	54.4	10.2	62	0.6	34.2	14.9	1574	3.30	12.4	<0.5	2.8	116	0.4	0.9	0.1	91	0.90	0.120	45	
972512	Soil			1.2	18.8	11.6	114	0.2	21.1	11.3	239	3.43	6.5	<0.5	2.7	58	0.1	0.7	0.1	76	0.34	0.426	14	
972513	Soil			0.8	18.7	10.4	134	0.3	26.3	14.0	288	3.46	5.3	89.9	2.7	62	0.2	0.6	0.1	73	0.40	0.382	11	
972514	Soil			1.0	15.7	17.7	160	0.4	18.2	9.0	257	2.95	4.4	2.7	2.6	54	0.2	0.9	0.2	65	0.32	0.207	13	
972515	Soil			1.0	17.9	7.4	77	0.2	21.7	11.8	870	2.84	3.3	0.7	1.9	95	0.5	0.4	<0.1	72	0.72	0.310	15	
972516	Soil			1.1	13.3	8.6	82	0.2	14.3	7.9	629	2.44	1.8	1.1	1.6	41	0.2	0.3	<0.1	67	0.30	0.070	8	
972517	Soil			0.6	20.5	14.2	78	0.4	18.9	6.6	310	2.42	6.3	<0.5	2.1	63	0.1	1.0	0.2	61	0.52	0.057	26	
972518	Soil			0.5	15.3	8.9	52	<0.1	15.5	7.7	294	2.41	4.8	<0.5	3.0	60	<0.1	0.5	0.1	65	0.48	0.114	17	
972520	Soil			0.7	11.9	7.2	57	<0.1	14.4	7.5	439	2.27	3.1	10.2	2.1	60	<0.1	0.5	<0.1	68	0.52	0.084	16	
972521	Soil			1.0	16.7	8.2	109	0.5	22.8	11.3	383	2.94	2.8	<0.5	2.7	38	0.1	0.3	<0.1	68	0.27	0.256	11	
972522	Soil			1.1	11.2	10.1	141	0.1	16.4	8.4	338	3.07	2.4	<0.5	2.5	20	0.2	0.3	0.1	67	0.14	0.468	9	
972523	Soil			1.1	12.7	10.0	149	0.2	21.1	10.2	484	3.08	2.8	<0.5	2.4	21	0.2	0.4	<0.1	73	0.17	0.401	10	
972524	Soil			1.2	15.1	17.8	184	0.2	16.1	8.0	146	3.07	5.8	<0.5	3.1	41	0.2	1.0	0.1	64	0.28	0.487	14	
972525	Soil			0.9	17.1	9.8	145	0.4	27.4	11.5	307	3.16	4.0	<0.5	1.6	39	0.1	0.4	<0.1	75	0.28	0.296	12	
972526	Soil			1.0	16.4	9.2	190	0.2	22.6	10.4	834	3.08	2.9	<0.5	2.5	51	0.2	0.5	0.1	69	0.31	0.314	11	
972527	Soil			0.9	19.6	13.1	113	0.1	31.5	13.3	301	3.36	7.2	<0.5	3.1	50	<0.1	0.8	0.1	76	0.37	0.384	15	
972528	Soil			1.0	18.1	10.6	159	0.2	25.2	11.4	961	3.06	4.0	<0.5	3.0	59	0.2	0.5	0.1	66	0.43	0.264	16	
972529	Soil			0.8	15.1	11.0	143	0.3	20.5	9.8	471	2.88	2.6	<0.5	2.2	55	0.1	0.3	<0.1	64	0.35	0.180	11	
972530	Soil			0.9	16.2	9.5	122	<0.1	23.3	13.4	518	3.25	3.3	<0.5	2.2	61	<0.1	0.4	0.1	80	0.41	0.288	12	
972531	Soil			1.3	14.8	8.6	105	0.2	26.9	12.8	1182	3.33	2.4	<0.5	2.2	35	0.2	0.2	<0.1	81	0.21	0.328	10	
972532	Soil			0.8	16.3	8.2	104	<0.1	29.2	13.2	550	3.44	3.3	21.2	2.9	47	<0.1	0.3	<0.1	84	0.28	0.291	12	
972533	Soil			0.5	15.3	7.1	116	0.2	20.7	6.6	420	2.47	1.4	2.3	1.9	67	0.1	0.2	<0.1	63	0.39	0.049	14	
972534	Soil			0.8	14.2	7.5	153	0.2	23.4	9.1	171	3.21	1.9	1.2	2.1	49	0.1	0.2	<0.1	72	0.25	0.649	7	
972535	Soil			0.6	10.2	11.5	65	<0.1	12.7	5.2	176	2.03	1.6	1.9	1.8	45	<0.1	0.3	0.1	60	0.29	0.060	9	
972536	Soil			0.8	16.9	7.3	113	0.1	28.5	13.1	678	3.39	2.9	0.6	2.5	44	0.1	0.3	<0.1	87	0.32	0.291	13	
972537	Soil			1.0	14.9	9.5	170	0.1	25.9	11.6	509	3.04	2.3	1.2	2.2	44	0.1	0.3	0.1	72	0.29	0.199	11	
972538	Soil			0.9	18.1	9.9	127	0.1	25.6	12.0	493	3.17	2.6	<0.5	3.6	39	<0.1	0.5	0.1	72	0.29	0.267	14	
972539	Soil			1.1	14.4	9.5	163	0.1	25.4	12.2	967	3.25	1.3	4.9	2.6	49	0.1	0.3	<0.1	73	0.31	0.278	10	
972540	Soil			0.9	17.4	7.8	96	<0.1	30.3	13.0	466	3.43	2.5	0.9	2.7	32	<0.1	0.3	<0.1	84	0.25	0.252	10	
972541	Soil			0.7	16.8	9.0	195	<0.1	29.8	10.1	482	3.07	1.0	0.5	2.1	49	<0.1	0.2	<0.1	65	0.27	0.170	11	

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 08, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972511	Soil	43	0.68	231	0.052	<1	1.80	0.022	0.10	<0.1	0.06	9.3	0.1	<0.05	6	<0.5	<0.2
972512	Soil	33	0.34	275	0.071	2	1.98	0.015	0.08	<0.1	0.02	4.2	<0.1	<0.05	7	<0.5	<0.2
972513	Soil	39	0.39	303	0.072	<1	2.44	0.015	0.09	<0.1	0.02	4.7	<0.1	<0.05	8	<0.5	<0.2
972514	Soil	26	0.30	302	0.046	<1	1.68	0.013	0.08	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
972515	Soil	32	0.32	379	0.099	1	1.33	0.014	0.13	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
972516	Soil	30	0.27	156	0.124	1	1.07	0.018	0.10	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
972517	Soil	25	0.37	179	0.063	1	1.22	0.019	0.07	<0.1	0.04	5.0	0.1	<0.05	4	<0.5	<0.2
972518	Soil	25	0.40	151	0.101	<1	0.96	0.029	0.07	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
972520	Soil	28	0.32	162	0.125	1	0.83	0.038	0.06	<0.1	0.02	3.2	<0.1	0.06	3	<0.5	<0.2
972521	Soil	34	0.32	268	0.095	<1	2.33	0.013	0.10	<0.1	0.04	4.1	<0.1	<0.05	7	<0.5	<0.2
972522	Soil	33	0.23	220	0.102	1	2.48	0.011	0.07	<0.1	0.06	4.0	<0.1	0.05	8	<0.5	<0.2
972523	Soil	34	0.24	208	0.090	<1	2.55	0.011	0.06	0.1	0.04	3.3	<0.1	<0.05	7	<0.5	<0.2
972524	Soil	25	0.22	406	0.055	<1	1.81	0.011	0.08	<0.1	0.02	3.3	0.1	<0.05	6	<0.5	<0.2
972525	Soil	35	0.34	260	0.081	<1	2.98	0.017	0.07	<0.1	0.04	3.9	<0.1	<0.05	7	<0.5	<0.2
972526	Soil	34	0.31	293	0.097	<1	2.59	0.012	0.09	<0.1	0.02	4.1	<0.1	<0.05	8	<0.5	<0.2
972527	Soil	31	0.38	276	0.062	<1	2.74	0.011	0.08	<0.1	0.03	4.4	0.1	<0.05	7	<0.5	<0.2
972528	Soil	28	0.38	304	0.073	<1	2.69	0.012	0.09	<0.1	0.05	4.4	<0.1	<0.05	7	<0.5	<0.2
972529	Soil	28	0.35	241	0.079	<1	2.17	0.013	0.07	<0.1	0.03	3.8	<0.1	<0.05	7	<0.5	<0.2
972530	Soil	35	0.36	282	0.100	<1	2.25	0.012	0.08	<0.1	0.03	3.9	0.1	<0.05	7	<0.5	<0.2
972531	Soil	42	0.31	232	0.112	<1	2.76	0.014	0.06	0.1	0.04	4.3	<0.1	<0.05	8	<0.5	<0.2
972532	Soil	43	0.33	289	0.141	1	2.81	0.013	0.07	0.1	0.03	5.3	<0.1	<0.05	7	<0.5	<0.2
972533	Soil	35	0.32	187	0.137	1	1.72	0.017	0.06	<0.1	0.03	6.1	<0.1	<0.05	5	<0.5	<0.2
972534	Soil	42	0.23	335	0.133	2	2.59	0.010	0.07	<0.1	0.04	4.3	<0.1	<0.05	8	<0.5	<0.2
972535	Soil	27	0.26	147	0.134	<1	0.86	0.021	0.05	<0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
972536	Soil	43	0.36	314	0.127	<1	2.56	0.016	0.08	<0.1	0.04	5.2	<0.1	<0.05	7	<0.5	<0.2
972537	Soil	36	0.35	250	0.115	1	3.12	0.014	0.08	0.1	0.04	4.8	<0.1	<0.05	9	<0.5	<0.2
972538	Soil	33	0.31	238	0.102	<1	2.83	0.010	0.09	<0.1	0.03	4.1	<0.1	<0.05	8	<0.5	<0.2
972539	Soil	39	0.29	213	0.111	1	3.09	0.012	0.09	<0.1	0.04	4.1	<0.1	<0.05	8	<0.5	<0.2
972540	Soil	43	0.37	246	0.137	1	3.12	0.013	0.09	<0.1	0.03	4.8	<0.1	<0.05	8	<0.5	<0.2
972541	Soil	43	0.39	321	0.138	1	3.17	0.016	0.10	<0.1	0.02	5.1	<0.1	<0.05	9	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Quartz Mountain Resources Ltd.
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
Report Date: August 08, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
972542	Soil			0.8	15.9	5.7	59	<0.1	28.5	12.8	285	3.21	2.1	7.6	1.9	53	<0.1	0.2	<0.1	92	0.30	0.159	10
972543	Soil			0.5	9.8	8.3	78	<0.1	12.9	5.5	351	2.04	0.6	<0.5	1.9	42	<0.1	0.2	<0.1	52	0.22	0.039	7
972544	Soil			0.3	8.2	6.2	60	<0.1	11.2	4.8	167	1.85	0.5	<0.5	1.4	44	<0.1	0.1	<0.1	47	0.23	0.026	5
972545	Soil			0.4	9.2	6.6	67	<0.1	13.9	5.7	176	2.26	0.8	5.7	1.4	41	<0.1	0.2	<0.1	60	0.26	0.044	6
972546	Soil			0.3	8.4	5.9	49	<0.1	10.4	4.7	184	1.91	0.9	0.7	1.5	49	<0.1	0.2	<0.1	51	0.26	0.021	6
972547	Soil			0.4	8.6	7.0	71	<0.1	14.1	5.8	204	2.15	1.2	<0.5	1.5	43	<0.1	<0.1	<0.1	59	0.24	0.041	7
972548	Soil			0.4	9.5	5.5	50	<0.1	13.7	6.1	237	2.17	1.0	1.8	1.6	59	<0.1	0.2	<0.1	59	0.32	0.041	9
972549	Soil			0.7	12.0	5.8	100	<0.1	24.7	10.5	165	2.83	2.1	<0.5	1.4	39	<0.1	0.2	<0.1	74	0.21	0.150	5
972550	Soil			0.6	13.5	5.4	68	<0.1	26.4	10.3	471	3.03	2.4	0.8	2.0	47	<0.1	0.2	<0.1	82	0.26	0.133	8
972551	Soil			0.7	14.7	6.0	96	<0.1	26.0	11.5	303	3.23	1.6	<0.5	2.2	37	<0.1	0.2	<0.1	85	0.17	0.126	7
972552	Soil			0.6	12.0	6.7	70	<0.1	25.0	10.9	167	3.11	2.9	<0.5	1.6	40	<0.1	0.1	<0.1	68	0.26	0.235	7
972553	Soil			0.4	9.6	6.2	36	<0.1	12.6	7.8	291	2.06	2.0	<0.5	2.2	75	<0.1	0.1	<0.1	56	0.44	0.104	14
972554	Soil			0.5	14.7	6.8	76	<0.1	27.1	11.1	267	3.14	2.0	<0.5	1.8	53	<0.1	0.2	<0.1	83	0.35	0.138	13
972555	Soil			0.4	15.0	5.5	52	<0.1	21.2	8.9	200	2.57	2.4	<0.5	2.0	71	<0.1	0.2	<0.1	73	0.35	0.103	12
972556	Soil			0.3	8.6	7.2	55	<0.1	11.6	4.8	139	1.78	0.8	0.6	1.6	57	<0.1	0.1	<0.1	45	0.40	0.042	7
972557	Soil			0.8	13.7	6.5	167	<0.1	24.4	11.3	434	3.06	1.6	<0.5	2.0	48	0.1	0.2	<0.1	78	0.33	0.295	8
972558	Soil			0.7	13.1	6.0	115	<0.1	29.9	13.0	291	3.45	3.0	<0.5	2.5	51	<0.1	0.3	<0.1	96	0.39	0.453	11
972559	Soil			0.3	10.9	6.6	46	<0.1	14.4	5.6	203	2.10	1.6	1.1	1.9	60	<0.1	0.1	<0.1	56	0.33	0.036	11
972560	Soil			0.3	9.3	6.2	39	<0.1	11.0	4.9	184	1.86	1.1	<0.5	1.9	67	<0.1	0.2	<0.1	52	0.33	0.034	8
972561	Soil			0.6	15.0	6.6	76	<0.1	24.8	10.7	306	3.05	3.0	0.9	2.2	53	<0.1	0.2	<0.1	77	0.30	0.143	9
972562	Soil			0.7	15.2	7.1	138	<0.1	31.3	11.5	485	3.22	2.2	<0.5	2.2	50	<0.1	0.2	<0.1	73	0.30	0.215	7
972563	Soil			1.0	13.3	6.3	138	<0.1	26.6	9.5	165	3.00	2.2	<0.5	0.3	38	0.1	0.2	<0.1	70	0.22	0.237	6
972564	Soil			0.6	12.8	5.8	147	<0.1	23.0	9.2	201	2.99	1.8	<0.5	1.9	55	0.1	0.2	<0.1	72	0.38	0.368	8
972565	Soil			0.8	14.1	5.8	116	<0.1	27.5	10.9	373	3.19	1.9	<0.5	2.0	29	<0.1	0.2	<0.1	80	0.16	0.191	6
972566	Soil			0.6	16.2	5.5	57	<0.1	28.5	10.9	277	3.14	2.4	7.9	2.6	60	<0.1	0.2	<0.1	84	0.27	0.110	11
972567	Soil			0.7	15.9	5.8	77	<0.1	32.8	14.2	210	3.34	2.7	<0.5	0.5	45	<0.1	0.2	<0.1	86	0.21	0.154	8
972568	Soil			0.8	12.3	7.0	95	<0.1	29.0	11.4	213	3.20	1.6	0.7	1.6	44	<0.1	0.2	<0.1	75	0.23	0.163	5
972569	Soil			0.9	13.6	6.8	130	<0.1	28.3	12.2	272	3.06	2.4	2.1	1.5	33	0.1	0.2	<0.1	72	0.21	0.210	6
972570	Soil			0.6	17.5	6.1	73	<0.1	34.3	13.7	366	3.48	2.6	<0.5	2.8	57	<0.1	0.2	0.1	96	0.33	0.152	10
972571	Soil			0.4	14.1	7.1	88	<0.1	30.7	12.1	590	3.36	2.2	1.2	1.9	57	<0.1	0.2	<0.1	83	0.29	0.121	8

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972542	Soil	44	0.33	258	0.158	2	1.97	0.020	0.08	<0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
972543	Soil	28	0.24	180	0.141	<1	1.27	0.017	0.05	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
972544	Soil	26	0.25	157	0.131	<1	1.09	0.022	0.04	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
972545	Soil	33	0.24	150	0.147	<1	1.03	0.021	0.06	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
972546	Soil	27	0.26	151	0.127	<1	0.90	0.023	0.05	<0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
972547	Soil	32	0.26	179	0.136	<1	1.30	0.018	0.05	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
972548	Soil	31	0.34	176	0.127	1	1.11	0.022	0.05	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
972549	Soil	41	0.29	234	0.126	1	2.52	0.013	0.06	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
972550	Soil	42	0.33	232	0.132	1	2.12	0.015	0.06	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
972551	Soil	49	0.32	247	0.155	1	2.70	0.017	0.07	<0.1	0.02	4.4	<0.1	<0.05	7	<0.5	<0.2
972552	Soil	40	0.31	267	0.123	1	2.43	0.015	0.06	<0.1	0.02	3.5	<0.1	<0.05	7	<0.5	<0.2
972553	Soil	32	0.30	204	0.133	1	1.12	0.042	0.06	<0.1	0.02	3.5	<0.1	<0.05	3	<0.5	<0.2
972554	Soil	45	0.42	257	0.139	1	2.53	0.020	0.07	<0.1	0.02	5.2	<0.1	<0.05	7	<0.5	<0.2
972555	Soil	40	0.41	270	0.138	1	1.68	0.022	0.05	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
972556	Soil	32	0.37	139	0.142	2	1.02	0.029	0.06	<0.1	0.01	2.8	<0.1	0.07	4	<0.5	<0.2
972557	Soil	43	0.33	276	0.133	2	1.94	0.013	0.07	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
972558	Soil	53	0.40	246	0.120	1	2.39	0.014	0.06	<0.1	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
972559	Soil	32	0.33	144	0.141	1	1.08	0.026	0.06	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
972560	Soil	31	0.31	175	0.134	<1	0.96	0.034	0.05	<0.1	0.01	3.8	<0.1	<0.05	3	<0.5	<0.2
972561	Soil	43	0.39	293	0.133	2	2.30	0.015	0.07	<0.1	0.03	3.9	<0.1	<0.05	6	<0.5	<0.2
972562	Soil	42	0.38	314	0.138	2	3.40	0.012	0.10	<0.1	0.04	4.5	<0.1	<0.05	9	<0.5	<0.2
972563	Soil	39	0.30	227	0.072	1	2.85	0.013	0.05	<0.1	0.05	2.2	<0.1	<0.05	8	<0.5	<0.2
972564	Soil	40	0.31	225	0.121	1	2.28	0.015	0.06	<0.1	0.03	4.0	<0.1	<0.05	7	<0.5	<0.2
972565	Soil	43	0.33	178	0.136	1	2.66	0.013	0.07	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
972566	Soil	46	0.43	344	0.147	1	2.73	0.014	0.07	<0.1	0.02	5.1	<0.1	<0.05	7	<0.5	<0.2
972567	Soil	45	0.34	270	0.100	2	3.30	0.015	0.05	<0.1	0.02	3.0	<0.1	<0.05	8	<0.5	<0.2
972568	Soil	48	0.31	219	0.145	1	2.59	0.013	0.06	<0.1	0.02	3.7	<0.1	<0.05	7	<0.5	<0.2
972569	Soil	42	0.32	214	0.114	2	2.91	0.014	0.06	<0.1	0.03	3.5	<0.1	<0.05	8	<0.5	<0.2
972570	Soil	50	0.53	348	0.161	2	3.03	0.015	0.08	<0.1	0.02	5.0	<0.1	0.06	7	<0.5	<0.2
972571	Soil	47	0.37	294	0.155	2	2.86	0.015	0.08	<0.1	0.03	5.6	<0.1	<0.05	7	<0.5	<0.2

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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: August 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000048.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972572	Soil	0.7	13.1	6.2	62	<0.1	24.0	10.1	391	3.10	2.4	<0.5	1.8	47	<0.1	0.2	<0.1	81	0.22	0.114	6
972573	Soil	0.5	15.9	5.6	65	<0.1	28.0	11.8	356	3.07	3.6	118.4	2.3	55	<0.1	0.3	<0.1	81	0.34	0.176	12
972576	Soil	0.7	19.3	5.7	75	<0.1	26.8	13.8	627	3.15	5.3	8.4	2.2	104	0.3	0.3	0.1	91	0.75	0.169	19
972577	Soil	0.6	14.5	5.5	61	<0.1	25.1	12.7	653	3.01	3.8	1.2	1.9	87	<0.1	0.2	<0.1	89	0.63	0.166	16
972578	Soil	0.6	16.7	5.9	72	<0.1	25.8	13.1	703	2.93	4.7	1.9	2.2	118	0.2	0.3	<0.1	83	0.77	0.146	17
972579	Soil	1.0	22.2	7.0	112	0.1	24.2	14.2	1099	3.24	3.7	1.8	2.4	69	0.2	0.2	<0.1	80	0.48	0.257	13
972580	Soil	0.7	19.7	7.3	126	0.1	24.7	14.3	595	3.42	3.8	0.7	2.3	79	0.2	0.3	<0.1	86	0.54	0.219	12
972581	Soil	0.7	18.5	6.2	76	<0.1	30.4	15.1	620	3.35	4.6	0.5	2.8	103	<0.1	0.3	<0.1	90	0.63	0.171	17
972582	Soil	0.7	17.0	5.9	72	<0.1	29.6	14.4	697	3.25	4.9	0.6	2.6	99	0.1	0.4	<0.1	93	0.66	0.147	18
972583	Soil	0.6	17.9	5.4	60	<0.1	33.1	14.2	676	3.28	4.0	2.0	2.2	98	<0.1	0.3	<0.1	97	0.64	0.141	20
972584	Soil	0.7	19.6	5.7	87	<0.1	30.6	14.4	709	3.14	4.1	3.1	2.1	104	0.4	0.3	<0.1	86	0.84	0.171	16
972585	Soil	0.8	20.2	5.8	85	<0.1	29.3	14.6	808	3.22	3.0	3.8	1.9	95	0.4	0.3	<0.1	86	0.72	0.156	14
972586	Soil	0.6	16.8	5.7	72	<0.1	27.4	14.2	750	3.18	4.9	2.9	2.3	94	0.2	0.3	<0.1	94	0.69	0.148	16
972587	Soil	0.8	22.1	6.2	61	<0.1	30.2	14.6	758	3.18	4.9	2.7	2.5	97	0.1	0.3	<0.1	90	0.64	0.129	20
972588	Soil	0.7	18.0	6.0	72	<0.1	28.0	13.4	617	3.17	4.2	1.1	2.3	100	0.2	0.4	<0.1	88	0.81	0.159	18
972589	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972574	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972575	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
972572	Soil	42	0.34	273	0.150	2	2.55	0.014	0.06	0.1	0.02	3.5	<0.1	<0.05	7	<0.5	<0.2
972573	Soil	37	0.45	249	0.143	2	2.05	0.018	0.07	0.1	0.04	5.6	<0.1	<0.05	6	<0.5	<0.2
972576	Soil	37	0.68	306	0.141	2	1.44	0.052	0.10	<0.1	0.04	5.7	0.1	<0.05	5	<0.5	<0.2
972577	Soil	43	0.65	270	0.140	2	1.25	0.037	0.14	<0.1	0.02	4.8	<0.1	<0.05	4	<0.5	<0.2
972578	Soil	34	0.70	344	0.142	2	1.46	0.042	0.15	<0.1	0.04	5.7	<0.1	<0.05	5	<0.5	<0.2
972579	Soil	35	0.56	315	0.154	2	1.87	0.031	0.14	<0.1	0.03	5.7	<0.1	<0.05	6	<0.5	<0.2
972580	Soil	37	0.59	307	0.162	2	1.91	0.035	0.10	<0.1	0.02	5.5	<0.1	<0.05	6	<0.5	<0.2
972581	Soil	39	0.70	370	0.151	2	1.69	0.040	0.12	<0.1	0.03	6.5	<0.1	<0.05	5	<0.5	<0.2
972582	Soil	41	0.74	318	0.147	2	1.43	0.045	0.10	<0.1	0.03	5.5	<0.1	<0.05	5	<0.5	<0.2
972583	Soil	46	0.76	293	0.149	2	1.30	0.050	0.10	<0.1	0.03	6.0	<0.1	<0.05	5	<0.5	<0.2
972584	Soil	41	0.70	263	0.148	3	1.35	0.042	0.16	<0.1	0.03	5.5	<0.1	<0.05	5	<0.5	<0.2
972585	Soil	43	0.63	273	0.139	3	1.32	0.038	0.13	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
972586	Soil	42	0.69	267	0.145	2	1.28	0.045	0.11	<0.1	0.08	5.0	<0.1	<0.05	5	<0.5	<0.2
972587	Soil	38	0.72	306	0.143	2	1.53	0.049	0.10	<0.1	0.03	6.2	0.1	<0.05	5	<0.5	<0.2
972588	Soil	39	0.72	249	0.147	3	1.35	0.045	0.21	<0.1	0.04	5.5	<0.1	<0.05	5	<0.5	<0.2
972589	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972574	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
972575	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: Quartz Mountain Resources Ltd.
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
Report Date: August 08, 2012

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QUALITY CONTROL REPORT

SMI12000048.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
972437	Soil	0.9	22.2	2.1	38	0.3	19.0	3.3	92	1.14	1.3	<0.5	0.4	157	0.2	0.5	<0.1	25	1.61	0.075	30
REP 972437	QC	1.0	23.5	2.3	41	0.3	21.3	3.5	100	1.17	0.9	1.6	0.4	153	0.2	0.7	<0.1	28	1.70	0.077	32
972464	Soil	0.5	16.5	6.4	82	0.1	24.7	10.9	366	3.05	2.3	<0.5	2.2	67	<0.1	0.2	<0.1	81	0.40	0.178	14
REP 972464	QC	0.5	16.0	6.9	86	0.1	24.0	10.7	362	3.00	3.1	<0.5	2.2	66	<0.1	0.2	<0.1	77	0.38	0.176	13
972484	Soil	0.5	19.9	5.7	68	<0.1	31.9	13.6	573	2.94	4.0	<0.5	2.4	91	0.2	0.3	<0.1	90	0.62	0.122	18
REP 972484	QC	0.6	19.8	5.8	68	<0.1	31.2	13.4	592	2.97	3.7	<0.5	2.5	92	0.3	0.4	<0.1	89	0.63	0.127	19
972523	Soil	1.1	12.7	10.0	149	0.2	21.1	10.2	484	3.08	2.8	<0.5	2.4	21	0.2	0.4	<0.1	73	0.17	0.401	10
REP 972523	QC	0.8	12.3	9.9	145	0.2	19.9	9.9	466	2.95	3.1	<0.5	2.4	20	0.2	0.4	<0.1	68	0.16	0.380	9
972534	Soil	0.8	14.2	7.5	153	0.2	23.4	9.1	171	3.21	1.9	1.2	2.1	49	0.1	0.2	<0.1	72	0.25	0.649	7
REP 972534	QC	0.7	13.7	7.6	152	0.2	22.8	8.7	163	3.09	1.7	<0.5	2.1	50	0.2	0.2	<0.1	68	0.24	0.645	7
972538	Soil	0.9	18.1	9.9	127	0.1	25.6	12.0	493	3.17	2.6	<0.5	3.6	39	<0.1	0.5	0.1	72	0.29	0.267	14
REP 972538	QC	1.0	17.5	9.3	132	0.1	25.2	12.1	514	3.14	2.2	2.2	3.6	39	<0.1	0.5	0.1	70	0.30	0.288	13
972542	Soil	0.8	15.9	5.7	59	<0.1	28.5	12.8	285	3.21	2.1	7.6	1.9	53	<0.1	0.2	<0.1	92	0.30	0.159	10
REP 972542	QC	0.8	15.5	5.7	57	<0.1	27.3	12.7	294	3.00	2.3	<0.5	1.8	53	<0.1	0.3	<0.1	87	0.29	0.169	10
972571	Soil	0.4	14.1	7.1	88	<0.1	30.7	12.1	590	3.36	2.2	1.2	1.9	57	<0.1	0.2	<0.1	83	0.29	0.121	8
REP 972571	QC	0.6	14.0	7.2	88	<0.1	29.3	12.0	607	3.35	2.2	0.9	2.0	56	<0.1	0.2	<0.1	84	0.28	0.120	8
Reference Materials																					
STD DS9	Standard	11.7	107.4	125.5	300	1.8	40.1	7.5	557	2.25	25.4	126.9	5.5	62	2.4	5.1	5.9	40	0.68	0.082	11
STD DS9	Standard	14.9	110.6	128.9	315	1.8	42.8	8.3	621	2.46	25.3	113.5	6.6	77	2.3	5.3	6.1	50	0.81	0.078	14
STD DS9	Standard	11.8	107.2	126.1	293	1.8	39.9	7.7	546	2.23	23.3	101.5	5.4	58	2.0	5.0	5.3	39	0.68	0.076	10
STD DS9	Standard	14.0	108.4	124.1	301	1.8	41.1	7.6	568	2.29	24.7	118.7	6.3	73	2.4	5.1	5.7	42	0.75	0.081	15
STD DS9	Standard	12.8	109.1	120.1	303	2.0	41.9	7.6	587	2.32	25.9	120.8	6.6	73	2.3	5.6	6.6	45	0.72	0.085	14
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	0.002	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**

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QUALITY CONTROL REPORT

SMI12000048.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
972437	Soil	16	0.48	106	0.013	4	1.24	0.011	0.04	<0.1	0.13	2.7	<0.1	<0.05	4	<0.5	<0.2
REP 972437	QC	18	0.49	110	0.022	6	1.30	0.011	0.04	<0.1	0.12	4.0	<0.1	<0.05	4	<0.5	<0.2
972464	Soil	41	0.41	285	0.130	1	2.17	0.017	0.07	<0.1	0.03	6.0	<0.1	<0.05	6	<0.5	<0.2
REP 972464	QC	39	0.39	279	0.121	<1	2.03	0.018	0.07	0.1	0.02	5.6	<0.1	<0.05	6	<0.5	<0.2
972484	Soil	36	0.70	292	0.115	3	1.12	0.046	0.07	<0.1	<0.01	5.0	<0.1	<0.05	4	<0.5	<0.2
REP 972484	QC	36	0.73	286	0.118	3	1.13	0.038	0.07	<0.1	0.01	5.0	<0.1	<0.05	4	<0.5	<0.2
972523	Soil	34	0.24	208	0.090	<1	2.55	0.011	0.06	0.1	0.04	3.3	<0.1	<0.05	7	<0.5	<0.2
REP 972523	QC	32	0.23	206	0.087	<1	2.43	0.011	0.06	<0.1	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2
972534	Soil	42	0.23	335	0.133	2	2.59	0.010	0.07	<0.1	0.04	4.3	<0.1	<0.05	8	<0.5	<0.2
REP 972534	QC	39	0.23	336	0.128	2	2.55	0.010	0.06	0.1	0.03	4.3	<0.1	<0.05	8	<0.5	<0.2
972538	Soil	33	0.31	238	0.102	<1	2.83	0.010	0.09	<0.1	0.03	4.1	<0.1	<0.05	8	<0.5	<0.2
REP 972538	QC	32	0.31	237	0.098	<1	3.06	0.011	0.08	<0.1	0.03	4.1	<0.1	<0.05	8	<0.5	<0.2
972542	Soil	44	0.33	258	0.158	2	1.97	0.020	0.08	<0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
REP 972542	QC	43	0.34	260	0.155	1	2.08	0.020	0.08	<0.1	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
972571	Soil	47	0.37	294	0.155	2	2.86	0.015	0.08	<0.1	0.03	5.6	<0.1	<0.05	7	<0.5	<0.2
REP 972571	QC	47	0.38	292	0.151	2	2.89	0.014	0.08	<0.1	0.03	5.5	<0.1	<0.05	7	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	121	0.61	284	0.099	2	0.87	0.078	0.35	3.1	0.23	2.3	5.7	<0.05	4	5.1	5.3
STD DS9	Standard	134	0.67	294	0.125	4	0.98	0.091	0.37	3.1	0.21	2.9	5.7	0.14	5	5.6	5.5
STD DS9	Standard	119	0.61	267	0.097	2	0.86	0.079	0.35	3.0	0.22	2.2	5.7	<0.05	4	5.3	4.8
STD DS9	Standard	125	0.63	306	0.123	3	0.96	0.089	0.37	3.2	0.20	2.9	5.5	0.12	5	5.6	5.0
STD DS9	Standard	123	0.63	312	0.123	3	0.95	0.087	0.35	2.9	0.23	2.6	5.7	0.10	5	5.5	5.0
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Ted Oliver
Receiving Lab: Canada-Smithers
Received: July 03, 2012
Report Date: July 25, 2012
Page: 1 of 6

CERTIFICATE OF ANALYSIS

SMI12000049.1

CLIENT JOB INFORMATION

Project: Buck
Shipment ID: WA1
P.O. Number: QZM-Buck-003
Number of Samples: 149

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	149	Dry at 60C			SMI
SS80	149	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	149	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC: Data Email



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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 25, 2012

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CERTIFICATE OF ANALYSIS

SMI12000049.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972590	Soil	0.6	31.7	11.0	133	0.1	51.9	20.7	812	3.93	8.8	12.9	0.8	33	0.5	0.7	0.3	96	0.39	0.072	7
972591	Soil	0.4	15.7	9.1	91	0.1	26.9	11.8	943	2.99	7.9	1.9	0.6	29	0.3	1.0	0.2	65	0.47	0.090	6
972592	Soil	0.4	38.2	11.5	132	0.2	30.4	13.8	1148	3.37	13.4	4.0	1.1	31	0.7	1.2	0.2	70	0.54	0.053	10
972593	Soil	0.5	50.6	12.2	156	0.3	60.3	22.0	1208	4.37	15.7	<0.5	1.0	32	0.7	3.4	0.3	98	0.48	0.050	11
972594	Soil	0.4	69.1	46.7	301	0.5	75.5	26.8	1948	4.97	12.1	10.5	1.2	35	1.3	2.3	0.7	120	0.50	0.061	14
972595	Soil	0.5	72.9	64.2	396	0.9	44.0	18.9	1457	3.78	18.4	31.6	1.0	59	1.9	1.9	0.8	77	0.96	0.086	11
972596	Soil	0.5	48.3	37.7	227	0.5	34.6	14.1	917	3.45	14.8	2.2	1.7	51	0.7	1.9	0.3	69	0.64	0.073	12
972597	Soil	0.8	29.4	14.0	139	0.3	22.5	11.7	1084	2.92	5.8	1.1	0.9	54	1.0	0.6	0.2	64	0.52	0.087	11
972598	Soil	0.8	46.3	16.2	261	1.5	19.6	10.1	1300	3.22	16.8	29.1	0.6	39	0.9	4.8	0.6	56	0.50	0.067	11
972599	Soil	0.6	16.6	9.8	173	0.2	19.0	9.9	759	2.82	11.2	9.3	0.4	46	1.0	1.0	0.2	61	0.41	0.065	6
972600	Soil	0.5	19.6	13.7	195	0.2	19.2	10.7	1020	2.93	17.3	10.1	0.7	31	0.7	1.7	0.3	57	0.36	0.072	6
972601	Soil	0.4	17.6	8.0	97	<0.1	18.4	9.7	618	2.73	10.3	<0.5	1.0	36	0.4	1.0	<0.1	58	0.32	0.082	7
972602	Soil	0.6	15.0	8.0	158	0.3	18.8	8.9	566	2.64	6.1	<0.5	0.7	32	1.8	0.5	<0.1	57	0.35	0.172	5
972603	Soil	0.4	12.6	8.7	105	<0.1	18.4	8.9	352	2.82	8.1	<0.5	0.9	18	0.2	0.8	<0.1	62	0.20	0.149	5
972604	Soil	0.4	11.5	7.4	153	<0.1	23.1	9.8	637	2.77	4.0	0.8	0.8	23	0.2	0.6	<0.1	49	0.24	0.150	5
972605	Soil	0.4	7.9	9.1	136	0.1	10.8	6.2	625	1.94	2.2	0.5	0.8	26	0.2	0.4	0.1	43	0.28	0.101	6
972606	Soil	0.4	10.2	7.2	161	<0.1	14.3	7.1	519	2.30	3.9	<0.5	0.4	23	0.4	0.7	<0.1	50	0.23	0.080	6
972607	Soil	0.3	11.4	9.0	202	<0.1	16.8	7.6	511	2.35	4.5	3.9	0.5	25	0.7	1.0	0.1	56	0.32	0.061	5
972608	Soil	0.3	7.5	8.2	130	<0.1	13.6	6.7	497	2.05	2.4	1.2	0.6	19	0.3	0.7	<0.1	48	0.22	0.054	5
972609	Soil	0.2	6.1	6.5	192	0.2	11.7	4.9	290	1.65	1.7	3.4	0.8	40	0.7	0.4	0.1	38	0.35	0.084	6
972610	Soil	0.3	12.0	7.5	103	<0.1	18.7	7.1	433	2.21	4.3	0.8	0.8	44	0.8	0.7	<0.1	50	0.48	0.055	6
972611	Soil	0.4	23.5	8.5	77	<0.1	21.5	8.8	507	2.82	12.9	1.0	1.2	34	0.3	0.9	<0.1	62	0.41	0.047	9
972612	Soil	0.5	24.6	9.1	69	0.1	20.9	9.9	613	2.94	13.8	4.4	1.5	42	0.2	1.1	<0.1	62	0.43	0.082	10
972613	Soil	0.5	27.8	8.8	74	0.1	22.8	10.6	697	2.89	12.8	1.9	1.5	52	0.3	1.0	<0.1	59	0.66	0.083	9
972614	Soil	0.7	30.3	11.9	91	0.1	25.1	11.8	818	3.05	16.7	5.0	1.4	49	0.5	1.3	<0.1	61	0.68	0.085	9
972615	Soil	0.5	20.8	8.0	71	0.1	19.1	9.1	564	2.49	10.4	1.5	1.0	54	0.3	0.8	<0.1	49	0.70	0.076	8
972616	Soil	0.7	28.4	9.3	94	0.1	24.5	11.2	798	2.88	10.4	1.9	1.3	60	0.7	0.9	<0.1	57	0.68	0.099	10
972617	Soil	0.6	28.5	8.8	80	0.2	24.2	11.7	645	2.90	10.6	1.2	1.9	79	0.4	0.9	0.1	62	0.74	0.101	12
972618	Soil	0.7	26.8	9.2	79	0.2	26.6	11.7	624	3.05	11.9	2.0	1.7	75	0.3	0.9	0.1	64	0.78	0.100	12
972619	Soil	0.7	33.5	11.3	93	0.2	27.6	12.7	602	3.28	12.4	2.8	2.6	79	0.3	1.2	0.2	71	0.76	0.115	15

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 25, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972590	Soil	93	1.69	164	0.038	2	2.50	0.012	0.05	0.1	0.04	10.8	<0.1	<0.05	9	<0.5	<0.2
972591	Soil	40	0.56	255	0.043	3	1.31	0.009	0.16	0.2	0.04	5.2	<0.1	<0.05	4	<0.5	<0.2
972592	Soil	37	0.57	264	0.038	3	1.81	0.011	0.15	0.2	0.04	8.4	0.1	<0.05	5	<0.5	<0.2
972593	Soil	72	1.16	265	0.018	3	2.07	0.009	0.11	0.4	0.08	12.2	0.2	<0.05	7	<0.5	<0.2
972594	Soil	88	2.24	453	0.010	2	3.31	0.008	0.08	0.3	0.05	16.5	0.2	<0.05	10	<0.5	<0.2
972595	Soil	47	1.15	468	0.036	5	1.86	0.017	0.17	0.2	0.07	12.1	<0.1	<0.05	6	<0.5	<0.2
972596	Soil	34	0.62	320	0.064	4	1.72	0.017	0.22	0.2	0.08	8.5	<0.1	<0.05	5	<0.5	<0.2
972597	Soil	28	0.45	313	0.068	2	1.45	0.017	0.16	<0.1	0.03	5.1	<0.1	<0.05	5	<0.5	<0.2
972598	Soil	23	0.37	402	0.032	3	1.19	0.008	0.15	0.3	0.20	5.2	0.2	<0.05	4	<0.5	<0.2
972599	Soil	28	0.41	256	0.058	3	1.29	0.012	0.10	0.1	0.06	3.4	<0.1	<0.05	5	<0.5	<0.2
972600	Soil	23	0.42	227	0.042	3	1.30	0.009	0.12	0.2	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
972601	Soil	23	0.43	180	0.075	<1	1.11	0.013	0.06	0.2	0.07	4.3	<0.1	<0.05	4	<0.5	<0.2
972602	Soil	36	0.49	166	0.051	2	1.41	0.011	0.07	<0.1	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
972603	Soil	29	0.40	139	0.051	1	1.60	0.008	0.05	0.2	0.03	4.0	<0.1	<0.05	6	<0.5	<0.2
972604	Soil	36	0.58	201	0.052	2	1.40	0.009	0.06	0.2	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
972605	Soil	21	0.33	165	0.071	2	1.00	0.008	0.10	0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
972606	Soil	24	0.35	136	0.057	2	1.07	0.008	0.06	0.2	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
972607	Soil	27	0.43	132	0.059	2	0.94	0.008	0.07	0.2	0.06	2.9	<0.1	<0.05	4	<0.5	<0.2
972608	Soil	24	0.32	137	0.066	1	0.87	0.008	0.09	0.2	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
972609	Soil	18	0.28	157	0.064	2	0.90	0.008	0.07	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
972610	Soil	21	0.33	158	0.066	2	1.07	0.010	0.07	0.1	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
972611	Soil	26	0.47	163	0.067	2	1.32	0.016	0.12	0.1	0.02	6.4	<0.1	<0.05	4	<0.5	<0.2
972612	Soil	23	0.47	142	0.070	2	1.17	0.020	0.10	0.1	0.06	6.2	<0.1	<0.05	4	<0.5	<0.2
972613	Soil	22	0.51	167	0.066	2	1.17	0.024	0.10	0.1	0.05	6.0	<0.1	<0.05	4	<0.5	<0.2
972614	Soil	24	0.58	137	0.062	2	1.21	0.021	0.09	0.2	0.07	6.2	<0.1	<0.05	4	<0.5	<0.2
972615	Soil	19	0.54	121	0.052	3	1.09	0.018	0.10	0.1	0.07	5.1	<0.1	<0.05	3	<0.5	<0.2
972616	Soil	23	0.63	145	0.063	3	1.36	0.027	0.09	0.2	0.06	6.1	<0.1	<0.05	4	<0.5	<0.2
972617	Soil	25	0.68	210	0.083	2	1.40	0.027	0.10	<0.1	0.05	5.9	<0.1	<0.05	5	<0.5	<0.2
972618	Soil	27	0.72	187	0.074	3	1.60	0.027	0.10	<0.1	0.05	6.5	<0.1	<0.05	5	<0.5	<0.2
972619	Soil	28	0.81	217	0.102	3	1.69	0.031	0.11	<0.1	0.05	7.0	<0.1	<0.05	5	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 25, 2012

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CERTIFICATE OF ANALYSIS

SMI12000049.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972620	Soil		0.8	31.7	10.3	91	0.2	28.6	13.7	785	3.31	14.0	3.7	2.2	66	0.3	1.2	0.1	71	0.72	0.113	14
972621	Soil		0.7	33.0	9.4	89	0.2	26.6	12.6	642	3.07	10.1	1.7	2.2	79	0.3	1.2	0.1	70	0.83	0.119	15
972622	Soil		0.9	36.2	10.4	92	0.3	36.3	14.9	905	3.51	13.6	1.8	1.8	61	0.4	1.1	0.1	67	0.59	0.080	12
972623	Soil		0.7	31.3	8.2	269	0.2	28.0	13.4	890	3.46	12.2	5.4	1.1	34	0.8	1.4	0.2	66	0.29	0.069	9
972624	Soil		0.4	23.5	6.5	234	0.1	15.0	11.3	775	3.07	8.2	29.0	<0.1	21	0.5	1.3	0.2	71	0.26	0.094	6
972625	Soil		0.3	10.1	6.0	219	0.1	17.1	9.2	646	3.01	8.3	16.9	0.7	20	0.5	1.1	0.2	64	0.24	0.027	6
972626	Soil		0.4	11.5	6.8	123	0.1	18.8	8.1	340	2.50	4.6	1.0	0.9	20	0.2	0.4	0.1	56	0.22	0.024	6
972627	Soil		0.4	12.1	12.6	66	0.2	20.7	5.9	228	3.84	7.7	0.9	1.2	16	0.1	2.0	0.2	49	0.14	0.022	17
972628	Soil		0.5	9.9	5.4	111	0.1	19.0	7.1	266	2.49	4.5	0.8	0.7	20	0.3	0.4	<0.1	58	0.21	0.026	5
972629	Soil		0.6	196.3	12.2	1859	4.0	45.4	13.6	981	4.13	13.3	9.6	1.8	46	5.0	1.5	0.3	88	0.90	0.065	29
972630	Soil		0.5	13.4	7.2	121	0.2	51.6	18.6	1062	3.94	3.0	<0.5	0.5	16	0.5	0.6	<0.1	53	0.30	0.081	4
972631	Soil		0.8	16.3	5.8	93	0.4	30.3	11.2	942	3.28	5.6	1.3	0.5	18	0.4	0.8	<0.1	81	0.35	0.035	5
972632	Soil		0.4	15.0	6.0	247	0.2	26.2	10.8	1066	2.73	2.8	8.1	0.5	19	0.6	0.4	<0.1	61	0.24	0.207	5
972633	Soil		0.5	11.3	7.1	187	0.3	19.7	9.2	549	2.63	14.8	1.8	0.8	16	0.9	0.5	0.1	61	0.20	0.047	5
972634	Soil		0.5	14.4	6.6	200	0.2	20.0	7.6	484	2.46	5.8	7.4	0.7	19	0.7	0.5	0.1	53	0.27	0.082	6
972635	Soil		0.4	15.2	7.6	150	0.1	33.8	10.4	405	2.86	5.7	<0.5	0.8	19	0.2	1.0	<0.1	65	0.21	0.131	6
972636	Soil		0.5	15.5	5.7	62	<0.1	21.4	8.4	320	2.60	7.8	0.6	0.9	21	0.1	0.5	<0.1	57	0.23	0.059	5
972637	Soil		0.4	7.4	5.5	100	0.1	12.2	4.8	170	1.85	2.8	3.0	0.7	15	0.2	0.3	0.1	44	0.16	0.048	5
972638	Soil		0.3	11.3	5.1	51	<0.1	14.9	5.4	253	1.95	4.5	0.7	1.0	27	<0.1	0.3	<0.1	44	0.29	0.052	6
972639	Soil		0.2	12.2	6.2	48	<0.1	15.3	5.6	302	2.01	5.3	<0.5	1.2	31	<0.1	0.3	<0.1	47	0.31	0.065	7
972640	Soil		0.4	12.0	6.2	79	0.1	18.7	7.7	372	2.45	5.0	1.5	0.9	24	0.1	0.4	<0.1	54	0.22	0.059	6
972641	Soil		0.4	10.4	6.0	114	0.1	16.0	7.8	484	2.29	3.1	<0.5	0.7	27	0.3	0.3	<0.1	49	0.25	0.120	6
972642	Soil		0.5	12.5	7.7	151	0.2	17.8	8.6	395	2.44	3.8	1.6	0.7	26	0.5	0.3	0.1	54	0.24	0.070	6
972643	Soil		0.8	35.2	7.9	80	0.2	30.9	11.6	652	3.17	12.6	2.1	1.3	50	0.2	0.7	0.1	63	0.74	0.094	11
972644	Soil		0.5	22.4	7.7	65	0.2	24.2	10.9	601	2.95	10.6	0.9	1.2	38	0.3	0.5	0.1	62	0.40	0.046	9
972645	Soil		0.4	45.7	9.5	115	0.3	33.8	11.8	800	3.35	10.5	2.9	0.8	51	0.6	0.6	0.2	65	0.52	0.101	17
972646	Soil		0.5	37.9	8.6	88	0.2	31.1	12.8	762	3.28	14.9	2.4	1.4	45	0.4	0.9	0.1	65	0.66	0.061	12
972647	Soil		0.4	12.8	6.4	49	<0.1	18.4	8.1	337	2.62	8.0	0.8	0.8	22	<0.1	0.4	<0.1	61	0.26	0.025	5
972648	Soil		0.3	8.3	5.6	74	<0.1	20.3	8.1	376	2.40	4.9	<0.5	0.8	23	0.1	0.3	<0.1	53	0.26	0.058	5
972649	Soil		0.5	22.3	7.0	63	<0.1	22.5	10.1	615	2.84	12.6	1.0	1.0	30	0.2	0.6	<0.1	60	0.42	0.052	8

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 25, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972620	Soil	30	0.71	203	0.089	3	1.51	0.026	0.12	0.1	0.06	7.0	<0.1	<0.05	5	<0.5	<0.2
972621	Soil	27	0.66	214	0.091	3	1.34	0.026	0.12	<0.1	0.04	6.4	<0.1	<0.05	4	<0.5	<0.2
972622	Soil	33	0.84	265	0.063	3	1.80	0.028	0.11	0.1	0.09	8.1	<0.1	<0.05	6	<0.5	<0.2
972623	Soil	25	0.61	243	0.060	3	1.66	0.017	0.09	0.1	0.29	5.2	<0.1	<0.05	5	<0.5	<0.2
972624	Soil	20	0.35	340	0.017	1	1.47	0.008	0.08	0.3	0.55	2.1	0.1	<0.05	6	<0.5	<0.2
972625	Soil	26	0.33	150	0.029	2	1.18	0.009	0.05	0.2	0.11	3.0	<0.1	<0.05	5	<0.5	<0.2
972626	Soil	23	0.43	180	0.080	1	1.27	0.010	0.07	0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
972627	Soil	60	0.12	195	0.060	2	0.60	0.007	0.07	<0.1	0.03	2.6	<0.1	<0.05	2	<0.5	<0.2
972628	Soil	24	0.42	126	0.063	<1	1.36	0.012	0.06	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
972629	Soil	54	0.87	652	0.027	2	3.43	0.016	0.14	0.1	0.25	21.4	0.1	<0.05	9	<0.5	<0.2
972630	Soil	56	1.04	295	0.033	3	1.77	0.011	0.13	0.2	0.03	4.4	0.1	<0.05	5	<0.5	<0.2
972631	Soil	49	0.53	310	0.016	1	1.52	0.006	0.08	0.3	0.19	4.2	0.1	<0.05	5	<0.5	<0.2
972632	Soil	50	0.61	318	0.041	2	1.79	0.009	0.10	0.1	0.03	4.5	<0.1	<0.05	6	<0.5	<0.2
972633	Soil	30	0.35	183	0.072	2	1.16	0.007	0.11	0.1	0.06	2.8	<0.1	<0.05	5	<0.5	<0.2
972634	Soil	26	0.45	180	0.052	<1	1.31	0.007	0.10	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
972635	Soil	34	0.65	195	0.049	2	1.94	0.009	0.06	0.2	0.43	4.1	<0.1	<0.05	6	<0.5	<0.2
972636	Soil	24	0.45	118	0.059	<1	1.35	0.008	0.05	0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
972637	Soil	19	0.30	92	0.051	3	1.02	0.012	0.05	0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
972638	Soil	18	0.39	103	0.060	1	1.06	0.014	0.06	<0.1	0.02	3.9	<0.1	<0.05	3	<0.5	<0.2
972639	Soil	19	0.42	117	0.072	2	1.16	0.023	0.07	0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
972640	Soil	21	0.42	140	0.057	<1	1.47	0.011	0.05	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
972641	Soil	21	0.34	152	0.052	2	1.42	0.016	0.07	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
972642	Soil	23	0.38	151	0.059	<1	1.49	0.010	0.06	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
972643	Soil	31	0.66	182	0.052	3	1.73	0.014	0.17	<0.1	0.06	7.5	<0.1	<0.05	5	<0.5	<0.2
972644	Soil	27	0.59	136	0.060	2	1.50	0.028	0.12	<0.1	0.04	6.5	<0.1	<0.05	5	<0.5	<0.2
972645	Soil	32	0.73	236	0.035	2	2.35	0.015	0.13	<0.1	0.04	8.3	<0.1	<0.05	7	<0.5	<0.2
972646	Soil	30	0.67	208	0.044	3	1.76	0.018	0.23	<0.1	0.06	8.4	<0.1	<0.05	5	<0.5	<0.2
972647	Soil	22	0.44	93	0.061	<1	1.26	0.010	0.06	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
972648	Soil	22	0.38	122	0.056	2	1.45	0.012	0.08	<0.1	<0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
972649	Soil	25	0.49	143	0.056	3	1.38	0.017	0.12	<0.1	0.03	6.3	<0.1	<0.05	4	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 25, 2012

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972650	Soil		0.6	26.1	7.4	62	0.1	25.0	10.3	603	3.06	13.0	2.1	1.3	39	0.2	0.7	<0.1	63	0.51	0.076	10
972651	Soil		0.8	23.6	7.3	66	<0.1	24.1	10.7	606	2.97	10.3	0.6	1.0	30	0.2	0.6	<0.1	63	0.41	0.033	9
972652	Soil		0.7	22.0	7.3	61	<0.1	23.3	10.4	613	3.00	11.6	0.8	1.1	31	0.1	0.6	<0.1	62	0.40	0.039	7
972653	Soil		0.5	27.5	7.5	65	0.1	24.4	9.2	500	2.89	11.2	1.6	1.3	39	<0.1	0.7	0.1	59	0.54	0.061	9
972654	Soil		0.6	23.3	7.9	67	<0.1	23.4	9.9	676	2.88	9.7	0.7	1.0	41	0.2	0.6	<0.1	61	0.48	0.045	8
972655	Soil		0.5	23.8	25.5	58	0.3	21.8	9.4	508	2.87	10.1	1.8	1.4	34	<0.1	0.6	<0.1	61	0.43	0.053	10
972656	Soil		0.4	8.0	5.9	74	0.1	13.5	5.8	297	2.06	4.0	0.6	0.6	19	<0.1	0.2	0.2	48	0.19	0.049	5
972657	Soil		0.5	25.7	8.0	100	0.3	25.6	10.5	617	2.99	4.7	<0.5	1.3	51	<0.1	0.3	0.1	65	0.34	0.092	10
972658	Soil		0.5	19.6	7.8	101	0.2	37.1	13.7	356	3.47	3.7	0.6	2.0	63	0.2	0.2	<0.1	83	0.42	0.212	9
972659	Soil		0.4	13.5	6.2	67	<0.1	22.5	8.1	338	2.66	7.5	0.8	0.8	25	<0.1	0.4	<0.1	56	0.28	0.096	5
972660	Soil		0.5	11.8	6.0	61	<0.1	19.2	7.4	310	2.53	6.1	<0.5	0.6	22	0.1	0.4	<0.1	56	0.23	0.056	5
972661	Soil		0.5	15.7	6.6	101	0.2	23.6	9.1	479	2.72	6.7	1.9	0.9	27	0.2	0.4	<0.1	56	0.26	0.094	7
972662	Soil		0.6	27.1	8.1	106	0.2	26.6	9.5	693	2.76	6.1	0.9	1.0	47	0.5	0.6	0.2	54	0.37	0.090	12
972663	Soil		0.6	18.4	9.2	100	0.2	20.1	10.9	683	2.92	5.0	<0.5	1.3	43	0.3	0.4	0.2	64	0.25	0.089	10
972664	Soil		0.5	38.2	13.4	85	0.4	27.8	9.3	471	2.87	9.5	3.7	1.7	73	0.2	0.5	0.3	64	0.41	0.070	14
972665	Soil		0.4	14.2	8.9	76	0.1	21.9	10.4	868	2.71	5.4	1.3	1.5	56	0.3	0.5	0.2	55	0.58	0.055	7
972666	Soil		0.5	18.9	9.3	130	0.2	24.8	11.6	319	2.96	5.0	1.8	1.5	44	0.2	0.4	0.1	66	0.25	0.102	7
972667	Soil		0.6	14.7	11.2	82	0.3	14.2	6.1	266	2.19	5.4	1.5	1.0	26	0.2	0.5	0.3	50	0.18	0.065	7
972668	Soil		0.6	12.3	9.4	77	0.2	17.8	6.3	296	2.32	6.4	0.6	1.0	31	0.2	0.5	0.2	53	0.22	0.048	6
972669	Soil		0.5	19.4	8.3	80	0.2	20.8	7.7	517	2.67	5.6	1.2	1.1	37	0.1	0.4	0.1	54	0.27	0.055	9
972670	Soil		0.5	34.0	12.1	102	0.3	30.0	10.6	834	3.20	10.6	3.5	1.2	48	0.3	0.5	0.3	68	0.35	0.071	15
972671	Soil		0.5	19.6	9.0	87	0.2	19.7	8.2	369	2.74	5.5	0.6	1.3	44	0.1	0.4	0.1	61	0.27	0.062	8
972672	Soil		0.6	41.6	11.5	119	0.5	33.8	9.8	636	3.32	12.1	1.3	1.3	66	0.4	0.7	0.2	68	0.47	0.076	16
972673	Soil		0.4	12.7	8.3	115	0.2	15.2	7.5	275	2.41	6.0	<0.5	1.0	29	0.2	0.5	0.1	55	0.23	0.105	7
972674	Soil		0.5	19.4	10.2	72	0.2	21.6	8.0	478	2.55	8.4	1.7	1.3	49	0.3	0.6	0.1	58	0.40	0.055	10
972675	Soil		1.1	60.7	17.7	277	1.0	49.6	12.8	957	4.14	32.4	5.4	1.8	67	0.9	1.2	0.3	81	0.71	0.067	18
972676	Soil		0.4	17.1	10.1	91	0.2	20.7	7.4	474	2.52	7.0	5.1	1.2	38	0.2	0.4	0.2	54	0.29	0.059	9
972677	Soil		0.6	12.4	7.4	77	<0.1	17.5	8.3	380	2.31	5.1	0.8	1.0	27	0.1	0.4	<0.1	52	0.22	0.099	8
972678	Soil		0.4	16.3	6.8	74	0.1	20.7	7.3	438	2.44	5.4	1.5	1.1	35	0.1	0.5	0.1	52	0.27	0.052	9
972679	Soil		0.5	13.5	8.4	89	0.1	16.8	7.7	313	2.40	5.7	0.9	0.9	28	0.2	0.4	<0.1	55	0.21	0.041	7

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

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972650	Soil	28	0.58	146	0.059	2	1.52	0.029	0.15	0.1	0.06	7.7	<0.1	<0.05	5	<0.5	<0.2
972651	Soil	27	0.52	136	0.060	2	1.47	0.026	0.10	<0.1	0.03	6.3	<0.1	<0.05	5	<0.5	<0.2
972652	Soil	26	0.57	127	0.061	1	1.44	0.026	0.12	<0.1	0.02	6.0	<0.1	<0.05	4	<0.5	<0.2
972653	Soil	26	0.58	155	0.056	1	1.60	0.016	0.10	<0.1	0.04	6.8	<0.1	<0.05	5	<0.5	<0.2
972654	Soil	25	0.52	163	0.053	2	1.57	0.016	0.08	0.2	0.03	6.0	<0.1	<0.05	5	<0.5	<0.2
972655	Soil	26	0.53	143	0.066	1	1.47	0.028	0.08	0.1	0.04	6.6	<0.1	<0.05	5	<0.5	<0.2
972656	Soil	18	0.33	107	0.051	1	1.23	0.007	0.05	<0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
972657	Soil	38	0.57	342	0.098	<1	1.99	0.023	0.11	<0.1	0.03	5.0	<0.1	<0.05	6	<0.5	<0.2
972658	Soil	55	0.61	412	0.126	2	2.64	0.016	0.12	<0.1	0.01	4.8	<0.1	<0.05	7	<0.5	<0.2
972659	Soil	23	0.49	161	0.051	2	1.69	0.010	0.08	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
972660	Soil	22	0.43	124	0.053	<1	1.45	0.011	0.06	<0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
972661	Soil	25	0.48	137	0.056	2	1.71	0.017	0.07	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
972662	Soil	27	0.58	166	0.049	2	1.64	0.011	0.08	0.1	0.02	5.9	<0.1	<0.05	5	<0.5	<0.2
972663	Soil	29	0.47	229	0.078	4	1.74	0.014	0.06	<0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
972664	Soil	34	0.69	287	0.081	2	1.78	0.018	0.12	<0.1	0.04	6.1	<0.1	<0.05	6	<0.5	<0.2
972665	Soil	28	0.61	245	0.090	4	1.59	0.016	0.08	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
972666	Soil	32	0.49	330	0.096	<1	1.99	0.017	0.07	<0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
972667	Soil	22	0.34	160	0.063	<1	1.33	0.010	0.05	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
972668	Soil	22	0.41	132	0.057	<1	1.40	0.009	0.05	<0.1	<0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
972669	Soil	25	0.51	164	0.062	2	1.60	0.012	0.07	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
972670	Soil	32	0.69	206	0.047	3	2.23	0.014	0.11	0.1	0.03	6.5	<0.1	<0.05	7	<0.5	<0.2
972671	Soil	27	0.48	214	0.083	3	1.60	0.012	0.07	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
972672	Soil	36	0.76	235	0.047	3	2.36	0.017	0.14	<0.1	0.05	8.6	<0.1	<0.05	7	<0.5	<0.2
972673	Soil	20	0.38	166	0.060	2	1.37	0.009	0.07	<0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
972674	Soil	24	0.60	143	0.080	3	1.45	0.019	0.07	0.1	0.01	5.0	<0.1	<0.05	4	<0.5	<0.2
972675	Soil	40	0.89	281	0.025	2	3.18	0.020	0.19	<0.1	0.05	11.9	0.1	<0.05	8	0.8	<0.2
972676	Soil	24	0.59	138	0.071	3	1.74	0.014	0.07	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
972677	Soil	21	0.42	127	0.052	2	1.64	0.011	0.06	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
972678	Soil	22	0.58	140	0.073	<1	1.62	0.013	0.06	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
972679	Soil	22	0.42	135	0.062	3	1.47	0.011	0.05	<0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 25, 2012

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972680	Soil		0.4	17.0	8.6	90	0.1	20.7	7.7	399	2.55	6.6	6.2	0.9	32	0.2	0.5	0.1	53	0.23	0.043	8
972681	Soil		0.4	14.3	8.3	65	0.1	19.2	7.4	368	2.25	5.8	1.1	1.0	31	0.1	0.5	<0.1	49	0.24	0.039	8
972682	Soil		0.5	17.0	7.0	64	<0.1	21.2	8.1	436	2.72	7.0	<0.5	0.9	34	0.1	0.5	<0.1	58	0.27	0.036	8
972683	Soil		0.4	16.6	7.5	71	0.1	19.0	7.4	431	2.41	5.9	3.0	1.0	30	<0.1	0.4	<0.1	54	0.23	0.036	8
972684	Soil		0.4	15.0	6.9	59	<0.1	19.8	7.2	371	2.41	6.9	<0.5	1.0	34	<0.1	0.5	<0.1	55	0.25	0.037	8
972685	Soil		0.3	17.6	8.7	80	<0.1	21.6	7.3	442	2.59	6.8	0.9	1.2	37	0.2	0.5	0.1	57	0.28	0.043	9
972686	Soil		0.3	18.6	8.4	85	0.1	21.0	7.8	556	2.39	6.0	2.1	1.1	38	0.3	0.4	<0.1	54	0.27	0.036	10
972687	Soil		0.5	15.2	8.7	76	<0.1	20.6	7.2	341	2.55	8.2	2.0	1.1	36	<0.1	0.6	<0.1	56	0.27	0.046	8
972688	Soil		0.4	11.9	7.2	71	<0.1	16.4	7.6	379	2.40	6.4	<0.5	0.9	27	0.3	0.5	<0.1	56	0.25	0.062	6
972689	Soil		0.6	14.7	7.4	90	0.1	16.8	7.4	458	2.42	4.8	<0.5	0.9	31	0.3	0.4	<0.1	57	0.23	0.176	7
972690	Soil		0.7	15.2	7.4	86	0.1	21.7	9.6	422	2.65	8.3	<0.5	1.1	35	0.3	0.5	<0.1	65	0.28	0.114	7
972691	Soil		0.5	22.1	10.3	72	0.3	22.3	9.6	556	2.79	5.5	<0.5	1.6	63	<0.1	0.3	0.1	63	0.34	0.087	10
972692	Soil		0.6	21.1	8.8	107	0.3	24.3	9.9	1065	2.66	4.4	13.4	1.0	50	0.1	0.4	<0.1	59	0.29	0.087	10
972693	Soil		0.3	17.9	7.7	77	0.1	20.8	8.2	358	2.48	4.1	3.5	1.2	50	0.1	0.3	<0.1	62	0.33	0.076	8
972694	Soil		0.4	13.4	7.6	75	<0.1	20.2	8.5	471	2.48	5.6	<0.5	1.1	34	0.1	0.5	<0.1	53	0.24	0.066	7
972695	Soil		0.8	19.9	9.2	114	0.2	25.8	11.3	830	3.09	3.6	<0.5	1.6	64	0.2	0.2	<0.1	69	0.32	0.237	8
972696	Soil		0.3	19.6	9.1	76	0.2	22.3	8.6	394	2.62	3.9	35.4	1.6	83	0.2	0.2	<0.1	70	0.38	0.092	9
972697	Soil		0.5	24.7	8.8	123	0.3	23.2	10.2	537	2.92	3.3	5.8	1.5	73	0.4	0.3	<0.1	74	0.38	0.124	9
972698	Soil		0.4	11.3	6.7	74	<0.1	14.9	6.6	359	2.14	3.8	<0.5	0.7	20	0.1	0.3	0.1	47	0.19	0.076	5
972699	Soil		0.3	15.5	7.0	74	0.2	17.5	6.7	277	2.17	3.4	2.4	0.8	25	<0.1	0.2	0.1	51	0.19	0.053	6
972700	Soil		0.7	25.4	7.1	105	0.4	26.3	9.3	816	2.75	5.7	<0.5	1.0	38	0.3	0.3	0.1	57	0.33	0.091	12
972701	Soil		0.5	15.3	6.7	53	<0.1	18.7	8.6	382	2.64	7.5	1.2	0.7	19	0.2	0.5	0.2	59	0.16	0.033	5
972702	Soil		0.4	13.0	6.1	70	<0.1	16.7	6.4	291	2.37	4.9	0.7	0.7	21	0.1	0.3	<0.1	49	0.19	0.075	5
972703	Soil		0.3	18.5	6.8	76	0.2	19.6	8.2	447	2.36	4.9	1.1	0.6	29	0.2	0.3	0.1	50	0.26	0.063	9
972704	Soil		0.5	11.8	8.2	89	0.1	15.8	7.3	192	2.64	5.2	1.8	0.8	18	<0.1	0.3	<0.1	56	0.13	0.121	5
972705	Soil		0.3	8.8	6.2	71	<0.1	12.4	5.6	300	1.92	3.1	<0.5	0.5	20	0.1	0.3	<0.1	43	0.20	0.069	5
972706	Soil		0.3	10.3	6.9	58	<0.1	13.2	5.8	250	1.99	4.3	3.0	0.7	19	0.1	0.3	<0.1	45	0.18	0.041	5
972707	Soil		0.4	19.9	9.3	79	0.3	19.1	8.0	560	2.42	7.4	3.6	0.9	29	0.1	0.3	0.1	50	0.26	0.044	8
972708	Soil		0.4	17.9	8.4	69	0.3	19.3	7.3	447	2.24	6.5	5.8	0.7	30	0.1	0.3	0.2	49	0.25	0.039	7
972709	Soil		0.4	21.5	10.1	76	0.4	19.9	9.1	624	2.50	6.7	3.0	0.6	31	0.1	0.4	0.1	54	0.27	0.036	11

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

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972680	Soil	24	0.53	132	0.075	<1	1.60	0.013	0.06	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
972681	Soil	19	0.53	133	0.071	2	1.40	0.012	0.05	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
972682	Soil	24	0.58	126	0.077	1	1.59	0.013	0.06	<0.1	<0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
972683	Soil	21	0.53	137	0.071	<1	1.64	0.014	0.06	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
972684	Soil	21	0.54	118	0.072	1	1.42	0.012	0.05	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
972685	Soil	23	0.56	136	0.084	3	1.53	0.014	0.07	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
972686	Soil	22	0.52	150	0.078	2	1.49	0.015	0.07	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
972687	Soil	22	0.55	139	0.080	2	1.49	0.014	0.05	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
972688	Soil	21	0.45	142	0.067	1	1.35	0.014	0.07	0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
972689	Soil	24	0.41	167	0.061	2	1.35	0.010	0.07	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
972690	Soil	26	0.48	150	0.070	<1	1.56	0.013	0.08	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
972691	Soil	34	0.58	303	0.100	<1	1.91	0.019	0.08	<0.1	0.02	4.6	<0.1	<0.05	6	<0.5	<0.2
972692	Soil	35	0.53	250	0.088	1	1.93	0.019	0.08	<0.1	0.03	4.6	<0.1	<0.05	6	<0.5	<0.2
972693	Soil	29	0.53	239	0.108	<1	1.65	0.017	0.07	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
972694	Soil	23	0.47	135	0.075	2	1.31	0.011	0.06	<0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
972695	Soil	44	0.46	398	0.132	1	2.08	0.017	0.13	<0.1	0.02	3.8	<0.1	<0.05	7	<0.5	<0.2
972696	Soil	40	0.52	332	0.142	1	1.59	0.026	0.09	0.1	0.01	3.8	<0.1	0.08	5	<0.5	<0.2
972697	Soil	44	0.53	292	0.136	<1	1.75	0.022	0.13	<0.1	0.03	4.1	<0.1	0.07	6	<0.5	<0.2
972698	Soil	20	0.41	128	0.042	1	1.17	0.010	0.04	0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
972699	Soil	23	0.44	169	0.052	1	1.38	0.011	0.05	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
972700	Soil	30	0.64	220	0.026	1	2.33	0.012	0.08	0.1	0.04	5.1	<0.1	<0.05	7	<0.5	<0.2
972701	Soil	21	0.47	96	0.044	1	1.17	0.007	0.05	0.1	0.01	2.9	0.1	<0.05	4	<0.5	<0.2
972702	Soil	20	0.41	116	0.035	1	1.28	0.008	0.06	0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
972703	Soil	23	0.49	159	0.029	1	1.54	0.009	0.06	0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
972704	Soil	23	0.34	176	0.039	1	1.55	0.008	0.05	0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
972705	Soil	16	0.30	119	0.032	<1	1.04	0.006	0.06	0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
972706	Soil	18	0.36	105	0.050	<1	1.00	0.009	0.04	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
972707	Soil	22	0.49	133	0.048	1	1.35	0.012	0.06	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
972708	Soil	23	0.52	143	0.036	<1	1.43	0.011	0.06	<0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
972709	Soil	23	0.51	145	0.040	<1	1.47	0.012	0.06	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972710	Soil	0.4	17.7	8.1	66	0.3	19.7	7.0	405	2.33	6.5	1.7	0.7	30	0.1	0.3	0.1	51	0.27	0.051	8
972711	Soil	0.4	13.5	7.9	64	0.2	16.6	6.8	375	2.13	5.4	3.6	0.7	30	0.2	0.3	<0.1	47	0.28	0.053	7
972712	Soil	0.3	13.5	8.1	73	0.2	17.6	6.5	312	2.15	5.3	3.1	0.6	24	0.3	0.3	<0.1	45	0.22	0.034	7
972713	Soil	0.7	25.8	11.2	117	0.5	27.2	11.3	606	2.83	6.6	1.1	0.9	36	0.3	0.4	0.1	57	0.34	0.101	11
972714	Soil	0.3	24.1	8.4	82	0.4	24.0	9.3	620	2.69	7.6	1.9	0.9	36	0.3	0.4	0.1	55	0.34	0.050	11
972715	Soil	0.4	19.7	9.0	84	0.2	19.6	8.0	447	2.35	10.1	7.7	0.8	31	0.4	0.5	<0.1	51	0.34	0.032	7
972716	Soil	0.8	67.2	17.6	633	1.4	66.3	14.7	925	5.18	29.9	16.4	1.7	81	2.5	1.2	0.4	79	1.04	0.115	16
972717	Soil	1.1	51.4	13.7	156	0.6	43.8	13.8	1192	3.69	12.1	0.9	1.1	73	1.3	0.6	0.2	69	0.83	0.084	20
972718	Soil	0.4	14.8	7.7	93	0.2	18.2	7.2	541	2.23	5.5	2.5	0.5	24	0.3	0.3	<0.1	46	0.22	0.034	7
972719	Soil	0.6	26.7	7.4	94	0.3	26.6	9.1	960	2.83	7.1	1.8	0.9	28	0.3	0.3	<0.1	55	0.29	0.077	11
972720	Soil	0.6	10.8	6.6	63	0.1	17.6	7.4	298	2.43	6.9	1.8	0.6	14	0.2	0.4	<0.1	55	0.12	0.036	4
972721	Soil	0.4	13.9	6.7	63	0.1	17.1	6.6	475	2.05	5.5	2.5	0.4	25	0.1	0.3	<0.1	44	0.25	0.044	8
972722	Soil	0.4	11.6	5.7	62	<0.1	17.5	6.5	313	2.18	4.7	<0.5	0.6	17	<0.1	0.3	<0.1	47	0.16	0.043	6
972723	Soil	0.4	13.0	5.4	57	<0.1	17.6	6.7	343	2.22	4.8	1.7	0.6	21	<0.1	0.3	<0.1	47	0.20	0.032	5
972724	Soil	0.4	12.2	7.4	81	<0.1	17.3	7.2	484	2.26	5.4	0.9	0.5	24	0.2	0.3	<0.1	49	0.16	0.052	6
972725	Soil	0.5	12.0	6.9	63	0.1	15.0	6.9	501	2.11	5.4	18.9	0.3	25	0.3	0.3	<0.1	51	0.25	0.041	5
972726	Soil	0.5	15.7	7.0	92	<0.1	21.4	7.7	469	2.29	5.6	1.2	0.7	26	0.2	0.4	<0.1	48	0.23	0.039	8
972727	Soil	0.5	12.3	8.3	94	<0.1	18.9	7.7	506	2.27	6.4	1.3	0.4	24	0.1	0.3	<0.1	51	0.22	0.039	5
972728	Soil	0.7	20.2	10.0	125	0.2	22.6	8.1	897	2.44	7.3	2.1	0.5	31	0.4	0.3	<0.1	50	0.27	0.046	11
972729	Soil	1.1	36.2	43.4	362	0.8	32.5	14.2	1089	3.59	79.2	170.3	1.8	84	1.8	2.5	1.2	80	0.58	0.131	15
972730	Soil	0.4	17.6	6.8	70	0.2	21.2	8.2	433	2.49	7.8	<0.5	1.0	39	0.1	0.5	<0.1	58	0.36	0.055	10
972731	Soil	0.6	18.1	8.3	102	0.2	21.6	10.2	555	2.87	7.5	20.4	1.0	35	0.5	0.4	<0.1	65	0.33	0.086	6
972732	Soil	0.5	17.6	9.1	128	0.1	22.5	10.6	606	2.86	7.5	<0.5	0.9	36	0.4	0.4	<0.1	66	0.30	0.117	5
972733	Soil	0.6	15.9	10.5	293	0.3	20.6	12.1	654	2.98	2.9	<0.5	1.3	35	0.5	0.2	<0.1	64	0.24	0.408	6
972734	Soil	1.1	23.9	34.2	301	0.6	30.9	14.5	1218	3.42	60.8	42.4	1.7	78	1.3	2.4	0.7	77	0.58	0.134	14
972735	Soil	0.5	25.2	8.4	83	0.1	26.2	11.0	729	3.06	9.4	<0.5	1.0	38	0.5	0.6	<0.1	63	0.44	0.071	9
972736	Soil	0.4	20.0	6.7	71	0.2	22.2	9.9	567	2.81	7.8	1.1	1.0	36	0.2	0.5	<0.1	58	0.41	0.061	8
972737	Soil	0.4	18.2	7.1	74	<0.1	20.9	10.0	533	2.75	8.4	<0.5	1.0	30	0.2	0.6	<0.1	61	0.33	0.054	7
972738	Soil	0.3	15.7	7.5	62	<0.1	22.1	9.3	492	2.78	8.8	1.0	1.2	33	<0.1	0.5	<0.1	60	0.32	0.068	8



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 25, 2012

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CERTIFICATE OF ANALYSIS

SMI12000049.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	Unit	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972710	Soil	22	0.52	140	0.045	<1	1.46	0.012	0.06	0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
972711	Soil	20	0.43	117	0.038	1	1.18	0.008	0.06	<0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
972712	Soil	19	0.44	105	0.045	<1	1.07	0.009	0.04	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
972713	Soil	29	0.52	189	0.024	<1	2.12	0.012	0.10	<0.1	0.04	4.9	<0.1	<0.05	7	<0.5	<0.2
972714	Soil	25	0.55	148	0.038	1	1.48	0.018	0.07	0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
972715	Soil	22	0.50	115	0.040	1	1.24	0.010	0.05	0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
972716	Soil	52	1.14	352	0.017	3	4.16	0.028	0.28	<0.1	0.07	12.6	0.2	<0.05	9	<0.5	<0.2
972717	Soil	41	0.84	324	0.015	1	2.91	0.014	0.15	0.1	0.06	9.3	0.1	<0.05	8	<0.5	<0.2
972718	Soil	21	0.46	127	0.037	<1	1.33	0.009	0.05	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
972719	Soil	28	0.58	175	0.021	1	1.84	0.012	0.08	0.1	0.04	5.2	<0.1	<0.05	5	<0.5	<0.2
972720	Soil	20	0.39	107	0.037	<1	1.30	0.007	0.04	0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
972721	Soil	19	0.44	129	0.028	<1	1.22	0.008	0.05	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
972722	Soil	18	0.44	100	0.039	<1	1.14	0.007	0.04	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
972723	Soil	20	0.47	93	0.039	<1	1.11	0.008	0.04	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
972724	Soil	20	0.38	133	0.035	<1	1.22	0.009	0.04	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
972725	Soil	18	0.31	97	0.031	<1	0.99	0.007	0.05	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
972726	Soil	23	0.46	126	0.045	<1	1.15	0.008	0.06	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
972727	Soil	21	0.45	132	0.034	<1	1.24	0.008	0.05	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
972728	Soil	24	0.44	149	0.030	<1	1.45	0.009	0.05	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
972729	Soil	38	0.75	231	0.098	1	1.38	0.017	0.13	0.1	0.05	5.5	0.1	<0.05	5	<0.5	<0.2
972730	Soil	26	0.50	164	0.061	<1	1.31	0.015	0.06	0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
972731	Soil	29	0.47	184	0.066	1	1.42	0.011	0.08	0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
972732	Soil	30	0.49	191	0.075	1	1.49	0.011	0.08	0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
972733	Soil	39	0.39	333	0.100	1	2.28	0.012	0.10	0.1	0.03	3.6	<0.1	<0.05	8	<0.5	<0.2
972734	Soil	41	0.76	244	0.118	<1	1.32	0.025	0.13	0.1	0.04	4.1	0.2	<0.05	4	<0.5	<0.2
972735	Soil	26	0.64	147	0.056	2	1.57	0.017	0.09	0.1	0.03	5.7	<0.1	<0.05	5	<0.5	<0.2
972736	Soil	24	0.61	132	0.058	1	1.44	0.016	0.07	0.1	0.02	4.6	<0.1	<0.05	4	<0.5	<0.2
972737	Soil	24	0.52	125	0.071	<1	1.32	0.016	0.07	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
972738	Soil	24	0.55	142	0.072	<1	1.36	0.021	0.06	0.1	0.02	4.6	<0.1	<0.05	4	<0.5	<0.2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 25, 2012

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QUALITY CONTROL REPORT

SMI12000049.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
972597	Soil	0.8	29.4	14.0	139	0.3	22.5	11.7	1084	2.92	5.8	1.1	0.9	54	1.0	0.6	0.2	64	0.52	0.087	11
REP 972597	QC	0.8	30.1	14.1	142	0.3	23.0	12.0	1076	2.91	5.9	<0.5	0.9	53	0.9	0.5	0.2	64	0.52	0.087	12
972601	Soil	0.4	17.6	8.0	97	<0.1	18.4	9.7	618	2.73	10.3	<0.5	1.0	36	0.4	1.0	<0.1	58	0.32	0.082	7
REP 972601	QC	0.5	17.5	8.1	99	<0.1	18.2	9.6	630	2.71	10.5	<0.5	1.0	36	0.5	0.9	<0.1	60	0.33	0.081	7
972633	Soil	0.5	11.3	7.1	187	0.3	19.7	9.2	549	2.63	14.8	1.8	0.8	16	0.9	0.5	0.1	61	0.20	0.047	5
REP 972633	QC	0.5	11.4	7.0	190	0.4	19.2	8.9	560	2.62	15.0	<0.5	0.8	16	0.9	0.6	0.1	62	0.20	0.047	5
972637	Soil	0.4	7.4	5.5	100	0.1	12.2	4.8	170	1.85	2.8	3.0	0.7	15	0.2	0.3	0.1	44	0.16	0.048	5
REP 972637	QC	0.3	7.6	5.5	104	0.1	12.8	5.0	176	1.92	2.8	<0.5	0.7	15	0.2	0.3	0.1	45	0.16	0.051	5
972669	Soil	0.5	19.4	8.3	80	0.2	20.8	7.7	517	2.67	5.6	1.2	1.1	37	0.1	0.4	0.1	54	0.27	0.055	9
REP 972669	QC	0.5	18.2	8.3	77	0.2	19.1	7.0	482	2.42	5.4	1.7	1.1	34	0.2	0.5	0.1	55	0.25	0.052	9
972673	Soil	0.4	12.7	8.3	115	0.2	15.2	7.5	275	2.41	6.0	<0.5	1.0	29	0.2	0.5	0.1	55	0.23	0.105	7
REP 972673	QC	0.5	13.5	8.5	118	0.2	16.5	7.4	291	2.45	5.8	1.9	1.0	30	0.2	0.5	0.1	55	0.20	0.102	6
972705	Soil	0.3	8.8	6.2	71	<0.1	12.4	5.6	300	1.92	3.1	<0.5	0.5	20	0.1	0.3	<0.1	43	0.20	0.069	5
REP 972705	QC	0.3	8.8	6.4	77	<0.1	12.7	5.6	309	1.96	3.5	<0.5	0.5	21	0.1	0.3	<0.1	44	0.20	0.074	5
972709	Soil	0.4	21.5	10.1	76	0.4	19.9	9.1	624	2.50	6.7	3.0	0.6	31	0.1	0.4	0.1	54	0.27	0.036	11
REP 972709	QC	0.4	21.9	10.2	79	0.4	20.1	9.2	657	2.56	7.3	3.3	0.6	32	0.2	0.4	0.1	54	0.27	0.039	10
Reference Materials																					
STD DS9	Standard	12.8	111.2	127.2	302	1.8	40.1	7.8	577	2.35	25.8	127.0	6.4	64	2.4	5.9	5.9	43	0.68	0.081	13
STD DS9	Standard	13.2	101.7	116.2	287	1.8	37.7	7.6	565	2.25	24.3	112.3	6.0	69	2.4	5.1	6.1	40	0.75	0.078	14
STD DS9	Standard	12.6	115.5	121.3	320	2.0	41.7	7.7	592	2.40	26.3	122.0	6.0	64	2.6	5.6	5.8	47	0.72	0.083	11
STD DS9	Standard	13.3	110.0	124.8	306	1.8	40.4	7.7	578	2.34	25.7	126.7	7.3	80	2.5	6.5	6.7	41	0.71	0.083	14
STD DS9	Standard	14.0	112.8	126.0	306	1.9	41.8	7.6	591	2.38	26.4	142.6	7.7	85	2.3	6.8	7.6	44	0.74	0.083	15
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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

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 15th Floor - 1040 West Georgia Street
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QUALITY CONTROL REPORT

SMI12000049.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
972597	Soil	28	0.45	313	0.068	2	1.45	0.017	0.16	<0.1	0.03	5.1	<0.1	<0.05	5	<0.5	<0.2
REP 972597	QC	27	0.45	313	0.070	3	1.42	0.017	0.16	<0.1	0.03	5.0	<0.1	<0.05	4	0.5	<0.2
972601	Soil	23	0.43	180	0.075	<1	1.11	0.013	0.06	0.2	0.07	4.3	<0.1	<0.05	4	<0.5	<0.2
REP 972601	QC	23	0.44	181	0.072	1	1.10	0.012	0.06	0.1	0.15	4.3	<0.1	<0.05	4	<0.5	<0.2
972633	Soil	30	0.35	183	0.072	2	1.16	0.007	0.11	0.1	0.06	2.8	<0.1	<0.05	5	<0.5	<0.2
REP 972633	QC	30	0.35	187	0.065	2	1.21	0.007	0.12	0.1	0.06	2.9	<0.1	<0.05	5	<0.5	<0.2
972637	Soil	19	0.30	92	0.051	3	1.02	0.012	0.05	0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
REP 972637	QC	19	0.31	91	0.053	<1	1.05	0.007	0.05	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
972669	Soil	25	0.51	164	0.062	2	1.60	0.012	0.07	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
REP 972669	QC	23	0.47	163	0.060	<1	1.57	0.011	0.07	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
972673	Soil	20	0.38	166	0.060	2	1.37	0.009	0.07	<0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
REP 972673	QC	22	0.38	171	0.059	2	1.41	0.010	0.07	<0.1	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
972705	Soil	16	0.30	119	0.032	<1	1.04	0.006	0.06	0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
REP 972705	QC	17	0.30	123	0.033	<1	1.07	0.006	0.06	0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
972709	Soil	23	0.51	145	0.040	<1	1.47	0.012	0.06	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
REP 972709	QC	24	0.51	146	0.039	<1	1.50	0.011	0.06	<0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	122	0.62	296	0.116	2	0.92	0.092	0.36	3.2	0.21	2.6	5.5	0.14	5	5.7	4.8
STD DS9	Standard	116	0.61	309	0.102	3	0.98	0.111	0.38	3.0	0.19	3.2	5.3	0.11	5	5.2	5.1
STD DS9	Standard	127	0.64	298	0.106	3	0.92	0.088	0.37	3.2	0.23	2.5	6.1	0.09	5	6.1	5.8
STD DS9	Standard	120	0.62	296	0.127	3	0.91	0.087	0.35	3.1	0.24	2.5	5.8	0.16	5	5.6	4.8
STD DS9	Standard	125	0.64	311	0.125	2	0.95	0.086	0.36	3.4	0.22	2.7	5.7	<0.05	5	5.8	5.3
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Ted Oliver
Receiving Lab: Canada-Smithers
Received: July 04, 2012
Report Date: July 27, 2012
Page: 1 of 4

CERTIFICATE OF ANALYSIS

SMI12000053.1

CLIENT JOB INFORMATION

Project: Buck
Shipment ID: WA2
P.O. Number: QZM-Buck-005
Number of Samples: 59

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	59	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	59	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC: Data Email



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 27, 2012

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CERTIFICATE OF ANALYSIS

SMI12000053.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
G1-SMI	Prep Blank	<0.01	<0.1	2.7	3.6	48	<0.1	3.4	4.7	617	1.99	<0.5	1.3	6.4	80	<0.1	<0.1	<0.1	38	0.64	0.086
G1-SMI	Prep Blank	<0.01	0.1	3.0	3.4	47	<0.1	2.6	4.6	612	2.00	0.7	1.6	6.3	72	<0.1	<0.1	<0.1	39	0.61	0.085
964400	Rock	0.26	1.1	2.1	7.3	118	<0.1	2.0	9.9	2422	3.51	6.8	1.8	1.6	132	0.2	0.2	0.1	43	5.66	0.098
964401	Rock	0.48	0.3	12.4	5.1	60	<0.1	3.5	12.8	951	3.16	5.5	1.6	2.3	185	<0.1	0.2	<0.1	77	3.15	0.179
964402	Rock	0.31	4.9	61.4	8.2	27	<0.1	2.7	8.1	205	3.66	14.6	9.9	3.7	27	<0.1	0.1	0.9	34	0.18	0.102
964403	Rock	0.58	1.3	1.1	6.9	94	<0.1	2.7	10.0	1162	3.76	6.5	1.0	2.3	120	<0.1	0.5	0.2	75	4.02	0.128
964404	Rock	0.75	1.8	5.5	5.6	77	<0.1	3.3	12.4	916	4.33	3.7	1.2	2.9	38	<0.1	0.3	<0.1	92	1.37	0.110
964405	Rock	0.35	0.9	27.7	4.0	93	<0.1	5.3	15.5	852	3.99	4.3	0.7	3.1	48	0.1	<0.1	<0.1	134	0.98	0.168
964406	Rock	0.88	1.4	7.1	3.9	130	<0.1	2.6	14.6	539	5.33	7.9	<0.5	3.8	77	<0.1	0.3	<0.1	79	1.11	0.150
964407	Rock	0.27	1.1	18.8	3.6	19	<0.1	2.4	5.8	1226	2.39	4.5	<0.5	4.3	70	0.2	0.1	<0.1	66	1.04	0.130
964408	Rock	1.10	0.3	5.5	3.5	52	<0.1	1.1	5.2	770	2.73	4.1	1.0	3.9	124	<0.1	<0.1	<0.1	46	1.63	0.132
964409	Rock	1.03	0.2	4.1	3.3	90	<0.1	1.6	6.3	833	2.99	2.2	1.0	3.4	130	0.1	<0.1	<0.1	34	1.56	0.142
964410	Rock	0.83	0.5	4.6	5.3	86	<0.1	1.1	5.6	840	3.09	3.2	1.2	3.2	189	0.2	<0.1	<0.1	46	2.00	0.148
964411	Rock	1.47	1.8	15.8	4.8	103	<0.1	11.7	13.3	974	3.35	0.6	1.6	3.1	92	0.3	<0.1	<0.1	101	0.93	0.225
964412	Rock	0.93	0.3	12.9	7.6	67	<0.1	2.6	8.4	883	3.01	5.3	<0.5	4.7	109	0.3	<0.1	0.2	43	1.88	0.132
964413	Rock	0.75	0.6	4.5	8.9	68	<0.1	3.3	7.1	846	3.96	4.2	1.0	4.8	178	<0.1	<0.1	0.1	43	2.51	0.144
964414	Rock	0.78	0.4	4.2	4.0	92	<0.1	1.6	6.1	1013	2.72	2.0	0.5	4.2	107	0.3	<0.1	<0.1	45	1.79	0.132
964415	Rock	0.78	0.2	4.8	5.1	116	<0.1	1.7	6.0	1192	3.70	3.0	<0.5	3.0	115	0.4	<0.1	<0.1	43	1.24	0.140
964416	Rock	0.77	0.4	2.9	6.6	134	<0.1	1.4	6.3	1115	2.90	2.6	0.8	3.7	109	0.4	<0.1	<0.1	43	2.40	0.128
964417	Rock	0.88	0.3	16.3	1.1	57	<0.1	3.3	10.6	842	3.41	0.6	<0.5	3.4	50	<0.1	<0.1	<0.1	76	1.59	0.109
964418	Rock	2.91	0.7	3.6	3.7	49	<0.1	2.9	8.7	982	3.60	2.1	<0.5	3.5	67	<0.1	0.4	<0.1	71	2.24	0.082
964419	Rock	2.13	1.0	18.2	2.5	86	<0.1	2.6	9.6	688	3.52	1.5	0.8	2.5	70	0.1	<0.1	<0.1	89	2.01	0.145
964420	Rock	1.45	1.1	14.9	3.3	48	<0.1	1.9	9.1	897	3.42	2.0	1.4	4.3	97	0.2	<0.1	<0.1	80	2.49	0.134
964421	Rock	0.69	1.7	5.0	11.8	26	<0.1	1.1	8.0	102	4.13	81.6	0.9	3.4	106	<0.1	0.8	<0.1	47	0.09	0.086
964422	Rock	5.50	0.5	8.4	3.0	62	<0.1	1.4	9.2	824	3.45	2.3	0.9	4.0	87	<0.1	<0.1	<0.1	62	1.82	0.139
964423	Rock	0.54	0.3	5.1	1.7	30	<0.1	1.3	4.2	468	1.79	1.0	1.4	1.9	30	<0.1	<0.1	<0.1	29	0.58	0.062
964424	Rock	2.25	0.6	7.4	2.9	52	<0.1	1.4	7.7	1049	2.48	3.2	1.8	3.5	63	<0.1	<0.1	0.1	57	1.79	0.119
964425	Rock	2.30	0.8	19.5	4.3	7	<0.1	1.1	2.3	83	0.44	1.6	0.7	0.5	25	<0.1	0.3	0.2	12	0.03	<0.001
964426	Rock	1.59	0.5	17.0	6.2	17	<0.1	4.1	10.7	197	3.62	4.2	1.0	2.9	27	<0.1	0.2	<0.1	29	0.44	0.104
964427	Rock	0.41	0.4	17.5	3.9	52	<0.1	4.1	11.6	1048	3.24	1.9	<0.5	3.5	102	<0.1	<0.1	<0.1	68	2.24	0.104

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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Quartz Mountain Resources Ltd.**
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 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 27, 2012

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CERTIFICATE OF ANALYSIS

SMI1200053.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
G1-SMI	Prep Blank	13	6	0.56	215	0.147	1	1.24	0.189	0.63	<0.1	<0.01	3.0	0.4	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	14	6	0.56	214	0.141	<1	1.16	0.160	0.60	<0.1	<0.01	3.0	0.4	<0.05	5	<0.5	<0.2
964400	Rock	11	2	0.26	555	<0.001	7	0.84	0.046	0.22	<0.1	<0.01	6.3	<0.1	0.22	2	<0.5	<0.2
964401	Rock	19	2	0.39	621	0.018	7	0.64	0.049	0.19	<0.1	<0.01	8.8	<0.1	<0.05	3	<0.5	<0.2
964402	Rock	9	3	0.14	63	0.003	3	0.74	0.063	0.27	<0.1	<0.01	2.4	0.1	1.73	3	1.1	0.2
964403	Rock	11	4	0.07	313	0.015	4	0.59	0.061	0.14	0.2	<0.01	7.4	<0.1	<0.05	2	<0.5	<0.2
964404	Rock	18	5	0.43	215	0.061	3	1.28	0.060	0.13	0.3	<0.01	5.5	<0.1	<0.05	7	<0.5	<0.2
964405	Rock	21	3	1.87	231	0.273	4	1.48	0.108	0.12	0.2	<0.01	7.5	<0.1	<0.05	10	<0.5	<0.2
964406	Rock	16	2	0.35	187	0.148	4	1.36	0.123	0.15	0.3	<0.01	6.2	<0.1	<0.05	7	<0.5	<0.2
964407	Rock	16	2	0.17	275	0.038	2	0.55	0.086	0.13	0.2	<0.01	5.8	<0.1	<0.05	2	<0.5	<0.2
964408	Rock	10	2	0.12	124	0.062	3	0.92	0.087	0.11	<0.1	<0.01	6.9	<0.1	<0.05	5	<0.5	<0.2
964409	Rock	11	2	0.16	132	0.037	4	1.17	0.071	0.12	<0.1	<0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
964410	Rock	11	2	0.17	129	0.060	4	1.15	0.080	0.11	<0.1	<0.01	6.3	<0.1	<0.05	6	<0.5	<0.2
964411	Rock	32	4	0.55	276	0.147	<1	0.75	0.183	0.23	0.2	<0.01	4.7	<0.1	<0.05	4	<0.5	<0.2
964412	Rock	18	2	0.19	182	0.021	3	1.40	0.050	0.08	<0.1	<0.01	6.8	0.2	<0.05	6	<0.5	<0.2
964413	Rock	19	2	0.21	149	0.091	6	1.18	0.055	0.20	0.2	<0.01	4.2	<0.1	<0.05	7	<0.5	<0.2
964414	Rock	13	2	0.20	168	0.041	3	1.09	0.072	0.09	<0.1	<0.01	7.1	<0.1	<0.05	6	<0.5	<0.2
964415	Rock	11	2	0.20	205	0.066	3	1.33	0.061	0.11	<0.1	<0.01	5.5	<0.1	<0.05	8	<0.5	<0.2
964416	Rock	11	2	0.16	155	0.026	4	1.30	0.034	0.07	<0.1	<0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
964417	Rock	13	5	1.17	114	0.052	1	1.38	0.106	0.12	<0.1	<0.01	5.9	<0.1	<0.05	6	<0.5	<0.2
964418	Rock	9	3	0.37	333	0.005	6	1.33	0.053	0.12	<0.1	0.03	7.6	<0.1	<0.05	4	<0.5	<0.2
964419	Rock	12	6	0.38	240	0.038	2	0.98	0.126	0.14	<0.1	<0.01	9.1	<0.1	<0.05	5	<0.5	<0.2
964420	Rock	14	5	0.58	650	0.028	3	1.12	0.102	0.14	0.1	<0.01	8.0	<0.1	<0.05	6	<0.5	<0.2
964421	Rock	4	2	0.01	225	0.002	1	0.73	0.094	0.31	<0.1	1.93	6.8	16.4	0.68	2	4.2	12.5
964422	Rock	10	2	0.17	592	0.007	4	0.85	0.097	0.17	<0.1	0.11	6.7	<0.1	<0.05	3	<0.5	<0.2
964423	Rock	5	2	0.11	1210	0.004	<1	0.41	0.045	0.05	<0.1	0.10	3.4	0.1	<0.05	1	<0.5	<0.2
964424	Rock	9	2	0.30	734	0.008	3	0.84	0.089	0.13	<0.1	0.02	6.9	<0.1	0.08	3	<0.5	<0.2
964425	Rock	<1	2	<0.01	2344	0.017	<1	0.27	0.005	<0.01	<0.1	0.54	0.7	0.3	0.05	<1	<0.5	0.3
964426	Rock	5	2	0.15	34	0.001	2	0.98	0.077	0.12	<0.1	0.10	5.0	0.1	2.75	4	<0.5	<0.2
964427	Rock	13	5	1.10	383	0.098	<1	1.11	0.079	0.15	0.1	<0.01	6.5	<0.1	<0.05	5	<0.5	<0.2



Acme Analytical Laboratories (Vancouver) Ltd.
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 15th Floor - 1040 West Georgia Street
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Project: Buck
 Report Date: July 27, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000053.1

Method Analyte	Unit	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
964428	Rock	0.85	0.9	10.6	5.3	100	<0.1	5.6	18.6	2353	4.07	4.7	0.7	2.3	75	0.1	0.1	<0.1	94	2.35	0.182
964429	Rock	1.28	0.5	14.2	1.9	58	<0.1	4.1	14.5	798	3.80	2.2	<0.5	3.5	30	<0.1	<0.1	<0.1	73	0.63	0.112
964430	Rock	1.14	0.3	8.3	1.8	38	<0.1	2.6	7.9	1175	3.05	1.3	0.8	2.9	57	<0.1	<0.1	<0.1	55	2.19	0.111
964431	Rock	0.43	0.1	11.1	2.7	41	<0.1	2.9	9.4	926	2.75	1.5	0.9	2.8	98	<0.1	<0.1	<0.1	41	2.12	0.107
964432	Rock	3.60	1.1	18.1	5.2	58	<0.1	4.0	14.2	1400	3.82	5.0	1.1	2.9	71	<0.1	0.1	0.4	59	1.37	0.102
964433	Rock	0.51	0.4	4.7	0.7	74	<0.1	2.8	6.6	2329	4.04	0.7	1.9	3.6	50	0.2	<0.1	<0.1	79	4.20	0.102
964434	Rock	2.21	7.2	15.3	5.2	75	<0.1	6.0	20.2	1534	3.31	6.4	0.6	1.8	66	<0.1	0.1	<0.1	55	0.85	0.104
964435	Rock	1.31	0.7	17.0	2.0	58	<0.1	3.5	11.8	753	3.81	2.2	<0.5	2.8	48	<0.1	<0.1	<0.1	73	1.06	0.112
964436	Rock	0.69	0.6	20.2	5.3	74	<0.1	3.6	11.1	1010	3.41	3.4	0.5	3.4	39	0.2	0.1	<0.1	75	1.21	0.114
964437	Rock	0.61	0.9	15.1	3.3	83	<0.1	3.1	10.9	1438	3.28	1.3	0.5	3.8	82	0.2	<0.1	<0.1	59	2.54	0.102
964438	Rock	0.86	0.4	16.6	3.6	54	<0.1	3.1	9.3	897	2.46	1.6	<0.5	3.5	80	<0.1	0.1	<0.1	49	1.89	0.115
964439	Rock	0.59	0.5	11.0	3.5	53	<0.1	5.5	10.4	1523	2.93	1.0	<0.5	3.7	66	0.2	<0.1	<0.1	75	1.96	0.087
964440	Rock	0.72	1.2	20.0	5.3	60	<0.1	3.3	12.9	997	3.59	5.0	1.0	4.0	120	<0.1	0.2	<0.1	79	2.56	0.102
964441	Rock	0.57	2.2	17.9	5.2	158	<0.1	7.5	30.2	3519	4.79	9.4	<0.5	2.6	37	0.2	0.5	<0.1	68	0.98	0.094
964442	Rock	0.91	3.0	16.3	4.2	127	<0.1	7.5	17.8	812	2.74	4.9	1.1	2.5	88	0.1	0.1	<0.1	58	1.35	0.160
964443	Rock	0.47	4.1	12.2	4.7	51	<0.1	5.3	15.7	1526	3.51	3.0	<0.5	1.7	57	<0.1	0.1	<0.1	47	1.04	0.102
964454	Rock	3.29	2.2	15.1	5.0	16	<0.1	2.6	6.1	77	3.58	6.6	<0.5	0.9	68	<0.1	0.2	<0.1	24	0.08	0.042
964455	Rock	3.44	1.0	16.1	5.5	14	<0.1	2.9	6.0	110	3.21	4.7	<0.5	2.4	35	<0.1	0.1	<0.1	25	0.16	0.088
964456	Rock	4.12	1.1	15.1	6.0	72	<0.1	3.6	9.5	279	3.60	5.4	0.9	2.9	22	<0.1	0.2	<0.1	24	0.42	0.090
964457	Rock	5.46	1.0	17.1	4.8	27	<0.1	4.6	9.4	201	3.12	6.1	1.3	3.9	21	<0.1	0.1	<0.1	23	0.28	0.097
964458	Rock	3.55	0.6	16.8	4.7	41	<0.1	6.2	12.4	655	3.03	3.3	0.6	4.3	36	<0.1	0.1	<0.1	43	0.31	0.119
964459	Rock	5.61	0.9	16.2	5.1	39	<0.1	6.1	12.8	770	2.97	4.6	<0.5	4.1	34	<0.1	0.1	0.1	39	0.83	0.098
964460	Rock	3.79	1.8	20.8	10.9	67	<0.1	5.3	13.5	589	3.41	17.7	<0.5	5.4	64	<0.1	0.4	0.5	35	0.19	0.115
964461	Rock	3.18	0.9	25.8	8.0	18	<0.1	5.9	11.7	472	3.50	9.4	<0.5	1.7	77	<0.1	0.4	<0.1	32	0.13	0.053
964462	Rock	3.40	2.6	21.1	7.8	8	<0.1	3.9	10.1	54	2.88	11.7	<0.5	0.8	77	<0.1	0.3	0.2	20	0.06	0.006
964463	Rock	2.90	1.0	30.9	4.5	74	0.1	18.7	16.1	623	3.79	9.6	0.7	1.7	102	<0.1	0.3	<0.1	64	2.11	0.056
964464	Rock	4.47	0.1	19.2	4.4	28	<0.1	3.7	12.2	775	3.33	4.7	<0.5	2.3	61	<0.1	0.2	<0.1	33	0.99	0.073
964465	Rock	3.29	0.9	10.3	4.0	13	<0.1	3.1	10.6	141	2.13	4.4	<0.5	1.5	141	<0.1	<0.1	<0.1	23	1.17	0.029
964466	Rock	3.15	1.1	17.1	9.2	58	<0.1	5.7	12.6	714	3.18	5.3	<0.5	3.9	68	0.1	0.2	0.3	56	0.62	0.118
964467	Rock	3.47	0.6	12.4	4.5	51	<0.1	4.2	10.1	840	2.91	2.9	<0.5	4.4	56	<0.1	0.1	<0.1	70	0.79	0.124

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 27, 2012

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CERTIFICATE OF ANALYSIS

SMI1200053.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
964428	Rock	20	3	0.65	560	0.103	2	1.50	0.061	0.21	0.3	0.02	6.4	<0.1	0.06	7	0.5	<0.2
964429	Rock	12	5	0.52	189	0.044	2	1.37	0.094	0.12	0.1	0.02	7.6	<0.1	<0.05	6	<0.5	<0.2
964430	Rock	8	3	0.60	825	0.028	1	1.02	0.061	0.11	<0.1	<0.01	7.3	<0.1	<0.05	4	<0.5	<0.2
964431	Rock	8	3	0.43	699	0.053	1	0.94	0.069	0.10	<0.1	0.01	6.0	<0.1	0.11	5	<0.5	<0.2
964432	Rock	6	3	0.23	350	0.006	2	1.18	0.048	0.11	<0.1	0.03	6.9	<0.1	0.41	3	0.6	0.2
964433	Rock	8	4	1.15	135	0.045	2	1.01	0.052	0.07	<0.1	<0.01	7.9	<0.1	<0.05	4	<0.5	<0.2
964434	Rock	6	3	0.13	134	0.003	3	0.72	0.036	0.09	<0.1	0.02	7.9	0.1	0.68	3	<0.5	<0.2
964435	Rock	14	5	1.06	264	0.011	3	1.22	0.092	0.09	<0.1	<0.01	5.7	<0.1	<0.05	9	<0.5	<0.2
964436	Rock	15	5	1.06	234	0.199	2	1.00	0.097	0.12	0.4	<0.01	6.3	<0.1	<0.05	8	<0.5	<0.2
964437	Rock	14	4	0.65	336	0.018	4	1.55	0.053	0.11	<0.1	<0.01	4.4	<0.1	<0.05	7	<0.5	<0.2
964438	Rock	14	3	0.82	126	0.033	3	1.43	0.055	0.12	0.2	<0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
964439	Rock	19	4	0.69	610	0.098	3	0.99	0.056	0.14	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
964440	Rock	10	4	0.55	1068	0.015	4	0.81	0.032	0.11	<0.1	<0.01	7.4	<0.1	<0.05	3	<0.5	<0.2
964441	Rock	7	4	0.18	50	0.004	2	0.71	0.039	0.10	<0.1	0.21	7.6	0.2	1.54	2	<0.5	<0.2
964442	Rock	7	4	0.26	45	0.004	3	0.67	0.040	0.09	<0.1	0.02	7.4	<0.1	1.39	2	<0.5	<0.2
964443	Rock	7	5	0.15	67	0.007	2	0.75	0.044	0.10	<0.1	0.02	9.2	<0.1	1.39	3	<0.5	<0.2
964454	Rock	2	2	0.03	52	<0.001	2	0.68	0.039	0.08	<0.1	0.21	4.3	0.1	1.24	2	<0.5	<0.2
964455	Rock	2	2	0.06	55	0.001	<1	0.68	0.046	0.10	<0.1	0.14	4.9	0.1	1.60	3	<0.5	<0.2
964456	Rock	5	2	0.14	43	0.001	3	0.68	0.054	0.09	<0.1	0.12	4.3	0.2	2.10	3	<0.5	<0.2
964457	Rock	7	2	0.09	48	0.001	2	0.79	0.052	0.10	<0.1	0.11	4.6	0.2	1.82	3	0.5	<0.2
964458	Rock	10	3	0.12	194	0.002	1	0.99	0.060	0.11	<0.1	0.12	6.4	<0.1	0.55	4	<0.5	<0.2
964459	Rock	9	3	0.27	73	0.002	3	0.68	0.052	0.11	<0.1	0.10	5.9	0.1	1.17	3	<0.5	<0.2
964460	Rock	12	3	0.08	612	0.002	2	0.85	0.062	0.10	<0.1	0.05	6.3	<0.1	0.22	3	<0.5	0.8
964461	Rock	2	2	0.03	408	0.001	3	0.61	0.009	0.07	<0.1	0.21	5.9	0.2	0.28	2	<0.5	<0.2
964462	Rock	1	2	0.02	899	<0.001	3	0.81	0.004	0.05	<0.1	0.20	3.5	0.2	0.14	2	<0.5	0.2
964463	Rock	4	26	0.40	1229	0.002	5	0.74	0.005	0.09	<0.1	0.15	8.7	0.2	0.11	2	<0.5	<0.2
964464	Rock	3	2	0.21	151	0.001	5	0.78	0.020	0.10	<0.1	0.11	6.6	0.1	0.69	2	<0.5	<0.2
964465	Rock	1	2	0.06	345	<0.001	4	0.62	0.003	0.08	<0.1	0.06	3.7	0.2	0.31	2	<0.5	0.2
964466	Rock	11	4	0.26	1222	0.029	6	1.12	0.060	0.10	<0.1	0.12	5.6	<0.1	0.09	5	<0.5	<0.2
964467	Rock	13	4	0.51	861	0.038	2	1.36	0.053	0.09	<0.1	0.06	5.6	<0.1	<0.05	7	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Quartz Mountain Resources Ltd.
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS

SMI1200053.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
964468	Rock	1.85	0.2	0.2	1.4	51	<0.1	0.8	6.3	1291	3.13	2.5	<0.5	0.7	14	<0.1	0.2	<0.1	22	0.60	0.132



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

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 Vancouver BC V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
964468	Rock	13	1	0.34	192	0.004	6	0.92	0.064	0.23	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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QUALITY CONTROL REPORT

SMI12000053.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
964418	Rock	2.91	0.7	3.6	3.7	49	<0.1	2.9	8.7	982	3.60	2.1	<0.5	3.5	67	<0.1	0.4	<0.1	71	2.24	0.082
REP 964418	QC		0.9	4.0	3.8	49	<0.1	3.0	8.7	974	3.59	2.0	0.9	3.5	62	<0.1	0.4	<0.1	70	2.24	0.081
964419	Rock	2.13	1.0	18.2	2.5	86	<0.1	2.6	9.6	688	3.52	1.5	0.8	2.5	70	0.1	<0.1	<0.1	89	2.01	0.145
REP 964419	QC		1.0	18.7	2.5	87	<0.1	2.9	10.2	717	3.54	1.8	1.1	2.5	70	<0.1	<0.1	<0.1	89	2.03	0.146
964463	Rock	2.90	1.0	30.9	4.5	74	0.1	18.7	16.1	623	3.79	9.6	0.7	1.7	102	<0.1	0.3	<0.1	64	2.11	0.056
REP 964463	QC		1.1	29.4	4.2	74	0.1	17.6	15.8	649	3.76	9.5	0.9	1.7	99	<0.1	0.2	<0.1	64	2.10	0.054
964464	Rock	4.47	0.1	19.2	4.4	28	<0.1	3.7	12.2	775	3.33	4.7	<0.5	2.3	61	<0.1	0.2	<0.1	33	0.99	0.073
REP 964464	QC		<0.1	18.3	4.2	25	<0.1	4.0	11.5	730	3.28	4.2	<0.5	2.2	58	<0.1	0.2	<0.1	33	0.97	0.067
Core Reject Duplicates																					
964413	Rock	0.75	0.6	4.5	8.9	68	<0.1	3.3	7.1	846	3.96	4.2	1.0	4.8	178	<0.1	<0.1	0.1	43	2.51	0.144
DUP 964413	QC	<0.01	0.6	5.3	8.8	70	<0.1	3.4	7.1	851	3.94	4.1	1.3	4.9	171	0.1	0.1	<0.1	43	2.39	0.143
964457	Rock	5.46	1.0	17.1	4.8	27	<0.1	4.6	9.4	201	3.12	6.1	1.3	3.9	21	<0.1	0.1	<0.1	23	0.28	0.097
DUP 964457	QC	<0.01	1.1	16.8	5.1	32	<0.1	4.4	9.6	195	3.11	6.2	<0.5	3.8	21	<0.1	0.2	<0.1	22	0.28	0.102
Reference Materials																					
STD DS9	Standard		13.3	110.3	125.6	313	1.9	40.7	7.7	588	2.37	26.5	118.3	6.8	75	2.3	6.1	7.0	40	0.75	0.086
STD DS9	Standard		12.8	105.7	123.1	287	1.7	41.3	7.2	545	2.20	24.9	113.7	6.6	68	2.4	5.8	7.2	37	0.68	0.080
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-SMI	Prep Blank	<0.01	<0.1	2.7	3.6	48	<0.1	3.4	4.7	617	1.99	<0.5	1.3	6.4	80	<0.1	<0.1	<0.1	38	0.64	0.086
G1-SMI	Prep Blank	<0.01	0.1	3.0	3.4	47	<0.1	2.6	4.6	612	2.00	0.7	1.6	6.3	72	<0.1	<0.1	<0.1	39	0.61	0.085



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QUALITY CONTROL REPORT

SMI12000053.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
964418	Rock	9	3	0.37	333	0.005	6	1.33	0.053	0.12	<0.1	0.03	7.6	<0.1	<0.05	4	<0.5	<0.2
REP 964418	QC	9	3	0.37	322	0.005	4	1.30	0.052	0.12	<0.1	0.05	7.3	<0.1	<0.05	4	<0.5	<0.2
964419	Rock	12	6	0.38	240	0.038	2	0.98	0.126	0.14	<0.1	<0.01	9.1	<0.1	<0.05	5	<0.5	<0.2
REP 964419	QC	13	6	0.38	238	0.038	3	1.00	0.129	0.14	<0.1	<0.01	9.1	<0.1	<0.05	5	<0.5	<0.2
964463	Rock	4	26	0.40	1229	0.002	5	0.74	0.005	0.09	<0.1	0.15	8.7	0.2	0.11	2	<0.5	<0.2
REP 964463	QC	4	26	0.40	1171	0.002	2	0.71	0.005	0.08	<0.1	0.13	8.5	0.2	0.11	2	<0.5	<0.2
964464	Rock	3	2	0.21	151	0.001	5	0.78	0.020	0.10	<0.1	0.11	6.6	0.1	0.69	2	<0.5	<0.2
REP 964464	QC	3	2	0.21	138	0.001	5	0.78	0.020	0.10	<0.1	0.10	6.0	0.1	0.68	2	<0.5	<0.2
Core Reject Duplicates																		
964413	Rock	19	2	0.21	149	0.091	6	1.18	0.055	0.20	0.2	<0.01	4.2	<0.1	<0.05	7	<0.5	<0.2
DUP 964413	QC	19	2	0.20	152	0.091	5	1.20	0.059	0.20	0.2	<0.01	4.2	<0.1	<0.05	7	<0.5	<0.2
964457	Rock	7	2	0.09	48	0.001	2	0.79	0.052	0.10	<0.1	0.11	4.6	0.2	1.82	3	0.5	<0.2
DUP 964457	QC	7	2	0.09	49	0.001	1	0.71	0.043	0.09	<0.1	0.12	4.7	0.2	1.80	3	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	14	123	0.64	326	0.122	2	1.00	0.092	0.41	3.3	0.19	2.6	5.6	0.16	5	5.0	5.5
STD DS9	Standard	11	112	0.59	287	0.106	2	0.90	0.078	0.38	2.8	0.22	2.2	5.3	0.16	4	5.2	5.0
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-SMI	Prep Blank	13	6	0.56	215	0.147	1	1.24	0.189	0.63	<0.1	<0.01	3.0	0.4	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	14	6	0.56	214	0.141	<1	1.16	0.160	0.60	<0.1	<0.01	3.0	0.4	<0.05	5	<0.5	<0.2



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Submitted By: Ted Oliver
Receiving Lab: Canada-Smithers
Received: July 04, 2012
Report Date: July 27, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000054.1

CLIENT JOB INFORMATION

Project: Buck
Shipment ID: WA3
P.O. Number: QZM-BUCK-007
Number of Samples: 4

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	4	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	4	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
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Canada

CC: Data Email



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Project: Buck
 Report Date: July 27, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000054.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
G1-SMI	Prep Blank	<0.01	0.1	2.1	3.9	41	<0.1	3.2	3.8	519	1.82	9.7	0.6	5.9	61	<0.1	<0.1	<0.1	35	0.46	0.067
964444	Rock	0.72	1.1	27.6	1.7	85	<0.1	13.3	26.1	1572	6.20	10.5	1.6	2.2	73	<0.1	0.1	<0.1	125	1.58	0.136
964445	Rock	1.43	0.6	24.0	1.8	79	<0.1	9.8	21.7	1612	4.62	8.2	<0.5	1.8	152	0.2	0.2	<0.1	131	2.22	0.137
964446	Rock	0.52	0.3	17.8	4.6	102	<0.1	7.8	11.0	849	3.25	38.6	<0.5	3.6	218	0.5	0.1	<0.1	86	3.01	0.163
964447	Rock	0.42	2.5	16.5	6.0	76	<0.1	14.1	12.6	807	2.84	11.7	0.7	11.5	65	0.1	0.4	<0.1	88	0.62	0.128



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Project: Buck
 Report Date: July 27, 2012

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CERTIFICATE OF ANALYSIS

SMI12000054.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
G1-SMI	Prep Blank	13	10	0.50	169	0.128	1	0.88	0.083	0.48	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2
964444	Rock	7	29	0.60	78	0.021	6	0.76	0.078	0.12	<0.1	<0.01	20.6	<0.1	<0.05	3	<0.5	<0.2
964445	Rock	9	26	0.88	93	0.018	7	1.85	0.286	0.11	<0.1	<0.01	17.1	<0.1	<0.05	4	<0.5	<0.2
964446	Rock	12	30	0.65	699	0.002	5	0.79	0.040	0.06	<0.1	0.25	9.5	<0.1	0.12	2	<0.5	<0.2
964447	Rock	34	7	0.74	150	0.143	1	0.66	0.125	0.16	0.3	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2



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Project: Buck

Report Date: July 27, 2012

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QUALITY CONTROL REPORT

SMI12000054.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Core Reject Duplicates																					
964444	Rock	0.72	1.1	27.6	1.7	85	<0.1	13.3	26.1	1572	6.20	10.5	1.6	2.2	73	<0.1	0.1	<0.1	125	1.58	0.136
DUP 964444	QC	<0.01	1.2	29.3	2.9	91	<0.1	14.1	26.0	1595	6.31	9.5	1.4	2.2	71	<0.1	0.2	<0.1	123	1.55	0.134
Reference Materials																					
STD DS9	Standard		13.6	109.7	127.3	305	1.8	39.6	7.8	581	2.37	26.4	107.7	7.4	84	2.3	6.4	6.7	40	0.76	0.083
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	0.2	0.1	<1	<0.1	<0.1	<0.1	<1	0.04	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.02	<0.001
Prep Wash																					
G1-SMI	Prep Blank	<0.01	0.1	2.1	3.9	41	<0.1	3.2	3.8	519	1.82	9.7	0.6	5.9	61	<0.1	<0.1	<0.1	35	0.46	0.067



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Project: Buck

Report Date: July 27, 2012

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Part: 2 of 2

QUALITY CONTROL REPORT

SMI12000054.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Core Reject Duplicates																		
964444	Rock	7	29	0.60	78	0.021	6	0.76	0.078	0.12	<0.1	<0.01	20.6	<0.1	<0.05	3	<0.5	<0.2
DUP 964444	QC	6	29	0.62	77	0.018	6	0.69	0.067	0.10	<0.1	<0.01	20.9	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	15	121	0.63	307	0.130	3	0.97	0.090	0.42	3.0	0.21	2.6	5.4	0.17	5	6.3	5.2
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-SMI	Prep Blank	13	10	0.50	169	0.128	1	0.88	0.083	0.48	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Ted Oliver
Receiving Lab: Canada-Smithers
Received: July 04, 2012
Report Date: July 30, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000055.1

CLIENT JOB INFORMATION

Project: Buck
Shipment ID: WA3
P.O. Number: QZM-Buck-008
Number of Samples: 8

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	8	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	8	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC: Data Email



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Project: Buck
 Report Date: July 30, 2012

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000055.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
G1-SMI	Prep Blank	<0.01	0.1	3.1	5.0	47	<0.1	3.2	4.3	569	1.88	3.3	<0.5	5.9	58	<0.1	<0.1	<0.1	35	0.48	0.082
G1-SMI	Prep Blank	<0.01	<0.1	2.3	3.5	44	<0.1	3.2	4.3	558	1.81	<0.5	0.8	6.1	58	<0.1	<0.1	<0.1	34	0.46	0.078
964469	Rock	1.79	0.6	13.0	2.0	39	<0.1	3.3	4.8	422	1.65	3.6	<0.5	4.2	71	<0.1	<0.1	<0.1	27	0.76	0.053
964470	Rock	0.92	0.7	15.4	1.7	39	<0.1	4.1	5.3	559	2.05	4.4	<0.5	4.0	113	<0.1	0.1	<0.1	34	1.04	0.054
964472	Rock	0.95	1.6	25.3	2.9	59	<0.1	3.4	11.0	1240	3.30	10.0	0.7	4.3	29	0.2	0.2	<0.1	73	0.36	0.107
964475	Rock	1.15	0.4	21.2	3.3	58	<0.1	34.1	17.7	564	3.71	0.7	<0.5	1.2	118	<0.1	0.7	<0.1	127	1.78	0.165
964476	Rock	0.72	0.7	8.9	3.7	60	<0.1	31.3	17.3	912	3.06	0.9	<0.5	1.2	55	0.1	<0.1	<0.1	93	1.62	0.153
964477	Rock	0.85	0.3	6.1	9.9	56	<0.1	46.8	17.6	678	3.29	0.6	0.9	1.8	91	<0.1	0.1	<0.1	65	2.74	0.107
964478	Rock	1.24	1.0	10.2	2.6	58	<0.1	2.5	9.2	882	3.63	4.7	<0.5	2.1	70	<0.1	<0.1	<0.1	67	1.80	0.121
964479	Rock	1.81	1.1	2.2	26.8	219	<0.1	2.2	9.7	943	3.49	22.1	<0.5	4.1	197	0.5	<0.1	<0.1	60	2.69	0.114



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Project: Buck
 Report Date: July 30, 2012

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI1200055.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
G1-SMI	Prep Blank	11	11	0.51	180	0.126	<1	0.94	0.108	0.53	<0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	11	9	0.52	179	0.113	<1	0.95	0.108	0.53	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2
964469	Rock	10	7	0.07	81	0.008	3	0.42	0.063	0.07	<0.1	<0.01	3.5	<0.1	<0.05	2	<0.5	<0.2
964470	Rock	9	6	0.12	97	0.010	2	0.44	0.071	0.08	<0.1	<0.01	3.9	<0.1	<0.05	2	<0.5	<0.2
964472	Rock	11	4	0.04	194	0.025	4	0.52	0.077	0.16	<0.1	<0.01	10.8	<0.1	<0.05	2	<0.5	<0.2
964475	Rock	15	16	1.35	81	0.147	4	1.97	0.133	0.12	<0.1	<0.01	5.1	<0.1	<0.05	8	<0.5	<0.2
964476	Rock	14	19	1.66	81	0.202	6	1.83	0.067	0.11	<0.1	<0.01	5.0	<0.1	<0.05	7	<0.5	<0.2
964477	Rock	14	77	1.50	66	0.016	3	2.13	0.133	0.15	<0.1	<0.01	8.7	<0.1	<0.05	7	<0.5	<0.2
964478	Rock	8	5	0.19	139	0.047	2	0.70	0.085	0.10	0.2	<0.01	9.6	<0.1	<0.05	4	<0.5	<0.2
964479	Rock	12	4	0.73	128	0.017	7	1.23	0.063	0.20	0.1	<0.01	7.6	<0.1	<0.05	5	0.5	<0.2



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Project: Buck
 Report Date: July 30, 2012

Page: 1 of 1

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QUALITY CONTROL REPORT

SMI12000055.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Reference Materials																					
STD DS9	Standard	12.2	113.8	125.8	308	1.9	42.1	7.7	582	2.28	25.6	113.4	6.6	70	2.4	5.7	7.2	41	0.71	0.080	
STD DS9	Standard	12.8	105.7	123.1	287	1.7	41.3	7.2	545	2.20	24.9	113.7	6.6	68	2.4	5.8	7.2	37	0.68	0.080	
STD DS9	Standard	14.0	106.7	131.2	307	1.8	39.9	7.6	600	2.33	25.5	113.5	6.1	69	2.4	5.4	6.1	39	0.75	0.084	
STD DS9	Expected	12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	
Prep Wash																					
G1-SMI	Prep Blank	<0.01	0.1	3.1	5.0	47	<0.1	3.2	4.3	569	1.88	3.3	<0.5	5.9	58	<0.1	<0.1	<0.1	35	0.48	0.082
G1-SMI	Prep Blank	<0.01	<0.1	2.3	3.5	44	<0.1	3.2	4.3	558	1.81	<0.5	0.8	6.1	58	<0.1	<0.1	<0.1	34	0.46	0.078



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Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 30, 2012

Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

SMI12000055.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Reference Materials																		
STD DS9	Standard	13	118	0.63	303	0.115	3	0.96	0.079	0.40	3.1	0.22	2.3	5.5	0.17	5	6.7	4.6
STD DS9	Standard	11	112	0.59	287	0.106	2	0.90	0.078	0.38	2.8	0.22	2.2	5.3	0.16	4	5.2	5.0
STD DS9	Standard	13	125	0.63	310	0.118	3	1.00	0.086	0.41	3.5	0.19	2.7	5.5	0.16	5	6.0	5.0
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-SMI	Prep Blank	11	11	0.51	180	0.126	<1	0.94	0.108	0.53	<0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	11	9	0.52	179	0.113	<1	0.95	0.108	0.53	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 04, 2012

Report Date: August 08, 2012

Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000056.1

CLIENT JOB INFORMATION

Project: Buck
Shipment ID: WA3
P.O. Number: QZM-Buck-008
Number of Samples: 3

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Quartz Mountain Resources Ltd.
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CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	3	Dry at 60C			SMI
SS80	3	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	3	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Buck
 Report Date: August 08, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000056.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
964471	Silt	1.5	12.3	3.2	111	0.2	12.4	18.3	8723	4.91	12.6	0.6	0.5	89	0.7	0.2	<0.1	66	1.07	0.125	11
964473	Silt	0.9	15.0	5.9	53	0.2	11.7	6.8	779	2.58	5.2	0.8	0.5	58	0.3	0.3	0.2	55	0.66	0.127	10
964474	Silt	0.7	22.3	19.0	101	0.1	32.1	13.7	712	3.68	12.0	0.7	1.0	51	0.4	0.7	<0.1	87	0.64	0.079	8



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Project: Buck
 Report Date: August 08, 2012

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI12000056.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2
964471	Silt	8	0.19	773	0.013	5	0.90	0.014	0.05	<0.1	0.09	3.5	0.5	0.08	2	<0.5	<0.2
964473	Silt	15	0.27	264	0.014	3	1.26	0.014	0.08	<0.1	0.06	4.7	0.2	<0.05	4	<0.5	<0.2
964474	Silt	30	0.70	147	0.055	2	1.27	0.016	0.05	<0.1	0.02	6.2	<0.1	<0.05	4	<0.5	<0.2



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Project: Buck
 Report Date: August 08, 2012

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Part: 1 of 2

QUALITY CONTROL REPORT

SMI12000056.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Reference Materials																					
STD DS9	Standard	14.1	110.2	128.5	300	1.9	43.4	7.5	599	2.42	23.4	114.3	6.1	73	2.1	4.9	6.1	42	0.77	0.080	13
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: Buck

Report Date: August 08, 2012

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Part: 2 of 2

QUALITY CONTROL REPORT

SMI12000056.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Reference Materials																	
STD DS9	Standard	137	0.66	302	0.123	3	0.99	0.087	0.37	2.9	0.21	2.5	5.7	0.18	5	6.1	5.2
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Receiving Lab: Canada-Smithers

Received: July 04, 2012

Report Date: August 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000057.1

CLIENT JOB INFORMATION

Project: Buck
Shipment ID: WA3
P.O. Number: QZM-Buck-004
Number of Samples: 7

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	7	Dry at 60C			SMI
SS80	7	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	7	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
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CC:



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Project: Buck
 Report Date: August 08, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000057.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
964350	Silt	0.8	22.2	5.2	64	0.1	31.7	12.5	643	2.94	9.2	<0.5	2.3	87	0.1	0.2	<0.1	95	0.74	0.090	17
964351	Silt	0.8	25.5	5.0	61	0.2	40.0	13.5	785	3.10	4.3	<0.5	1.6	130	0.2	0.3	<0.1	88	1.18	0.118	23
964352	Silt	1.1	22.1	4.7	63	0.2	34.0	13.7	933	2.86	10.1	<0.5	1.5	125	0.2	0.2	<0.1	80	1.24	0.115	20
964353	Silt	0.6	24.2	6.1	59	0.3	28.5	12.2	744	2.72	5.6	0.7	1.8	124	0.2	0.3	<0.1	80	0.94	0.111	27
964354	Silt	0.7	22.0	6.9	72	0.1	22.9	10.8	630	2.92	6.9	0.9	3.9	89	0.1	0.6	<0.1	85	0.72	0.158	26
964355	Silt	0.5	29.5	7.0	82	0.4	28.4	10.8	763	2.96	7.2	0.6	1.5	126	0.5	0.6	<0.1	80	1.00	0.133	38
964356	Silt	0.6	30.3	6.2	96	0.4	31.0	10.3	713	2.78	4.7	<0.5	1.1	170	0.5	0.8	<0.1	62	1.34	0.112	39



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Project: Buck
 Report Date: August 08, 2012

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI12000057.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
964350	Silt	45	0.65	165	0.157	2	1.77	0.040	0.08	<0.1	0.02	6.2	<0.1	<0.05	5	<0.5	<0.2
964351	Silt	42	0.84	164	0.129	3	1.98	0.034	0.08	<0.1	0.04	7.5	0.1	<0.05	5	<0.5	<0.2
964352	Silt	34	0.78	171	0.100	3	1.96	0.029	0.07	<0.1	0.07	7.5	0.1	0.09	5	<0.5	<0.2
964353	Silt	38	0.67	171	0.092	2	2.25	0.027	0.07	<0.1	0.06	8.0	0.1	<0.05	6	<0.5	<0.2
964354	Silt	33	0.56	172	0.118	2	1.42	0.027	0.08	<0.1	0.03	6.0	<0.1	<0.05	4	<0.5	<0.2
964355	Silt	30	0.59	194	0.055	2	2.08	0.019	0.06	<0.1	0.11	8.3	0.1	<0.05	6	<0.5	<0.2
964356	Silt	31	0.74	201	0.044	3	2.41	0.017	0.08	<0.1	0.11	8.3	0.1	0.05	6	<0.5	<0.2



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Project: Buck
 Report Date: August 08, 2012

Page: 1 of 1

Part: 1 of 2

QUALITY CONTROL REPORT

SMI12000057.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Reference Materials																					
STD DS9	Standard	14.1	110.2	128.5	300	1.9	43.4	7.5	599	2.42	23.4	114.3	6.1	73	2.1	4.9	6.1	42	0.77	0.080	13
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: Buck
 Report Date: August 08, 2012

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Part: 2 of 2

QUALITY CONTROL REPORT

SMI12000057.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Reference Materials																	
STD DS9	Standard	137	0.66	302	0.123	3	0.99	0.087	0.37	2.9	0.21	2.5	5.7	0.18	5	6.1	5.2
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Ted Oliver
Receiving Lab: Canada-Smithers
Received: July 04, 2012
Report Date: July 27, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000058.1

CLIENT JOB INFORMATION

Project: Buck
Shipment ID: Canyon
P.O. Number: QZM-BUCK-006
Number of Samples: 4

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	4	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	4	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC: Data Email



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 27, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000058.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
G1-SMI	Prep Blank	<0.01	0.1	2.7	4.1	46	<0.1	3.2	4.5	604	2.02	1.6	<0.5	6.6	74	<0.1	<0.1	<0.1	40	0.57	0.079
964448	Rock	0.37	0.9	46.5	38.7	168	1.8	1.9	2.2	1292	2.38	188.4	47.7	0.8	7	<0.1	12.9	0.3	7	0.11	0.033
964449	Rock	1.31	5.1	80.3	94.6	4565	1.6	10.8	9.0	3609	3.99	121.3	73.4	2.1	7	32.5	4.3	2.2	13	0.61	0.078
964450	Rock	1.50	11.2	103.6	1273	783	4.8	3.9	2.1	414	2.36	2752	350.6	1.9	11	8.8	32.8	3.4	7	0.13	0.056
964451	Rock	0.53	0.2	6.9	5.6	74	<0.1	89.3	29.2	745	4.50	14.9	5.0	0.6	273	0.2	0.4	0.1	156	3.89	0.094



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Project: Buck
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CERTIFICATE OF ANALYSIS

SMI1200058.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
G1-SMI	Prep Blank	14	10	0.56	202	0.144	1	1.02	0.108	0.55	<0.1	<0.01	3.0	0.4	<0.05	5	<0.5	<0.2
964448	Rock	10	5	0.05	397	0.001	4	0.41	0.005	0.41	0.3	0.25	3.7	1.2	0.24	1	<0.5	<0.2
964449	Rock	6	5	0.08	35	<0.001	3	0.42	0.003	0.34	0.3	0.15	2.0	0.4	0.51	1	<0.5	<0.2
964450	Rock	6	4	0.06	49	<0.001	3	0.40	0.004	0.38	0.4	0.64	2.0	1.1	0.61	1	0.6	0.5
964451	Rock	8	192	3.04	55	0.038	2	3.77	0.351	0.06	<0.1	<0.01	13.5	<0.1	<0.05	9	<0.5	<0.2



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www.acmelab.com

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 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 27, 2012

Page: 1 of 1

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QUALITY CONTROL REPORT

SMI12000058.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
REP G1-SMI	QC	<0.1	3.0	3.8	48	<0.1	3.1	4.5	612	2.03	1.1	<0.5	6.9	77	<0.1	<0.1	<0.1	40	0.58	0.080	
964449	Rock	1.31	5.1	80.3	94.6	4565	1.6	10.8	9.0	3609	3.99	121.3	73.4	2.1	7	32.5	4.3	2.2	13	0.61	0.078
REP 964449	QC		5.2	78.7	92.5	4563	1.6	10.6	8.5	3606	3.95	119.8	56.3	2.2	7	32.0	4.5	2.3	13	0.63	0.079
Reference Materials																					
STD DS9	Standard		13.6	109.7	127.3	305	1.8	39.6	7.8	581	2.37	26.4	107.7	7.4	84	2.3	6.4	6.7	40	0.76	0.083
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	0.2	0.1	<1	<0.1	<0.1	<0.1	<1	0.04	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.02	<0.001
Prep Wash																					
G1-SMI	Prep Blank	<0.01																			
G1-SMI	Prep Blank		0.1	2.7	4.1	46	<0.1	3.2	4.5	604	2.02	1.6	<0.5	6.6	74	<0.1	<0.1	<0.1	40	0.57	0.079



Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Quartz Mountain Resources Ltd.**

15th Floor - 1040 West Georgia Street

Vancouver BC V6E 4H1 Canada

Project: Buck

Report Date: July 27, 2012

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QUALITY CONTROL REPORT

SMI12000058.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
REP G1-SMI	QC	14	10	0.56	203	0.146	2	1.03	0.109	0.55	<0.1	<0.01	2.8	0.4	<0.05	6	<0.5	<0.2
964449	Rock	6	5	0.08	35	<0.001	3	0.42	0.003	0.34	0.3	0.15	2.0	0.4	0.51	1	<0.5	<0.2
REP 964449	QC	6	5	0.07	37	0.001	4	0.43	0.003	0.35	0.3	0.16	2.1	0.4	0.51	1	0.6	<0.2
Reference Materials																		
STD DS9	Standard	15	121	0.63	307	0.130	3	0.97	0.090	0.42	3.0	0.21	2.6	5.4	0.17	5	6.3	5.2
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-SMI	Prep Blank																	
G1-SMI	Prep Blank	14	10	0.56	202	0.144	1	1.02	0.108	0.55	<0.1	<0.01	3.0	0.4	<0.05	5	<0.5	<0.2



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Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 05, 2012

Report Date: July 24, 2012

Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000066.1

CLIENT JOB INFORMATION

Project: Buck
Shipment ID: WA2
P.O. Number: QZM-Buck-001
Number of Samples: 8

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	8	Crush, split and pulverize 250 g rock to 200 mesh			SMI
3B01	8	Fire assay fusion Au by ICP-ES	30	Completed	VAN
7AX1	8	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC:



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

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 24, 2012

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000066.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
G1-SMI	Prep Blank	<0.01	6	<0.5	2.5	3.4	50	<0.5	3.7	4.3	611	2.01	<5	1.9	6.0	80	<0.5	<0.5	<0.5	39	0.65
G1-SMI	Prep Blank	<0.01	<2	<0.5	1.7	2.8	52	<0.5	2.4	4.2	649	2.02	<5	1.7	6.4	77	<0.5	<0.5	<0.5	40	0.62
972006	Rock	0.23	<2	<0.5	9.8	5.9	149	<0.5	2.0	9.8	1244	3.83	8	<0.5	3.0	93	0.7	<0.5	<0.5	61	1.63
972007	Rock	0.27	8	1.0	8.6	7.3	88	<0.5	2.0	8.8	1141	3.58	<5	<0.5	2.5	128	0.7	<0.5	<0.5	62	2.19
972019	Rock	0.35	10	<0.5	5.1	20.8	299	<0.5	2.6	8.8	1233	3.46	<5	<0.5	2.8	226	1.9	<0.5	<0.5	67	2.76
972020	Rock	0.26	<2	1.0	6.9	24.0	374	<0.5	2.6	12.0	1178	5.64	11	0.6	3.5	107	0.7	<0.5	<0.5	102	1.30
972025	Rock	0.35	4	1.6	7.8	16.9	109	<0.5	1.2	8.1	1452	6.10	6	1.2	3.1	13	<0.5	<0.5	<0.5	82	0.21
972027	Rock	0.36	7	<0.5	5.9	11.3	202	<0.5	3.4	7.9	1072	4.05	16	0.6	3.4	49	1.3	<0.5	<0.5	69	0.68
972057	Rock	0.24	9	1.4	4.6	10.4	83	<0.5	2.1	7.5	735	4.16	7	1.9	3.2	19	0.6	<0.5	<0.5	94	0.31
972108	Rock	0.29	6	0.8	11.7	4.6	41	<0.5	3.5	7.5	1116	3.22	<5	1.6	3.4	56	<0.5	<0.5	<0.5	49	1.22



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Project: Buck
 Report Date: July 24, 2012

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI12000066.1

Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	
G1-SMI	Prep Blank	0.079	17.0	8.1	0.49	162	0.159	1.14	0.17	0.43	<0.5	<0.05	2.2	<0.5	<0.05	<5	<2
G1-SMI	Prep Blank	0.074	20.6	9.6	0.53	170	0.173	1.05	0.14	0.45	<0.5	<0.05	2.7	<0.5	<0.05	5	<2
972006	Rock	0.145	10.8	4.5	0.53	200	0.113	1.30	0.09	0.16	<0.5	<0.05	6.1	<0.5	<0.05	6	<2
972007	Rock	0.136	9.9	2.8	0.49	140	0.093	1.28	0.07	0.15	<0.5	<0.05	7.5	<0.5	<0.05	6	<2
972019	Rock	0.147	13.7	4.4	0.29	162	0.051	1.35	0.08	0.16	<0.5	<0.05	7.2	<0.5	<0.05	7	<2
972020	Rock	0.179	15.4	3.5	0.27	198	0.069	1.78	0.07	0.20	<0.5	<0.05	7.1	<0.5	<0.05	10	<2
972025	Rock	0.144	6.4	4.2	0.05	91	0.039	0.87	0.08	0.12	<0.5	<0.05	6.6	<0.5	<0.05	<5	<2
972027	Rock	0.133	12.3	3.8	0.07	141	0.038	0.80	0.07	0.14	<0.5	<0.05	7.1	<0.5	<0.05	<5	<2
972057	Rock	0.142	10.8	3.6	0.07	161	0.058	0.79	0.09	0.13	<0.5	<0.05	7.1	<0.5	<0.05	<5	<2
972108	Rock	0.103	13.6	6.6	0.60	515	0.105	1.25	0.09	0.14	<0.5	<0.05	5.3	<0.5	<0.05	5	<2



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Project: Buck

Report Date: July 24, 2012

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Part: 1 of 2

QUALITY CONTROL REPORT

SMI12000066.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
Pulp Duplicates																					
972108	Rock	0.29	6	0.8	11.7	4.6	41	<0.5	3.5	7.5	1116	3.22	<5	1.6	3.4	56	<0.5	<0.5	<0.5	49	1.22
REP 972108	QC			0.9	12.9	4.8	38	<0.5	4.0	7.4	1179	3.20	<5	1.6	3.5	55	<0.5	<0.5	<0.5	50	1.23
Reference Materials																					
STD OXD87	Standard		426																		
STD OXG99	Standard		889																		
STD SF-3A	Standard		314.6	7548	8418	10582	52.4	3414	183.7	3912	7.52	50	3.0	2.8	60	45.4	9.1	4.2	106	2.52	
STD SF-3A	Standard		317.2	7652	8412	10757	52.1	3421	181.5	3969	7.53	41	3.1	2.8	57	46.3	9.2	4.3	105	2.52	
STD SF-3A Expected			308	7705	8715	10750	54	3420	183	4100	7.75	46	3.3	2.8	58	50	10	4.6	102	2.59	
STD OXG99 Expected			932																		
STD OXD87 Expected			417																		
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	
BLK	Blank		6																		
BLK	Blank		7																		
Prep Wash																					
G1-SMI	Prep Blank	<0.01	6	<0.5	2.5	3.4	50	<0.5	3.7	4.3	611	2.01	<5	1.9	6.0	80	<0.5	<0.5	<0.5	39	0.65
G1-SMI	Prep Blank	<0.01	<2	<0.5	1.7	2.8	52	<0.5	2.4	4.2	649	2.02	<5	1.7	6.4	77	<0.5	<0.5	<0.5	40	0.62



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Project: Buck

Report Date: July 24, 2012

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QUALITY CONTROL REPORT

SMI12000066.1

Method		7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX		
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL		0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	
Pulp Duplicates																		
972108	Rock	0.103	13.6	6.6	0.60	515	0.105	1.25	0.09	0.14	<0.5	<0.05	5.3	<0.5	<0.05	5	<2	
REP 972108	QC	0.118	13.7	6.2	0.61	506	0.104	1.25	0.09	0.15	<0.5	<0.05	4.9	<0.5	<0.05	5	<2	
Reference Materials																		
STD OXD87	Standard																	
STD OXG99	Standard																	
STD SF-3A	Standard	0.053	9.0	171.3	4.15	257	0.113	0.99	0.53	0.94	3.0	0.55	3.0	2.7	5.04	<5	7	
STD SF-3A	Standard	0.056	8.5	172.6	4.15	269	0.112	0.98	0.52	0.93	3.0	0.62	3.0	2.8	5.09	<5	7	
STD SF-3A Expected		0.055	8.9	172	4.27	260	0.117	1.02	0.5	1.04	3.2	0.6	3	2.7	5	4	8.5	
STD OXG99 Expected																		
STD OXD87 Expected																		
BLK	Blank	0.002	<0.5	0.7	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2	
BLK	Blank																	
BLK	Blank																	
Prep Wash																		
G1-SMI	Prep Blank	0.079	17.0	8.1	0.49	162	0.159	1.14	0.17	0.43	<0.5	<0.05	2.2	<0.5	<0.05	<5	<2	
G1-SMI	Prep Blank	0.074	20.6	9.6	0.53	170	0.173	1.05	0.14	0.45	<0.5	<0.05	2.7	<0.5	<0.05	5	<2	



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Client: **Quartz Mountain Resources Ltd.**

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Vancouver BC V6E 4H1 Canada

Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 11, 2012

Report Date: July 27, 2012

Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000079.1

CLIENT JOB INFORMATION

Project: Buck
Shipment ID: WA3
P.O. Number: QZM-Buck-002
Number of Samples: 6

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	6	Crush, split and pulverize 250 g rock to 200 mesh			SMI
3B01	6	Fire assay fusion Au by ICP-ES	30	Completed	VAN
7AX1	6	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC:



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

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Client: **Quartz Mountain Resources Ltd.**
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 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 27, 2012

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000079.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
G1-SMI	Prep Blank	<0.01	<2	<0.5	4.5	3.6	49	<0.5	3.6	4.3	645	2.07	<5	1.9	6.1	76	<0.5	<0.5	<0.5	39	0.57
G1-SMI	Prep Blank	<0.01	5	<0.5	7.6	3.5	46	<0.5	2.9	4.0	640	1.97	<5	2.0	6.2	83	<0.5	<0.5	<0.5	38	0.61
972433	Rock	0.24	19	<0.5	41.4	8.6	120	<0.5	46.2	15.8	609	3.95	6	6.3	1.5	168	<0.5	0.9	<0.5	87	1.11
972435	Rock	0.18	<2	0.6	36.7	5.1	81	0.5	36.8	11.0	397	3.18	<5	10.8	1.3	129	<0.5	<0.5	<0.5	64	1.07
972438	Rock	0.18	<2	0.9	58.7	7.6	111	<0.5	48.3	15.1	910	4.00	6	8.6	1.6	165	0.5	<0.5	<0.5	95	1.42
972454	Rock	0.17	<2	0.6	36.6	8.3	101	<0.5	48.7	17.6	884	4.08	6	2.6	2.5	174	<0.5	<0.5	<0.5	91	1.28
972477	Rock	0.32	2	<0.5	63.3	9.8	95	0.5	47.3	16.3	939	4.38	7	2.7	3.7	146	<0.5	<0.5	<0.5	99	0.95
972510	Rock	0.26	3	0.8	58.3	13.7	258	<0.5	48.8	19.6	1594	4.68	12	2.8	4.1	152	0.8	1.3	<0.5	95	0.86



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

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Project: Buck
 Report Date: July 27, 2012

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI1200079.1

Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	
G1-SMI	Prep Blank	0.078	20.4	9.9	0.49	182	0.154	1.00	0.11	0.47	<0.5	<0.05	2.7	<0.5	<0.05	5	<2
G1-SMI	Prep Blank	0.079	19.1	15.7	0.46	165	0.148	1.00	0.13	0.45	<0.5	<0.05	2.8	<0.5	<0.05	5	<2
972433	Rock	0.132	36.0	44.9	1.05	260	0.094	3.88	0.02	0.11	<0.5	0.07	14.2	<0.5	0.05	11	<2
972435	Rock	0.095	34.4	38.0	0.81	162	0.072	3.20	0.01	0.08	<0.5	0.08	11.9	<0.5	0.06	9	<2
972438	Rock	0.139	30.0	43.9	1.01	210	0.099	3.70	0.02	0.11	<0.5	<0.05	14.0	<0.5	<0.05	10	<2
972454	Rock	0.158	28.7	46.3	1.29	238	0.193	3.07	0.06	0.15	<0.5	<0.05	11.8	<0.5	<0.05	8	<2
972477	Rock	0.106	59.4	58.5	0.76	290	0.187	3.13	0.04	0.12	<0.5	<0.05	23.6	<0.5	<0.05	8	<2
972510	Rock	0.072	33.4	42.7	1.05	297	0.107	3.30	0.03	0.19	<0.5	<0.05	16.1	<0.5	<0.05	9	<2



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 Vancouver BC V6E 4H1 Canada

Project: Buck
 Report Date: July 27, 2012

Page: 1 of 1

Part: 1 of 2

QUALITY CONTROL REPORT

SMI12000079.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
Pulp Duplicates																					
972510	Rock	0.26	3	0.8	58.3	13.7	258	<0.5	48.8	19.6	1594	4.68	12	2.8	4.1	152	0.8	1.3	<0.5	95	0.86
REP 972510	QC			1.2	58.3	13.7	261	<0.5	43.5	21.2	1718	4.68	12	2.8	4.0	154	0.8	1.1	<0.5	94	0.88
Core Reject Duplicates																					
972433	Rock	0.24	19	<0.5	41.4	8.6	120	<0.5	46.2	15.8	609	3.95	6	6.3	1.5	168	<0.5	0.9	<0.5	87	1.11
DUP 972433	QC		I.S.	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
Reference Materials																					
STD OXD87	Standard		402																		
STD OXG99	Standard		939																		
STD SF-3A	Standard		296.3	7596	8189	10551	48.8	3398	186.0	3814	7.09	44	3.2	3.1	61	46.9	10.2	4.1	104	2.41	
STD SF-3A	Standard		302.5	7565	8226	10534	50.3	3418	188.2	3777	7.19	49	3.2	2.9	63	49.7	9.9	4.6	103	2.50	
STD OXD87 Expected			417																		
STD OXG99 Expected			932																		
STD SF-3A Expected			308	7705	8715	10750	54	3420	183	4100	7.75	46	3.3	2.8	58	50	10	4.6	102	2.59	
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	
Prep Wash																					
G1-SMI	Prep Blank	<0.01	<2	<0.5	4.5	3.6	49	<0.5	3.6	4.3	645	2.07	<5	1.9	6.1	76	<0.5	<0.5	<0.5	39	0.57
G1-SMI	Prep Blank	<0.01	5	<0.5	7.6	3.5	46	<0.5	2.9	4.0	640	1.97	<5	2.0	6.2	83	<0.5	<0.5	<0.5	38	0.61



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Project: Buck

Report Date: July 27, 2012

Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

SMI12000079.1

Method		7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2
Pulp Duplicates																	
972510	Rock	0.072	33.4	42.7	1.05	297	0.107	3.30	0.03	0.19	<0.5	<0.05	16.1	<0.5	<0.05	9	<2
REP 972510	QC	0.071	33.1	42.7	1.07	299	0.109	3.41	0.03	0.20	<0.5	<0.05	15.8	<0.5	<0.05	10	2
Core Reject Duplicates																	
972433	Rock	0.132	36.0	44.9	1.05	260	0.094	3.88	0.02	0.11	<0.5	0.07	14.2	<0.5	0.05	11	<2
DUP 972433	QC	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
Reference Materials																	
STD OXD87	Standard																
STD OXG99	Standard																
STD SF-3A	Standard	0.054	9.5	165.8	4.01	277	0.107	0.96	0.50	1.01	3.0	0.54	3.7	2.7	4.83	<5	6
STD SF-3A	Standard	0.058	10.0	166.6	4.00	279	0.108	0.96	0.50	0.99	3.0	0.55	3.8	2.5	4.82	<5	10
STD OXD87 Expected																	
STD OXG99 Expected																	
STD SF-3A Expected		0.055	8.9	172	4.27	260	0.117	1.02	0.5	1.04	3.2	0.6	3	2.7	5	4	8.5
BLK	Blank																
BLK	Blank																
BLK	Blank	<0.001	<0.5	0.7	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2
Prep Wash																	
G1-SMI	Prep Blank	0.078	20.4	9.9	0.49	182	0.154	1.00	0.11	0.47	<0.5	<0.05	2.7	<0.5	<0.05	5	<2
G1-SMI	Prep Blank	0.079	19.1	15.7	0.46	165	0.148	1.00	0.13	0.45	<0.5	<0.05	2.8	<0.5	<0.05	5	<2



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Receiving Lab: Canada-Smithers

Received: July 16, 2012

Report Date: August 01, 2012

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CERTIFICATE OF ANALYSIS

SMI12000084.1

CLIENT JOB INFORMATION

Project: KARMA
Shipment ID: KARM_SSN12-01_Jul131
P.O. Number: KARMA01
Number of Samples: 13

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-500	13	Crush, split and pulverize 500 g rock to 200 mesh			VAN
3B01	13	Fire assay fusion Au by ICP-ES	30	Completed	VAN
7AX1	13	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: KARMA
 Report Date: August 01, 2012

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI1200084.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
G1-SMI	Prep Blank	<0.01	3	0.8	7.8	4.7	46	<0.5	7.4	4.2	606	2.36	<5	2.2	6.1	68	<0.5	<0.5	<0.5	39	0.59
G1-SMI	Prep Blank	<0.01	<2	<0.5	4.0	3.0	39	<0.5	3.8	3.6	603	2.26	<5	1.9	5.5	63	<0.5	<0.5	<0.5	38	0.53
965350	Rock	1.92	2	<0.5	3.4	9.9	51	<0.5	4.1	3.2	951	1.30	<5	<0.5	3.5	45	<0.5	<0.5	<0.5	12	1.17
965351	Rock	1.80	<2	0.7	1.6	8.9	106	<0.5	1.2	2.5	1708	2.21	<5	2.2	6.1	23	<0.5	0.7	<0.5	28	0.29
965352	Rock	2.27	<2	1.0	1.6	3.8	15	<0.5	0.6	<0.5	598	0.55	<5	0.8	12.3	<5	<0.5	0.5	<0.5	<10	0.04
965353	Rock	2.17	<2	<0.5	8.1	11.1	31	<0.5	5.7	3.9	464	1.09	<5	0.9	6.5	102	<0.5	<0.5	<0.5	<10	1.30
965354	Rock	2.15	<2	1.6	5.0	10.0	33	<0.5	1.6	1.5	351	1.08	51	1.6	7.0	6	<0.5	0.9	<0.5	<10	0.11
965355	Rock	2.75	<2	<0.5	14.9	7.6	68	<0.5	14.4	9.2	1162	3.66	<5	0.7	5.0	189	<0.5	0.6	<0.5	25	1.98
965356	Rock	2.26	<2	1.4	0.6	6.7	14	<0.5	0.8	1.0	124	0.93	<5	1.1	5.5	18	<0.5	0.6	<0.5	<10	0.12
965357	Rock	2.24	<2	13.0	3.2	28.8	63	<0.5	0.8	1.3	304	2.31	12	1.1	5.9	172	<0.5	1.3	<0.5	20	0.07
965358	Rock	2.04	<2	1.3	5.6	16.7	293	<0.5	8.0	4.1	1002	1.85	15	0.6	3.3	5	<0.5	0.8	<0.5	11	0.08
965359	Rock	1.88	<2	1.3	<0.5	13.8	34	<0.5	<0.5	<0.5	250	0.46	9	1.5	5.9	<5	<0.5	<0.5	<0.5	<10	0.01
965362	Rock	2.00	<2	1.0	3.8	13.9	146	<0.5	3.3	3.0	772	1.73	<5	0.5	3.3	18	0.6	1.1	<0.5	12	0.29
965364	Rock	1.62	<2	<0.5	0.9	2.9	107	<0.5	0.9	4.5	584	2.69	<5	2.4	5.4	52	<0.5	<0.5	<0.5	49	0.49
965365	Rock	2.68	<2	1.2	2.1	3.5	64	<0.5	<0.5	3.6	598	2.05	<5	2.7	8.6	47	<0.5	<0.5	<0.5	37	0.36



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

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Project: KARMA
 Report Date: August 01, 2012

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI12000084.1

Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.01	0.5	0.05	0.5	0.05	5	2	
G1-SMI	Prep Blank	0.086	17.4	24.1	0.55	153	0.151	0.98	0.09	0.43	<0.5	<0.05	1.4	<0.5	<0.05	<5	<2
G1-SMI	Prep Blank	0.082	15.8	12.2	0.49	154	0.142	0.89	0.08	0.40	<0.5	<0.05	1.6	<0.5	<0.05	<5	<2
965350	Rock	0.090	20.6	9.1	0.24	91	0.002	0.77	0.04	0.23	<0.5	<0.05	1.9	<0.5	<0.05	<5	<2
965351	Rock	0.095	35.3	4.8	0.52	519	0.157	0.82	0.08	0.32	<0.5	<0.05	4.0	<0.5	<0.05	<5	<2
965352	Rock	0.010	34.4	2.3	0.01	41	<0.001	0.35	0.02	0.24	<0.5	<0.05	1.4	<0.5	<0.05	<5	<2
965353	Rock	0.052	25.4	10.0	0.10	79	0.002	0.65	0.04	0.31	<0.5	<0.05	1.2	<0.5	<0.05	<5	<2
965354	Rock	0.024	16.2	3.5	0.05	63	0.002	0.48	0.03	0.24	<0.5	<0.05	<0.5	<0.5	<0.05	<5	2
965355	Rock	0.077	23.0	13.9	0.57	81	0.004	1.61	0.03	0.25	<0.5	<0.05	2.3	<0.5	<0.05	6	<2
965356	Rock	0.027	17.2	5.7	<0.01	137	<0.001	0.33	0.05	0.22	<0.5	<0.05	<0.5	<0.5	0.19	<5	<2
965357	Rock	0.014	19.3	8.3	0.06	381	0.002	0.66	0.06	0.24	<0.5	<0.05	0.7	<0.5	0.15	<5	<2
965358	Rock	0.051	17.6	12.0	0.19	147	0.002	0.79	0.03	0.29	<0.5	<0.05	1.3	<0.5	<0.05	<5	<2
965359	Rock	0.009	29.2	6.3	0.01	41	<0.001	0.46	0.03	0.32	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2
965362	Rock	0.056	23.3	4.6	0.05	168	0.002	0.53	0.05	0.27	<0.5	<0.05	1.8	<0.5	<0.05	<5	<2
965364	Rock	0.177	41.3	2.7	0.61	178	0.203	0.64	0.10	0.14	<0.5	<0.05	4.8	<0.5	<0.05	<5	<2
965365	Rock	0.107	27.3	2.1	0.28	271	0.161	0.59	0.09	0.16	<0.5	<0.05	3.9	<0.5	<0.05	<5	<2



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

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Project: KARMA

Report Date: August 01, 2012

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QUALITY CONTROL REPORT

SMI12000084.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
Pulp Duplicates																					
965365	Rock	2.68	<2	1.2	2.1	3.5	64	<0.5	<0.5	3.6	598	2.05	<5	2.7	8.6	47	<0.5	<0.5	<0.5	37	0.36
REP 965365	QC		<2	1.2	2.6	3.3	64	<0.5	1.3	3.7	621	2.05	<5	2.5	8.1	48	<0.5	<0.5	<0.5	36	0.34
Core Reject Duplicates																					
965354	Rock	2.15	<2	1.6	5.0	10.0	33	<0.5	1.6	1.5	351	1.08	51	1.6	7.0	6	<0.5	0.9	<0.5	<10	0.11
DUP 965354	QC	<0.01	<2	1.1	4.4	10.1	34	<0.5	2.6	1.4	345	1.12	53	1.7	7.3	7	<0.5	0.8	<0.5	<10	0.09
Reference Materials																					
STD OXD87	Standard		376																		
STD OXD87	Standard		421																		
STD OXG99	Standard		874																		
STD SF-3A	Standard			323.9	7669	8775	10858	54.9	3492	191.6	4083	7.58	44	3.6	2.9	62	51.1	10.7	4.9	106	2.55
STD SF-3A	Standard			306.1	7624	8777	10832	52.4	3471	185.8	4103	7.61	43	3.2	2.9	61	50.4	10.0	5.5	106	2.57
STD OXG99 Expected			932																		
STD SF-3A Expected				308	7705	8715	10750	54	3420	183	4100	7.75	46	3.3	2.8	58	50	10	4.6	102	2.59
STD OXD87 Expected			417																		
BLK	Blank		2																		
BLK	Blank		<2																		
BLK	Blank			<0.5	0.6	0.6	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
BLK	Blank		<2																		
Prep Wash																					
G1-SMI	Prep Blank	<0.01	3	0.8	7.8	4.7	46	<0.5	7.4	4.2	606	2.36	<5	2.2	6.1	68	<0.5	<0.5	<0.5	39	0.59
G1-SMI	Prep Blank	<0.01	<2	<0.5	4.0	3.0	39	<0.5	3.8	3.6	603	2.26	<5	1.9	5.5	63	<0.5	<0.5	<0.5	38	0.53



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Project: KARMA
Report Date: August 01, 2012

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QUALITY CONTROL REPORT

SMI12000084.1

Method		7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2
Pulp Duplicates																	
965365	Rock	0.107	27.3	2.1	0.28	271	0.161	0.59	0.09	0.16	<0.5	<0.05	3.9	<0.5	<0.05	<5	<2
REP 965365	QC	0.105	26.1	1.5	0.28	257	0.160	0.59	0.09	0.15	<0.5	<0.05	3.7	<0.5	<0.05	<5	<2
Core Reject Duplicates																	
965354	Rock	0.024	16.2	3.5	0.05	63	0.002	0.48	0.03	0.24	<0.5	<0.05	<0.5	<0.5	<0.05	<5	2
DUP 965354	QC	0.022	16.1	4.4	0.05	66	0.002	0.52	0.03	0.26	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2
Reference Materials																	
STD OXD87	Standard																
STD OXD87	Standard																
STD OXG99	Standard																
STD SF-3A	Standard	0.063	9.9	178.1	4.32	286	0.108	1.00	0.51	0.95	3.1	0.53	3.6	2.7	5.05	<5	7
STD SF-3A	Standard	0.061	9.3	178.8	4.37	291	0.112	1.02	0.51	0.97	3.0	0.53	3.2	2.4	5.03	<5	4
STD OXG99 Expected																	
STD SF-3A Expected		0.055	8.9	172	4.27	260	0.117	1.02	0.5	1.04	3.2	0.6	3	2.7	5	4	8.5
STD OXD87 Expected																	
BLK	Blank																
BLK	Blank																
BLK	Blank	<0.001	<0.5	0.6	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2
BLK	Blank																
Prep Wash																	
G1-SMI	Prep Blank	0.086	17.4	24.1	0.55	153	0.151	0.98	0.09	0.43	<0.5	<0.05	1.4	<0.5	<0.05	<5	<2
G1-SMI	Prep Blank	0.082	15.8	12.2	0.49	154	0.142	0.89	0.08	0.40	<0.5	<0.05	1.6	<0.5	<0.05	<5	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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www.acmelab.com

Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 16, 2012

Report Date: August 11, 2012

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CERTIFICATE OF ANALYSIS

SMI12000085.1

CLIENT JOB INFORMATION

Project: KARMA
Shipment ID: KARM_SSN12-02_Jul131
P.O. Number: KARMA02
Number of Samples: 100

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	100	Dry at 60C			SMI
SS80	100	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	100	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC:



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 11, 2012

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CERTIFICATE OF ANALYSIS

SMI12000085.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
965050	Soil	1.2	11.8	16.7	90	0.5	7.0	4.0	178	3.05	13.1	3.1	1.8	4	0.2	0.5	0.4	60	0.06	0.140	6
965051	Soil	0.9	5.9	16.8	79	0.6	4.0	3.2	180	2.14	7.2	2.5	1.7	4	<0.1	0.3	0.3	44	0.06	0.109	7
965052	Soil	1.2	6.8	18.0	61	0.5	4.7	3.2	451	2.35	11.5	4.7	1.6	5	<0.1	0.5	0.4	51	0.06	0.067	9
965053	Soil	0.6	3.6	8.1	30	0.1	2.3	1.4	90	1.32	4.2	<0.5	1.5	4	<0.1	0.2	0.2	35	0.05	0.044	8
965054	Soil	1.0	15.3	30.8	142	0.2	10.6	7.2	382	2.36	20.6	5.4	2.5	5	0.2	0.6	0.3	48	0.07	0.062	8
965055	Soil	1.3	8.1	17.1	94	0.5	5.3	3.1	151	3.29	16.8	2.5	1.6	4	0.1	0.5	0.3	65	0.05	0.080	7
965056	Soil	1.4	9.5	17.6	66	0.6	7.8	4.2	161	1.80	12.9	1.6	1.0	7	0.2	0.5	0.2	35	0.08	0.043	7
965057	Soil	0.5	3.5	11.1	25	0.1	2.8	1.2	68	0.55	4.2	2.1	0.3	5	<0.1	0.2	0.2	24	0.06	0.024	8
965058	Soil	0.6	2.8	11.2	36	0.2	3.0	1.5	112	0.68	3.0	3.2	0.2	7	0.2	0.2	0.2	26	0.07	0.020	7
965059	Soil	3.1	8.4	57.5	95	2.5	6.6	5.6	923	1.94	56.2	6.1	<0.1	30	1.1	0.3	0.3	39	0.35	0.119	8
965060	Soil	1.2	7.0	12.8	93	0.2	5.9	3.4	188	1.98	25.4	3.4	0.4	9	0.2	0.4	0.2	49	0.09	0.032	8
965061	Soil	0.5	3.5	13.4	29	0.2	2.3	0.7	44	0.48	15.0	1.8	<0.1	8	0.2	0.2	0.2	21	0.08	0.024	8
965062	Soil	1.3	15.5	54.7	144	0.8	11.5	7.2	355	2.87	75.3	1.6	2.3	7	0.2	1.0	0.5	55	0.10	0.090	9
965063	Soil	1.1	13.0	28.4	82	0.5	9.2	4.9	400	2.61	39.0	1.0	1.9	9	0.1	0.6	0.5	57	0.11	0.070	8
965064	Soil	0.9	10.2	14.4	78	2.4	7.4	4.0	171	1.94	8.5	0.8	0.6	7	0.3	0.4	0.3	44	0.08	0.038	9
965065	Soil	1.3	13.3	13.6	101	0.3	7.4	4.9	567	2.19	6.7	3.3	0.2	24	0.4	0.4	0.3	53	0.27	0.045	12
965066	Soil	1.3	7.4	19.8	89	0.4	6.9	3.5	128	2.62	16.9	15.8	1.2	9	0.2	0.4	0.3	58	0.11	0.052	8
965067	Soil	0.5	3.8	17.5	45	0.2	3.6	1.9	95	0.86	4.3	2.2	0.8	12	0.1	0.2	0.3	29	0.12	0.024	11
965068	Soil	1.1	7.5	21.1	63	0.3	4.8	2.4	97	2.36	17.3	1.1	1.2	11	0.2	0.3	0.4	46	0.13	0.059	8
965069	Soil	1.6	9.1	15.4	80	0.3	6.0	3.4	153	3.66	14.5	1.1	1.5	7	0.2	0.5	0.4	65	0.07	0.098	8
965070	Soil	0.8	5.9	11.7	35	0.3	4.4	2.2	76	1.34	5.7	1.3	0.4	8	0.2	0.2	0.3	37	0.06	0.022	7
965071	Soil	1.2	16.2	15.8	82	0.3	10.8	5.7	199	3.62	17.7	4.1	0.9	16	0.4	0.5	0.3	76	0.18	0.080	6
965072	Soil	0.6	5.4	13.8	48	0.3	3.6	2.3	89	1.29	3.8	<0.5	0.5	19	0.2	0.2	0.3	32	0.20	0.024	10
965073	Soil	1.3	9.0	11.8	71	0.3	10.7	4.7	157	2.15	8.2	2.2	0.3	22	0.2	0.3	0.2	48	0.27	0.046	7
965074	Soil	1.2	13.3	17.8	79	0.8	10.8	7.4	503	3.54	26.5	<0.5	0.8	8	0.2	0.5	0.3	71	0.11	0.161	6
965075	Soil	0.9	8.5	10.4	53	0.4	5.6	2.9	112	1.73	5.9	9.6	0.5	9	0.2	0.4	0.3	42	0.08	0.036	9
965076	Soil	1.4	11.6	15.8	67	0.4	7.4	4.5	166	3.05	19.0	1.1	0.3	6	0.2	0.6	0.3	60	0.07	0.066	6
965077	Soil	1.1	14.2	14.7	100	0.8	10.5	5.8	226	2.01	11.3	1.9	0.2	19	0.4	0.3	0.3	49	0.23	0.045	9
965078	Soil	1.0	6.4	11.3	65	0.2	6.1	5.5	225	1.59	4.6	10.9	0.2	11	0.2	0.3	0.2	43	0.14	0.028	7
965079	Soil	1.5	16.4	16.9	117	1.1	11.0	5.9	330	1.99	8.5	1.9	<0.1	20	0.3	0.3	0.2	46	0.24	0.061	14

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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Project: KARMA
 Report Date: August 11, 2012

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CERTIFICATE OF ANALYSIS

SMI1200085.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
965050	Soil	20	0.20	47	0.019	<1	2.15	0.006	0.02	0.1	0.10	2.7	<0.1	<0.05	6	<0.5	<0.2
965051	Soil	13	0.11	35	0.018	2	1.72	0.006	0.02	<0.1	0.07	1.6	<0.1	<0.05	5	<0.5	<0.2
965052	Soil	13	0.13	46	0.021	<1	0.96	0.006	0.03	0.1	0.04	1.8	<0.1	<0.05	5	<0.5	<0.2
965053	Soil	9	0.06	28	0.021	<1	0.92	0.005	0.02	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
965054	Soil	19	0.26	76	0.034	2	1.83	0.007	0.04	<0.1	0.05	3.4	<0.1	<0.05	3	<0.5	<0.2
965055	Soil	17	0.13	47	0.032	1	1.79	0.006	0.02	0.2	0.06	2.0	<0.1	<0.05	7	<0.5	<0.2
965056	Soil	16	0.21	82	0.017	<1	1.39	0.006	0.02	<0.1	0.06	1.8	<0.1	<0.05	4	<0.5	<0.2
965057	Soil	7	0.09	33	0.014	<1	0.73	0.006	0.02	<0.1	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
965058	Soil	8	0.13	64	0.017	<1	0.74	0.007	0.03	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
965059	Soil	18	0.12	92	0.003	<1	1.24	0.007	0.04	<0.1	0.13	0.6	0.1	<0.05	4	<0.5	<0.2
965060	Soil	14	0.17	80	0.013	<1	1.06	0.006	0.03	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
965061	Soil	7	0.04	59	0.007	1	0.56	0.007	0.02	<0.1	0.04	0.4	<0.1	<0.05	4	<0.5	<0.2
965062	Soil	21	0.31	83	0.013	<1	2.16	0.007	0.04	<0.1	0.06	3.1	0.1	<0.05	5	<0.5	<0.2
965063	Soil	18	0.22	80	0.019	<1	1.30	0.006	0.04	<0.1	0.05	2.3	0.1	<0.05	5	<0.5	<0.2
965064	Soil	17	0.18	73	0.019	<1	1.96	0.007	0.03	<0.1	0.08	2.1	<0.1	<0.05	6	<0.5	<0.2
965065	Soil	17	0.24	103	0.014	<1	1.28	0.008	0.04	<0.1	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
965066	Soil	16	0.19	98	0.014	<1	1.54	0.007	0.04	0.1	0.04	2.2	<0.1	<0.05	6	<0.5	<0.2
965067	Soil	8	0.13	78	0.022	<1	0.79	0.007	0.02	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
965068	Soil	15	0.13	81	0.015	<1	1.50	0.007	0.03	<0.1	0.08	1.8	<0.1	<0.05	6	<0.5	<0.2
965069	Soil	19	0.18	54	0.023	<1	1.57	0.006	0.04	0.1	0.05	2.1	<0.1	<0.05	7	<0.5	<0.2
965070	Soil	11	0.13	71	0.017	<1	1.21	0.006	0.03	<0.1	0.05	1.5	<0.1	<0.05	6	<0.5	<0.2
965071	Soil	23	0.30	93	0.023	<1	1.76	0.007	0.05	<0.1	0.04	3.4	<0.1	<0.05	7	<0.5	<0.2
965072	Soil	10	0.12	87	0.019	<1	1.00	0.008	0.03	<0.1	0.07	1.7	<0.1	<0.05	5	<0.5	<0.2
965073	Soil	21	0.34	114	0.020	<1	1.54	0.008	0.04	<0.1	0.06	1.9	<0.1	<0.05	6	<0.5	<0.2
965074	Soil	22	0.28	106	0.020	1	1.74	0.007	0.04	<0.1	0.06	3.1	<0.1	<0.05	6	<0.5	<0.2
965075	Soil	13	0.18	76	0.017	<1	1.20	0.006	0.03	<0.1	0.05	1.8	<0.1	<0.05	6	<0.5	<0.2
965076	Soil	18	0.21	59	0.020	<1	1.38	0.006	0.04	<0.1	0.08	1.8	<0.1	<0.05	5	<0.5	<0.2
965077	Soil	17	0.33	165	0.009	<1	1.99	0.008	0.05	<0.1	0.04	1.9	0.1	<0.05	7	<0.5	<0.2
965078	Soil	13	0.22	105	0.015	<1	1.04	0.007	0.04	<0.1	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2
965079	Soil	18	0.31	162	0.008	<1	2.00	0.009	0.05	<0.1	0.07	1.0	<0.1	<0.05	6	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 11, 2012

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CERTIFICATE OF ANALYSIS

SMI12000085.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1
965080	Soil			1.2	13.7	14.7	105	0.4	9.4	6.4	667	1.88	7.7	1.3	0.1	18	0.3	0.3	46	0.20	0.050	9
965081	Soil			1.1	16.5	9.7	343	0.5	13.1	6.2	512	2.21	9.1	1.5	0.2	20	0.7	0.4	47	0.26	0.053	9
965082	Soil			1.2	9.1	13.0	66	0.3	7.0	4.1	158	2.49	10.5	2.5	0.8	6	0.3	0.5	55	0.08	0.091	7
965083	Soil			0.8	6.6	9.5	55	0.3	4.0	1.7	59	1.36	6.8	2.5	0.1	10	0.2	0.2	36	0.11	0.040	6
965084	Soil			0.5	5.4	9.2	29	0.1	2.3	1.2	47	0.45	2.5	2.6	<0.1	15	0.1	0.1	19	0.22	0.025	9
965085	Soil			1.2	16.0	14.5	87	0.3	7.5	4.5	349	1.55	8.4	2.0	0.1	21	0.3	0.3	39	0.33	0.036	14
965086	Soil			1.9	16.6	17.3	152	0.9	8.6	5.3	402	2.32	16.7	4.3	0.2	29	0.3	0.7	47	0.29	0.091	10
965087	Soil			3.3	10.1	13.9	95	0.4	6.2	4.1	276	1.93	12.8	3.5	0.2	16	0.3	0.6	40	0.22	0.040	11
965088	Soil			1.6	5.9	11.8	56	0.2	4.3	2.3	136	1.86	10.6	6.0	0.2	10	0.1	0.6	46	0.13	0.040	9
965089	Soil			0.8	7.7	12.9	100	0.2	5.9	3.6	200	1.56	5.7	<0.5	0.3	12	0.2	0.5	32	0.14	0.031	10
965090	Soil			3.9	38.8	38.8	608	1.7	12.8	7.8	3127	2.90	25.9	1.6	1.5	39	1.5	1.3	48	0.70	0.106	35
965091	Soil			1.0	5.4	13.5	116	0.2	4.3	2.8	168	1.46	5.6	1.5	0.6	7	0.2	0.4	30	0.08	0.026	11
965092	Soil			1.4	7.4	17.4	151	0.2	5.7	3.4	249	2.05	12.1	1.9	0.9	11	0.3	0.7	42	0.13	0.031	12
965093	Soil			1.2	5.6	19.5	121	0.2	3.3	1.9	140	1.76	10.1	6.7	1.3	9	0.2	0.6	38	0.07	0.022	12
965094	Soil			1.3	10.3	26.2	650	0.5	7.4	7.0	444	2.30	14.9	1.9	0.5	15	1.1	0.7	43	0.18	0.045	15
965095	Soil			1.0	5.9	19.3	168	0.3	4.3	2.9	161	1.61	8.5	4.2	0.5	8	0.2	0.5	33	0.07	0.029	12
965096	Soil			1.5	6.1	16.5	93	0.2	3.8	2.1	153	1.70	10.5	1.9	0.1	15	0.7	0.5	34	0.19	0.047	9
965097	Soil			1.3	6.4	19.8	71	0.6	4.6	2.6	135	2.38	24.4	15.8	1.8	8	0.2	0.7	45	0.05	0.044	10
965098	Soil			1.2	7.9	16.7	72	0.2	4.5	2.4	161	1.76	11.4	0.7	0.2	8	0.2	0.5	36	0.05	0.048	11
965099	Soil			1.5	5.7	11.8	41	0.3	3.3	1.8	110	2.52	25.3	1.8	0.6	6	0.1	0.6	55	0.04	0.057	10
965100	Soil			0.6	11.4	19.3	52	<0.1	12.5	6.0	264	2.16	15.9	1.2	1.6	13	<0.1	0.6	45	0.13	0.050	6
965101	Soil			0.6	11.2	17.3	69	<0.1	8.6	4.8	200	2.27	12.7	1.3	1.5	16	0.2	0.6	48	0.13	0.032	6
965102	Soil			0.9	12.6	19.2	130	0.6	11.5	8.2	694	2.46	11.8	1.1	0.8	29	0.2	0.6	50	0.28	0.049	10
965103	Soil			0.7	21.5	16.9	74	<0.1	10.9	6.4	624	2.31	15.1	1.7	1.6	23	0.2	0.8	50	0.29	0.057	12
965104	Soil			0.9	10.9	23.5	129	0.4	12.1	8.1	331	2.58	21.0	<0.5	1.5	9	0.2	0.7	50	0.12	0.056	6
965105	Soil			1.0	10.8	19.5	89	0.5	10.4	6.0	241	2.99	22.5	2.8	1.3	10	0.1	0.7	63	0.10	0.048	6
965106	Soil			1.0	7.0	18.3	107	0.5	6.5	4.3	213	2.92	13.9	57.0	1.3	12	0.2	0.8	71	0.10	0.028	6
965107	Soil			1.5	13.1	25.8	158	0.9	9.8	6.1	264	3.26	22.5	<0.5	1.6	12	0.4	0.7	63	0.14	0.073	7
965108	Soil			0.7	8.6	18.9	76	0.4	6.7	3.3	174	2.52	21.7	1.0	1.1	10	0.3	0.7	63	0.10	0.027	6
965109	Soil			0.9	9.8	15.3	93	0.3	8.2	4.7	249	2.81	22.7	<0.5	1.0	21	0.3	0.6	62	0.21	0.033	6

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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 15th Floor - 1040 West Georgia Street
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CERTIFICATE OF ANALYSIS

SMI12000085.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
965080	Soil	17	0.28	162	0.009	<1	1.63	0.008	0.05	0.1	0.04	1.5	0.1	<0.05	6	<0.5	<0.2
965081	Soil	20	0.43	173	0.008	<1	1.87	0.008	0.07	<0.1	0.07	1.9	<0.1	<0.05	6	<0.5	<0.2
965082	Soil	17	0.20	70	0.019	<1	1.49	0.006	0.04	<0.1	0.05	2.2	0.1	<0.05	6	<0.5	<0.2
965083	Soil	12	0.09	81	0.010	<1	1.13	0.006	0.04	<0.1	0.06	0.9	<0.1	<0.05	5	<0.5	<0.2
965084	Soil	6	0.07	57	0.006	<1	0.75	0.006	0.03	<0.1	0.03	0.3	0.1	<0.05	5	<0.5	<0.2
965085	Soil	14	0.26	109	0.009	<1	1.34	0.008	0.05	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
965086	Soil	17	0.39	173	0.008	<1	1.98	0.010	0.07	<0.1	0.07	1.5	0.1	<0.05	7	<0.5	<0.2
965087	Soil	13	0.28	108	0.011	<1	1.14	0.010	0.04	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
965088	Soil	11	0.15	79	0.013	<1	0.87	0.008	0.04	0.1	0.04	1.0	<0.1	<0.05	5	<0.5	<0.2
965089	Soil	12	0.30	111	0.010	<1	1.27	0.008	0.04	<0.1	0.03	1.2	<0.1	<0.05	5	<0.5	<0.2
965090	Soil	21	0.42	348	0.009	2	2.92	0.011	0.07	0.1	0.12	4.6	0.2	<0.05	7	<0.5	<0.2
965091	Soil	10	0.21	145	0.014	1	1.00	0.008	0.03	0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
965092	Soil	11	0.23	179	0.009	<1	1.36	0.008	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
965093	Soil	10	0.13	83	0.022	<1	0.85	0.014	0.03	0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
965094	Soil	14	0.31	182	0.011	1	1.88	0.009	0.06	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
965095	Soil	10	0.18	109	0.009	<1	1.18	0.007	0.03	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
965096	Soil	10	0.13	196	0.007	<1	0.90	0.008	0.05	<0.1	0.04	0.4	<0.1	<0.05	5	<0.5	<0.2
965097	Soil	13	0.18	51	0.012	<1	1.69	0.007	0.03	0.1	0.07	1.9	0.1	<0.05	7	<0.5	<0.2
965098	Soil	11	0.20	73	0.013	<1	1.26	0.007	0.03	<0.1	0.02	0.9	0.1	<0.05	8	<0.5	<0.2
965099	Soil	11	0.14	63	0.020	<1	1.44	0.007	0.04	0.1	0.05	1.4	0.1	<0.05	9	<0.5	<0.2
965100	Soil	15	0.37	82	0.036	<1	1.15	0.009	0.03	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
965101	Soil	17	0.30	115	0.033	<1	1.35	0.011	0.02	<0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
965102	Soil	18	0.42	142	0.020	<1	1.69	0.012	0.04	<0.1	0.05	3.4	0.1	<0.05	6	<0.5	<0.2
965103	Soil	19	0.40	114	0.050	<1	0.95	0.014	0.05	<0.1	0.03	4.8	<0.1	<0.05	3	<0.5	<0.2
965104	Soil	18	0.35	86	0.030	1	1.92	0.010	0.03	<0.1	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
965105	Soil	20	0.30	83	0.036	1	1.77	0.013	0.03	0.1	0.04	3.2	<0.1	<0.05	5	<0.5	<0.2
965106	Soil	17	0.26	71	0.025	<1	1.26	0.009	0.03	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
965107	Soil	18	0.31	108	0.026	<1	1.92	0.010	0.03	0.1	0.06	3.0	<0.1	<0.05	6	<0.5	<0.2
965108	Soil	17	0.22	53	0.032	<1	0.98	0.010	0.03	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
965109	Soil	18	0.29	79	0.040	<1	1.14	0.015	0.03	<0.1	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
965110	Soil	0.8	7.5	21.3	89	0.4	6.5	3.6	169	2.06	14.0	5.8	1.2	10	0.2	0.5	0.2	48	0.09	0.036	6
965111	Soil	0.9	18.9	41.8	212	0.3	13.6	7.6	437	2.45	33.9	0.8	2.0	13	0.3	1.0	0.4	49	0.12	0.036	8
965112	Soil	1.0	15.0	28.5	109	0.5	7.8	4.7	231	2.37	21.7	1.7	1.2	11	0.4	0.7	0.3	51	0.11	0.061	6
965113	Soil	1.0	7.3	20.3	120	0.3	8.7	4.6	291	2.65	22.5	2.2	1.0	11	0.2	0.7	0.3	59	0.09	0.037	7
965114	Soil	1.1	9.4	27.0	166	0.4	9.7	7.1	705	2.96	22.6	1.0	2.3	8	0.2	0.7	0.3	53	0.08	0.215	6
965115	Soil	0.8	4.6	9.5	41	0.2	5.0	2.1	124	1.77	8.7	1.6	1.0	10	0.2	0.4	0.2	58	0.08	0.017	7
965116	Soil	1.7	8.7	17.3	93	0.6	8.1	4.8	224	3.44	21.3	0.5	1.1	13	0.3	0.7	0.3	85	0.10	0.076	6
965117	Soil	0.7	12.2	24.2	123	0.4	10.7	5.8	275	2.02	16.1	1.9	1.2	12	0.3	0.5	0.3	40	0.14	0.035	9
965118	Soil	0.8	8.8	12.8	91	0.4	7.1	3.6	208	1.88	7.2	<0.5	1.1	15	0.2	0.5	0.2	48	0.15	0.027	8
965119	Soil	0.5	9.9	14.8	91	0.4	10.3	4.9	290	1.76	7.2	1.4	0.8	18	0.2	0.3	0.1	39	0.19	0.028	7
965120	Soil	1.2	56.9	39.1	242	2.6	26.1	9.9	1265	3.66	20.4	<0.5	1.4	102	1.3	1.2	0.4	62	0.97	0.102	30
965121	Soil	0.8	21.0	21.7	151	0.9	12.5	5.8	574	2.38	10.5	<0.5	0.7	43	0.4	0.6	0.3	42	0.42	0.052	15
965122	Soil	0.9	19.2	25.6	133	0.3	12.8	8.5	799	2.36	13.9	1.9	1.1	21	0.2	0.5	0.3	50	0.30	0.048	10
965123	Soil	0.8	14.1	26.2	111	0.1	11.1	6.8	371	2.10	13.1	2.6	1.3	12	0.2	0.5	0.3	52	0.20	0.049	9
965124	Soil	0.8	11.8	21.9	108	0.1	11.3	7.7	783	2.11	11.6	1.6	0.8	18	0.2	0.4	0.3	48	0.23	0.041	9
965125	Soil	0.4	4.8	11.9	41	0.2	5.0	2.6	117	1.17	5.2	2.3	0.8	9	0.1	0.3	0.3	32	0.11	0.026	7
965126	Soil	1.2	13.2	23.3	132	0.5	10.4	5.6	262	2.80	15.8	1.5	2.0	11	0.2	0.5	0.5	53	0.12	0.027	8
965127	Soil	0.8	5.7	17.3	49	0.3	2.9	1.9	109	2.01	12.6	1.1	1.2	5	0.2	0.4	0.3	53	0.05	0.034	6
965128	Soil	0.8	6.8	22.1	112	0.4	8.5	5.9	888	1.60	6.7	1.1	1.0	20	0.2	0.2	0.2	38	0.26	0.014	8
965129	Soil	1.1	9.6	17.5	101	0.5	7.5	3.6	136	2.43	15.6	2.6	1.5	12	0.3	0.3	0.2	45	0.14	0.030	9
965130	Soil	0.4	4.7	10.9	68	0.2	3.1	1.9	109	1.48	5.8	1.5	1.1	5	0.1	0.2	0.1	35	0.06	0.037	6
965131	Soil	1.2	9.4	21.6	99	0.4	8.1	4.4	340	3.54	29.1	1.0	1.5	5	0.3	0.6	0.3	64	0.07	0.133	6
965132	Soil	1.0	9.8	30.4	142	0.6	7.0	3.8	195	2.03	15.6	1.2	1.8	6	0.3	0.3	0.3	39	0.09	0.097	7
965133	Soil	0.9	16.3	22.4	171	1.0	12.4	4.8	211	1.91	18.4	4.5	1.5	11	0.2	0.4	0.3	38	0.17	0.047	10
965134	Soil	0.4	5.2	14.9	60	0.3	4.2	2.1	98	0.66	3.5	1.3	0.3	24	0.3	0.2	0.2	23	0.29	0.020	12
965135	Soil	0.9	7.5	21.7	67	0.5	5.0	2.6	147	2.29	17.4	<0.5	1.4	7	0.2	0.4	0.2	46	0.08	0.114	7
965136	Soil	0.9	9.0	17.5	105	0.3	7.2	4.6	226	3.03	13.4	3.3	1.8	5	0.2	0.5	0.2	59	0.08	0.156	7
965137	Soil	1.2	6.7	15.4	88	0.3	6.5	3.7	141	3.13	19.1	1.2	1.4	5	0.1	0.4	0.3	61	0.06	0.092	6
965138	Soil	0.8	5.6	18.1	57	0.2	4.3	2.4	95	1.95	10.1	2.1	1.0	5	<0.1	0.3	0.2	42	0.06	0.043	7
965139	Soil	1.1	13.1	24.3	91	0.2	9.0	6.0	378	2.45	11.6	0.8	1.2	9	0.2	0.5	0.7	52	0.14	0.052	9

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
965110	Soil	14	0.21	55	0.025	<1	1.17	0.009	0.03	<0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
965111	Soil	20	0.42	117	0.041	1	1.56	0.014	0.04	<0.1	0.02	3.9	0.1	<0.05	4	<0.5	<0.2
965112	Soil	16	0.26	65	0.025	<1	1.33	0.009	0.03	<0.1	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
965113	Soil	17	0.25	91	0.025	1	1.33	0.011	0.03	<0.1	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
965114	Soil	22	0.32	85	0.023	<1	3.75	0.009	0.04	0.1	0.07	3.5	0.1	<0.05	6	<0.5	<0.2
965115	Soil	14	0.12	64	0.041	<1	0.66	0.008	0.04	<0.1	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
965116	Soil	20	0.28	103	0.038	1	1.43	0.010	0.03	0.1	0.03	2.6	<0.1	<0.05	8	<0.5	<0.2
965117	Soil	17	0.39	93	0.026	1	1.49	0.010	0.04	<0.1	0.02	2.9	0.1	<0.05	4	<0.5	<0.2
965118	Soil	15	0.26	78	0.035	<1	1.02	0.009	0.04	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
965119	Soil	15	0.41	86	0.030	<1	1.30	0.012	0.04	<0.1	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
965120	Soil	34	0.74	311	0.013	2	3.88	0.014	0.11	<0.1	0.11	10.1	0.2	<0.05	9	<0.5	<0.2
965121	Soil	21	0.52	131	0.021	1	1.93	0.021	0.07	0.1	0.04	4.0	0.1	<0.05	5	<0.5	<0.2
965122	Soil	20	0.44	144	0.020	1	1.49	0.010	0.07	<0.1	0.03	3.7	0.1	<0.05	5	<0.5	<0.2
965123	Soil	19	0.39	112	0.024	2	1.38	0.010	0.05	<0.1	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
965124	Soil	19	0.44	118	0.019	2	1.40	0.010	0.05	<0.1	0.04	2.7	<0.1	<0.05	5	<0.5	<0.2
965125	Soil	10	0.20	44	0.025	<1	0.77	0.010	0.03	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
965126	Soil	20	0.36	115	0.015	1	1.87	0.008	0.03	<0.1	0.04	3.3	0.1	<0.05	6	<0.5	<0.2
965127	Soil	12	0.08	42	0.023	1	0.91	0.007	0.02	0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
965128	Soil	15	0.35	114	0.021	<1	1.16	0.010	0.02	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
965129	Soil	17	0.22	98	0.031	<1	1.53	0.008	0.02	<0.1	0.08	2.7	<0.1	<0.05	6	<0.5	<0.2
965130	Soil	11	0.10	62	0.023	<1	1.25	0.007	0.02	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
965131	Soil	20	0.23	92	0.017	<1	1.90	0.007	0.03	0.1	0.06	2.4	<0.1	<0.05	7	<0.5	<0.2
965132	Soil	16	0.20	63	0.018	1	2.04	0.007	0.03	0.1	0.09	2.4	<0.1	<0.05	6	<0.5	<0.2
965133	Soil	17	0.31	113	0.021	1	2.02	0.009	0.03	<0.1	0.08	3.1	<0.1	<0.05	5	<0.5	<0.2
965134	Soil	9	0.16	124	0.015	<1	0.81	0.010	0.03	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
965135	Soil	15	0.14	70	0.021	<1	1.47	0.006	0.03	<0.1	0.09	1.6	0.1	<0.05	6	<0.5	<0.2
965136	Soil	20	0.21	63	0.022	<1	2.02	0.007	0.03	<0.1	0.06	2.8	0.1	<0.05	7	<0.5	<0.2
965137	Soil	18	0.22	69	0.033	<1	1.43	0.007	0.02	<0.1	0.09	2.3	<0.1	<0.05	8	<0.5	<0.2
965138	Soil	11	0.14	57	0.018	<1	1.13	0.008	0.02	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
965139	Soil	18	0.32	51	0.031	1	1.18	0.012	0.03	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
965140	Soil	1.0	12.8	31.8	89	0.3	9.4	7.2	946	2.36	11.8	1.8	1.0	27	0.4	0.5	0.3	49	0.30	0.031	14
965141	Soil	1.4	7.9	21.0	107	0.3	7.7	4.8	204	4.21	23.2	<0.5	1.4	6	0.3	0.6	0.3	87	0.07	0.095	6
965142	Soil	0.9	6.8	16.6	100	0.5	7.6	4.4	368	1.79	9.0	8.6	0.9	22	0.1	0.3	0.2	40	0.24	0.020	8
965143	Soil	0.6	7.5	18.3	69	0.4	6.1	3.0	125	1.64	8.8	1.8	0.7	10	0.2	0.2	0.2	37	0.12	0.023	7
965144	Soil	2.2	6.8	17.9	90	0.5	5.2	3.2	165	2.75	14.7	0.8	1.1	15	0.2	0.8	0.2	60	0.16	0.024	7
965145	Soil	2.5	7.5	20.7	115	0.6	6.5	4.1	214	3.85	20.4	0.5	1.7	6	0.2	0.5	0.3	75	0.07	0.076	7
965146	Soil	1.0	15.9	20.6	110	0.4	12.4	7.0	408	2.55	15.7	1.5	1.7	13	0.2	0.5	0.3	47	0.18	0.048	9
965147	Soil	0.9	15.1	22.9	103	0.5	11.1	6.9	348	2.57	17.3	0.7	1.7	6	0.2	0.6	0.3	51	0.10	0.066	7
965148	Soil	0.8	4.4	17.3	27	0.6	2.2	2.1	162	1.12	2.2	0.7	0.6	17	<0.1	0.3	0.2	33	0.21	0.016	7
965149	Soil	0.4	3.3	5.7	22	0.2	2.7	1.2	100	1.22	1.8	1.2	0.5	5	<0.1	0.2	0.2	34	0.07	0.023	6



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

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 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
965140	Soil	16	0.33	118	0.022	<1	1.41	0.010	0.04	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
965141	Soil	21	0.26	69	0.034	<1	1.68	0.007	0.03	0.1	0.06	2.6	<0.1	<0.05	9	<0.5	<0.2
965142	Soil	14	0.30	72	0.028	1	1.10	0.010	0.02	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
965143	Soil	13	0.22	89	0.019	<1	1.16	0.009	0.02	<0.1	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
965144	Soil	13	0.18	104	0.026	<1	1.21	0.008	0.03	<0.1	0.03	2.0	<0.1	<0.05	7	<0.5	<0.2
965145	Soil	20	0.19	63	0.028	<1	1.70	0.007	0.03	<0.1	0.10	2.4	<0.1	<0.05	9	<0.5	<0.2
965146	Soil	20	0.32	131	0.028	1	1.91	0.010	0.04	<0.1	0.06	3.7	<0.1	<0.05	4	<0.5	<0.2
965147	Soil	18	0.31	70	0.027	<1	1.45	0.007	0.04	<0.1	0.05	2.8	<0.1	<0.05	4	<0.5	<0.2
965148	Soil	9	0.06	31	0.022	<1	0.41	0.007	0.03	<0.1	0.02	0.9	<0.1	<0.05	3	<0.5	<0.2
965149	Soil	10	0.09	35	0.031	<1	0.52	0.008	0.02	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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QUALITY CONTROL REPORT

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Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
965082	Soil	1.2	9.1	13.0	66	0.3	7.0	4.1	158	2.49	10.5	2.5	0.8	6	0.3	0.5	0.3	55	0.08	0.091	7
REP 965082	QC	1.2	8.8	12.6	68	0.3	7.0	3.9	161	2.56	10.4	2.2	0.9	6	0.2	0.4	0.3	56	0.08	0.091	7
965085	Soil	1.2	16.0	14.5	87	0.3	7.5	4.5	349	1.55	8.4	2.0	0.1	21	0.3	0.3	0.7	39	0.33	0.036	14
REP 965085	QC	1.2	15.3	14.4	84	0.3	7.2	4.5	357	1.53	8.0	1.2	<0.1	21	0.3	0.3	0.7	39	0.35	0.037	15
965118	Soil	0.8	8.8	12.8	91	0.4	7.1	3.6	208	1.88	7.2	<0.5	1.1	15	0.2	0.5	0.2	48	0.15	0.027	8
REP 965118	QC	0.7	8.6	13.0	89	0.4	7.2	3.8	208	1.91	7.8	0.7	0.8	15	0.2	0.5	0.2	48	0.15	0.028	8
965121	Soil	0.8	21.0	21.7	151	0.9	12.5	5.8	574	2.38	10.5	<0.5	0.7	43	0.4	0.6	0.3	42	0.42	0.052	15
REP 965121	QC	0.8	21.2	22.6	157	0.9	14.0	6.0	591	2.41	10.2	3.7	0.8	45	0.5	0.6	0.3	44	0.43	0.051	16
965134	Soil	0.4	5.2	14.9	60	0.3	4.2	2.1	98	0.66	3.5	1.3	0.3	24	0.3	0.2	0.2	23	0.29	0.020	12
REP 965134	QC	0.3	5.2	14.4	59	0.3	4.0	2.1	96	0.65	3.5	4.6	0.3	25	0.4	0.2	0.2	25	0.29	0.020	11
Reference Materials																					
STD DS9	Standard	13.1	103.0	123.9	295	1.9	38.0	7.3	558	2.30	24.9	118.6	6.5	84	2.0	6.3	7.1	39	0.71	0.080	13
STD DS9	Standard	13.4	108.5	127.3	302	1.9	40.4	7.6	580	2.37	25.0	116.3	6.5	63	2.4	4.7	4.9	43	0.72	0.082	12
STD DS9	Standard	14.4	118.2	114.2	316	1.8	43.6	8.1	626	2.45	26.4	122.8	6.4	66	2.4	5.0	5.8	47	0.73	0.090	13
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
965082	Soil	17	0.20	70	0.019	<1	1.49	0.006	0.04	<0.1	0.05	2.2	0.1	<0.05	6	<0.5	<0.2
REP 965082	QC	17	0.20	71	0.018	<1	1.45	0.007	0.04	<0.1	0.04	2.3	0.1	<0.05	7	<0.5	<0.2
965085	Soil	14	0.26	109	0.009	<1	1.34	0.008	0.05	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
REP 965085	QC	14	0.26	110	0.009	<1	1.33	0.008	0.05	<0.1	0.03	1.1	0.1	<0.05	5	<0.5	<0.2
965118	Soil	15	0.26	78	0.035	<1	1.02	0.009	0.04	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
REP 965118	QC	15	0.26	78	0.034	<1	1.03	0.010	0.03	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
965121	Soil	21	0.52	131	0.021	1	1.93	0.021	0.07	0.1	0.04	4.0	0.1	<0.05	5	<0.5	<0.2
REP 965121	QC	21	0.53	136	0.022	3	1.95	0.017	0.07	0.1	0.06	4.2	0.1	<0.05	5	<0.5	<0.2
965134	Soil	9	0.16	124	0.015	<1	0.81	0.010	0.03	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
REP 965134	QC	9	0.16	127	0.014	<1	0.80	0.008	0.03	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	119	0.61	309	0.122	3	0.95	0.095	0.37	3.1	0.20	2.9	5.6	0.08	5	4.1	5.1
STD DS9	Standard	123	0.64	304	0.103	3	0.93	0.084	0.37	3.0	0.23	2.3	5.7	0.15	5	5.3	5.5
STD DS9	Standard	131	0.65	301	0.111	2	0.95	0.086	0.37	2.8	0.21	2.4	5.4	0.18	5	4.7	5.3
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 24, 2012

Report Date: August 10, 2012

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CERTIFICATE OF ANALYSIS

SMI12000135.1

CLIENT JOB INFORMATION

Project: KARMA
Shipment ID: KARM_SSN12-04_Jul231
P.O. Number: KARMA04
Number of Samples: 33

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	33	Crush, split and pulverize 250 g rock to 200 mesh			SMI
3B01	33	Fire assay fusion Au by ICP-ES	30	Completed	VAN
7AX1	33	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC:



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 10, 2012

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CERTIFICATE OF ANALYSIS

SMI12000135.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
G1-SMI	Prep Blank	<0.01	<2	<0.5	5.0	3.7	51	<0.5	2.5	4.4	696	2.23	<5	2.4	6.0	85	<0.5	<0.5	<0.5	42	0.70
G1-SMI	Prep Blank	<0.01	<2	<0.5	5.5	3.5	46	<0.5	1.8	3.7	661	2.01	<5	2.3	7.1	71	<0.5	<0.5	<0.5	39	0.52
965366	Rock	2.12	2	<0.5	3.9	9.1	72	<0.5	2.9	2.8	1015	0.88	<5	<0.5	3.7	20	<0.5	<0.5	<0.5	<10	0.32
965367	Rock	1.74	3	3.8	1.6	87.6	38	<0.5	<0.5	<0.5	81	0.69	30	0.6	7.2	<5	<0.5	0.6	<0.5	<10	0.02
965368	Rock	1.46	<2	<0.5	20.3	7.3	184	<0.5	92.1	29.9	1426	5.80	<5	<0.5	0.9	204	<0.5	1.0	<0.5	135	3.98
965369	Rock	2.35	<2	1.2	17.9	4.3	106	<0.5	4.9	26.8	1479	6.92	<5	0.7	1.7	177	<0.5	0.9	<0.5	232	2.32
965370	Rock	1.55	4	3.9	2.3	13.6	7	<0.5	<0.5	<0.5	39	0.67	<5	0.7	8.4	<5	<0.5	<0.5	<0.5	<10	0.02
965372	Rock	2.20	8	4.0	0.9	47.0	7	1.3	<0.5	<0.5	58	0.79	<5	1.0	7.4	8	<0.5	<0.5	<0.5	<10	0.01
965373	Rock	2.15	2	<0.5	5.8	8.1	105	<0.5	0.6	15.3	1252	4.51	<5	0.6	2.1	96	<0.5	<0.5	<0.5	91	2.30
965375	Rock	1.41	<2	0.6	2.4	13.6	52	<0.5	<0.5	2.8	734	2.06	<5	1.1	4.0	20	<0.5	<0.5	<0.5	26	0.34
965376	Rock	1.90	<2	1.2	31.3	5.1	102	<0.5	42.7	27.9	1016	6.02	<5	0.5	1.6	236	<0.5	1.4	<0.5	173	3.35
965377	Rock	1.99	<2	1.0	25.4	5.5	77	<0.5	30.4	15.1	681	3.78	<5	0.9	2.1	82	<0.5	<0.5	<0.5	96	2.51
965379	Rock	2.02	3	1.1	25.7	9.8	60	<0.5	40.6	13.6	768	3.59	<5	1.2	3.2	80	<0.5	<0.5	<0.5	89	1.64
965381	Rock	1.72	<2	<0.5	38.7	4.2	66	<0.5	17.7	11.1	649	3.16	<5	0.6	2.4	45	<0.5	<0.5	<0.5	55	1.94
965383	Rock	2.49	<2	3.7	0.7	6.2	15	<0.5	<0.5	<0.5	83	0.52	10	0.7	7.0	8	<0.5	0.6	<0.5	<10	0.01
965386	Rock	2.34	<2	3.3	1.0	21.8	24	<0.5	<0.5	<0.5	67	0.56	17	0.7	4.7	12	<0.5	0.7	<0.5	<10	0.01
965387	Rock	2.58	<2	1.2	24.3	6.6	160	<0.5	11.7	24.8	1311	5.84	<5	0.9	2.8	101	0.5	<0.5	<0.5	178	2.65
965388	Rock	2.34	<2	4.3	1.1	9.2	15	1.5	<0.5	<0.5	208	0.65	12	2.2	10.2	6	<0.5	0.9	<0.5	<10	0.02
965389	Rock	2.21	3	1.9	10.4	8.2	94	<0.5	13.5	12.1	996	3.62	<5	0.9	2.4	267	<0.5	<0.5	<0.5	69	2.26
965390	Rock	2.69	<2	0.8	44.5	1.2	97	<0.5	7.0	20.5	1044	5.65	6	0.6	2.4	226	<0.5	<0.5	<0.5	153	2.03
965391	Rock	2.14	<2	0.6	73.7	12.3	81	<0.5	16.3	16.4	921	3.91	<5	0.6	2.6	144	<0.5	<0.5	<0.5	52	2.27
965393	Rock	2.71	<2	1.0	27.3	3.0	73	<0.5	9.5	14.3	813	3.83	12	<0.5	2.1	122	<0.5	<0.5	<0.5	110	5.37
965395	Rock	2.46	2	0.7	2.9	7.5	28	<0.5	<0.5	3.7	385	2.21	<5	2.0	11.5	73	<0.5	0.6	<0.5	43	0.52
965396	Rock	2.30	<2	1.3	2.8	8.6	51	<0.5	<0.5	4.7	538	2.44	<5	1.1	10.1	169	<0.5	<0.5	<0.5	42	0.78
965397	Rock	2.25	<2	1.0	27.9	1.8	66	<0.5	18.8	11.2	280	2.96	<5	1.3	7.0	48	<0.5	<0.5	<0.5	88	0.62
965399	Rock	1.88	<2	0.6	22.8	2.5	45	<0.5	8.8	7.1	306	2.36	<5	0.8	4.5	39	<0.5	<0.5	<0.5	80	0.43
965402	Rock	1.82	<2	<0.5	24.7	1.4	61	<0.5	15.7	9.5	532	2.55	<5	0.5	6.0	44	<0.5	<0.5	<0.5	44	0.57
965405	Rock	2.53	<2	1.0	24.9	2.1	49	<0.5	19.0	10.1	408	2.81	<5	1.0	6.8	41	<0.5	<0.5	<0.5	85	0.52
965406	Rock	3.00	<2	16.4	0.7	41.3	22	<0.5	<0.5	<0.5	39	0.68	20	0.7	2.1	12	<0.5	0.9	<0.5	<10	0.01
965407	Rock	2.18	3	1.5	<0.5	10.3	43	<0.5	<0.5	<0.5	28	0.74	33	0.8	3.2	7	<0.5	1.2	0.7	<10	<0.01



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 10, 2012

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CERTIFICATE OF ANALYSIS

SMI12000135.1

Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	
G1-SMI	Prep Blank	0.083	16.2	9.7	0.57	181	0.167	1.19	0.14	0.51	<0.5	<0.05	3.0	<0.5	<0.05	6	<2
G1-SMI	Prep Blank	0.072	15.8	5.8	0.49	160	0.145	0.92	0.10	0.43	<0.5	<0.05	3.5	<0.5	<0.05	5	<2
965366	Rock	0.039	21.4	4.4	0.13	396	0.004	0.75	0.08	0.36	<0.5	<0.05	1.7	<0.5	<0.05	<5	<2
965367	Rock	0.009	29.3	2.6	0.02	58	0.002	0.31	0.06	0.19	<0.5	0.09	0.5	<0.5	0.06	<5	<2
965368	Rock	0.194	17.5	91.8	2.66	529	0.015	3.29	0.13	0.20	<0.5	<0.05	6.2	<0.5	<0.05	13	<2
965369	Rock	0.231	26.3	0.9	2.52	398	0.449	2.71	0.20	0.06	<0.5	<0.05	13.5	<0.5	<0.05	12	<2
965370	Rock	0.007	30.4	3.9	0.02	71	<0.001	0.28	0.07	0.17	<0.5	<0.05	0.9	<0.5	<0.05	<5	<2
965372	Rock	0.009	13.7	3.7	0.03	265	0.004	0.28	0.08	0.17	<0.5	<0.05	1.0	<0.5	0.10	<5	<2
965373	Rock	0.318	44.7	1.4	1.47	126	0.029	2.01	0.04	0.28	<0.5	<0.05	4.1	<0.5	<0.05	11	<2
965375	Rock	0.078	19.9	1.9	0.49	106	0.072	0.91	0.06	0.21	<0.5	<0.05	2.4	<0.5	<0.05	6	<2
965376	Rock	0.187	20.0	31.1	2.92	204	0.225	3.38	0.21	0.08	<0.5	<0.05	13.0	<0.5	<0.05	14	<2
965377	Rock	0.128	18.1	60.6	1.57	87	0.070	1.99	0.09	0.17	<0.5	<0.05	8.2	<0.5	<0.05	8	<2
965379	Rock	0.118	21.4	80.3	1.33	114	0.286	1.49	0.08	0.17	<0.5	<0.05	7.1	<0.5	<0.05	7	<2
965381	Rock	0.137	24.3	36.5	1.12	64	0.078	1.28	0.06	0.20	<0.5	0.11	4.0	<0.5	<0.05	7	<2
965383	Rock	0.007	31.1	4.1	0.02	438	0.002	0.35	0.04	0.21	<0.5	0.23	0.9	<0.5	<0.05	<5	<2
965386	Rock	0.004	17.3	3.9	0.01	700	0.002	0.33	0.02	0.22	<0.5	0.33	0.8	<0.5	0.07	<5	<2
965387	Rock	0.252	28.4	6.5	1.73	240	0.307	2.10	0.09	0.25	<0.5	<0.05	8.3	<0.5	<0.05	11	<2
965388	Rock	0.007	30.4	4.3	<0.01	126	0.001	0.34	0.06	0.22	<0.5	0.06	1.1	<0.5	0.05	<5	<2
965389	Rock	0.183	30.8	22.8	1.15	1323	0.195	1.70	0.08	0.49	<0.5	<0.05	5.9	<0.5	0.08	8	<2
965390	Rock	0.148	17.0	19.8	1.26	112	0.158	1.45	0.28	0.14	<0.5	<0.05	14.3	<0.5	<0.05	5	<2
965391	Rock	0.098	14.3	12.5	0.84	169	0.019	1.95	0.03	0.32	<0.5	<0.05	4.8	<0.5	<0.05	6	<2
965393	Rock	0.138	16.1	11.2	3.07	127	0.066	1.08	0.14	0.09	<0.5	0.11	10.3	<0.5	0.05	5	<2
965395	Rock	0.120	27.9	4.4	0.39	176	0.199	0.76	0.10	0.15	0.7	<0.05	2.3	<0.5	<0.05	<5	<2
965396	Rock	0.137	27.6	4.4	0.58	220	0.232	1.12	0.09	0.16	0.9	<0.05	3.0	<0.5	<0.05	<5	<2
965397	Rock	0.120	16.9	46.5	0.69	102	0.119	0.80	0.15	0.14	<0.5	<0.05	6.9	<0.5	<0.05	<5	<2
965399	Rock	0.108	15.1	31.1	0.42	100	0.126	0.84	0.12	0.14	<0.5	0.06	4.3	<0.5	<0.05	<5	<2
965402	Rock	0.110	19.2	42.7	0.34	179	0.110	0.70	0.12	0.14	<0.5	<0.05	9.0	<0.5	<0.05	<5	<2
965405	Rock	0.118	18.4	41.7	0.32	140	0.105	0.82	0.13	0.14	<0.5	<0.05	7.4	<0.5	<0.05	<5	<2
965406	Rock	0.004	2.3	4.1	0.01	976	0.002	0.41	0.03	0.24	<0.5	0.09	0.7	<0.5	0.05	<5	<2
965407	Rock	<0.001	2.3	2.3	<0.01	768	0.001	0.33	<0.01	0.22	<0.5	0.28	1.0	<0.5	0.45	<5	<2

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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
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Project: KARMA
 Report Date: August 10, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000135.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
965450	Rock	1.57	<2	2.0	5.9	13.4	87	<0.5	1.9	1.9	868	1.86	6	1.0	4.1	17	<0.5	0.9	<0.5	31	0.17
965451	Rock	2.30	<2	1.4	13.9	14.0	66	<0.5	3.9	5.6	738	2.24	5	0.9	4.1	33	<0.5	1.0	<0.5	39	0.41
965452	Rock	1.64	<2	<0.5	1.4	25.5	11	<0.5	<0.5	1.3	804	0.98	<5	1.4	5.8	<5	<0.5	<0.5	<0.5	<10	0.05
965454	Rock	1.61	<2	<0.5	17.8	1.1	44	<0.5	9.5	7.6	264	2.28	<5	0.6	2.8	30	<0.5	<0.5	<0.5	27	0.26
965456	Rock	2.21	<2	<0.5	21.3	2.4	65	<0.5	14.5	12.3	467	2.98	<5	1.2	6.1	43	<0.5	<0.5	<0.5	87	0.51



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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 15th Floor - 1040 West Georgia Street
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Project: KARMA
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CERTIFICATE OF ANALYSIS

SMI12000135.1

Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	
965450	Rock	0.066	16.2	13.5	0.40	110	0.098	1.00	0.09	0.24	<0.5	<0.05	3.7	<0.5	0.08	<5	<2
965451	Rock	0.068	12.9	20.3	0.43	85	0.133	1.02	0.10	0.20	0.6	<0.05	3.6	<0.5	<0.05	6	<2
965452	Rock	0.023	17.7	2.6	0.08	99	0.019	0.59	0.02	0.42	<0.5	<0.05	1.0	<0.5	0.24	<5	<2
965454	Rock	0.082	10.5	39.8	0.11	83	0.099	0.57	0.08	0.13	<0.5	<0.05	6.1	<0.5	<0.05	<5	<2
965456	Rock	0.111	16.3	40.0	0.39	111	0.097	0.83	0.12	0.15	<0.5	0.06	7.7	<0.5	<0.05	<5	<2



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 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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www.acmelab.com

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 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
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QUALITY CONTROL REPORT

SMI12000135.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
Pulp Duplicates																					
REP G1-SMI	QC		<0.5	3.7	4.0	53	<0.5	1.7	4.0	687	2.03	<5	2.4	6.9	75	<0.5	<0.5	<0.5	39	0.53	
965391	Rock	2.14	<2	0.6	73.7	12.3	81	<0.5	16.3	16.4	921	3.91	<5	0.6	2.6	144	<0.5	<0.5	<0.5	52	2.27
REP 965391	QC		<2																		
Core Reject Duplicates																					
965393	Rock	2.71	<2	1.0	27.3	3.0	73	<0.5	9.5	14.3	813	3.83	12	<0.5	2.1	122	<0.5	<0.5	<0.5	110	5.37
DUP 965393	QC	<0.01	<2	0.6	25.4	2.3	74	<0.5	8.0	14.3	777	3.83	12	0.5	1.8	120	<0.5	<0.5	<0.5	111	5.25
Reference Materials																					
STD OXD87	Standard		421																		
STD OXD87	Standard		426																		
STD OXD87	Standard		376																		
STD OXG99	Standard		1017																		
STD OXG99	Standard		926																		
STD SF-3A	Standard		301.3	7690	8666	10780	54.0	3447	187.6	3945	7.58	45	3.2	3.1	60	49.5	10.1	4.6	109	2.57	
STD SF-3A	Standard		302.9	7575	8446	10838	53.9	3447	180.9	3936	7.60	43	3.4	3.1	58	46.6	9.4	4.8	108	2.59	
STD OXG99 Expected			932																		
STD OXD87 Expected			417																		
STD SF-3A Expected			308	7705	8715	10750	54	3420	183	4100	7.75	46	3.3	2.8	58	50	10	4.6	102	2.59	
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		3																		
BLK	Blank		<2																		
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	
Prep Wash																					
G1-SMI	Prep Blank	<0.01	<2	<0.5	5.0	3.7	51	<0.5	2.5	4.4	696	2.23	<5	2.4	6.0	85	<0.5	<0.5	<0.5	42	0.70
G1-SMI	Prep Blank	<0.01	<2																		
G1-SMI	Prep Blank		<0.5	5.5	3.5	46	<0.5	1.8	3.7	661	2.01	<5	2.3	7.1	71	<0.5	<0.5	<0.5	39	0.52	

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Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**

15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA

Report Date: August 10, 2012

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Part: 2 of 2

QUALITY CONTROL REPORT

SMI12000135.1

Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	
Pulp Duplicates																	
REP G1-SMI	QC	0.076	16.3	5.7	0.49	175	0.146	0.93	0.10	0.47	<0.5	<0.05	3.2	<0.5	<0.05	5	<2
965391	Rock	0.098	14.3	12.5	0.84	169	0.019	1.95	0.03	0.32	<0.5	<0.05	4.8	<0.5	<0.05	6	<2
REP 965391	QC																
Core Reject Duplicates																	
965393	Rock	0.138	16.1	11.2	3.07	127	0.066	1.08	0.14	0.09	<0.5	0.11	10.3	<0.5	0.05	5	<2
DUP 965393	QC	0.142	15.4	12.4	3.04	113	0.071	1.07	0.14	0.09	<0.5	0.11	10.0	<0.5	0.05	<5	<2
Reference Materials																	
STD OXD87	Standard																
STD OXD87	Standard																
STD OXD87	Standard																
STD OXG99	Standard																
STD OXG99	Standard																
STD SF-3A	Standard	0.060	8.6	172.1	4.19	284	0.112	1.00	0.53	0.96	3.4	0.55	3.6	2.7	5.11	5	11
STD SF-3A	Standard	0.060	9.4	176.4	4.20	285	0.113	1.01	0.53	0.93	3.4	0.57	3.5	2.5	5.12	<5	10
STD OXG99 Expected																	
STD OXD87 Expected																	
STD SF-3A Expected		0.055	8.9	172	4.27	260	0.117	1.02	0.5	1.04	3.2	0.6	3	2.7	5	4	8.5
BLK	Blank																
BLK	Blank																
BLK	Blank																
BLK	Blank																
BLK	Blank																
BLK	Blank																
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2
Prep Wash																	
G1-SMI	Prep Blank	0.083	16.2	9.7	0.57	181	0.167	1.19	0.14	0.51	<0.5	<0.05	3.0	<0.5	<0.05	6	<2
G1-SMI	Prep Blank																
G1-SMI	Prep Blank	0.072	15.8	5.8	0.49	160	0.145	0.92	0.10	0.43	<0.5	<0.05	3.5	<0.5	<0.05	5	<2

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 24, 2012

Report Date: August 09, 2012

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CERTIFICATE OF ANALYSIS

SMI12000136.1

CLIENT JOB INFORMATION

Project: KARMA
Shipment ID: KARM_SSN12-03_Jul231
P.O. Number: KARMA03
Number of Samples: 124

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	123	Dry at 60C			SMI
SS80	123	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	123	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC:



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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 09, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000136.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
965150	Soil	0.9	10.7	12.1	60	<0.1	10.4	5.3	320	2.02	5.0	5.8	1.6	16	0.1	0.3	0.1	48	0.20	0.074	8
965151	Soil	0.8	18.3	8.9	56	<0.1	14.5	7.6	505	2.44	6.7	1.3	1.4	24	0.2	0.4	<0.1	53	0.35	0.057	8
965152	Soil	1.6	6.0	17.5	59	0.2	10.2	4.9	386	2.15	8.0	0.6	0.8	10	0.1	0.4	0.3	46	0.15	0.076	7
965153	Soil	0.8	13.2	11.9	54	<0.1	10.0	6.2	342	2.18	4.6	1.3	1.5	30	0.1	0.3	0.1	52	0.37	0.071	11
965154	Soil	1.8	7.9	4.3	20	0.2	10.0	1.5	63	0.88	0.5	0.6	0.1	23	0.3	0.2	0.1	26	0.22	0.021	7
965155	Soil	1.1	5.8	10.1	40	<0.1	8.0	4.2	183	2.08	6.1	6.5	0.7	11	0.1	0.3	0.3	48	0.11	0.043	8
965156	Soil	1.3	6.7	7.8	55	0.2	10.6	4.2	593	1.80	2.6	<0.5	0.8	27	0.4	0.3	0.2	56	0.28	0.043	9
965157	Soil	0.9	3.7	8.5	33	0.1	3.6	1.7	97	1.29	2.0	2.4	0.7	16	0.2	0.2	0.2	38	0.15	0.022	8
965158	Soil	1.1	4.9	9.7	46	0.1	4.3	2.4	186	1.64	2.4	26.4	0.7	19	0.2	0.2	0.2	43	0.18	0.046	8
965159	Soil	1.7	11.6	23.0	60	<0.1	13.0	7.3	636	2.43	6.7	0.8	2.9	15	0.1	0.4	0.3	52	0.20	0.069	11
965160	Soil	1.5	8.3	17.2	60	0.3	9.8	5.6	251	2.32	5.9	1.3	2.0	11	0.1	0.4	0.2	47	0.13	0.056	8
965161	Soil	1.5	8.5	16.0	56	0.1	9.3	7.6	721	2.20	5.7	1.8	1.4	28	0.1	0.3	0.2	47	0.21	0.045	12
965162	Soil	1.7	12.6	9.5	61	<0.1	29.6	9.4	226	3.08	5.7	0.6	1.8	32	<0.1	0.3	0.2	84	0.30	0.083	12
965163	Soil	3.0	8.1	20.0	84	0.3	9.4	4.9	249	2.77	7.2	<0.5	1.9	20	0.2	0.4	0.3	47	0.18	0.084	11
965164	Soil	1.3	6.5	14.1	92	0.1	5.4	3.1	189	2.29	3.9	0.6	2.0	12	0.3	0.2	0.2	51	0.13	0.061	9
965165	Soil	2.3	9.2	17.2	142	0.3	7.9	6.8	755	2.94	5.7	<0.5	2.3	13	0.4	0.4	0.4	47	0.12	0.183	9
965166	Soil	1.4	8.5	11.2	79	<0.1	10.8	5.0	248	2.17	5.3	<0.5	2.5	21	<0.1	0.2	0.2	44	0.20	0.058	11
965167	Soil	1.4	7.6	11.9	130	0.2	11.1	7.2	412	2.51	5.0	<0.5	2.4	12	0.3	0.3	0.2	51	0.09	0.072	9
965168	Soil	1.2	6.8	10.8	78	0.3	5.6	3.4	193	2.21	3.1	<0.5	2.2	9	0.1	0.2	0.2	47	0.10	0.137	9
965169	Soil	0.9	6.3	9.2	42	<0.1	6.2	3.5	158	1.88	3.5	1.4	1.8	13	<0.1	0.2	0.2	46	0.11	0.053	9
965170	Soil	1.7	8.7	19.7	69	0.2	9.5	6.5	376	2.25	4.0	20.3	1.6	31	0.1	0.3	0.3	45	0.19	0.071	11
965171	Soil	1.8	12.3	11.4	70	0.1	10.6	5.9	262	2.59	4.7	0.5	1.7	28	<0.1	0.3	0.3	53	0.23	0.051	11
965172	Soil	0.7	5.3	7.3	37	<0.1	4.3	2.4	120	1.42	1.1	<0.5	0.9	10	0.1	0.2	0.2	37	0.08	0.025	10
965173	Soil	1.7	8.9	8.0	51	<0.1	8.9	3.4	228	1.76	2.8	86.9	0.8	19	<0.1	0.3	0.2	43	0.17	0.034	9
965174	Soil	1.3	7.4	10.5	59	0.1	10.1	6.3	274	2.27	5.3	<0.5	2.4	15	0.1	0.3	0.2	48	0.14	0.058	9
965175	Soil	2.0	8.0	11.8	55	0.2	7.6	4.3	220	1.82	3.1	1.1	1.2	21	0.1	0.2	0.2	40	0.16	0.032	13
965176	Soil	2.8	9.9	11.0	47	0.5	9.1	4.0	225	1.59	1.9	<0.5	0.7	32	0.1	0.2	0.2	36	0.26	0.032	21
965177	Soil	3.3	23.0	20.3	108	0.7	17.0	7.6	589	2.84	6.9	0.6	1.4	36	0.3	0.3	0.4	51	0.26	0.067	19
965178	Soil	2.9	15.3	12.6	47	0.2	8.4	4.7	324	1.69	4.3	2.1	1.8	27	<0.1	0.3	0.2	37	0.21	0.033	11
965179	Soil	2.4	13.5	11.4	56	0.1	10.2	5.4	410	1.60	3.0	<0.5	0.6	35	0.2	0.2	0.2	34	0.25	0.051	17

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 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
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CERTIFICATE OF ANALYSIS

SMI12000136.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
965150	Soil	18	0.26	92	0.037	1	0.99	0.014	0.04	<0.1	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
965151	Soil	18	0.34	127	0.044	<1	0.87	0.017	0.04	<0.1	0.02	4.0	<0.1	<0.05	3	<0.5	<0.2
965152	Soil	16	0.22	81	0.023	<1	1.13	0.006	0.04	<0.1	0.05	1.3	<0.1	<0.05	3	<0.5	<0.2
965153	Soil	17	0.31	102	0.051	1	0.75	0.017	0.06	<0.1	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2
965154	Soil	20	0.04	137	0.014	1	0.27	0.007	0.03	<0.1	0.04	0.6	<0.1	<0.05	2	<0.5	<0.2
965155	Soil	16	0.17	67	0.029	1	0.81	0.006	0.03	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
965156	Soil	20	0.18	115	0.047	<1	0.57	0.008	0.06	<0.1	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
965157	Soil	10	0.05	58	0.031	<1	0.46	0.006	0.03	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
965158	Soil	13	0.09	91	0.029	<1	0.65	0.006	0.04	<0.1	0.05	1.1	<0.1	<0.05	4	<0.5	<0.2
965159	Soil	20	0.32	106	0.050	1	1.37	0.010	0.05	0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
965160	Soil	17	0.25	87	0.035	<1	1.31	0.008	0.04	<0.1	0.06	2.0	<0.1	<0.05	4	<0.5	<0.2
965161	Soil	15	0.25	146	0.036	<1	1.22	0.012	0.04	<0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
965162	Soil	40	0.59	161	0.088	<1	1.34	0.013	0.10	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
965163	Soil	18	0.22	113	0.035	1	1.71	0.007	0.04	<0.1	0.04	2.0	<0.1	<0.05	4	<0.5	<0.2
965164	Soil	14	0.14	98	0.042	1	0.91	0.007	0.04	<0.1	0.06	1.7	<0.1	<0.05	6	<0.5	<0.2
965165	Soil	16	0.20	127	0.032	1	1.53	0.006	0.05	0.1	0.06	1.8	<0.1	<0.05	6	<0.5	<0.2
965166	Soil	15	0.30	147	0.040	<1	1.52	0.009	0.04	<0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
965167	Soil	17	0.25	114	0.038	<1	1.82	0.008	0.04	<0.1	0.04	2.3	<0.1	<0.05	5	<0.5	<0.2
965168	Soil	15	0.15	70	0.034	<1	1.30	0.007	0.04	<0.1	0.04	1.8	<0.1	<0.05	6	<0.5	<0.2
965169	Soil	13	0.18	85	0.044	<1	1.01	0.007	0.04	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
965170	Soil	17	0.24	194	0.030	<1	0.99	0.007	0.06	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
965171	Soil	19	0.38	137	0.023	<1	1.87	0.010	0.06	<0.1	0.04	2.8	<0.1	<0.05	7	<0.5	<0.2
965172	Soil	12	0.09	69	0.035	<1	0.63	0.007	0.04	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
965173	Soil	18	0.18	90	0.036	<1	0.72	0.008	0.05	<0.1	0.04	1.5	<0.1	<0.05	4	<0.5	<0.2
965174	Soil	17	0.25	93	0.038	<1	1.28	0.008	0.05	<0.1	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
965175	Soil	13	0.24	117	0.032	<1	1.13	0.009	0.03	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
965176	Soil	16	0.17	138	0.023	<1	1.13	0.009	0.04	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
965177	Soil	22	0.36	235	0.010	<1	2.24	0.008	0.07	0.1	0.04	2.8	0.1	<0.05	8	<0.5	<0.2
965178	Soil	13	0.27	104	0.029	<1	1.01	0.024	0.04	<0.1	0.03	2.2	<0.1	<0.05	3	<0.5	<0.2
965179	Soil	15	0.27	156	0.020	<1	1.37	0.008	0.05	<0.1	0.04	1.9	<0.1	<0.05	4	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 09, 2012

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CERTIFICATE OF ANALYSIS

SMI12000136.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1	
965180	Soil	1.3	8.3	10.1	53	<0.1	8.6	4.4	282	1.96	5.0	55.8	1.6	28	<0.1	0.3	0.2	41	0.21	0.046	11	
965181	Soil	2.3	7.9	9.9	47	0.2	8.1	3.8	195	1.60	4.6	1.0	2.1	15	<0.1	0.3	0.2	35	0.11	0.032	10	
965182	Soil	1.6	7.7	18.2	55	0.4	6.0	3.2	208	2.19	8.4	<0.5	1.5	6	0.2	0.4	0.3	39	0.07	0.129	8	
965183	Soil	1.4	14.8	15.7	92	0.4	9.3	6.3	506	2.55	4.0	<0.5	0.7	25	0.4	0.3	0.4	52	0.16	0.044	14	
965184	Soil	1.0	9.9	10.9	75	<0.1	7.8	5.8	260	2.37	7.9	<0.5	2.2	16	0.2	0.3	0.2	42	0.17	0.131	9	
965185	Soil	0.5	2.7	7.0	20	0.2	1.7	0.9	65	0.89	0.8	7.8	1.4	6	0.1	0.2	0.2	28	0.06	0.025	9	
965186	Soil	0.6	5.2	9.1	39	0.2	5.9	2.4	149	1.05	2.1	1.2	0.8	15	0.1	0.2	0.2	25	0.12	0.026	8	
965187	Soil	0.9	12.6	13.6	63	0.3	7.9	5.2	431	1.53	3.7	6.3	0.7	19	0.2	0.2	0.3	31	0.17	0.044	11	
965188	Soil	0.6	6.9	12.9	54	0.2	6.4	4.0	384	1.10	1.9	2.4	0.5	20	0.1	0.2	0.3	24	0.18	0.034	10	
965189	Soil	2.1	18.9	19.7	76	1.0	16.6	7.1	929	1.68	1.9	1.7	0.1	66	0.5	0.3	0.3	34	0.47	0.092	26	
965190	Soil	1.3	23.3	18.9	94	0.5	10.4	3.0	238	1.49	3.5	7.2	0.7	22	0.2	0.2	0.4	29	0.17	0.045	15	
965191	Soil	0.8	5.3	9.8	73	0.1	6.4	3.3	178	1.47	4.2	2.8	1.6	8	0.1	0.3	0.2	29	0.11	0.070	7	
965192	Soil	1.3	10.6	18.3	71	0.5	8.1	7.4	645	1.31	2.8	1.3	0.3	23	0.2	0.2	0.4	28	0.17	0.054	9	
965193	Soil	1.0	25.1	23.9	87	0.5	10.4	5.4	321	1.20	1.9	2.5	1.2	32	0.3	0.2	0.5	20	0.22	0.077	15	
965194	Soil	0.9	9.6	15.3	59	<0.1	6.9	4.7	272	1.83	6.0	1.0	2.1	7	0.1	0.4	0.2	35	0.08	0.054	7	
965195	Soil	0.6	3.3	9.7	13	0.1	1.7	0.7	49	0.74	1.4	1.2	1.4	5	<0.1	0.2	0.2	18	0.04	0.017	9	
965196	Soil	1.1	8.0	19.6	76	0.3	6.9	2.7	146	1.79	5.0	12.7	2.1	7	<0.1	0.3	6.8	33	0.08	0.076	8	
965197	Soil	0.8	6.2	13.1	54	0.4	6.8	3.4	129	1.87	5.4	1.1	2.2	6	<0.1	0.3	0.2	38	0.07	0.076	6	
965198	Soil	0.4	3.2	6.2	7	0.2	2.0	0.4	13	0.19	<0.5	1.4	0.2	19	<0.1	<0.1	0.2	4	0.11	0.028	6	
965200	Soil	0.7	6.9	17.8	50	0.2	7.4	2.6	137	0.85	1.7	4.3	0.6	16	<0.1	0.2	0.3	20	0.15	0.024	11	
965201	Soil	1.0	14.5	18.3	73	1.1	10.2	3.7	228	1.25	1.3	2.5	1.0	31	0.3	0.2	0.3	21	0.22	0.043	17	
965202	Soil	0.8	12.1	17.2	42	0.6	4.7	3.0	180	1.10	1.8	1.1	0.5	18	0.2	0.2	0.3	20	0.14	0.037	14	
965203	Soil	2.3	16.0	27.9	75	0.5	10.2	7.9	823	2.33	5.2	0.7	1.0	32	0.2	0.3	0.5	58	0.24	0.035	12	
965204	Soil	0.7	7.1	9.2	46	0.2	5.3	2.8	173	1.39	3.6	0.9	1.3	11	<0.1	0.3	0.2	28	0.09	0.019	8	
965205	Soil	0.7	5.7	12.0	74	0.3	4.2	2.9	463	1.88	3.4	0.9	1.4	7	0.3	0.3	0.3	40	0.07	0.071	8	
965206	Soil	1.2	11.4	19.6	53	0.5	6.3	6.1	1467	1.59	4.1	2.4	0.2	24	0.2	0.3	0.3	32	0.17	0.037	13	
965207	Soil	1.6	10.6	22.9	44	0.8	5.8	8.7	1152	1.38	3.2	1.6	0.3	24	0.2	0.2	0.3	30	0.16	0.036	15	
965208	Soil	1.0	3.7	11.9	48	0.1	3.8	2.0	154	1.26	2.8	0.7	1.5	7	<0.1	0.3	0.4	30	0.07	0.016	8	
965209	Soil	0.3	1.5	2.3	5	<0.1	0.9	0.2	21	0.10	<0.5	1.5	<0.1	4	0.2	<0.1	<0.1	4	0.02	0.010	6	
965210	Soil	2.9	25.3	22.6	68	2.0	10.6	6.2	1235	2.34	7.2	2.4	0.3	40	0.3	0.3	0.4	42	0.28	0.145	23	

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
965180	Soil	15	0.29	118	0.037	<1	1.18	0.010	0.05	<0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
965181	Soil	12	0.22	84	0.025	<1	1.15	0.008	0.03	0.1	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
965182	Soil	15	0.15	52	0.022	<1	1.39	0.006	0.03	0.1	0.08	1.5	<0.1	<0.05	4	<0.5	<0.2
965183	Soil	20	0.19	191	0.021	<1	1.34	0.008	0.05	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
965184	Soil	14	0.21	95	0.025	<1	1.17	0.008	0.04	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
965185	Soil	8	0.04	59	0.028	<1	0.54	0.006	0.02	<0.1	0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
965186	Soil	11	0.17	72	0.028	<1	0.76	0.008	0.03	<0.1	0.02	1.2	<0.1	0.13	3	<0.5	<0.2
965187	Soil	13	0.23	110	0.021	1	1.24	0.012	0.04	<0.1	0.04	1.8	<0.1	0.14	4	<0.5	<0.2
965188	Soil	12	0.24	102	0.022	<1	1.00	0.010	0.03	<0.1	0.03	1.4	<0.1	0.14	3	<0.5	<0.2
965189	Soil	25	0.42	258	0.020	2	1.83	0.010	0.08	<0.1	0.13	1.2	0.1	0.32	5	<0.5	<0.2
965190	Soil	21	0.25	144	0.017	<1	1.63	0.011	0.04	<0.1	0.06	1.6	<0.1	0.14	5	<0.5	<0.2
965191	Soil	12	0.16	62	0.027	<1	1.13	0.009	0.03	0.1	0.05	1.4	<0.1	0.10	3	<0.5	<0.2
965192	Soil	14	0.21	138	0.011	<1	1.40	0.010	0.06	<0.1	0.05	1.0	<0.1	0.14	5	<0.5	<0.2
965193	Soil	20	0.18	228	0.010	1	2.07	0.010	0.08	<0.1	0.08	2.1	0.1	0.22	7	<0.5	<0.2
965194	Soil	14	0.18	61	0.030	<1	1.28	0.008	0.03	<0.1	0.04	1.6	<0.1	0.10	3	<0.5	<0.2
965195	Soil	6	0.04	31	0.024	<1	0.50	0.006	0.02	<0.1	0.02	0.7	<0.1	0.11	4	<0.5	<0.2
965196	Soil	14	0.19	67	0.022	<1	1.87	0.009	0.04	0.1	0.07	2.0	<0.1	0.13	5	<0.5	<0.2
965197	Soil	13	0.17	47	0.033	<1	1.79	0.009	0.03	<0.1	0.04	1.9	<0.1	0.12	4	<0.5	<0.2
965198	Soil	4	0.02	109	0.007	1	0.52	0.009	0.02	<0.1	0.05	0.4	<0.1	0.15	1	<0.5	<0.2
965200	Soil	15	0.20	110	0.019	<1	1.07	0.010	0.03	<0.1	0.03	1.4	<0.1	0.09	4	<0.5	<0.2
965201	Soil	17	0.26	208	0.010	<1	2.03	0.008	0.06	<0.1	0.10	2.4	0.1	0.14	6	<0.5	<0.2
965202	Soil	10	0.12	125	0.013	<1	1.17	0.008	0.03	<0.1	0.07	1.2	<0.1	0.14	4	<0.5	<0.2
965203	Soil	18	0.26	219	0.015	<1	1.48	0.009	0.06	<0.1	0.03	2.3	<0.1	0.11	7	<0.5	<0.2
965204	Soil	10	0.20	70	0.028	<1	0.82	0.006	0.04	<0.1	0.02	1.5	<0.1	0.11	3	<0.5	<0.2
965205	Soil	14	0.10	94	0.029	<1	0.75	0.007	0.03	<0.1	0.02	1.5	<0.1	0.13	5	<0.5	<0.2
965206	Soil	12	0.19	133	0.019	<1	0.96	0.009	0.04	<0.1	0.03	1.0	<0.1	0.13	4	<0.5	<0.2
965207	Soil	11	0.16	153	0.017	<1	1.01	0.006	0.04	<0.1	0.05	1.1	<0.1	0.14	5	<0.5	<0.2
965208	Soil	9	0.12	49	0.032	<1	0.74	0.006	0.04	<0.1	0.02	1.3	<0.1	0.09	5	<0.5	<0.2
965209	Soil	3	<0.01	33	0.006	<1	0.23	0.007	0.01	<0.1	0.01	0.2	<0.1	0.12	2	<0.5	<0.2
965210	Soil	20	0.17	206	0.008	<1	2.21	0.007	0.04	<0.1	0.17	0.9	0.1	0.19	5	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
965211	Soil	1.6	13.8	19.0	46	2.0	6.9	10.5	2938	0.89	2.1	1.3	0.2	43	0.5	0.2	0.2	16	0.31	0.131	20
965212	Soil	1.0	5.7	10.8	67	0.3	4.1	2.8	354	1.67	2.4	1.2	0.8	10	0.4	0.3	0.4	42	0.11	0.044	8
965213	Soil	1.8	8.1	14.0	54	0.4	6.1	3.3	196	2.71	7.9	1.0	1.0	17	0.2	0.4	0.4	48	0.13	0.027	8
965214	Soil	1.2	5.3	12.4	59	0.4	4.7	2.5	149	2.17	7.5	2.0	1.4	7	0.3	0.4	0.3	42	0.07	0.061	7
965215	Soil	0.7	4.1	6.8	26	0.2	3.2	2.1	391	1.37	1.9	0.6	0.8	6	<0.1	0.2	0.2	33	0.05	0.041	7
965216	Soil	1.0	4.1	6.9	24	0.1	3.9	1.2	61	0.88	2.4	4.4	0.4	20	0.2	0.3	0.2	27	0.14	0.013	12
965217	Soil	1.1	7.8	11.2	50	0.4	5.2	2.4	203	1.10	2.8	0.7	0.2	18	0.3	0.2	0.3	23	0.14	0.031	8
965218	Soil	1.2	5.2	8.6	29	0.3	2.8	1.8	261	1.64	3.0	<0.5	0.3	6	0.1	0.3	0.3	42	0.06	0.029	7
965219	Soil	1.6	8.6	17.9	91	0.4	7.7	4.3	242	2.40	9.7	6.3	2.0	12	0.3	0.4	0.4	39	0.15	0.071	8
965220	Soil	1.7	12.4	19.6	81	0.5	11.0	8.3	339	2.75	12.7	7.9	1.1	20	0.4	0.5	0.4	39	0.16	0.050	12
965221	Soil	1.5	9.1	13.0	112	0.4	8.3	4.0	253	2.22	7.1	1.5	1.1	15	0.2	0.4	0.4	39	0.13	0.047	8
965222	Soil	1.6	4.9	9.4	49	0.2	3.8	2.2	149	2.03	6.4	0.9	0.8	6	0.2	0.4	0.5	49	0.07	0.058	7
965223	Soil	0.5	3.0	5.6	16	0.2	1.2	0.8	84	0.59	<0.5	0.6	0.1	14	0.2	0.2	0.2	17	0.13	0.015	7
965224	Soil	1.2	4.5	10.0	38	0.3	4.5	2.0	127	1.76	3.9	1.2	0.9	6	0.1	0.4	0.5	42	0.06	0.067	7
965225	Soil	0.7	3.2	6.2	19	0.1	2.8	1.2	77	1.15	2.1	1.2	1.0	5	<0.1	0.3	0.4	34	0.04	0.019	7
965226	Soil	1.1	5.0	14.7	45	0.3	4.2	2.0	133	1.24	1.9	<0.5	0.6	9	0.2	0.3	0.5	31	0.08	0.032	8
965227	Soil	1.2	5.6	11.7	43	0.3	4.3	2.6	142	2.37	6.7	0.8	1.8	7	0.2	0.3	0.6	59	0.08	0.092	7
965228	Soil	2.8	6.1	13.1	40	0.2	10.8	2.2	209	1.02	3.2	3.2	0.1	22	0.1	0.2	0.4	26	0.15	0.037	7
965229	Soil	1.4	5.2	11.5	46	0.1	3.3	1.8	204	0.81	1.2	<0.5	0.1	39	0.2	0.2	0.4	24	0.20	0.031	10
965230	Soil	1.4	6.8	11.7	27	0.2	5.9	2.2	157	0.71	1.0	2.6	0.1	50	0.1	0.2	0.3	22	0.25	0.042	15
965231	Soil	0.4	2.3	3.8	7	<0.1	0.9	0.3	26	0.31	<0.5	0.8	<0.1	4	<0.1	0.1	0.2	13	0.03	0.021	8
965232	Soil	0.8	4.5	9.2	24	0.2	3.0	1.6	76	1.75	4.3	<0.5	<0.1	5	<0.1	0.3	0.3	40	0.04	0.060	7
965233	Soil	0.9	5.7	7.9	34	<0.1	5.1	3.2	145	1.64	1.8	0.6	1.6	20	<0.1	0.2	0.5	41	0.20	0.101	7
965234	Soil	1.4	6.9	11.5	27	0.3	4.2	3.3	233	1.12	2.0	<0.5	0.1	72	0.3	0.3	0.4	31	0.30	0.042	17
965235	Soil	0.8	3.9	7.7	19	0.1	2.8	1.1	87	1.05	1.2	0.9	<0.1	6	<0.1	0.2	0.4	31	0.05	0.038	9
965236	Soil	1.4	6.1	13.3	60	0.1	6.6	3.3	174	2.34	6.3	1.1	2.6	8	0.2	0.4	0.5	43	0.08	0.097	8
965237	Soil	0.8	5.5	6.1	37	0.4	7.0	2.5	90	1.71	1.2	0.5	0.7	6	0.1	0.4	0.3	42	0.05	0.042	9
965238	Soil	1.7	8.8	15.5	65	0.2	5.9	3.3	183	2.52	7.9	<0.5	3.4	17	0.2	0.4	0.5	48	0.18	0.108	7
965239	Soil	0.8	4.7	8.8	21	<0.1	2.4	1.3	89	1.22	2.1	<0.5	1.4	6	<0.1	0.3	0.5	32	0.06	0.033	9
965240	Soil	2.4	6.0	13.5	47	0.3	4.3	2.3	132	2.45	6.0	0.7	1.6	7	<0.1	0.4	0.6	46	0.06	0.090	8

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 09, 2012

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CERTIFICATE OF ANALYSIS

SMI12000136.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
965211	Soil	13	0.12	214	0.004	<1	1.65	0.009	0.03	<0.1	0.25	0.6	0.2	0.17	4	<0.5	<0.2
965212	Soil	14	0.11	65	0.033	<1	0.61	0.007	0.04	<0.1	0.03	1.0	0.2	<0.05	5	<0.5	<0.2
965213	Soil	14	0.20	80	0.034	<1	1.03	0.008	0.03	0.2	0.04	1.5	<0.1	0.15	5	<0.5	<0.2
965214	Soil	13	0.15	44	0.033	<1	1.18	0.008	0.02	0.1	0.09	1.4	<0.1	0.11	4	<0.5	<0.2
965215	Soil	11	0.05	60	0.021	<1	0.62	0.007	0.03	<0.1	0.03	0.8	<0.1	0.13	4	<0.5	<0.2
965216	Soil	9	0.05	111	0.023	<1	0.38	0.007	0.03	<0.1	0.02	0.7	<0.1	0.11	3	<0.5	<0.2
965217	Soil	10	0.20	88	0.017	<1	0.83	0.007	0.03	<0.1	0.06	0.8	<0.1	0.13	5	<0.5	<0.2
965218	Soil	12	0.04	60	0.023	<1	0.43	0.006	0.03	<0.1	0.02	0.7	<0.1	0.11	3	<0.5	<0.2
965219	Soil	15	0.25	92	0.024	<1	1.62	0.008	0.04	0.1	0.07	2.0	<0.1	0.14	4	<0.5	<0.2
965220	Soil	18	0.24	189	0.023	<1	2.13	0.010	0.04	0.1	0.08	2.4	<0.1	0.12	4	<0.5	<0.2
965221	Soil	15	0.27	101	0.022	<1	1.32	0.008	0.04	0.1	0.03	1.9	<0.1	0.13	5	<0.5	<0.2
965222	Soil	12	0.10	34	0.035	<1	0.49	0.006	0.04	0.1	0.02	1.0	<0.1	0.14	5	<0.5	<0.2
965223	Soil	5	0.03	61	0.013	<1	0.28	0.005	0.03	<0.1	0.02	0.4	<0.1	<0.05	2	<0.5	<0.2
965224	Soil	12	0.10	40	0.032	1	0.63	0.005	0.02	0.1	0.04	1.2	<0.1	<0.05	6	<0.5	<0.2
965225	Soil	9	0.06	33	0.042	<1	0.56	0.005	0.04	<0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
965226	Soil	11	0.10	65	0.037	<1	0.67	0.005	0.03	0.1	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
965227	Soil	15	0.15	57	0.050	<1	0.86	0.006	0.03	0.2	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
965228	Soil	20	0.15	75	0.012	<1	0.75	0.006	0.04	<0.1	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
965229	Soil	9	0.14	103	0.013	<1	0.81	0.014	0.03	<0.1	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2
965230	Soil	13	0.16	96	0.009	<1	0.85	0.008	0.03	0.1	0.03	0.6	<0.1	<0.05	3	<0.5	<0.2
965231	Soil	4	0.02	20	0.008	<1	0.39	0.005	0.02	<0.1	0.02	0.2	0.1	<0.05	4	<0.5	<0.2
965232	Soil	11	0.10	40	0.012	<1	0.94	0.005	0.03	<0.1	0.04	0.6	<0.1	<0.05	6	<0.5	<0.2
965233	Soil	11	0.30	80	0.057	<1	0.97	0.005	0.04	<0.1	0.04	1.0	<0.1	<0.05	6	<0.5	<0.2
965234	Soil	10	0.12	86	0.012	<1	0.81	0.007	0.04	<0.1	0.02	0.5	<0.1	<0.05	5	<0.5	<0.2
965235	Soil	10	0.06	39	0.014	<1	0.66	0.006	0.03	<0.1	0.02	0.4	<0.1	<0.05	6	<0.5	<0.2
965236	Soil	18	0.21	68	0.034	<1	2.04	0.007	0.04	0.2	0.05	1.9	<0.1	<0.05	5	<0.5	<0.2
965237	Soil	30	0.11	55	0.015	<1	1.00	0.005	0.02	<0.1	0.02	1.2	0.1	<0.05	6	<0.5	<0.2
965238	Soil	17	0.19	58	0.030	<1	2.45	0.006	0.04	0.2	0.08	1.8	<0.1	<0.05	5	<0.5	<0.2
965239	Soil	9	0.07	40	0.034	<1	0.69	0.005	0.03	<0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
965240	Soil	14	0.14	46	0.028	<1	1.45	0.006	0.03	0.2	0.08	1.6	<0.1	<0.05	6	<0.5	<0.2

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

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Client: **Quartz Mountain Resources Ltd.**
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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
965241	Soil	1.4	3.1	8.9	22	0.1	2.8	1.6	102	1.19	1.5	0.9	1.0	9	<0.1	0.3	0.4	32	0.07	0.029	9
965242	Soil	1.1	5.3	6.0	14	0.1	2.7	0.9	40	0.89	<0.5	<0.5	<0.1	18	<0.1	0.1	0.2	28	0.11	0.028	6
965243	Soil	1.6	6.3	7.1	60	0.2	7.0	3.5	216	2.00	2.1	<0.5	1.6	16	<0.1	0.4	0.7	42	0.09	0.051	18
965244	Soil	2.1	3.8	10.9	37	0.1	7.7	1.4	79	1.10	3.1	2.3	0.2	12	0.5	0.2	0.5	26	0.08	0.029	7
965245	Soil	4.5	15.8	9.6	131	0.3	6.1	3.6	665	1.67	2.5	0.8	0.1	9	0.7	0.3	0.6	30	0.06	0.071	8
965246	Soil	1.8	10.4	10.8	46	0.2	8.9	2.3	102	1.55	3.8	<0.5	0.1	10	0.3	0.3	0.6	30	0.09	0.073	8
965247	Soil	1.3	8.5	17.0	56	0.2	7.7	5.1	214	2.32	9.4	1.8	2.6	7	0.1	0.5	0.5	45	0.08	0.045	7
965248	Soil	1.2	3.3	8.8	18	<0.1	5.1	0.8	57	0.64	0.8	2.9	<0.1	6	<0.1	0.2	0.4	16	0.05	0.032	9
965249	Soil	0.4	2.0	6.5	8	<0.1	0.8	0.4	47	0.42	<0.5	0.9	1.7	5	<0.1	0.1	0.3	14	0.04	0.009	9
965250	Soil	0.9	4.8	16.0	27	0.1	4.5	1.4	66	0.66	1.5	2.1	0.3	6	<0.1	0.2	0.7	14	0.05	0.096	8
965251	Soil	0.8	7.0	6.3	91	0.1	11.1	7.6	485	2.92	3.9	<0.5	0.8	10	0.1	0.2	<0.1	66	0.15	0.135	4
965252	Soil	0.4	3.7	5.0	41	<0.1	4.9	3.1	140	1.73	0.7	<0.5	0.6	14	<0.1	0.2	<0.1	47	0.21	0.022	4
965253	Soil	1.8	10.2	4.0	40	<0.1	12.3	5.7	959	0.93	0.9	10.6	0.2	106	0.2	0.2	<0.1	32	1.41	0.058	3
965254	Soil	0.5	12.0	6.9	40	<0.1	13.6	7.0	152	2.20	3.0	<0.5	0.8	18	<0.1	0.1	<0.1	72	0.21	0.068	6
965255	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965256	Soil	1.4	10.0	1.4	26	<0.1	4.6	1.3	851	0.38	1.0	<0.5	<0.1	303	<0.1	<0.1	<0.1	6	4.22	0.084	<1
965257	Soil	0.4	7.2	4.6	59	<0.1	10.2	4.6	415	1.88	1.9	<0.5	0.8	12	<0.1	0.2	<0.1	45	0.19	0.047	5
965258	Soil	0.5	7.4	5.0	58	<0.1	12.0	5.1	255	1.95	2.6	<0.5	1.1	14	<0.1	0.2	<0.1	48	0.20	0.081	5
965259	Soil	0.6	7.9	5.1	55	<0.1	11.6	5.4	289	2.18	3.3	<0.5	1.2	14	<0.1	0.2	<0.1	52	0.18	0.130	4
965260	Soil	0.3	4.9	3.9	29	<0.1	7.9	4.4	205	1.68	2.6	<0.5	0.8	18	<0.1	0.2	<0.1	40	0.20	0.018	4
965261	Soil	0.3	7.1	4.5	30	<0.1	6.3	4.3	255	1.45	1.2	0.5	0.7	26	<0.1	0.1	<0.1	37	0.26	0.015	5
965262	Soil	0.4	5.3	4.8	43	<0.1	7.2	4.3	173	1.72	2.3	<0.5	0.7	18	<0.1	0.1	<0.1	46	0.21	0.052	4
965263	Soil	0.3	4.0	3.9	40	<0.1	6.1	3.6	257	1.30	1.1	<0.5	0.6	17	<0.1	0.1	<0.1	32	0.19	0.020	4
965264	Soil	0.4	5.3	4.9	51	<0.1	8.2	4.2	150	2.02	2.6	2.0	0.8	12	<0.1	0.1	<0.1	43	0.14	0.123	4
965265	Soil	0.4	5.6	4.4	60	<0.1	8.5	4.8	290	1.89	2.8	<0.5	0.8	14	<0.1	0.2	<0.1	43	0.21	0.103	4
965266	Soil	0.3	6.5	4.7	36	<0.1	9.0	5.1	424	1.67	2.2	0.7	0.9	22	<0.1	0.2	<0.1	43	0.28	0.037	6
965267	Soil	0.3	7.4	4.6	58	<0.1	9.2	4.7	436	1.55	1.9	<0.5	0.7	21	<0.1	0.2	0.1	37	0.23	0.036	6
965268	Soil	0.2	5.0	3.8	39	<0.1	6.5	3.3	196	1.28	1.1	0.9	0.7	16	<0.1	0.1	<0.1	31	0.17	0.020	4
965269	Soil	0.3	4.9	4.6	51	<0.1	7.2	3.9	230	1.61	1.7	286.3	0.7	15	<0.1	0.2	<0.1	40	0.17	0.038	4
965270	Soil	0.4	4.5	4.9	43	<0.1	7.6	3.9	145	1.68	1.7	3.0	0.7	12	<0.1	0.2	<0.1	39	0.14	0.047	4

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 Phone (604) 253-3158 Fax (604) 253-1716

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm	
965241	Soil	10	0.10	36	0.048	<1	0.68	0.006	0.03	0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
965242	Soil	6	0.06	91	0.028	<1	0.60	0.005	0.02	<0.1	0.03	0.3	<0.1	<0.05	5	<0.5	<0.2
965243	Soil	13	0.20	81	0.026	<1	1.16	0.007	0.03	0.1	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
965244	Soil	17	0.09	62	0.018	<1	0.65	0.007	0.03	0.3	0.04	0.6	<0.1	<0.05	5	<0.5	<0.2
965245	Soil	13	0.19	87	0.017	<1	1.65	0.006	0.03	0.1	0.07	0.7	<0.1	<0.05	6	<0.5	<0.2
965246	Soil	17	0.08	166	0.018	<1	0.73	0.006	0.04	<0.1	0.04	0.5	<0.1	<0.05	5	<0.5	<0.2
965247	Soil	17	0.23	58	0.041	<1	1.80	0.008	0.03	0.2	0.05	2.1	<0.1	<0.05	4	<0.5	<0.2
965248	Soil	12	0.04	52	0.008	<1	0.54	0.005	0.02	<0.1	0.04	0.2	<0.1	<0.05	4	<0.5	<0.2
965249	Soil	4	0.02	27	0.026	<1	0.56	0.004	0.01	<0.1	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
965250	Soil	14	0.11	53	0.006	<1	1.43	0.006	0.03	<0.1	0.08	0.4	<0.1	<0.05	5	<0.5	<0.2
965251	Soil	19	0.31	81	0.042	<1	1.44	0.007	0.03	0.1	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
965252	Soil	13	0.15	61	0.052	<1	0.59	0.008	0.02	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
965253	Soil	18	0.25	190	0.033	3	0.67	0.012	0.06	0.1	0.12	2.0	<0.1	0.06	2	<0.5	<0.2
965254	Soil	19	0.29	130	0.034	<1	1.37	0.008	0.02	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
965255	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965256	Soil	6	0.42	164	0.004	39	0.32	0.025	0.03	<0.1	0.16	0.5	<0.1	0.25	<1	<0.5	<0.2
965257	Soil	14	0.27	88	0.048	<1	0.92	0.007	0.03	<0.1	0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
965258	Soil	15	0.24	109	0.050	<1	1.26	0.008	0.05	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
965259	Soil	17	0.22	88	0.044	<1	1.43	0.007	0.03	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
965260	Soil	13	0.25	98	0.047	<1	0.90	0.013	0.02	<0.1	<0.01	2.6	<0.1	0.13	3	<0.5	<0.2
965261	Soil	12	0.21	128	0.049	1	0.94	0.011	0.03	<0.1	0.02	2.7	<0.1	0.13	3	<0.5	<0.2
965262	Soil	14	0.19	86	0.050	<1	0.78	0.010	0.03	<0.1	0.01	2.4	<0.1	0.13	3	<0.5	<0.2
965263	Soil	11	0.19	84	0.054	<1	0.81	0.009	0.03	<0.1	0.01	2.0	<0.1	0.12	3	<0.5	<0.2
965264	Soil	13	0.15	84	0.048	1	1.15	0.008	0.03	<0.1	0.02	2.2	<0.1	0.15	4	<0.5	<0.2
965265	Soil	13	0.19	76	0.047	<1	1.05	0.009	0.04	<0.1	0.02	2.4	<0.1	0.13	3	<0.5	<0.2
965266	Soil	14	0.26	84	0.061	<1	0.85	0.017	0.03	<0.1	0.01	2.9	<0.1	0.11	3	<0.5	<0.2
965267	Soil	13	0.27	104	0.051	<1	1.11	0.010	0.03	<0.1	0.02	2.7	<0.1	0.07	4	<0.5	<0.2
965268	Soil	10	0.21	71	0.057	<1	0.83	0.009	0.02	<0.1	0.01	2.2	<0.1	0.12	3	<0.5	<0.2
965269	Soil	11	0.19	74	0.055	<1	0.93	0.009	0.03	<0.1	0.01	2.1	<0.1	0.14	3	<0.5	<0.2
965270	Soil	12	0.16	89	0.050	<1	1.05	0.008	0.03	<0.1	0.01	2.1	<0.1	0.13	4	<0.5	<0.2

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 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 09, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000136.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
965271	Soil	0.5	4.8	5.2	61	<0.1	8.6	4.9	263	2.05	2.5	0.5	0.8	11	<0.1	0.1	0.1	44	0.13	0.115
965272	Soil	0.4	3.6	6.1	26	<0.1	3.6	2.2	135	1.29	0.7	<0.5	6.4	11	<0.1	<0.1	0.1	34	0.13	0.046
965273	Soil	0.3	10.1	4.2	32	<0.1	9.0	4.7	258	1.87	3.5	1.2	1.2	24	<0.1	0.3	<0.1	46	0.23	0.031
965274	Soil	0.3	5.8	4.6	34	<0.1	7.9	3.9	153	1.46	1.6	0.7	0.7	14	<0.1	0.1	<0.1	34	0.15	0.031



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 Phone (604) 253-3158 Fax (604) 253-1716

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 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 09, 2012

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CERTIFICATE OF ANALYSIS

SMI12000136.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
965271	Soil	13	0.16	89	0.043	<1	1.43	0.008	0.02	<0.1	0.02	2.1	<0.1	0.13	5	<0.5	<0.2
965272	Soil	8	0.12	74	0.073	<1	0.60	0.007	0.04	0.1	0.01	1.7	<0.1	0.11	4	<0.5	<0.2
965273	Soil	15	0.25	105	0.061	<1	0.95	0.013	0.02	<0.1	<0.01	3.7	<0.1	0.09	3	<0.5	<0.2
965274	Soil	12	0.24	83	0.050	<1	1.24	0.009	0.02	<0.1	0.01	2.3	<0.1	0.13	4	<0.5	<0.2



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Project: KARMA

Report Date: August 09, 2012

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QUALITY CONTROL REPORT

SMI12000136.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
965153	Soil	0.8	13.2	11.9	54	<0.1	10.0	6.2	342	2.18	4.6	1.3	1.5	30	0.1	0.3	0.1	52	0.37	0.071	11
REP 965153	QC	0.8	13.4	11.9	54	<0.1	10.1	6.2	338	2.12	4.7	0.9	1.4	30	<0.1	0.3	0.1	51	0.38	0.073	10
965155	Soil	1.1	5.8	10.1	40	<0.1	8.0	4.2	183	2.08	6.1	6.5	0.7	11	0.1	0.3	0.3	48	0.11	0.043	8
REP 965155	QC	1.1	5.8	10.4	38	<0.1	8.1	4.1	178	1.99	6.0	0.7	0.6	13	0.2	0.3	0.3	45	0.11	0.044	8
965190	Soil	1.3	23.3	18.9	94	0.5	10.4	3.0	238	1.49	3.5	7.2	0.7	22	0.2	0.2	0.4	29	0.17	0.045	15
REP 965190	QC	1.0	21.5	17.7	89	0.5	8.6	2.8	208	1.35	3.5	2.0	0.6	20	0.2	0.2	0.4	26	0.16	0.043	14
965191	Soil	0.8	5.3	9.8	73	0.1	6.4	3.3	178	1.47	4.2	2.8	1.6	8	0.1	0.3	0.2	29	0.11	0.070	7
REP 965191	QC	0.9	5.3	10.0	71	0.1	6.3	3.3	180	1.48	3.9	1.1	1.5	8	0.1	0.3	0.2	29	0.11	0.071	7
965227	Soil	1.2	5.6	11.7	43	0.3	4.3	2.6	142	2.37	6.7	0.8	1.8	7	0.2	0.3	0.6	59	0.08	0.092	7
REP 965227	QC	1.0	5.4	11.7	43	0.3	4.5	2.6	142	2.49	6.9	1.3	1.8	6	0.1	0.4	0.5	57	0.07	0.094	7
965228	Soil	2.8	6.1	13.1	40	0.2	10.8	2.2	209	1.02	3.2	3.2	0.1	22	0.1	0.2	0.4	26	0.15	0.037	7
REP 965228	QC	2.7	5.9	13.3	40	0.2	9.5	2.1	209	1.01	3.2	5.3	<0.1	21	0.1	0.2	0.4	26	0.15	0.038	7
965270	Soil	0.4	4.5	4.9	43	<0.1	7.6	3.9	145	1.68	1.7	3.0	0.7	12	<0.1	0.2	<0.1	39	0.14	0.047	4
REP 965270	QC	0.4	4.5	4.9	44	<0.1	7.3	3.8	135	1.60	1.6	0.6	0.7	13	<0.1	0.1	<0.1	39	0.14	0.044	4
Reference Materials																					
STD DS9	Standard	13.2	103.7	122.4	294	1.7	41.2	7.6	575	2.34	23.0	113.2	6.2	64	2.3	5.3	6.1	45	0.70	0.079	13
STD DS9	Standard	13.4	109.2	124.2	315	1.9	42.5	8.0	590	2.42	24.0	119.7	6.1	64	2.3	5.4	6.4	43	0.71	0.081	13
STD DS9	Standard	12.8	95.0	114.3	288	1.7	38.0	7.5	544	2.19	22.9	115.1	5.5	70	1.9	4.8	5.0	40	0.68	0.071	13
STD DS9	Standard	13.7	100.2	122.4	304	1.8	41.0	7.4	578	2.40	23.6	116.4	5.3	69	2.1	4.9	5.3	41	0.71	0.075	12
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
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QUALITY CONTROL REPORT

SMI12000136.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
965153	Soil	17	0.31	102	0.051	1	0.75	0.017	0.06	<0.1	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2
REP 965153	QC	17	0.30	105	0.049	1	0.74	0.016	0.06	<0.1	0.04	2.7	<0.1	<0.05	3	<0.5	<0.2
965155	Soil	16	0.17	67	0.029	1	0.81	0.006	0.03	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
REP 965155	QC	15	0.17	75	0.027	<1	0.80	0.007	0.03	<0.1	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
965190	Soil	21	0.25	144	0.017	<1	1.63	0.011	0.04	<0.1	0.06	1.6	<0.1	0.14	5	<0.5	<0.2
REP 965190	QC	17	0.23	136	0.016	1	1.62	0.010	0.04	<0.1	0.06	1.6	<0.1	0.12	5	<0.5	<0.2
965191	Soil	12	0.16	62	0.027	<1	1.13	0.009	0.03	0.1	0.05	1.4	<0.1	0.10	3	<0.5	<0.2
REP 965191	QC	11	0.16	61	0.029	<1	1.16	0.008	0.03	0.1	0.06	1.5	<0.1	0.14	3	<0.5	<0.2
965227	Soil	15	0.15	57	0.050	<1	0.86	0.006	0.03	0.2	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
REP 965227	QC	14	0.14	57	0.047	<1	0.82	0.006	0.03	0.2	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
965228	Soil	20	0.15	75	0.012	<1	0.75	0.006	0.04	<0.1	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
REP 965228	QC	18	0.15	75	0.014	<1	0.76	0.005	0.04	0.1	0.05	0.7	<0.1	<0.05	4	<0.5	<0.2
965270	Soil	12	0.16	89	0.050	<1	1.05	0.008	0.03	<0.1	0.01	2.1	<0.1	0.13	4	<0.5	<0.2
REP 965270	QC	11	0.15	89	0.050	<1	0.99	0.008	0.03	<0.1	0.02	2.0	<0.1	0.10	4	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	130	0.60	288	0.109	3	0.91	0.085	0.34	3.2	0.20	2.5	5.5	0.17	5	5.3	5.3
STD DS9	Standard	134	0.62	296	0.108	3	0.93	0.078	0.36	3.2	0.21	2.4	5.5	0.17	5	5.6	5.1
STD DS9	Standard	124	0.58	298	0.103	3	0.91	0.095	0.34	2.8	0.20	2.3	5.2	0.23	5	5.1	5.2
STD DS9	Standard	127	0.60	292	0.108	2	0.90	0.089	0.41	2.8	0.21	2.3	5.5	0.20	5	5.7	5.1
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.10	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.09	<1	<0.5	<0.2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 24, 2012

Report Date: August 09, 2012

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CERTIFICATE OF ANALYSIS

SMI12000137.1

CLIENT JOB INFORMATION

Project: KARMA
Shipment ID:
P.O. Number: KARMA03
Number of Samples: 126

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	112	Dry at 60C			SMI
SS80	112	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	112	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: KARMA
 Report Date: August 09, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000137.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm		
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001	1
965275	Soil		0.4	4.0	5.5	44	<0.1	5.5	3.6	262	1.65	1.7	<0.5	0.8	10	<0.1	0.2	0.1	38	0.11	0.086	4	
965276	Soil		0.5	6.1	7.2	67	<0.1	8.9	5.1	232	2.11	2.1	<0.5	1.1	20	<0.1	0.2	<0.1	43	0.17	0.154	5	
965277	Soil		0.4	6.1	6.3	59	<0.1	7.6	4.9	615	1.98	3.1	<0.5	0.8	13	<0.1	0.2	<0.1	52	0.17	0.110	4	
965278	Soil		0.2	7.9	5.6	34	<0.1	10.6	4.8	235	1.72	3.8	<0.5	1.1	20	<0.1	0.3	0.1	43	0.22	0.032	5	
965279	Soil		0.7	9.6	7.8	81	<0.1	12.2	6.3	1111	2.04	2.5	<0.5	0.9	39	0.2	0.3	<0.1	46	0.31	0.059	8	
965280	Soil		0.4	6.9	5.7	52	<0.1	9.2	4.8	416	1.78	2.0	<0.5	0.8	23	<0.1	0.2	<0.1	41	0.22	0.029	6	
965281	Soil		0.5	4.1	6.0	55	<0.1	7.7	4.5	355	1.73	1.3	<0.5	0.7	20	<0.1	0.2	<0.1	41	0.19	0.028	4	
965282	Soil		0.4	10.3	6.7	58	<0.1	11.5	4.9	478	1.76	2.1	<0.5	1.0	35	<0.1	0.2	<0.1	37	0.28	0.045	10	
965283	Soil		0.3	7.2	5.5	38	<0.1	8.9	3.8	217	1.55	1.9	<0.5	0.9	23	<0.1	0.2	<0.1	38	0.19	0.023	6	
965284	Soil		0.2	4.8	4.2	50	<0.1	5.8	3.1	218	1.20	0.7	3.5	0.7	19	<0.1	0.1	<0.1	29	0.18	0.020	4	
965285	Soil		0.6	4.9	7.0	58	<0.1	8.1	4.8	471	1.84	2.3	<0.5	0.9	17	<0.1	0.1	<0.1	45	0.18	0.085	4	
965286	Soil		1.0	19.0	5.4	158	0.1	18.8	8.8	674	2.72	2.2	<0.5	1.4	36	<0.1	0.1	<0.1	55	0.30	0.120	5	
965287	Soil		0.5	5.6	6.4	39	<0.1	6.2	3.8	205	1.22	1.4	<0.5	1.3	22	<0.1	0.1	<0.1	35	0.28	0.052	8	
965288	Soil		0.2	10.0	5.7	30	<0.1	8.7	3.9	184	1.64	2.9	<0.5	1.6	27	<0.1	0.2	<0.1	39	0.25	0.029	7	
965289	Soil		0.2	6.5	6.1	34	<0.1	8.0	3.6	187	1.27	2.3	<0.5	1.3	28	<0.1	0.1	<0.1	31	0.26	0.037	6	
965290	Soil		0.7	6.9	7.1	54	<0.1	11.2	5.5	361	2.23	4.8	<0.5	1.1	17	<0.1	0.2	<0.1	51	0.17	0.097	4	
965291	Soil		0.3	4.5	6.1	33	<0.1	5.4	2.8	145	1.14	1.2	<0.5	0.8	20	<0.1	0.2	<0.1	30	0.18	0.025	5	
965292	Soil		0.2	4.9	6.3	36	<0.1	5.7	2.8	167	1.25	1.2	<0.5	0.9	19	<0.1	0.1	<0.1	33	0.19	0.032	4	
964675	Soil		1.0	4.9	12.8	32	0.3	3.1	2.1	115	1.82	8.1	<0.5	1.1	15	<0.1	0.3	0.3	43	0.10	0.075	9	
964676	Soil		1.6	10.3	18.3	65	0.1	6.8	4.7	197	2.60	11.1	<0.5	3.8	10	<0.1	0.3	0.4	49	0.08	0.192	9	
964677	Soil		1.3	6.8	18.6	82	0.2	5.4	3.1	174	1.70	2.9	0.6	1.1	13	0.3	0.3	0.4	40	0.09	0.031	10	
964678	Soil		1.3	4.9	13.8	40	<0.1	3.0	2.2	143	1.32	2.3	<0.5	1.2	10	<0.1	0.2	0.4	31	0.08	0.024	10	
964679	Soil		1.3	3.5	12.9	25	<0.1	3.5	1.4	96	0.94	2.4	<0.5	1.1	13	<0.1	0.3	0.4	31	0.09	0.017	10	
964680	Soil		0.7	3.0	11.3	27	<0.1	3.0	1.8	116	0.76	1.5	0.7	1.5	14	<0.1	0.2	0.3	21	0.12	0.009	9	
964681	Soil		2.6	8.5	18.8	74	<0.1	7.9	4.8	234	3.51	11.5	<0.5	3.5	17	<0.1	0.4	0.5	65	0.16	0.057	11	
964682	Soil		2.3	9.3	17.6	60	0.2	5.7	3.6	138	2.04	4.5	1.2	3.0	19	0.1	0.3	0.2	41	0.10	0.076	11	
964683	Soil		0.6	3.2	14.1	22	0.1	2.8	1.7	119	0.79	2.1	<0.5	1.2	13	<0.1	0.2	0.3	22	0.11	0.015	9	
964684	Soil		0.4	1.5	4.8	7	<0.1	1.1	0.4	56	0.42	0.6	<0.5	0.7	6	<0.1	0.1	0.2	15	0.05	0.008	9	
964685	Soil		1.5	8.2	20.6	60	<0.1	7.4	4.6	203	2.55	10.6	3.6	4.3	10	<0.1	0.5	0.4	52	0.06	0.059	11	
964686	Soil		1.4	10.0	18.3	57	0.1	6.1	3.9	175	2.52	7.7	1.2	3.3	9	<0.1	0.5	0.4	50	0.08	0.097	9	

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 09, 2012

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CERTIFICATE OF ANALYSIS

SMI12000137.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
965275	Soil	10	0.14	72	0.050	<1	0.90	0.008	0.02	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
965276	Soil	13	0.15	119	0.046	<1	1.51	0.010	0.04	0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
965277	Soil	13	0.18	79	0.052	1	0.98	0.007	0.03	<0.1	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
965278	Soil	13	0.32	90	0.071	<1	0.92	0.013	0.03	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
965279	Soil	16	0.29	194	0.055	1	1.13	0.012	0.05	<0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
965280	Soil	12	0.27	100	0.060	<1	0.99	0.014	0.04	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
965281	Soil	12	0.17	103	0.057	1	0.86	0.011	0.05	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
965282	Soil	15	0.30	139	0.045	<1	1.44	0.015	0.05	<0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
965283	Soil	12	0.27	104	0.062	<1	0.94	0.013	0.03	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
965284	Soil	9	0.20	77	0.057	<1	0.88	0.010	0.03	<0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
965285	Soil	14	0.17	80	0.055	<1	1.09	0.009	0.04	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
965286	Soil	30	0.28	205	0.023	<1	3.82	0.010	0.05	<0.1	0.05	4.6	0.1	<0.05	11	<0.5	<0.2
965287	Soil	9	0.21	87	0.074	<1	0.97	0.011	0.03	<0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
965288	Soil	13	0.27	114	0.068	<1	1.06	0.011	0.05	<0.1	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2
965289	Soil	12	0.24	99	0.060	<1	0.88	0.018	0.03	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
965290	Soil	16	0.21	118	0.058	<1	1.75	0.009	0.04	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
965291	Soil	9	0.18	84	0.060	<1	0.92	0.010	0.03	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
965292	Soil	10	0.14	79	0.058	<1	0.89	0.011	0.02	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
964675	Soil	10	0.14	63	0.045	<1	0.90	0.008	0.04	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
964676	Soil	14	0.28	76	0.045	<1	2.83	0.010	0.04	0.1	0.06	2.8	<0.1	<0.05	6	<0.5	<0.2
964677	Soil	11	0.20	57	0.048	<1	0.87	0.008	0.04	0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
964678	Soil	8	0.14	42	0.031	<1	0.90	0.011	0.03	0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
964679	Soil	9	0.11	39	0.049	<1	0.71	0.008	0.03	0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
964680	Soil	6	0.15	62	0.038	<1	0.84	0.013	0.03	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
964681	Soil	17	0.31	105	0.049	<1	2.36	0.009	0.05	<0.1	0.06	2.7	<0.1	<0.05	9	<0.5	<0.2
964682	Soil	11	0.20	112	0.032	<1	2.46	0.007	0.06	<0.1	0.06	2.6	<0.1	<0.05	8	<0.5	<0.2
964683	Soil	6	0.16	45	0.033	<1	0.70	0.010	0.03	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
964684	Soil	4	0.02	22	0.021	<1	0.32	0.007	0.02	<0.1	0.02	0.6	<0.1	<0.05	3	<0.5	<0.2
964685	Soil	16	0.25	97	0.052	<1	2.95	0.010	0.06	<0.1	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2
964686	Soil	15	0.22	55	0.037	<1	2.28	0.009	0.05	0.1	0.04	2.5	<0.1	<0.05	6	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
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CERTIFICATE OF ANALYSIS

SMI12000137.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
964687	Soil	1.8	7.3	20.7	65	0.1	7.4	5.5	243	2.54	8.3	<0.5	3.0	12	0.2	0.4	0.4	50	0.11	0.090	9
964688	Soil	0.5	2.8	13.1	27	<0.1	2.7	2.5	210	0.80	1.0	<0.5	0.7	18	<0.1	0.2	0.2	21	0.16	0.014	9
964689	Soil	0.7	4.8	12.7	48	<0.1	4.8	2.6	174	1.09	2.1	<0.5	2.0	11	<0.1	0.3	0.2	26	0.12	0.022	10
964690	Soil	0.5	4.0	12.2	39	<0.1	4.3	2.8	187	0.91	1.8	1.6	1.8	15	<0.1	0.2	0.2	24	0.13	0.020	9
964691	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964692	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964693	Soil	1.2	9.2	23.6	66	0.2	4.2	3.7	220	1.86	5.5	1.7	2.3	8	0.1	0.4	0.4	35	0.07	0.084	9
964694	Soil	1.2	6.6	27.6	31	0.3	2.5	1.3	82	2.28	5.1	1.6	2.5	5	<0.1	0.4	1.2	44	0.03	0.032	9
964695	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964696	Soil	0.5	3.1	13.5	21	0.2	2.3	1.0	74	0.59	1.1	1.7	0.1	10	<0.1	0.2	0.4	17	0.06	0.017	10
964697	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964698	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964699	Soil	1.0	7.0	15.2	80	0.3	6.3	3.2	259	1.49	3.8	1.7	1.0	11	0.1	0.4	0.4	32	0.09	0.022	10
964700	Soil	0.4	2.0	9.1	14	0.1	1.8	0.7	67	0.51	0.7	6.5	0.9	6	<0.1	0.2	0.3	16	0.05	0.013	11
964701	Soil	0.6	4.6	20.2	47	<0.1	5.4	3.4	263	1.10	3.3	2.3	1.6	11	<0.1	0.4	0.4	28	0.10	0.023	10
964702	Soil	1.0	5.3	18.5	37	1.3	2.5	1.3	89	2.11	4.1	0.6	1.9	5	0.1	0.4	0.4	42	0.04	0.070	10
964703	Soil	0.9	6.9	19.1	112	0.6	7.5	4.8	282	1.92	5.3	<0.5	3.3	9	0.4	0.5	0.4	37	0.08	0.133	10
964704	Soil	0.6	3.6	13.4	27	0.7	1.9	1.0	86	1.21	2.6	0.9	2.0	6	<0.1	0.3	0.4	30	0.05	0.042	10
964705	Soil	0.8	4.0	11.7	30	0.3	2.8	1.8	184	1.28	2.9	<0.5	0.7	7	<0.1	0.4	0.3	36	0.07	0.040	11
964706	Soil	0.5	2.2	7.9	16	0.2	1.6	0.9	123	0.74	1.1	20.3	0.6	7	<0.1	0.3	0.2	23	0.06	0.023	10
964707	Soil	0.5	3.4	13.3	29	0.6	2.7	1.0	74	0.65	1.3	<0.5	0.1	7	<0.1	0.2	0.3	18	0.05	0.019	10
964708	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964709	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964710	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964711	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964712	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964713	Soil	1.0	4.3	18.2	47	0.3	3.6	2.0	134	1.51	2.9	0.7	1.7	6	<0.1	0.5	0.4	42	0.05	0.029	10
964714	Soil	0.9	4.2	16.4	45	0.3	3.8	2.2	124	1.49	2.9	<0.5	1.1	6	0.1	0.5	0.4	41	0.05	0.031	10
964715	Soil	0.7	2.0	7.5	12	0.1	2.6	0.5	41	0.28	<0.5	<0.5	<0.1	6	0.1	<0.1	0.2	11	0.03	0.039	10
964719	Soil	0.4	6.0	5.6	84	<0.1	10.9	5.9	594	2.04	1.8	10.7	1.1	12	<0.1	0.2	<0.1	48	0.17	0.089	4

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

Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Quartz Mountain Resources Ltd.**
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964687	Soil	14	0.22	91	0.038	<1	2.05	0.008	0.06	0.1	0.04	2.3	<0.1	<0.05	6	<0.5	<0.2
964688	Soil	6	0.13	56	0.028	<1	0.59	0.008	0.04	<0.1	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
964689	Soil	9	0.22	62	0.035	<1	1.05	0.008	0.03	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
964690	Soil	8	0.20	59	0.043	<1	0.73	0.011	0.04	<0.1	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
964691	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964692	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964693	Soil	12	0.15	54	0.026	<1	1.78	0.011	0.05	0.1	0.14	2.1	0.1	<0.05	5	<0.5	<0.2
964694	Soil	12	0.09	34	0.021	<1	1.79	0.006	0.03	<0.1	0.17	1.7	<0.1	<0.05	8	<0.5	<0.2
964695	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964696	Soil	6	0.07	55	0.017	<1	0.59	0.007	0.03	<0.1	0.03	0.9	<0.1	<0.05	4	<0.5	<0.2
964697	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964698	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964699	Soil	12	0.28	75	0.023	1	1.20	0.008	0.05	<0.1	0.03	1.7	<0.1	<0.05	4	<0.5	<0.2
964700	Soil	5	0.03	35	0.022	<1	0.48	0.008	0.02	<0.1	0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
964701	Soil	10	0.22	65	0.036	<1	0.85	0.008	0.05	<0.1	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
964702	Soil	10	0.07	37	0.029	<1	1.08	0.007	0.03	0.1	0.04	1.4	<0.1	<0.05	7	<0.5	<0.2
964703	Soil	15	0.19	62	0.032	<1	2.18	0.010	0.06	0.1	0.06	2.9	<0.1	<0.05	4	<0.5	<0.2
964704	Soil	7	0.06	30	0.026	<1	0.84	0.008	0.03	0.1	0.03	1.1	0.1	<0.05	5	<0.5	<0.2
964705	Soil	9	0.06	42	0.023	<1	0.58	0.006	0.04	<0.1	0.03	0.9	0.1	<0.05	5	<0.5	<0.2
964706	Soil	6	0.03	38	0.021	<1	0.42	0.006	0.03	<0.1	0.04	0.8	<0.1	<0.05	4	<0.5	<0.2
964707	Soil	6	0.06	44	0.011	<1	0.67	0.006	0.03	<0.1	0.04	0.4	<0.1	<0.05	5	<0.5	<0.2
964708	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964709	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964710	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964711	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964712	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964713	Soil	11	0.10	42	0.024	<1	0.74	0.006	0.03	<0.1	0.03	1.2	<0.1	<0.05	5	<0.5	<0.2
964714	Soil	13	0.11	42	0.028	<1	0.78	0.013	0.04	<0.1	0.02	1.3	0.2	<0.05	6	<0.5	<0.2
964715	Soil	6	0.04	41	0.003	<1	0.63	0.008	0.03	<0.1	0.02	0.2	0.1	<0.05	4	<0.5	<0.2
964719	Soil	14	0.24	91	0.052	1	1.19	0.006	0.04	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
964720	Soil	0.4	7.6	6.6	116	<0.1	12.2	6.7	1580	2.21	2.7	<0.5	0.8	13	0.1	0.2	<0.1	57	0.16	0.112	5
964721	Soil	0.3	7.0	5.8	67	<0.1	10.7	5.4	669	2.02	2.7	<0.5	1.1	17	<0.1	0.3	<0.1	52	0.19	0.088	5
964722	Soil	0.5	4.6	6.2	84	<0.1	9.4	5.9	847	2.38	2.0	<0.5	1.1	10	<0.1	0.2	<0.1	64	0.14	0.092	4
964723	Soil	0.4	7.8	6.2	57	<0.1	9.7	5.5	336	2.20	3.3	1.3	1.2	15	<0.1	0.3	<0.1	60	0.15	0.083	5
964724	Soil	0.5	6.2	5.6	75	<0.1	7.7	5.2	533	2.05	2.3	<0.5	1.0	12	0.1	0.3	<0.1	52	0.16	0.108	4
964725	Soil	1.3	5.1	5.9	55	<0.1	7.6	6.0	671	2.24	2.6	<0.5	0.7	17	<0.1	0.2	<0.1	63	0.19	0.021	4
964726	Soil	0.6	6.1	6.7	60	<0.1	11.9	6.4	233	2.71	3.8	<0.5	0.9	15	<0.1	0.3	<0.1	65	0.16	0.097	4
964727	Soil	0.3	6.7	5.0	38	<0.1	7.8	3.9	219	1.63	2.2	<0.5	0.9	20	<0.1	0.2	<0.1	45	0.20	0.035	5
964728	Soil	0.6	5.0	5.1	34	<0.1	6.5	3.5	166	1.62	1.4	<0.5	0.8	25	<0.1	0.2	<0.1	47	0.23	0.022	4
964729	Soil	0.2	4.8	3.9	30	<0.1	6.6	3.1	188	1.21	1.1	<0.5	0.7	18	<0.1	0.1	<0.1	32	0.20	0.014	4
964730	Soil	0.3	3.9	4.4	27	<0.1	5.3	3.2	192	1.13	1.0	<0.5	0.7	21	<0.1	0.1	<0.1	31	0.21	0.017	4
964731	Soil	0.2	4.2	5.2	34	<0.1	5.9	3.1	164	1.22	1.1	<0.5	0.7	19	<0.1	<0.1	<0.1	33	0.20	0.032	4
964732	Soil	0.3	4.3	4.3	35	<0.1	7.0	3.3	140	1.14	1.3	<0.5	0.7	16	<0.1	0.1	<0.1	30	0.17	0.029	4
964733	Soil	0.3	7.6	5.0	33	<0.1	8.6	4.8	223	1.72	3.0	<0.5	1.2	22	<0.1	0.2	<0.1	45	0.19	0.034	6
964734	Soil	0.4	8.4	5.3	53	<0.1	9.8	5.5	253	2.11	3.4	<0.5	1.1	14	<0.1	0.2	<0.1	57	0.15	0.070	4
964735	Soil	0.5	9.6	5.6	48	<0.1	12.7	5.8	190	1.86	4.0	<0.5	1.3	18	<0.1	0.2	<0.1	45	0.15	0.096	4
964736	Soil	0.5	4.6	5.9	41	<0.1	5.7	3.4	242	1.49	1.4	<0.5	0.8	16	<0.1	0.1	<0.1	36	0.15	0.074	4
964737	Soil	0.1	6.6	5.7	31	<0.1	9.4	4.3	154	1.27	1.9	<0.5	0.6	19	<0.1	0.2	<0.1	32	0.16	0.041	4
964738	Soil	0.5	9.0	5.8	43	<0.1	10.7	5.5	196	2.04	3.8	<0.5	1.3	18	<0.1	0.3	<0.1	48	0.15	0.067	7
964739	Soil	0.5	7.6	7.0	65	<0.1	11.0	6.3	225	2.24	3.4	<0.5	1.4	14	<0.1	0.2	<0.1	48	0.13	0.144	5
964740	Soil	0.4	9.4	5.9	50	<0.1	12.9	6.2	206	2.14	4.6	<0.5	1.4	22	<0.1	0.3	0.1	51	0.18	0.054	5
964741	Soil	0.3	4.6	4.8	46	<0.1	6.7	3.3	166	1.16	1.6	0.8	0.4	21	<0.1	0.1	<0.1	31	0.18	0.027	4
964742	Soil	0.3	8.5	6.0	51	<0.1	9.7	5.3	394	1.51	1.9	0.7	1.1	25	<0.1	0.1	0.1	37	0.22	0.038	7
964743	Soil	0.2	5.4	5.8	33	<0.1	6.8	3.3	135	1.31	1.8	1.5	0.6	23	<0.1	0.1	0.1	33	0.22	0.039	5
964744	Soil	0.5	6.6	6.3	66	<0.1	10.4	5.0	248	2.13	3.2	0.7	0.8	22	<0.1	0.1	0.1	46	0.20	0.098	5
964745	Soil	0.4	5.8	5.0	52	0.1	6.6	4.0	467	1.38	1.9	0.6	0.7	19	<0.1	0.1	<0.1	33	0.19	0.036	5
964746	Soil	0.4	5.8	4.8	58	<0.1	9.0	4.5	445	1.45	1.4	2.1	0.7	23	<0.1	0.2	<0.1	35	0.24	0.026	6
964747	Soil	0.2	4.8	5.6	33	<0.1	7.7	3.8	211	1.25	1.5	0.7	1.0	17	<0.1	0.1	<0.1	30	0.19	0.022	4
964748	Soil	0.4	5.8	6.1	44	<0.1	8.5	4.5	240	1.60	2.7	1.2	0.6	21	<0.1	0.2	<0.1	41	0.19	0.032	6
964749	Soil	0.3	5.7	4.9	65	0.1	9.1	4.3	352	1.52	1.5	<0.5	0.8	22	<0.1	0.1	0.1	36	0.22	0.023	5

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964720	Soil	17	0.24	132	0.058	<1	1.31	0.008	0.04	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
964721	Soil	15	0.22	103	0.057	<1	1.18	0.008	0.03	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
964722	Soil	16	0.20	93	0.061	1	1.14	0.009	0.03	0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
964723	Soil	17	0.21	97	0.060	1	1.15	0.011	0.03	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
964724	Soil	15	0.20	78	0.059	<1	0.93	0.008	0.03	<0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
964725	Soil	15	0.23	92	0.068	1	0.83	0.009	0.05	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
964726	Soil	17	0.23	103	0.061	<1	1.32	0.009	0.05	0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
964727	Soil	13	0.21	84	0.069	<1	0.88	0.013	0.03	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
964728	Soil	12	0.16	82	0.062	<1	0.86	0.010	0.03	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
964729	Soil	10	0.21	76	0.071	<1	0.81	0.010	0.02	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
964730	Soil	9	0.16	71	0.058	<1	0.82	0.011	0.02	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
964731	Soil	10	0.14	59	0.064	<1	0.77	0.009	0.03	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
964732	Soil	10	0.18	74	0.055	<1	0.86	0.009	0.02	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
964733	Soil	13	0.23	96	0.068	<1	0.96	0.010	0.03	<0.1	0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
964734	Soil	16	0.23	93	0.063	<1	1.19	0.008	0.03	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
964735	Soil	15	0.22	131	0.057	1	1.60	0.010	0.03	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
964736	Soil	11	0.11	76	0.044	1	0.99	0.010	0.03	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
964737	Soil	11	0.23	114	0.051	<1	1.21	0.009	0.02	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
964738	Soil	16	0.24	126	0.056	<1	1.43	0.008	0.03	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
964739	Soil	15	0.24	98	0.058	1	1.86	0.008	0.03	0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
964740	Soil	16	0.25	145	0.058	<1	1.51	0.011	0.04	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
964741	Soil	10	0.24	82	0.056	<1	0.98	0.009	0.03	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
964742	Soil	15	0.27	125	0.041	<1	1.20	0.010	0.03	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
964743	Soil	12	0.23	117	0.041	<1	1.01	0.011	0.02	<0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
964744	Soil	16	0.19	133	0.035	<1	1.36	0.009	0.04	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
964745	Soil	11	0.18	105	0.038	<1	0.86	0.009	0.02	<0.1	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
964746	Soil	13	0.24	110	0.043	<1	0.93	0.009	0.05	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
964747	Soil	11	0.25	73	0.060	<1	0.71	0.009	0.04	<0.1	<0.01	2.2	<0.1	<0.05	2	<0.5	<0.2
964748	Soil	12	0.24	94	0.050	<1	0.96	0.010	0.03	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
964749	Soil	13	0.23	100	0.048	<1	1.03	0.011	0.04	<0.1	0.01	2.4	0.1	<0.05	3	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
964750	Soil		0.4	6.1	6.3	49	<0.1	9.2	4.9	365	1.51	2.3	<0.5	1.0	20	<0.1	0.1	<0.1	36	0.20	0.045	5
964751	Soil		0.3	6.2	5.7	37	<0.1	7.4	3.7	197	1.38	1.9	0.5	0.9	20	<0.1	0.1	<0.1	33	0.20	0.035	5
964752	Soil		0.3	9.4	6.2	35	<0.1	8.9	4.6	231	1.82	4.6	3.2	1.6	23	<0.1	0.3	<0.1	44	0.24	0.041	7
964753	Soil		0.4	3.6	5.8	46	<0.1	6.0	3.3	163	1.37	1.3	0.8	0.8	13	<0.1	0.1	<0.1	39	0.14	0.031	5
964754	Soil		0.6	5.2	7.9	57	<0.1	7.3	3.1	167	1.25	1.9	1.8	0.9	16	<0.1	0.1	<0.1	30	0.15	0.053	5
964755	Soil		0.8	7.7	8.6	139	0.2	14.6	5.1	171	2.22	4.4	0.6	0.6	26	0.1	0.2	0.1	42	0.20	0.186	6
964756	Soil		0.6	7.7	9.1	83	0.1	10.8	4.7	247	1.77	3.6	0.6	0.9	28	0.1	0.2	0.1	39	0.20	0.105	6
964757	Soil		0.4	7.1	8.2	116	<0.1	11.1	5.9	179	2.01	2.4	<0.5	1.5	26	0.1	0.2	<0.1	41	0.23	0.205	6
964758	Soil		0.8	9.9	8.7	85	0.1	10.9	5.3	717	1.87	2.3	<0.5	0.9	29	<0.1	0.2	<0.1	40	0.24	0.043	7
964759	Soil		0.5	6.7	6.9	72	<0.1	8.0	3.8	207	1.68	2.1	<0.5	1.1	23	<0.1	0.1	<0.1	40	0.20	0.037	6
964760	Soil		0.5	4.6	8.6	45	<0.1	6.1	2.7	86	1.18	1.0	1.0	0.5	24	<0.1	<0.1	<0.1	27	0.25	0.028	4
964650	Soil		0.5	3.9	6.6	23	<0.1	3.6	2.0	114	0.92	1.4	3.1	1.2	19	<0.1	0.2	0.2	24	0.15	0.011	9
964651	Soil		0.8	9.0	8.8	46	0.1	6.6	3.9	218	1.72	3.5	<0.5	0.7	24	0.2	0.2	0.2	42	0.18	0.028	10
964652	Soil		0.8	7.7	7.8	42	0.2	7.5	3.5	178	1.54	3.7	<0.5	1.0	28	<0.1	0.2	0.2	33	0.23	0.035	12
964653	Soil		1.1	13.9	10.0	60	0.3	7.5	3.7	227	1.75	4.0	23.1	0.8	27	0.2	0.2	0.2	38	0.20	0.028	11
964654	Soil		0.5	8.8	8.5	44	0.1	6.5	3.5	210	1.34	2.5	<0.5	1.1	19	<0.1	0.2	0.1	31	0.16	0.023	10
964655	Soil		1.0	9.7	9.2	53	0.2	6.4	4.8	394	1.61	2.9	<0.5	0.8	27	0.2	0.2	0.2	37	0.22	0.033	10
964656	Soil		0.8	9.6	9.4	41	0.2	6.3	5.0	380	1.36	2.3	<0.5	1.1	25	<0.1	0.2	0.2	30	0.22	0.029	11
964657	Soil		0.9	9.0	8.3	43	0.2	6.1	4.2	322	1.48	3.6	<0.5	0.7	29	0.2	0.2	0.2	34	0.20	0.024	10
964658	Soil		0.7	5.4	7.4	37	<0.1	5.2	3.1	193	1.27	2.4	0.7	1.4	13	<0.1	0.2	0.1	28	0.13	0.018	8
964659	Soil		0.7	6.6	7.3	34	<0.1	5.2	3.3	196	1.27	2.0	0.7	1.2	20	<0.1	0.2	0.2	31	0.16	0.017	9
964660	Soil		1.0	5.4	8.3	31	0.1	5.6	3.0	130	1.55	4.6	0.9	1.4	16	<0.1	0.2	0.2	39	0.13	0.026	7
964661	Soil		1.0	9.3	10.2	31	0.3	4.0	3.3	122	1.07	2.1	<0.5	0.9	25	<0.1	0.2	0.2	25	0.16	0.032	12
964662	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964663	Soil		2.2	16.6	14.3	63	0.7	7.9	5.2	404	1.86	4.4	0.5	0.3	35	0.3	0.3	0.3	41	0.28	0.034	15
964664	Soil		1.8	14.5	13.5	71	0.4	7.8	5.5	432	1.92	4.8	4.8	0.8	23	0.3	0.2	0.3	43	0.16	0.026	12
964665	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964666	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964667	Soil		1.3	12.5	10.8	72	0.2	5.9	4.7	1341	1.38	2.8	3.5	0.5	23	0.4	0.2	1.0	29	0.18	0.023	10
964668	Soil		1.4	9.3	14.6	77	0.3	6.5	5.4	342	2.19	7.7	5.9	1.6	18	0.2	0.3	0.5	43	0.19	0.076	8

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

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964750	Soil	15	0.25	103	0.047	<1	1.05	0.015	0.03	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
964751	Soil	11	0.23	90	0.047	<1	0.93	0.010	0.03	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
964752	Soil	15	0.29	117	0.058	<1	0.98	0.013	0.04	<0.1	0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
964753	Soil	12	0.15	81	0.051	<1	0.82	0.009	0.03	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
964754	Soil	12	0.16	100	0.046	<1	1.19	0.009	0.03	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
964755	Soil	20	0.19	228	0.036	<1	2.45	0.010	0.04	<0.1	0.03	2.5	<0.1	<0.05	8	<0.5	<0.2
964756	Soil	15	0.20	177	0.041	<1	1.68	0.010	0.04	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
964757	Soil	15	0.21	200	0.045	<1	1.89	0.008	0.06	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
964758	Soil	17	0.25	179	0.047	<1	1.38	0.012	0.06	<0.1	0.02	2.8	0.1	<0.05	4	<0.5	<0.2
964759	Soil	14	0.19	141	0.057	<1	0.99	0.011	0.03	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
964760	Soil	13	0.17	106	0.044	<1	0.98	0.011	0.03	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
964650	Soil	8	0.15	73	0.035	<1	0.65	0.009	0.02	<0.1	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
964651	Soil	13	0.19	133	0.040	<1	0.86	0.010	0.04	<0.1	0.03	1.6	<0.1	<0.05	4	<0.5	<0.2
964652	Soil	11	0.24	139	0.029	<1	1.06	0.010	0.04	<0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
964653	Soil	13	0.26	147	0.021	<1	1.41	0.013	0.05	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
964654	Soil	11	0.27	103	0.030	<1	1.06	0.010	0.04	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
964655	Soil	12	0.24	111	0.024	<1	1.05	0.009	0.04	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
964656	Soil	11	0.25	113	0.031	<1	1.02	0.010	0.04	<0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
964657	Soil	11	0.19	137	0.031	<1	0.92	0.009	0.04	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
964658	Soil	10	0.23	77	0.029	<1	0.90	0.010	0.03	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
964659	Soil	10	0.24	105	0.032	<1	1.00	0.010	0.04	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
964660	Soil	11	0.19	91	0.034	<1	1.07	0.009	0.04	<0.1	0.04	1.8	<0.1	<0.05	5	<0.5	<0.2
964661	Soil	8	0.12	131	0.019	<1	1.06	0.009	0.04	<0.1	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
964662	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964663	Soil	14	0.22	174	0.017	<1	1.22	0.010	0.05	<0.1	0.06	1.5	<0.1	<0.05	5	<0.5	<0.2
964664	Soil	15	0.24	153	0.030	<1	1.12	0.009	0.04	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
964665	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964666	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964667	Soil	11	0.21	120	0.027	<1	0.72	0.009	0.03	<0.1	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
964668	Soil	14	0.27	118	0.032	<1	1.20	0.009	0.05	0.1	0.04	2.0	<0.1	<0.05	5	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
964669	Soil	1.8	10.3	13.6	53	0.1	5.1	3.0	266	1.99	6.5	<0.5	0.3	19	0.3	0.3	40	0.14	0.065	8	
964670	Soil	2.4	9.5	9.9	53	0.2	5.7	4.7	447	1.94	4.8	<0.5	0.5	21	0.1	0.3	34	0.17	0.032	10	
964671	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
964672	Soil	2.8	16.5	14.2	77	0.3	7.6	6.2	468	2.29	8.7	<0.5	0.4	47	0.2	0.3	43	0.41	0.060	17	
964673	Soil	2.2	10.6	9.7	45	0.1	4.8	3.0	140	2.16	4.7	2.2	0.8	15	0.3	0.3	44	0.14	0.073	9	
964674	Soil	0.6	3.8	9.7	51	<0.1	4.0	2.6	137	1.65	3.1	1.3	2.1	10	0.1	0.2	34	0.10	0.135	9	



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

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 15th Floor - 1040 West Georgia Street
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964669	Soil	13	0.14	116	0.025	1	0.72	0.012	0.04	0.1	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
964670	Soil	11	0.23	97	0.022	<1	0.85	0.007	0.07	<0.1	0.02	1.3	<0.1	0.13	4	<0.5	<0.2
964671	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964672	Soil	15	0.24	177	0.020	<1	1.41	0.009	0.06	0.1	0.03	1.7	<0.1	0.14	6	<0.5	<0.2
964673	Soil	14	0.14	71	0.045	<1	0.72	0.007	0.04	0.1	0.03	1.5	<0.1	0.14	5	<0.5	<0.2
964674	Soil	11	0.14	68	0.035	<1	0.89	0.007	0.04	0.1	0.02	1.5	<0.1	0.09	5	<0.5	<0.2



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

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Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
965282	Soil	0.4	10.3	6.7	58	<0.1	11.5	4.9	478	1.76	2.1	<0.5	1.0	35	<0.1	0.2	<0.1	37	0.28	0.045	10
REP 965282	QC	0.4	9.7	6.9	57	<0.1	11.2	4.8	476	1.70	2.2	1.4	1.0	33	<0.1	0.2	<0.1	38	0.28	0.042	10
964682	Soil	2.3	9.3	17.6	60	0.2	5.7	3.6	138	2.04	4.5	1.2	3.0	19	0.1	0.3	0.2	41	0.10	0.076	11
REP 964682	QC	2.0	9.6	17.8	62	0.2	5.5	3.5	138	2.03	4.3	<0.5	2.9	19	0.2	0.4	0.2	44	0.10	0.071	10
964705	Soil	0.8	4.0	11.7	30	0.3	2.8	1.8	184	1.28	2.9	<0.5	0.7	7	<0.1	0.4	0.3	36	0.07	0.040	11
REP 964705	QC	0.9	4.1	12.2	30	0.3	3.1	1.7	178	1.31	2.7	<0.5	0.8	7	<0.1	0.4	0.3	34	0.07	0.039	11
964731	Soil	0.2	4.2	5.2	34	<0.1	5.9	3.1	164	1.22	1.1	<0.5	0.7	19	<0.1	<0.1	<0.1	33	0.20	0.032	4
REP 964731	QC	0.2	3.9	5.4	34	<0.1	5.5	3.0	152	1.24	1.0	7.9	0.8	19	<0.1	0.1	<0.1	34	0.21	0.033	4
964749	Soil	0.3	5.7	4.9	65	0.1	9.1	4.3	352	1.52	1.5	<0.5	0.8	22	<0.1	0.1	0.1	36	0.22	0.023	5
REP 964749	QC	0.3	5.3	4.6	64	0.1	8.6	4.4	347	1.46	1.4	0.9	0.8	23	<0.1	0.1	<0.1	36	0.22	0.023	5
964656	Soil	0.8	9.6	9.4	41	0.2	6.3	5.0	380	1.36	2.3	<0.5	1.1	25	<0.1	0.2	0.2	30	0.22	0.029	11
REP 964656	QC	0.8	9.4	9.4	40	0.2	6.1	5.0	376	1.36	2.2	1.7	1.1	25	0.1	0.2	0.2	31	0.21	0.030	11
Reference Materials																					
STD DS9	Standard	12.4	112.6	128.5	318	1.7	39.2	7.5	591	2.35	25.9	136.6	6.5	74	2.1	5.8	6.7	39	0.73	0.080	13
STD DS9	Standard	13.4	114.1	122.2	309	1.9	43.1	8.1	602	2.31	26.3	111.3	7.0	74	2.6	6.3	6.5	44	0.74	0.082	14
STD DS9	Standard	12.8	95.0	114.3	288	1.7	38.0	7.5	544	2.19	22.9	115.1	5.5	70	1.9	4.8	5.0	40	0.68	0.071	13
STD DS9	Standard	12.5	99.1	115.2	299	1.9	41.7	8.0	585	2.41	25.5	114.5	5.6	62	2.3	5.1	5.5	43	0.68	0.080	12
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: Quartz Mountain Resources Ltd.
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
Report Date: August 09, 2012

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Part: 2 of 2

QUALITY CONTROL REPORT

SMI12000137.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
965282	Soil	15	0.30	139	0.045	<1	1.44	0.015	0.05	<0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
REP 965282	QC	15	0.31	142	0.047	<1	1.52	0.013	0.05	<0.1	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
964682	Soil	11	0.20	112	0.032	<1	2.46	0.007	0.06	<0.1	0.06	2.6	<0.1	<0.05	8	<0.5	<0.2
REP 964682	QC	12	0.19	116	0.028	<1	2.21	0.007	0.06	<0.1	0.08	2.8	<0.1	<0.05	8	<0.5	<0.2
964705	Soil	9	0.06	42	0.023	<1	0.58	0.006	0.04	<0.1	0.03	0.9	0.1	<0.05	5	<0.5	<0.2
REP 964705	QC	9	0.07	40	0.023	<1	0.64	0.009	0.04	<0.1	0.03	0.9	0.1	<0.05	5	<0.5	<0.2
964731	Soil	10	0.14	59	0.064	<1	0.77	0.009	0.03	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
REP 964731	QC	10	0.15	56	0.065	<1	0.75	0.009	0.02	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
964749	Soil	13	0.23	100	0.048	<1	1.03	0.011	0.04	<0.1	0.01	2.4	0.1	<0.05	3	<0.5	<0.2
REP 964749	QC	13	0.22	103	0.044	<1	0.99	0.010	0.04	<0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
964656	Soil	11	0.25	113	0.031	<1	1.02	0.010	0.04	<0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
REP 964656	QC	10	0.25	113	0.029	<1	1.00	0.011	0.04	<0.1	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	117	0.62	304	0.111	2	0.92	0.093	0.37	3.3	0.20	2.5	5.5	0.15	5	5.4	5.6
STD DS9	Standard	119	0.63	305	0.122	3	0.97	0.090	0.38	2.8	0.20	2.7	5.4	0.22	5	4.8	5.1
STD DS9	Standard	124	0.58	298	0.103	3	0.91	0.095	0.34	2.8	0.20	2.3	5.2	0.23	5	5.1	5.2
STD DS9	Standard	121	0.62	295	0.108	3	0.89	0.086	0.35	3.2	0.19	2.6	5.6	0.12	5	5.2	5.2
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.10	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 24, 2012

Report Date: August 07, 2012

Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000138.1

CLIENT JOB INFORMATION

Project: KARMA
Shipment ID: KARM_SSN12-03
P.O. Number: KARMA03
Number of Samples: 20

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	20	Dry at 60C			SMI
SS80	20	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	20	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC:



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 07, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000138.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
965398	Soil	0.9	22.7	5.7	60	0.1	14.0	6.7	151	2.37	3.3	0.8	2.5	18	<0.1	0.2	0.2	50	0.15	0.113	11
965392	Soil	0.7	10.8	5.4	47	<0.1	8.4	6.0	269	2.41	4.3	1.9	1.2	22	0.1	0.4	<0.1	55	0.20	0.044	6
965360	Soil	1.1	4.0	33.4	40	0.7	4.4	1.0	104	0.61	2.0	<0.5	<0.1	4	<0.1	0.3	0.4	17	0.04	0.056	14
965361	Soil	1.8	10.3	21.6	181	0.6	6.7	3.6	188	3.46	16.3	1.7	3.1	5	0.2	0.6	0.7	49	0.05	0.088	9
965371	Soil	1.4	3.9	15.5	73	0.5	3.8	2.9	235	1.54	2.2	5.6	2.1	14	0.1	0.2	0.2	34	0.11	0.046	8
965374	Soil	0.9	9.0	29.2	155	0.6	7.6	4.0	192	1.95	4.1	2.4	2.4	16	0.5	0.4	0.2	45	0.19	0.039	9
965378	Soil	0.8	18.5	14.7	72	<0.1	13.5	7.5	519	2.87	6.0	7.3	2.2	11	<0.1	0.4	0.3	63	0.13	0.056	12
965380	Soil	0.9	6.5	8.9	50	<0.1	6.2	3.3	116	2.25	5.6	1.2	1.2	8	<0.1	0.3	0.2	51	0.07	0.056	5
965382	Soil	0.8	19.1	13.3	68	<0.1	10.5	6.8	737	2.45	9.2	6.6	1.4	16	<0.1	0.4	0.2	47	0.28	0.056	16
965394	Soil	1.1	28.6	11.3	63	0.2	10.9	12.1	648	4.99	9.3	1.3	1.8	36	0.2	0.9	<0.1	78	0.46	0.098	10
965384	Soil	2.3	12.0	42.7	120	0.1	8.6	4.9	188	2.26	11.8	2.4	3.9	5	0.1	0.6	0.2	41	0.05	0.122	10
965385	Soil	5.9	6.6	66.9	60	0.2	3.6	1.6	186	2.79	39.6	17.4	4.0	6	<0.1	0.7	0.5	35	0.05	0.181	11
965400	Soil	0.9	7.9	13.8	64	<0.1	7.8	4.7	630	1.90	3.9	0.9	2.6	10	0.1	0.3	0.3	41	0.11	0.094	9
965401	Soil	0.7	6.2	12.3	78	<0.1	7.7	5.7	348	1.82	2.6	0.6	2.4	14	<0.1	0.2	0.2	37	0.15	0.115	8
965403	Soil	0.7	13.4	10.1	53	<0.1	10.5	5.8	189	2.09	5.0	<0.5	3.2	11	<0.1	0.3	0.2	42	0.10	0.083	9
965404	Soil	0.8	28.1	6.5	106	<0.1	27.3	11.3	226	3.44	2.4	<0.5	3.4	20	<0.1	0.1	0.1	49	0.15	0.162	9
965453	Soil	1.2	9.2	13.7	72	0.3	8.2	5.1	217	2.57	10.1	1.3	2.0	8	0.1	0.4	0.6	47	0.11	0.097	8
965455	Soil	0.9	9.9	6.5	57	0.2	6.3	4.8	562	1.23	1.0	1.2	0.3	10	<0.1	0.2	0.1	26	0.08	0.091	8
965457	Soil	1.7	13.4	4.3	123	0.1	11.0	4.7	247	2.05	0.7	<0.5	0.6	36	0.1	0.2	<0.1	44	0.43	0.081	5
965363	Soil	1.4	8.2	35.8	120	0.4	5.2	3.1	167	2.78	31.3	3.9	2.3	5	0.1	0.6	0.6	44	0.08	0.067	8



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 07, 2012

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI12000138.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
965398	Soil	27	0.36	119	0.037	2	2.36	0.008	0.06	0.1	0.07	4.0	<0.1	<0.05	10	<0.5	<0.2
965392	Soil	14	0.27	148	0.020	2	1.35	0.009	0.06	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
965360	Soil	9	0.06	46	0.002	2	0.89	0.004	0.03	<0.1	0.03	0.2	0.2	<0.05	5	<0.5	<0.2
965361	Soil	16	0.23	74	0.015	2	2.72	0.006	0.04	0.1	0.09	2.0	0.1	<0.05	7	<0.5	<0.2
965371	Soil	9	0.13	125	0.021	1	0.79	0.006	0.03	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5	0.4
965374	Soil	14	0.24	158	0.033	<1	1.31	0.009	0.04	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
965378	Soil	23	0.43	95	0.029	2	2.27	0.007	0.08	0.1	0.04	3.4	0.1	<0.05	7	<0.5	<0.2
965380	Soil	15	0.20	72	0.019	1	1.77	0.007	0.04	<0.1	0.05	2.5	<0.1	<0.05	7	<0.5	<0.2
965382	Soil	20	0.41	199	0.018	2	1.64	0.007	0.08	<0.1	0.10	3.0	<0.1	<0.05	5	<0.5	<0.2
965394	Soil	13	0.33	260	0.012	2	1.26	0.011	0.11	<0.1	0.12	10.1	<0.1	<0.05	3	<0.5	<0.2
965384	Soil	15	0.26	106	0.029	2	2.33	0.007	0.04	0.1	0.09	2.9	0.1	<0.05	5	<0.5	<0.2
965385	Soil	8	0.10	105	0.014	<1	1.40	0.005	0.06	0.1	0.09	1.4	0.2	<0.05	7	<0.5	0.5
965400	Soil	12	0.24	76	0.031	<1	1.73	0.007	0.04	<0.1	0.04	2.0	<0.1	<0.05	5	<0.5	<0.2
965401	Soil	12	0.19	88	0.027	1	1.53	0.006	0.04	<0.1	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
965403	Soil	16	0.27	107	0.036	<1	2.47	0.008	0.06	<0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
965404	Soil	27	0.33	159	0.038	<1	3.22	0.007	0.08	<0.1	0.05	6.6	<0.1	<0.05	8	<0.5	<0.2
965453	Soil	14	0.24	72	0.032	<1	1.60	0.008	0.04	<0.1	0.04	2.2	<0.1	<0.05	6	<0.5	<0.2
965455	Soil	12	0.08	79	0.025	<1	0.75	0.007	0.04	0.1	0.05	1.3	<0.1	<0.05	4	<0.5	<0.2
965457	Soil	28	0.20	202	0.029	1	1.00	0.007	0.08	<0.1	0.07	2.3	<0.1	<0.05	6	<0.5	<0.2
965363	Soil	13	0.19	57	0.026	<1	1.56	0.005	0.03	0.1	0.04	2.0	<0.1	<0.05	5	<0.5	<0.2



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 07, 2012

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QUALITY CONTROL REPORT

SMI12000138.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Reference Materials																					
STD DS9	Standard	11.4	96.4	115.1	282	1.7	36.2	6.7	530	2.17	23.3	113.5	6.3	62	2.2	5.5	5.7	36	0.64	0.077	12
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**

15th Floor - 1040 West Georgia Street

Vancouver BC V6E 4H1 Canada

Project: KARMA

Report Date: August 07, 2012

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QUALITY CONTROL REPORT

SMI12000138.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Reference Materials																	
STD DS9	Standard	109	0.56	272	0.103	2	0.85	0.079	0.34	2.9	0.21	2.3	5.0	0.13	4	5.6	4.4
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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www.acmelab.com

Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: August 03, 2012

Report Date: August 16, 2012

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CERTIFICATE OF ANALYSIS

SMI12000176.1

CLIENT JOB INFORMATION

Project: KARMA
Shipment ID: KARM_SSN12-06_Aug031
P.O. Number: KARMA06
Number of Samples: 25

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	25	Crush, split and pulverize 250 g rock to 200 mesh			SMI
3B01	25	Fire assay fusion Au by ICP-ES	30	Completed	VAN
7AX1	25	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC:



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 16, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000176.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
G1-SMI	Prep Blank	<0.01	<2	<0.5	3.3	5.1	54	<0.5	2.8	4.1	658	2.17	<5	1.9	6.6	80	<0.5	<0.5	<0.5	43	0.63
G1-SMI	Prep Blank	<0.01	7	<0.5	4.4	10.3	58	0.7	3.1	4.5	718	2.10	<5	2.2	7.2	90	<0.5	<0.5	<0.5	42	0.66
965408	Rock	2.08	<2	0.9	43.5	2.4	96	<0.5	9.9	22.0	1167	5.67	<5	<0.5	2.2	217	<0.5	<0.5	<0.5	195	3.36
965410	Rock	2.29	<2	1.7	29.2	4.0	74	<0.5	8.4	14.1	488	3.70	<5	<0.5	2.5	128	<0.5	<0.5	<0.5	125	1.03
965412	Rock	2.19	<2	2.1	40.3	4.6	69	<0.5	64.8	16.4	722	3.24	28	<0.5	3.2	103	<0.5	<0.5	<0.5	61	1.52
965413	Rock	1.74	<2	0.5	8.4	5.3	56	<0.5	3.6	7.2	827	2.62	<5	0.6	3.8	47	<0.5	<0.5	<0.5	46	0.70
965414	Rock	1.70	<2	0.7	2.6	10.0	115	<0.5	1.3	9.4	1558	3.86	<5	1.4	6.3	44	<0.5	<0.5	<0.5	83	0.69
965416	Rock	2.64	<2	1.1	30.8	3.7	81	<0.5	14.9	18.9	1190	4.99	<5	<0.5	1.7	149	<0.5	<0.5	<0.5	134	1.15
965418	Rock	2.41	<2	0.5	18.5	3.2	92	<0.5	14.3	18.8	1381	4.80	<5	0.6	1.7	138	<0.5	<0.5	<0.5	132	2.36
965419	Rock	2.60	<2	1.2	29.0	4.3	110	<0.5	39.2	16.2	738	3.31	<5	2.2	5.9	106	<0.5	<0.5	<0.5	106	0.80
965421	Rock	2.14	12	7.6	3.5	8.4	53	<0.5	2.7	2.5	255	1.70	49	1.2	3.5	35	<0.5	5.7	<0.5	20	0.36
965423	Rock	2.02	<2	31.7	1.6	4.7	69	<0.5	9.9	4.9	1205	3.50	22	29.6	0.9	53	<0.5	2.5	<0.5	42	10.82
965424	Rock	2.57	<2	1.6	1.7	2.7	6	<0.5	1.4	<0.5	51	0.49	29	0.8	1.4	5	<0.5	3.0	<0.5	<10	0.03
965426	Rock	2.16	4	11.6	1.0	5.3	11	<0.5	0.9	<0.5	31	0.47	21	1.0	2.3	6	<0.5	2.6	<0.5	<10	0.02
965427	Rock	2.01	<2	0.6	18.1	3.6	71	<0.5	17.5	10.5	806	2.79	<5	1.2	3.6	37	<0.5	<0.5	<0.5	55	0.45
965458	Rock	2.43	<2	<0.5	33.6	10.2	99	<0.5	60.2	20.7	1089	4.01	<5	0.8	2.8	429	<0.5	0.5	<0.5	78	4.13
965459	Rock	1.49	<2	7.1	7.9	9.4	7	<0.5	1.5	0.7	32	1.47	208	1.3	1.7	25	<0.5	1.5	<0.5	<10	0.01
965460	Rock	2.13	<2	0.9	20.6	5.1	87	<0.5	14.4	10.7	823	2.36	<5	1.6	4.0	41	<0.5	<0.5	<0.5	77	0.59
965462	Rock	2.59	4	1.3	16.0	6.4	66	<0.5	16.7	12.4	526	2.70	5	1.9	5.9	38	<0.5	<0.5	<0.5	79	0.44
965463	Rock	2.27	<2	1.1	31.6	3.8	90	<0.5	62.0	23.6	884	4.66	<5	1.3	4.6	188	<0.5	<0.5	<0.5	134	1.19
965465	Rock	2.69	<2	0.7	6.2	3.6	113	<0.5	3.6	10.1	658	3.14	<5	2.2	5.9	55	<0.5	<0.5	<0.5	68	0.67
965467	Rock	2.33	<2	1.0	4.1	5.1	113	<0.5	1.3	7.5	841	2.96	<5	2.2	6.3	118	<0.5	<0.5	<0.5	73	0.78
965469	Rock	2.61	<2	1.8	16.2	3.4	82	<0.5	14.9	11.1	700	3.06	<5	2.2	5.7	43	<0.5	<0.5	<0.5	86	0.58
965471	Rock	2.98	<2	4.0	16.3	8.5	53	<0.5	12.1	6.8	553	2.25	68	1.3	4.3	19	<0.5	6.8	<0.5	38	0.12
965473	Rock	2.33	<2	1.3	24.0	3.3	92	<0.5	27.1	15.8	479	3.59	<5	1.4	5.4	78	<0.5	<0.5	<0.5	111	0.92
965475	Rock	2.97	<2	0.7	2.4	8.2	6	<0.5	1.1	<0.5	27	0.32	11	1.4	8.9	9	<0.5	3.1	<0.5	<10	0.04
965476	Rock	2.45	8	1.4	2.1	6.4	6	<0.5	0.9	0.6	31	1.08	20	<0.5	2.0	21	<0.5	6.2	<0.5	<10	0.01



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Project: KARMA
 Report Date: August 16, 2012

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CERTIFICATE OF ANALYSIS

SMI12000176.1

Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	
G1-SMI	Prep Blank	0.080	17.9	9.2	0.50	173	0.154	1.30	0.22	0.49	<0.5	<0.05	3.3	<0.5	<0.05	5	<2
G1-SMI	Prep Blank	0.089	19.0	9.3	0.50	195	0.156	1.37	0.24	0.53	<0.5	<0.05	3.4	<0.5	<0.05	5	<2
965408	Rock	0.152	18.5	26.7	1.57	93	0.208	2.37	0.30	0.12	<0.5	<0.05	20.0	<0.5	<0.05	8	<2
965410	Rock	0.162	20.4	10.2	1.07	118	0.311	1.47	0.39	0.16	<0.5	<0.05	6.1	<0.5	<0.05	<5	<2
965412	Rock	0.183	37.0	33.8	0.75	786	0.012	1.86	0.09	0.31	<0.5	0.19	4.9	<0.5	<0.05	7	<2
965413	Rock	0.076	15.2	5.7	0.35	209	0.047	1.23	0.15	0.25	<0.5	<0.05	1.7	<0.5	<0.05	<5	<2
965414	Rock	0.222	43.6	1.2	0.86	464	0.131	2.06	0.12	0.34	<0.5	<0.05	6.2	<0.5	<0.05	9	<2
965416	Rock	0.147	10.6	21.3	1.25	194	0.106	2.10	0.44	0.09	<0.5	<0.05	8.0	<0.5	<0.05	7	<2
965418	Rock	0.148	10.8	23.5	1.24	198	0.098	2.11	0.30	0.11	<0.5	<0.05	9.0	<0.5	<0.05	8	<2
965419	Rock	0.196	33.7	46.2	0.94	119	0.209	1.30	0.26	0.40	<0.5	<0.05	5.8	<0.5	<0.05	<5	<2
965421	Rock	0.098	9.4	3.3	0.07	93	0.004	0.88	0.01	0.15	<0.5	0.18	2.4	<0.5	0.20	<5	<2
965423	Rock	0.018	1.5	7.5	4.71	14	0.002	0.25	0.01	0.05	<0.5	<0.05	2.4	<0.5	<0.05	<5	<2
965424	Rock	0.005	2.1	7.0	<0.01	48	0.002	0.41	<0.01	0.20	<0.5	<0.05	0.8	<0.5	<0.05	<5	<2
965426	Rock	0.004	2.1	6.5	0.02	125	<0.001	0.46	<0.01	0.22	<0.5	<0.05	0.5	<0.5	<0.05	<5	<2
965427	Rock	0.131	17.9	36.2	0.24	246	0.133	0.82	0.16	0.22	<0.5	<0.05	6.0	<0.5	<0.05	<5	<2
965458	Rock	0.224	51.3	31.1	1.53	1084	0.020	1.95	0.11	0.41	<0.5	<0.05	8.2	<0.5	<0.05	6	<2
965459	Rock	0.002	4.4	7.4	<0.01	401	0.002	0.37	0.04	0.24	<0.5	<0.05	0.7	2.8	0.89	<5	<2
965460	Rock	0.116	16.3	42.3	0.41	134	0.177	1.04	0.21	0.32	<0.5	<0.05	5.0	<0.5	<0.05	<5	<2
965462	Rock	0.107	19.7	44.8	0.40	125	0.136	0.97	0.20	0.29	<0.5	<0.05	5.1	<0.5	<0.05	<5	<2
965463	Rock	0.225	40.9	80.8	1.13	145	0.151	1.70	0.30	0.28	<0.5	<0.05	8.2	<0.5	<0.05	6	<2
965465	Rock	0.178	23.5	4.3	0.44	140	0.203	1.16	0.25	0.26	<0.5	<0.05	5.3	<0.5	<0.05	<5	<2
965467	Rock	0.211	36.2	2.1	0.45	182	0.186	1.32	0.36	0.27	<0.5	<0.05	5.5	<0.5	<0.05	5	<2
965469	Rock	0.116	17.8	39.5	0.68	100	0.132	1.37	0.27	0.15	<0.5	<0.05	6.2	<0.5	<0.05	<5	<2
965471	Rock	0.078	8.3	19.9	0.02	64	0.005	0.77	0.01	0.16	<0.5	0.19	6.8	<0.5	0.07	<5	<2
965473	Rock	0.176	24.9	40.8	1.37	144	0.119	1.36	0.28	0.13	<0.5	<0.05	6.5	<0.5	<0.05	<5	<2
965475	Rock	0.009	12.0	3.0	0.02	74	0.001	0.67	<0.01	0.25	<0.5	0.22	1.3	<0.5	<0.05	<5	<2
965476	Rock	0.007	4.6	7.2	<0.01	59	0.002	0.57	<0.01	0.15	0.9	0.30	<0.5	0.7	0.43	<5	<2



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15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Project: KARMA

Report Date: August 16, 2012

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Part: 1 of 2

QUALITY CONTROL REPORT

SMI12000176.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
Pulp Duplicates																					
965427	Rock	2.01	<2	0.6	18.1	3.6	71	<0.5	17.5	10.5	806	2.79	<5	1.2	3.6	37	<0.5	<0.5	<0.5	55	0.45
REP 965427	QC			0.8	15.8	2.5	69	<0.5	17.2	10.1	767	2.78	7	1.1	3.8	37	<0.5	<0.5	<0.5	54	0.43
Reference Materials																					
STD OXD87	Standard		428																		
STD OXD87	Standard		415																		
STD OXD87	Standard		416																		
STD OXG99	Standard		926																		
STD OXG99	Standard		959																		
STD OXG99	Standard		996																		
STD SF-3A	Standard			308.0	7650	8691	10812	51.6	3487	178.6	3932	7.40	46	3.3	3.4	63	49.3	10.0	4.7	112	2.56
STD SF-3A	Standard			318.4	7475	8620	10810	51.2	3478	177.9	3946	7.40	44	3.3	3.0	60	47.6	10.0	4.5	111	2.54
STD OXD87 Expected			417																		
STD OXG99 Expected			932																		
STD SF-3A Expected				308	7705	8715	10750	54	3420	183	4100	7.75	46	3.3	2.8	58	50	10	4.6	102	2.59
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01
Prep Wash																					
G1-SMI	Prep Blank	<0.01	<2	<0.5	3.3	5.1	54	<0.5	2.8	4.1	658	2.17	<5	1.9	6.6	80	<0.5	<0.5	<0.5	43	0.63
G1-SMI	Prep Blank	<0.01	7	<0.5	4.4	10.3	58	0.7	3.1	4.5	718	2.10	<5	2.2	7.2	90	<0.5	<0.5	<0.5	42	0.66



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 Vancouver BC V6E 4H1 Canada

Project: KARMA
Report Date: August 16, 2012

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QUALITY CONTROL REPORT

SMI12000176.1

Method		7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2
Pulp Duplicates																	
965427	Rock	0.131	17.9	36.2	0.24	246	0.133	0.82	0.16	0.22	<0.5	<0.05	6.0	<0.5	<0.05	<5	<2
REP 965427	QC	0.132	17.7	33.0	0.24	253	0.134	0.83	0.17	0.22	<0.5	<0.05	7.3	<0.5	<0.05	<5	<2
Reference Materials																	
STD OXD87	Standard																
STD OXD87	Standard																
STD OXD87	Standard																
STD OXG99	Standard																
STD OXG99	Standard																
STD OXG99	Standard																
STD SF-3A	Standard	0.052	9.5	177.5	4.16	282	0.113	1.06	0.53	0.99	3.2	0.52	3.0	2.9	4.89	<5	6
STD SF-3A	Standard	0.052	9.2	174.6	4.14	270	0.110	1.04	0.52	0.98	3.3	0.58	3.1	2.7	5.12	<5	7
STD OXD87 Expected																	
STD OXG99 Expected																	
STD SF-3A Expected		0.055	8.9	172	4.27	260	0.117	1.02	0.5	1.04	3.2	0.6	3	2.7	5	4	8.5
BLK	Blank																
BLK	Blank																
BLK	Blank																
BLK	Blank																
BLK	Blank																
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2
Prep Wash																	
G1-SMI	Prep Blank	0.080	17.9	9.2	0.50	173	0.154	1.30	0.22	0.49	<0.5	<0.05	3.3	<0.5	<0.05	5	<2
G1-SMI	Prep Blank	0.089	19.0	9.3	0.50	195	0.156	1.37	0.24	0.53	<0.5	<0.05	3.4	<0.5	<0.05	5	<2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: August 03, 2012

Report Date: August 13, 2012

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CERTIFICATE OF ANALYSIS

SMI12000177.1

CLIENT JOB INFORMATION

Project: KARMA
Shipment ID: KARM_SSN12-05_Aug031
P.O. Number: KARMA05
Number of Samples: 309

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Quartz Mountain Resources Ltd.
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Vancouver BC V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	279	Dry at 60C			SMI
SS80	279	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	278	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

SMI12000177.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
964500	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
964501	Soil	0.4	5.1	4.4	56	<0.1	7.7	5.4	514	1.82	1.6	3.2	0.6	9	<0.1	0.1	<0.1	44	0.15	0.117	3
964502	Soil	0.3	4.0	3.4	47	<0.1	7.8	4.3	159	1.49	1.0	<0.5	0.4	9	<0.1	0.1	<0.1	39	0.13	0.036	3
964503	Soil	0.5	5.4	4.4	61	<0.1	8.9	5.2	500	1.76	0.9	<0.5	0.5	15	<0.1	0.1	<0.1	45	0.21	0.016	4
964504	Soil	0.4	8.3	6.1	70	0.1	11.8	6.2	588	1.94	1.6	0.9	0.7	22	<0.1	0.2	<0.1	50	0.29	0.021	5
964505	Soil	0.6	18.7	5.4	45	0.1	16.4	8.0	667	2.03	2.2	1.0	0.7	47	<0.1	0.2	<0.1	56	0.47	0.032	11
964506	Soil	0.3	7.3	4.4	29	0.1	8.9	4.5	222	1.62	1.1	<0.5	0.5	35	<0.1	0.1	<0.1	46	0.68	0.027	5
964507	Soil	0.7	5.5	4.4	28	<0.1	8.1	4.3	177	1.73	2.2	0.5	0.5	11	<0.1	0.2	<0.1	49	0.15	0.041	3
964508	Soil	0.9	8.2	4.8	57	<0.1	11.7	7.0	257	2.34	4.0	0.9	0.8	8	<0.1	0.2	<0.1	60	0.16	0.088	3
964509	Soil	0.8	5.7	4.5	60	<0.1	10.9	6.1	440	2.10	3.3	<0.5	0.6	9	<0.1	0.2	<0.1	51	0.14	0.073	3
964510	Soil	0.8	8.9	4.2	18	0.2	8.0	4.2	600	1.35	2.2	<0.5	0.3	60	<0.1	0.2	<0.1	41	1.53	0.054	3
964511	Soil	0.7	10.5	4.9	25	0.1	11.3	5.9	411	1.96	1.8	0.6	0.8	32	<0.1	0.2	<0.1	56	0.67	0.022	9
964512	Soil	0.3	3.5	4.7	41	<0.1	5.0	3.3	245	1.14	0.7	<0.5	0.4	12	<0.1	<0.1	<0.1	38	0.22	0.021	4
964513	Soil	0.4	7.6	5.0	66	<0.1	10.8	6.4	603	2.44	2.6	<0.5	0.7	11	<0.1	0.2	<0.1	64	0.18	0.112	4
964514	Soil	0.4	4.4	4.6	73	<0.1	7.9	5.7	458	2.27	1.6	10.6	0.7	9	<0.1	0.2	<0.1	60	0.16	0.106	3
964515	Soil	0.3	6.0	4.1	76	<0.1	10.8	5.5	625	2.11	1.4	<0.5	0.7	8	<0.1	0.2	<0.1	57	0.15	0.072	3
964516	Soil	0.5	5.4	4.1	89	<0.1	10.1	5.4	501	2.05	1.4	<0.5	0.6	9	<0.1	0.2	<0.1	53	0.16	0.081	3
964517	Soil	0.7	18.7	7.2	86	0.1	19.2	11.1	858	2.70	4.6	<0.5	0.7	28	0.4	0.4	<0.1	61	0.41	0.057	5
964518	Soil	1.4	6.3	4.9	53	<0.1	9.1	7.3	749	2.23	1.6	<0.5	0.6	16	0.1	0.2	<0.1	60	0.27	0.030	3
964519	Soil	1.0	12.5	4.9	73	<0.1	11.0	7.1	937	2.05	1.5	<0.5	0.4	19	0.4	0.2	<0.1	51	0.35	0.031	4
964520	Soil	0.5	12.0	5.0	51	<0.1	11.8	7.6	581	2.53	4.0	<0.5	0.5	23	<0.1	0.2	<0.1	63	0.42	0.055	6
964521	Soil	0.5	11.2	5.6	95	<0.1	12.6	7.2	863	2.69	3.0	8.0	0.4	29	0.2	0.3	<0.1	71	0.50	0.092	5
964522	Soil	1.3	25.1	7.8	284	0.1	11.7	9.6	2875	2.91	1.8	6.8	0.1	45	0.9	0.2	<0.1	74	0.77	0.197	6
964523	Soil	0.4	14.2	5.0	90	<0.1	14.5	7.0	717	2.25	1.9	<0.5	0.7	24	0.2	0.2	<0.1	55	0.40	0.087	6
964524	Soil	1.0	11.6	4.5	37	<0.1	11.0	6.9	594	1.96	2.2	<0.5	0.5	23	<0.1	0.2	<0.1	52	0.42	0.020	4
964525	Soil	1.3	8.3	5.7	133	0.2	9.9	7.0	684	2.45	1.7	<0.5	0.3	11	0.3	0.2	0.1	58	0.20	0.140	4
964526	Soil	0.4	10.5	4.8	49	<0.1	11.8	6.7	610	2.39	2.9	0.6	0.6	25	<0.1	0.2	<0.1	60	0.38	0.058	6
964527	Soil	0.7	24.6	4.1	67	0.1	12.7	5.6	947	1.69	1.2	<0.5	0.1	53	0.4	0.1	<0.1	43	1.03	0.092	5
964528	Soil	0.3	19.8	4.2	145	0.2	12.6	5.8	795	1.79	1.3	<0.5	0.2	42	0.4	0.1	<0.1	43	0.86	0.084	5
964529	Soil	0.9	23.1	4.8	64	0.1	11.9	6.4	1086	1.90	2.0	<0.5	0.1	39	0.5	0.2	<0.1	50	0.66	0.083	5

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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 13, 2012

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CERTIFICATE OF ANALYSIS

SMI12000177.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964500	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964501	Soil	13	0.18	70	0.040	1	0.95	0.006	0.03	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
964502	Soil	12	0.18	67	0.042	1	0.66	0.007	0.03	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
964503	Soil	14	0.24	88	0.052	<1	0.77	0.009	0.04	<0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
964504	Soil	17	0.34	120	0.046	1	1.06	0.013	0.04	<0.1	0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
964505	Soil	22	0.45	159	0.031	1	1.53	0.017	0.05	<0.1	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
964506	Soil	14	0.29	97	0.032	<1	1.04	0.016	0.02	<0.1	0.03	2.5	<0.1	0.08	4	<0.5	<0.2
964507	Soil	14	0.23	88	0.043	1	1.02	0.007	0.03	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
964508	Soil	17	0.27	83	0.043	<1	1.19	0.006	0.03	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
964509	Soil	14	0.28	100	0.042	<1	1.23	0.007	0.03	0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
964510	Soil	16	0.24	166	0.030	3	1.03	0.014	0.03	<0.1	0.06	2.6	<0.1	0.28	3	0.6	<0.2
964511	Soil	19	0.24	165	0.038	<1	1.42	0.013	0.03	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
964512	Soil	10	0.18	61	0.058	<1	0.58	0.007	0.03	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
964513	Soil	18	0.26	115	0.043	<1	1.01	0.007	0.03	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
964514	Soil	16	0.21	117	0.043	<1	0.85	0.006	0.03	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
964515	Soil	16	0.26	97	0.047	<1	0.99	0.006	0.03	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
964516	Soil	15	0.25	95	0.043	<1	0.91	0.005	0.04	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
964517	Soil	24	0.45	139	0.041	2	1.17	0.010	0.12	0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
964518	Soil	17	0.25	92	0.058	1	0.89	0.008	0.07	0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
964519	Soil	17	0.26	88	0.050	2	0.86	0.009	0.08	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
964520	Soil	18	0.36	107	0.048	1	0.90	0.010	0.10	<0.1	0.02	3.8	<0.1	<0.05	3	<0.5	<0.2
964521	Soil	20	0.35	184	0.047	2	1.01	0.008	0.08	<0.1	<0.01	3.1	<0.1	0.05	4	<0.5	<0.2
964522	Soil	21	0.29	517	0.032	3	0.99	0.006	0.10	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
964523	Soil	18	0.29	209	0.049	2	1.03	0.009	0.14	<0.1	0.01	3.5	<0.1	<0.05	3	<0.5	<0.2
964524	Soil	16	0.25	86	0.054	3	0.69	0.011	0.11	<0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
964525	Soil	16	0.29	137	0.038	1	1.07	0.008	0.03	0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
964526	Soil	19	0.30	132	0.055	2	0.90	0.010	0.13	<0.1	0.01	3.6	<0.1	<0.05	3	<0.5	<0.2
964527	Soil	14	0.26	216	0.025	5	0.75	0.008	0.14	<0.1	0.02	1.4	<0.1	0.11	3	<0.5	<0.2
964528	Soil	16	0.24	164	0.031	4	0.75	0.008	0.10	<0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
964529	Soil	16	0.25	172	0.032	2	0.78	0.008	0.07	<0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 13, 2012

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CERTIFICATE OF ANALYSIS

SMI12000177.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
964530	Soil		1.4	15.8	9.6	72	0.1	15.6	10.3	865	2.48	6.3	3.6	0.6	49	0.3	0.3	0.1	59	0.66	0.090	9
964531	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964532	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964533	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964534	Soil		1.0	17.6	9.8	73	0.1	17.5	10.1	706	2.57	6.1	2.0	0.9	40	0.1	0.3	<0.1	59	0.48	0.081	10
964535	Soil		0.5	12.6	4.9	44	<0.1	13.8	7.9	464	2.42	4.6	0.9	0.9	19	<0.1	0.3	<0.1	62	0.27	0.040	5
964536	Soil		0.8	21.5	6.2	92	0.1	19.0	9.4	776	2.53	4.3	2.2	0.5	33	0.2	0.3	<0.1	56	0.48	0.078	6
964537	Soil		0.7	21.7	5.7	103	<0.1	18.1	8.6	789	2.39	2.7	<0.5	0.5	25	0.2	0.3	<0.1	51	0.44	0.080	6
964538	Soil		1.2	47.4	5.6	182	0.2	17.1	7.5	1480	1.87	2.6	0.6	0.1	89	0.8	0.2	<0.1	40	1.47	0.137	5
964539	Soil		0.9	22.1	4.8	96	0.1	14.7	6.8	719	1.69	3.4	0.8	0.2	76	0.4	0.3	<0.1	36	1.22	0.103	4
964540	Soil		1.1	34.5	6.8	110	0.1	22.3	10.0	742	2.62	6.1	2.4	0.6	37	0.4	0.4	0.2	54	0.56	0.077	7
964541	Soil		0.9	36.9	7.3	130	0.1	26.3	11.9	737	2.74	7.4	2.0	0.7	75	0.4	0.5	0.2	51	0.98	0.101	6
964542	Soil		1.2	34.7	4.6	135	0.2	14.5	5.8	746	1.62	2.9	0.8	0.2	56	0.8	0.2	0.1	35	1.15	0.119	4
964543	Soil		0.5	10.6	4.9	44	<0.1	11.2	6.5	558	1.98	2.8	2.9	0.5	27	<0.1	0.2	<0.1	46	0.36	0.067	5
964544	Soil		0.6	25.1	4.4	110	0.3	22.7	7.8	934	2.20	2.7	1.2	0.4	34	0.3	0.2	<0.1	46	0.37	0.091	11
964545	Soil		0.4	13.3	4.2	117	0.1	13.2	5.9	668	1.78	1.9	3.3	0.6	32	0.2	0.2	<0.1	42	0.41	0.067	6
964546	Soil		1.2	35.2	6.1	82	0.3	28.1	8.8	1979	2.22	2.9	0.9	0.2	73	0.5	0.2	0.1	49	0.75	0.085	14
964547	Soil		1.1	48.2	7.6	213	0.5	47.8	11.5	1285	3.72	5.4	2.4	1.7	72	0.3	0.4	0.1	74	0.71	0.147	23
964548	Soil		0.8	8.1	4.5	42	<0.1	10.4	5.5	491	1.80	2.0	1.9	0.5	22	<0.1	0.2	<0.1	48	0.25	0.021	5
964549	Soil		0.5	10.7	4.1	54	<0.1	12.1	5.2	492	1.76	1.9	1.0	0.5	24	<0.1	0.2	<0.1	44	0.27	0.029	6
964550	Soil		0.3	6.4	4.0	71	<0.1	10.2	5.1	369	1.61	1.8	<0.5	0.6	19	<0.1	0.1	<0.1	42	0.22	0.033	5
964551	Soil		0.4	7.6	4.1	45	<0.1	10.6	5.5	407	1.65	2.2	3.0	0.5	20	<0.1	0.2	<0.1	41	0.22	0.028	5
964552	Soil		0.3	4.1	3.6	44	<0.1	7.9	3.7	188	1.43	1.3	<0.5	0.5	14	<0.1	0.1	<0.1	38	0.18	0.023	4
964553	Soil		0.6	5.0	4.5	74	<0.1	8.6	4.9	399	1.83	1.9	13.6	0.7	11	<0.1	0.2	<0.1	44	0.17	0.108	4
964554	Soil		0.5	4.5	4.7	79	<0.1	8.5	4.9	171	1.99	2.1	<0.5	0.7	17	<0.1	0.1	<0.1	48	0.21	0.094	4
964555	Soil		0.3	6.0	4.3	62	<0.1	8.1	4.7	428	1.55	1.6	<0.5	0.5	19	<0.1	0.2	<0.1	42	0.24	0.032	5
964556	Soil		0.3	8.1	5.0	61	<0.1	11.7	6.0	321	2.31	3.5	<0.5	0.9	12	<0.1	0.2	<0.1	57	0.19	0.103	5
964557	Soil		0.4	9.6	4.7	48	<0.1	11.6	5.9	326	2.21	4.0	1.1	0.9	12	<0.1	0.2	<0.1	55	0.17	0.086	4
964558	Soil		0.4	5.3	4.6	67	<0.1	9.2	5.1	348	2.06	2.1	<0.5	0.8	11	<0.1	0.1	<0.1	50	0.15	0.116	4
964559	Soil		0.4	8.7	4.5	50	<0.1	11.2	5.8	331	2.16	3.5	<0.5	0.9	11	<0.1	0.2	<0.1	54	0.16	0.062	4

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 13, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964530	Soil	23	0.45	185	0.021	2	1.18	0.017	0.11	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
964531	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964532	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964533	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964534	Soil	24	0.46	197	0.023	1	1.29	0.020	0.07	<0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
964535	Soil	18	0.37	80	0.057	<1	0.90	0.015	0.06	<0.1	0.01	3.5	<0.1	<0.05	3	<0.5	<0.2
964536	Soil	22	0.48	195	0.039	2	1.20	0.008	0.15	<0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
964537	Soil	20	0.37	208	0.038	3	1.11	0.008	0.18	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
964538	Soil	16	0.31	292	0.013	3	0.84	0.007	0.10	0.1	0.03	1.3	<0.1	0.10	3	<0.5	<0.2
964539	Soil	14	0.39	177	0.018	7	0.81	0.007	0.19	<0.1	0.05	2.4	<0.1	<0.05	3	<0.5	<0.2
964540	Soil	22	0.50	200	0.034	3	1.31	0.012	0.18	<0.1	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
964541	Soil	24	0.71	204	0.020	6	1.61	0.011	0.24	0.1	0.05	4.9	<0.1	<0.05	5	<0.5	<0.2
964542	Soil	14	0.34	176	0.018	6	0.81	0.007	0.11	<0.1	0.04	1.6	<0.1	0.07	3	<0.5	<0.2
964543	Soil	16	0.33	106	0.043	1	0.94	0.009	0.07	<0.1	0.01	3.2	<0.1	<0.05	3	<0.5	<0.2
964544	Soil	21	0.40	217	0.029	1	1.79	0.011	0.09	<0.1	0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
964545	Soil	16	0.35	157	0.046	1	1.10	0.009	0.05	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
964546	Soil	18	0.39	258	0.028	2	1.54	0.007	0.12	<0.1	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
964547	Soil	40	0.66	459	0.032	3	4.05	0.017	0.19	<0.1	0.06	11.1	0.1	<0.05	10	<0.5	<0.2
964548	Soil	14	0.28	102	0.047	<1	1.03	0.008	0.05	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
964549	Soil	14	0.33	101	0.045	<1	1.09	0.009	0.04	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
964550	Soil	13	0.26	95	0.052	<1	0.98	0.010	0.04	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
964551	Soil	14	0.35	86	0.050	<1	1.02	0.009	0.03	<0.1	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
964552	Soil	13	0.23	62	0.053	<1	0.76	0.008	0.03	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
964553	Soil	13	0.20	88	0.048	<1	0.95	0.006	0.04	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
964554	Soil	14	0.20	95	0.047	<1	1.02	0.006	0.04	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
964555	Soil	13	0.23	96	0.053	<1	0.88	0.008	0.03	<0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
964556	Soil	17	0.29	92	0.051	<1	1.14	0.006	0.04	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
964557	Soil	17	0.31	78	0.050	<1	1.20	0.006	0.03	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
964558	Soil	15	0.20	74	0.045	<1	1.13	0.006	0.03	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
964559	Soil	16	0.29	85	0.051	<1	1.09	0.006	0.04	0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
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	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	
964560	Soil	0.5	11.4	13.3	57	<0.1	11.9	6.4	448	2.30	4.2	<0.5	1.1	13	<0.1	0.3	<0.1	59	0.19	0.056	5
964561	Soil	0.5	12.4	4.9	137	0.1	15.2	5.9	932	1.94	3.4	<0.5	0.7	27	0.2	0.3	<0.1	45	0.29	0.091	10
964562	Soil	0.6	10.4	5.1	53	<0.1	14.7	6.4	462	2.27	6.6	0.6	1.0	20	<0.1	0.6	<0.1	57	0.26	0.045	7
964563	Soil	0.5	11.3	5.3	62	<0.1	14.8	7.0	694	2.13	5.3	<0.5	1.1	24	<0.1	0.5	0.1	52	0.28	0.037	9
964564	Soil	0.7	14.8	5.7	134	<0.1	18.6	9.1	2602	2.22	2.3	<0.5	0.6	46	0.3	0.3	<0.1	45	0.45	0.136	8
964565	Soil	2.2	11.5	9.2	415	<0.1	11.9	9.1	2035	2.42	9.9	0.9	0.4	35	0.4	1.6	<0.1	43	0.36	0.219	7
964566	Soil	0.6	9.6	4.9	140	0.1	14.6	5.6	1336	1.90	2.4	<0.5	0.7	34	0.2	0.3	<0.1	42	0.30	0.140	7
964567	Soil	0.4	6.7	4.0	96	<0.1	11.7	5.7	751	1.70	3.1	<0.5	0.6	23	0.1	0.4	<0.1	43	0.27	0.038	5
964568	Soil	0.7	8.7	4.8	97	<0.1	14.9	6.9	466	2.12	5.8	<0.5	1.3	14	<0.1	0.6	<0.1	51	0.17	0.058	6
964569	Soil	0.8	27.5	5.7	86	0.3	26.2	9.6	1401	2.56	6.2	0.9	0.6	44	0.1	0.4	<0.1	52	0.40	0.072	22
964570	Soil	0.6	21.3	5.0	80	0.2	14.8	7.7	1709	1.88	4.0	<0.5	0.3	65	0.2	0.3	<0.1	42	0.61	0.075	7
964571	Soil	0.5	11.8	4.4	120	<0.1	16.1	7.2	1582	1.64	2.5	0.9	0.3	57	0.4	0.3	<0.1	39	0.56	0.100	6
964572	Soil	0.6	8.6	5.7	79	<0.1	13.7	7.1	557	2.37	9.0	0.6	1.2	15	<0.1	0.5	<0.1	57	0.20	0.111	6
964573	Soil	0.5	9.8	5.3	55	<0.1	14.6	6.9	427	2.12	5.7	<0.5	1.0	24	<0.1	0.3	<0.1	52	0.25	0.063	6
964574	Soil	0.7	6.6	6.3	128	<0.1	11.7	10.0	2362	2.02	3.6	<0.5	1.0	26	0.1	0.3	<0.1	48	0.23	0.173	6
964575	Soil	0.4	8.0	5.2	92	<0.1	19.5	8.7	1344	2.12	4.6	<0.5	1.0	17	<0.1	0.4	<0.1	49	0.19	0.101	6
964576	Soil	0.7	8.9	6.0	182	0.2	14.4	7.5	2071	1.92	2.4	3.2	0.7	28	0.2	0.3	0.1	43	0.24	0.135	6
964577	Soil	1.6	26.2	9.8	112	0.4	7.8	6.5	1091	2.02	23.6	1.5	0.1	31	0.5	3.1	0.1	29	0.29	0.124	6
964578	Soil	0.6	11.2	4.8	43	<0.1	12.2	5.4	315	1.99	10.8	2.6	0.9	17	<0.1	0.8	<0.1	48	0.21	0.041	7
964579	Soil	0.5	8.3	5.4	84	0.1	9.2	6.3	778	1.62	1.4	1.7	0.5	30	0.1	0.2	<0.1	35	0.28	0.105	6
964580	Soil	0.5	13.0	5.6	42	<0.1	12.6	5.8	313	2.17	5.5	2.4	1.1	26	<0.1	0.6	<0.1	51	0.24	0.044	6
964581	Soil	2.1	11.5	9.8	105	0.1	11.3	5.7	446	3.29	91.9	6.2	1.6	14	<0.1	15.7	0.1	50	0.09	0.232	5
964582	Soil	0.5	8.0	5.8	162	0.2	11.4	7.1	1267	2.13	3.6	3.8	0.9	19	0.4	0.3	<0.1	45	0.17	0.199	6
964583	Soil	0.4	9.4	5.3	44	<0.1	12.2	6.5	326	2.01	5.5	1.3	0.8	19	<0.1	0.6	<0.1	49	0.20	0.055	5
964584	Soil	0.4	7.3	5.1	61	<0.1	13.4	6.7	507	1.97	4.8	1.0	0.8	15	<0.1	1.0	<0.1	45	0.15	0.067	5
964585	Soil	1.3	22.1	9.1	267	0.3	13.8	10.7	754	3.27	97.9	0.9	2.7	80	0.4	15.9	<0.1	51	0.14	0.324	13
964586	Soil	0.6	11.7	5.9	69	<0.1	20.4	7.6	1335	2.21	16.9	4.9	0.5	24	0.1	1.4	<0.1	51	0.20	0.046	6
964764	Soil	6.6	58.1	21.6	69	1.0	15.5	7.2	993	2.28	6.2	1.8	0.8	87	0.5	0.3	0.4	43	0.84	0.071	33
964765	Soil	2.3	42.9	21.5	44	0.6	9.7	4.7	188	1.51	1.8	1.4	0.2	70	0.5	0.1	0.2	23	0.51	0.069	30
964766	Soil	0.9	5.3	10.1	36	<0.1	3.6	2.2	160	1.50	2.2	1.5	0.9	8	0.1	0.2	0.2	34	0.09	0.145	8

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964560	Soil	18	0.32	103	0.058	<1	1.18	0.009	0.04	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
964561	Soil	17	0.29	168	0.045	1	1.09	0.009	0.08	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
964562	Soil	18	0.34	111	0.064	<1	1.00	0.013	0.06	0.1	0.01	3.2	<0.1	<0.05	3	<0.5	<0.2
964563	Soil	17	0.34	136	0.061	<1	1.08	0.009	0.06	<0.1	0.02	3.7	0.1	<0.05	4	<0.5	<0.2
964564	Soil	17	0.29	396	0.046	2	1.23	0.007	0.12	<0.1	0.02	2.9	0.1	<0.05	4	<0.5	<0.2
964565	Soil	15	0.18	344	0.031	2	1.43	0.005	0.07	<0.1	0.04	2.2	0.3	<0.05	6	<0.5	<0.2
964566	Soil	16	0.23	374	0.044	1	1.11	0.006	0.10	<0.1	0.02	2.7	0.1	<0.05	4	<0.5	<0.2
964567	Soil	13	0.25	165	0.056	<1	0.91	0.006	0.06	<0.1	0.02	2.6	0.1	<0.05	3	<0.5	<0.2
964568	Soil	17	0.27	106	0.055	<1	1.32	0.009	0.06	0.1	0.01	3.0	0.2	<0.05	4	<0.5	<0.2
964569	Soil	24	0.46	282	0.022	1	2.26	0.012	0.09	<0.1	0.03	6.2	0.2	<0.05	6	<0.5	<0.2
964570	Soil	15	0.28	312	0.033	2	1.09	0.007	0.09	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
964571	Soil	14	0.22	298	0.037	1	1.01	0.007	0.08	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
964572	Soil	18	0.28	110	0.048	1	1.52	0.009	0.05	0.1	0.03	2.8	0.1	<0.05	5	<0.5	<0.2
964573	Soil	18	0.35	126	0.051	<1	1.30	0.007	0.04	<0.1	0.02	2.8	0.1	<0.05	4	<0.5	<0.2
964574	Soil	16	0.18	328	0.044	<1	1.36	0.006	0.05	<0.1	0.02	2.4	0.3	<0.05	5	<0.5	<0.2
964575	Soil	17	0.26	168	0.044	<1	1.66	0.009	0.05	<0.1	0.02	2.8	0.1	<0.05	5	<0.5	<0.2
964576	Soil	15	0.20	274	0.032	2	1.23	0.006	0.07	<0.1	0.03	2.1	0.1	<0.05	4	<0.5	<0.2
964577	Soil	10	0.06	251	0.014	3	0.69	0.007	0.08	<0.1	0.10	0.7	0.3	<0.05	4	<0.5	<0.2
964578	Soil	15	0.34	68	0.039	1	1.00	0.010	0.05	<0.1	0.03	3.1	0.3	<0.05	3	<0.5	<0.2
964579	Soil	12	0.16	133	0.027	1	0.91	0.007	0.05	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
964580	Soil	16	0.31	101	0.038	<1	0.99	0.008	0.04	<0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
964581	Soil	15	0.19	108	0.025	<1	1.37	0.006	0.06	0.2	0.09	2.2	1.2	<0.05	6	<0.5	<0.2
964582	Soil	15	0.21	222	0.032	1	1.17	0.008	0.06	<0.1	0.03	2.8	0.1	<0.05	4	<0.5	<0.2
964583	Soil	15	0.29	87	0.037	1	0.87	0.012	0.04	<0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
964584	Soil	15	0.26	113	0.032	<1	1.10	0.010	0.04	<0.1	0.02	2.2	0.2	<0.05	4	<0.5	<0.2
964585	Soil	23	0.10	212	0.023	2	1.75	0.007	0.06	0.4	0.14	2.6	5.0	<0.05	8	<0.5	<0.2
964586	Soil	16	0.26	133	0.040	1	0.99	0.010	0.04	<0.1	0.02	2.7	0.6	<0.05	4	<0.5	<0.2
964764	Soil	14	0.31	337	0.008	<1	1.98	0.010	0.08	<0.1	0.06	2.7	0.1	<0.05	6	<0.5	<0.2
964765	Soil	10	0.22	214	0.011	<1	1.56	0.010	0.05	<0.1	0.08	1.4	<0.1	<0.05	6	<0.5	<0.2
964766	Soil	10	0.10	65	0.031	<1	0.94	0.007	0.03	<0.1	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 13, 2012

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CERTIFICATE OF ANALYSIS

SMI12000177.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
964767	Soil	7.6	60.9	28.1	134	0.9	19.4	19.2	3433	1.87	2.5	0.7	0.1	80	2.3	0.2	0.4	33	0.88	0.119	29
964768	Soil	5.1	43.2	17.3	80	0.9	15.1	7.2	1035	1.67	3.5	4.7	0.5	72	1.1	0.2	0.3	32	1.06	0.092	35
964769	Soil	6.2	33.7	20.6	98	0.9	16.1	8.5	588	2.10	4.1	2.3	1.1	59	0.6	0.3	0.3	35	0.87	0.104	28
964770	Soil	1.8	13.4	12.7	60	0.1	9.0	5.4	285	2.48	6.9	1.8	2.5	20	0.2	0.3	0.2	46	0.17	0.048	12
964771	Soil	2.9	17.6	18.2	79	0.5	9.6	6.7	546	2.27	3.9	1.1	0.7	29	0.3	0.2	0.3	50	0.28	0.055	13
964772	Soil	2.4	9.2	13.9	42	<0.1	8.1	5.4	343	1.93	4.5	4.3	1.5	21	0.1	0.3	0.2	43	0.28	0.039	10
964773	Soil	5.9	58.5	18.9	49	1.2	16.8	4.3	118	1.70	3.0	1.4	0.7	95	2.0	0.3	0.4	31	1.42	0.043	35
964774	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
964775	Soil	1.7	32.2	12.9	133	0.5	24.0	9.1	1890	2.77	16.0	1.2	0.8	53	0.8	0.4	0.1	52	0.38	0.110	28
964776	Soil	0.5	37.3	11.1	361	0.6	24.3	7.1	1712	2.35	5.0	1.1	2.2	104	1.5	0.2	0.1	43	0.67	0.246	17
964777	Soil	0.9	14.3	11.6	137	0.2	13.7	7.1	1160	2.20	10.5	1.4	0.8	41	0.5	0.4	0.1	50	0.35	0.076	11
964778	Soil	1.0	13.1	7.6	162	<0.1	13.4	7.2	1619	1.91	1.4	0.6	0.9	55	0.6	0.1	<0.1	44	0.37	0.110	7
964779	Soil	0.8	13.9	8.6	196	0.1	11.3	6.3	1146	2.06	1.9	1.3	0.9	36	0.3	0.2	0.1	45	0.26	0.126	8
964780	Soil	0.6	60.6	17.8	351	1.1	43.1	10.1	1690	4.00	7.1	3.3	2.3	89	1.3	0.5	0.3	57	0.82	0.118	27
964781	Soil	0.8	32.8	10.9	164	0.6	21.9	7.1	959	2.73	5.7	2.2	1.3	96	0.6	0.6	0.2	44	0.85	0.080	32
964782	Soil	0.6	49.4	15.4	195	0.9	31.3	9.0	1128	3.83	6.2	1.8	3.4	80	0.9	0.5	0.3	58	0.64	0.056	25
964783	Soil	0.5	7.7	26.4	53	<0.1	8.6	5.7	468	1.86	6.8	1.0	1.2	23	0.1	0.3	0.1	47	0.24	0.042	6
964784	Soil	0.3	7.8	8.6	68	0.1	6.1	3.7	277	1.40	3.3	0.7	1.3	42	0.2	0.2	0.1	34	0.35	0.025	7
964785	Soil	0.6	27.1	15.6	202	0.7	16.9	7.9	837	3.13	6.5	2.0	1.9	70	0.8	0.5	0.2	59	0.64	0.047	13
964786	Soil	0.4	9.6	10.0	75	0.1	8.0	5.1	376	1.76	5.3	2.4	1.3	34	0.2	0.3	0.2	42	0.30	0.040	7
964787	Soil	0.4	19.5	12.2	161	0.4	13.4	5.7	623	2.38	5.5	1.3	0.8	59	0.7	0.3	0.3	46	0.46	0.063	11
964788	Soil	0.6	66.7	9.7	140	1.1	37.4	3.6	147	1.55	3.0	4.0	0.9	230	2.7	0.5	0.2	28	2.15	0.106	46
964789	Soil	0.8	22.4	5.8	101	0.5	13.2	2.8	178	1.30	2.9	6.7	0.7	156	0.4	0.6	1.6	21	1.95	0.079	39
964790	Soil	0.6	38.7	14.8	312	0.6	16.4	6.7	1384	2.37	4.4	<0.5	0.6	108	1.6	0.3	0.4	42	1.31	0.091	20
964791	Soil	0.8	25.2	10.8	217	0.5	13.9	5.8	1183	1.99	3.7	0.6	0.4	94	1.2	0.3	0.3	40	1.01	0.114	18
964792	Soil	0.4	12.2	14.7	107	0.2	10.7	9.5	1148	2.22	7.0	2.1	1.6	36	0.3	0.4	0.1	56	0.39	0.062	12
964793	Soil	0.5	7.3	6.6	70	<0.1	9.3	5.1	224	1.83	5.4	<0.5	0.4	21	<0.1	0.2	<0.1	44	0.21	0.042	5
964794	Soil	0.3	6.8	6.5	36	<0.1	9.6	4.4	207	1.54	2.8	<0.5	1.3	23	<0.1	0.2	<0.1	40	0.23	0.032	6
964795	Soil	0.7	17.5	8.3	102	0.2	17.6	8.9	624	2.49	3.7	0.6	1.4	33	<0.1	0.2	0.1	55	0.30	0.083	8
964796	Soil	0.4	7.9	6.6	58	<0.1	9.0	4.8	437	1.72	2.8	<0.5	0.9	24	<0.1	0.2	<0.1	42	0.25	0.052	6

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964767	Soil	10	0.12	229	0.007	1	1.05	0.006	0.05	<0.1	0.15	0.5	0.1	<0.05	5	<0.5	<0.2
964768	Soil	11	0.21	216	0.011	<1	1.38	0.011	0.04	<0.1	0.07	1.5	0.1	<0.05	3	<0.5	<0.2
964769	Soil	14	0.29	213	0.011	<1	1.90	0.009	0.07	<0.1	0.11	2.9	<0.1	<0.05	4	0.5	<0.2
964770	Soil	14	0.32	126	0.034	<1	1.60	0.009	0.05	<0.1	0.05	2.6	<0.1	<0.05	5	<0.5	<0.2
964771	Soil	14	0.25	135	0.021	<1	1.34	0.008	0.05	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
964772	Soil	13	0.29	99	0.032	<1	0.91	0.010	0.04	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
964773	Soil	12	0.11	261	0.014	<1	1.02	0.008	0.05	0.1	0.08	2.6	<0.1	<0.05	4	<0.5	<0.2
964774	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
964775	Soil	20	0.33	344	0.024	1	2.13	0.008	0.16	<0.1	0.05	5.3	0.3	<0.05	6	<0.5	<0.2
964776	Soil	18	0.27	628	0.052	2	1.61	0.013	0.21	<0.1	<0.01	5.1	0.2	<0.05	5	<0.5	<0.2
964777	Soil	16	0.29	204	0.044	<1	1.23	0.009	0.11	<0.1	0.01	3.3	0.2	<0.05	4	<0.5	<0.2
964778	Soil	15	0.18	353	0.047	<1	1.06	0.007	0.12	<0.1	0.02	2.2	0.1	<0.05	4	<0.5	<0.2
964779	Soil	15	0.23	282	0.051	<1	1.19	0.009	0.08	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
964780	Soil	32	0.53	519	0.028	2	3.32	0.017	0.24	<0.1	0.03	10.5	0.3	<0.05	9	<0.5	<0.2
964781	Soil	22	0.43	355	0.018	2	2.59	0.012	0.11	<0.1	0.07	6.8	0.2	<0.05	6	<0.5	<0.2
964782	Soil	30	0.56	486	0.024	1	3.53	0.017	0.18	<0.1	0.03	9.8	0.3	<0.05	9	<0.5	<0.2
964783	Soil	13	0.24	114	0.054	<1	0.91	0.009	0.06	<0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
964784	Soil	11	0.23	129	0.049	1	0.77	0.012	0.08	<0.1	0.01	2.6	<0.1	<0.05	2	<0.5	<0.2
964785	Soil	22	0.47	337	0.038	1	1.92	0.011	0.16	<0.1	0.02	6.6	0.2	<0.05	6	<0.5	<0.2
964786	Soil	13	0.29	123	0.049	<1	0.88	0.015	0.06	<0.1	0.01	3.2	<0.1	<0.05	3	<0.5	<0.2
964787	Soil	17	0.37	211	0.037	2	1.32	0.011	0.14	<0.1	0.01	4.5	0.1	<0.05	4	<0.5	<0.2
964788	Soil	11	0.40	422	0.011	3	1.13	0.022	0.06	<0.1	0.11	4.8	0.1	0.16	3	<0.5	<0.2
964789	Soil	10	0.41	234	0.011	5	1.06	0.016	0.05	<0.1	0.10	3.4	0.2	0.17	3	<0.5	<0.2
964790	Soil	16	0.34	282	0.026	3	1.49	0.010	0.15	<0.1	0.03	3.9	<0.1	0.07	4	<0.5	<0.2
964791	Soil	15	0.30	255	0.021	2	1.35	0.009	0.12	<0.1	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
964792	Soil	16	0.31	161	0.053	<1	1.17	0.013	0.06	<0.1	0.01	4.2	0.2	<0.05	4	<0.5	<0.2
964793	Soil	13	0.27	125	0.040	<1	1.14	0.011	0.03	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
964794	Soil	13	0.30	130	0.058	<1	1.01	0.013	0.02	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
964795	Soil	23	0.36	207	0.026	<1	2.67	0.013	0.05	<0.1	0.03	4.3	0.1	<0.05	8	<0.5	<0.2
964796	Soil	14	0.26	122	0.043	<1	1.17	0.012	0.04	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
964797	Soil		0.5	6.1	5.7	88	<0.1	13.6	5.6	185	2.08	2.9	2.6	0.8	17	<0.1	0.2	0.4	49	0.16	0.048	5
964798	Soil		0.8	5.7	6.2	78	<0.1	8.1	5.3	1326	1.58	1.8	0.6	0.4	29	0.1	0.2	0.1	40	0.27	0.032	5
964799	Soil		0.5	9.9	6.2	69	0.1	11.5	5.7	834	1.84	3.0	1.5	0.7	30	<0.1	0.2	<0.1	43	0.27	0.035	8
964800	Soil		0.5	10.8	6.0	77	<0.1	12.8	5.9	651	1.91	2.5	<0.5	0.9	26	<0.1	0.2	<0.1	44	0.25	0.034	9
964801	Soil		0.3	9.0	5.7	41	<0.1	10.8	4.6	238	1.86	3.9	<0.5	1.2	24	<0.1	0.2	<0.1	49	0.25	0.041	7
964802	Soil		0.4	9.1	6.8	52	<0.1	12.5	6.5	451	2.16	3.9	<0.5	1.2	24	<0.1	0.3	<0.1	55	0.25	0.036	6
964803	Soil		0.4	9.8	6.7	82	<0.1	12.7	6.7	809	2.01	2.1	<0.5	0.9	34	<0.1	0.2	<0.1	46	0.33	0.036	11
964804	Soil		0.4	12.0	6.4	95	0.1	13.6	6.5	864	2.22	3.1	1.6	0.9	30	0.1	0.2	<0.1	50	0.30	0.040	11
964805	Soil		0.3	9.2	5.6	123	0.1	11.2	5.3	483	1.93	3.1	<0.5	1.0	28	0.2	0.2	<0.1	45	0.26	0.060	7
964806	Soil		0.4	5.9	5.2	63	<0.1	7.8	4.5	305	1.67	2.2	<0.5	0.6	21	<0.1	0.1	<0.1	42	0.20	0.031	5
964807	Soil		0.5	8.3	6.5	57	<0.1	10.4	5.6	264	2.19	4.7	<0.5	0.8	24	0.2	0.2	<0.1	56	0.24	0.054	5
964808	Soil		0.3	8.3	5.4	105	<0.1	12.8	6.2	271	2.19	3.7	<0.5	1.1	16	0.2	0.2	<0.1	51	0.19	0.094	5
964809	Soil		0.3	5.2	5.5	73	<0.1	7.3	3.9	341	1.49	1.8	1.0	0.6	19	<0.1	0.1	<0.1	39	0.21	0.035	5
964810	Soil		0.7	6.3	5.9	89	<0.1	10.3	6.5	741	2.32	3.5	<0.5	1.0	15	0.1	0.2	<0.1	55	0.17	0.103	5
964811	Soil		0.4	6.4	5.0	72	<0.1	7.5	3.7	126	1.75	2.6	<0.5	0.9	23	<0.1	0.2	<0.1	39	0.22	0.116	4
964812	Soil		0.4	10.0	6.1	75	<0.1	11.4	5.8	300	2.44	5.1	1.0	0.9	19	0.2	0.3	<0.1	60	0.21	0.108	4
964813	Soil		0.6	9.1	6.6	53	<0.1	12.4	6.0	263	2.39	5.0	1.0	0.9	19	<0.1	0.2	<0.1	57	0.18	0.062	4
964814	Soil		0.4	7.0	5.6	60	<0.1	10.0	5.4	277	2.18	4.3	<0.5	1.0	14	<0.1	0.2	<0.1	52	0.16	0.111	4
964815	Soil		0.6	6.0	5.8	52	<0.1	7.8	4.9	529	1.98	2.5	1.2	0.6	20	<0.1	0.2	<0.1	46	0.22	0.089	4
964816	Soil		0.6	13.4	7.3	136	<0.1	12.3	7.1	949	2.41	3.0	<0.5	0.7	29	0.4	0.2	<0.1	52	0.34	0.170	7
964817	Soil		0.6	21.0	7.8	105	0.2	12.3	8.2	957	2.23	3.2	4.7	0.4	45	0.6	0.1	<0.1	52	0.53	0.058	6
964818	Soil		0.7	15.4	9.4	281	0.2	15.6	8.5	1471	2.82	4.0	1.2	1.1	34	0.4	0.2	<0.1	56	0.35	0.294	6
964819	Soil		0.4	8.3	6.7	222	0.1	10.8	6.8	1439	2.44	2.4	<0.5	1.0	27	0.2	0.2	<0.1	53	0.29	0.184	5
964820	Soil		0.8	5.6	5.5	75	<0.1	8.7	5.7	466	2.19	2.9	3.7	0.7	18	<0.1	0.2	<0.1	58	0.23	0.021	4
964821	Soil		0.6	6.6	5.8	89	<0.1	11.7	5.8	236	2.54	4.0	<0.5	1.1	12	0.1	0.2	<0.1	61	0.15	0.133	5
964822	Soil		0.2	2.2	4.4	19	<0.1	1.5	0.8	44	0.37	0.5	41.5	<0.1	12	<0.1	<0.1	<0.1	14	0.15	0.018	3
964823	Soil		0.4	5.3	5.4	95	<0.1	9.3	6.0	374	2.21	2.6	0.9	0.7	15	0.1	0.2	<0.1	57	0.20	0.091	4
964824	Soil		0.5	8.5	7.1	70	<0.1	9.4	5.9	1343	1.91	2.7	<0.5	0.3	20	<0.1	0.2	<0.1	46	0.24	0.063	5
964825	Soil		0.9	6.8	5.0	37	<0.1	10.3	5.1	268	2.04	4.1	<0.5	0.7	29	<0.1	0.3	<0.1	51	0.31	0.023	3
964826	Soil		0.4	10.4	6.6	51	0.1	9.6	5.2	454	1.91	3.7	<0.5	0.8	35	0.2	0.3	<0.1	47	0.36	0.036	6

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 13, 2012

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CERTIFICATE OF ANALYSIS

SMI12000177.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964797	Soil	14	0.22	107	0.048	1	1.43	0.009	0.04	<0.1	0.01	2.2	0.1	<0.05	5	<0.5	<0.2
964798	Soil	13	0.21	127	0.045	<1	0.81	0.009	0.06	<0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
964799	Soil	16	0.28	154	0.037	<1	1.36	0.011	0.04	<0.1	0.04	3.0	0.1	<0.05	4	<0.5	<0.2
964800	Soil	16	0.29	130	0.044	<1	1.39	0.012	0.04	<0.1	0.01	3.5	0.1	<0.05	4	<0.5	<0.2
964801	Soil	16	0.30	94	0.064	<1	0.93	0.012	0.03	<0.1	0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
964802	Soil	17	0.34	108	0.068	<1	1.02	0.014	0.04	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
964803	Soil	16	0.31	164	0.046	<1	1.29	0.012	0.05	<0.1	0.02	3.5	0.1	<0.05	4	<0.5	<0.2
964804	Soil	17	0.32	151	0.045	<1	1.38	0.012	0.05	<0.1	<0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
964805	Soil	14	0.29	132	0.049	<1	1.25	0.010	0.05	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
964806	Soil	12	0.21	87	0.048	<1	0.88	0.010	0.03	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
964807	Soil	16	0.27	93	0.061	<1	0.91	0.011	0.06	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
964808	Soil	15	0.28	115	0.053	<1	1.12	0.010	0.04	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
964809	Soil	11	0.22	86	0.056	<1	0.85	0.009	0.04	<0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
964810	Soil	16	0.25	104	0.043	<1	1.11	0.007	0.04	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
964811	Soil	14	0.17	110	0.040	<1	1.02	0.009	0.03	<0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
964812	Soil	17	0.28	104	0.054	<1	1.12	0.008	0.04	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
964813	Soil	17	0.31	137	0.056	<1	1.43	0.009	0.03	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
964814	Soil	15	0.23	102	0.051	<1	1.21	0.008	0.03	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
964815	Soil	14	0.20	115	0.050	<1	0.88	0.008	0.04	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
964816	Soil	17	0.27	200	0.045	<1	1.13	0.010	0.07	<0.1	<0.01	3.3	<0.1	<0.05	4	0.5	<0.2
964817	Soil	17	0.29	151	0.039	<1	1.26	0.010	0.08	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
964818	Soil	21	0.30	264	0.042	<1	1.81	0.008	0.08	<0.1	0.01	4.0	0.1	<0.05	6	<0.5	<0.2
964819	Soil	18	0.24	172	0.053	<1	1.22	0.007	0.08	<0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
964820	Soil	15	0.22	76	0.066	<1	0.91	0.009	0.04	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
964821	Soil	18	0.22	69	0.053	<1	1.30	0.007	0.03	<0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
964822	Soil	4	0.04	55	0.028	<1	0.37	0.008	0.03	<0.1	0.01	0.5	<0.1	<0.05	2	<0.5	<0.2
964823	Soil	16	0.22	100	0.054	<1	0.99	0.009	0.04	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
964824	Soil	14	0.24	143	0.038	<1	1.02	0.008	0.03	<0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
964825	Soil	14	0.31	143	0.049	<1	0.97	0.011	0.03	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
964826	Soil	14	0.32	115	0.056	1	0.86	0.013	0.04	0.1	0.03	3.1	<0.1	<0.05	3	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Quartz Mountain Resources Ltd.**
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CERTIFICATE OF ANALYSIS

SMI12000177.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
964827	Soil	0.6	4.3	5.0	29	<0.1	6.2	4.2	271	1.80	2.0	1.0	0.7	19	<0.1	0.2	<0.1	48	0.20	0.013	3
964828	Soil	0.7	9.4	6.0	66	0.1	10.8	5.9	749	2.38	2.7	0.8	1.3	35	0.1	0.4	<0.1	57	0.41	0.019	6
964829	Soil	0.4	4.2	4.8	29	<0.1	7.3	4.6	267	1.88	2.4	0.7	0.7	26	<0.1	0.2	<0.1	43	0.36	0.026	4
964830	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964831	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964832	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964833	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964834	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964835	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964836	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964837	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964838	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964839	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964840	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964841	Soil	0.2	7.2	5.3	30	<0.1	7.4	3.3	145	1.53	1.9	0.7	0.6	51	<0.1	0.2	<0.1	36	0.50	0.038	5
964842	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964843	Soil	0.5	7.2	5.4	34	<0.1	8.8	5.9	371	1.63	2.3	0.7	0.7	36	<0.1	0.2	<0.1	45	0.35	0.032	5
964844	Soil	0.7	8.2	5.5	42	<0.1	11.1	6.6	323	2.34	4.7	2.0	1.0	12	<0.1	0.2	<0.1	55	0.15	0.084	4
964845	Soil	0.9	5.6	5.4	47	0.1	8.4	6.2	221	2.20	3.4	<0.5	0.7	17	<0.1	0.2	<0.1	54	0.17	0.027	4
964846	Soil	0.6	6.8	6.0	91	<0.1	10.3	6.4	801	2.57	2.9	<0.5	0.9	12	<0.1	0.3	<0.1	64	0.16	0.165	4
964847	Soil	0.3	7.6	4.9	58	<0.1	10.7	5.7	547	2.27	3.4	8.0	0.9	10	<0.1	0.2	<0.1	55	0.14	0.093	4
964848	Soil	0.5	7.8	5.8	74	<0.1	10.4	5.7	516	2.18	2.9	<0.5	1.0	11	<0.1	0.2	<0.1	52	0.13	0.096	4
964849	Soil	0.5	5.5	5.4	77	0.1	10.4	5.7	434	2.35	2.7	0.7	0.9	11	<0.1	0.2	<0.1	57	0.13	0.120	4
964850	Soil	0.4	9.9	5.4	52	<0.1	11.8	5.8	360	2.32	4.2	1.4	1.2	12	<0.1	0.2	<0.1	54	0.14	0.089	4
964851	Soil	0.4	8.2	4.9	54	<0.1	11.3	5.7	231	2.12	3.4	19.9	1.1	14	<0.1	0.3	<0.1	47	0.15	0.118	4
964852	Soil	0.6	5.6	5.3	81	<0.1	9.6	5.4	450	2.15	2.8	0.6	1.1	11	<0.1	0.2	<0.1	49	0.13	0.187	4
964853	Soil	0.4	7.1	6.4	109	<0.1	11.1	5.3	244	2.05	2.2	0.8	1.2	16	0.1	0.2	0.1	44	0.17	0.165	5
964854	Soil	0.5	6.3	5.6	94	<0.1	9.7	5.6	686	2.07	2.2	<0.5	0.6	15	0.1	0.3	<0.1	48	0.17	0.103	4
964855	Soil	0.6	12.2	7.4	112	0.2	17.1	7.2	202	3.05	3.8	4.5	1.9	21	<0.1	0.2	0.1	62	0.19	0.275	6
964856	Soil	0.4	8.4	5.0	83	<0.1	11.7	5.8	643	2.26	2.7	0.8	0.9	11	0.1	0.2	<0.1	54	0.13	0.085	4

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964827	Soil			11	0.24	79	0.054	1	0.81	0.012	0.03	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
964828	Soil			18	0.35	131	0.063	2	1.27	0.014	0.04	0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
964829	Soil			14	0.36	73	0.053	<1	0.89	0.015	0.03	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
964830	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964831	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964832	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964833	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964834	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964835	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964836	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964837	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964838	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964839	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964840	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964841	Soil			13	0.22	126	0.039	1	0.97	0.009	0.10	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
964842	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964843	Soil			14	0.33	107	0.041	<1	0.96	0.014	0.02	<0.1	0.02	3.2	<0.1	<0.05	3	<0.5	<0.2
964844	Soil			15	0.36	84	0.053	<1	1.19	0.008	0.03	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
964845	Soil			15	0.27	98	0.051	<1	1.13	0.009	0.03	0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
964846	Soil			17	0.27	88	0.050	<1	1.09	0.010	0.03	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
964847	Soil			15	0.31	73	0.047	<1	1.10	0.007	0.03	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
964848	Soil			15	0.28	95	0.048	<1	1.17	0.007	0.03	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
964849	Soil			16	0.28	90	0.045	2	1.20	0.007	0.03	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
964850	Soil			17	0.34	87	0.046	<1	1.22	0.008	0.03	0.1	0.01	3.3	<0.1	<0.05	3	<0.5	<0.2
964851	Soil			16	0.31	90	0.047	<1	1.28	0.008	0.03	0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
964852	Soil			14	0.24	80	0.044	1	1.11	0.007	0.04	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
964853	Soil			15	0.22	132	0.044	<1	1.26	0.009	0.05	0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
964854	Soil			15	0.25	135	0.046	1	0.99	0.010	0.04	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
964855	Soil			21	0.28	188	0.046	<1	2.03	0.010	0.05	0.2	0.03	4.0	<0.1	<0.05	6	<0.5	<0.2
964856	Soil			16	0.30	82	0.051	<1	1.13	0.008	0.03	0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 13, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
964857	Soil	0.7	36.4	9.5	105	0.2	25.7	11.9	739	3.09	8.4	1.4	1.3	57	0.2	0.5	0.2	61	0.75	0.096	9
964858	Soil	1.4	43.9	9.6	180	0.3	28.9	13.0	1013	3.13	4.0	<0.5	0.9	74	0.8	0.4	0.2	53	0.84	0.222	9
964859	Soil	0.8	29.5	6.7	226	0.2	19.4	9.1	856	2.56	3.7	<0.5	0.7	50	0.8	0.4	0.1	51	0.51	0.172	8
964860	Soil	1.1	43.4	11.0	99	0.2	34.7	14.7	833	3.46	10.5	1.1	1.3	72	0.4	0.7	0.2	64	0.93	0.076	9
964861	Soil	0.8	43.4	9.2	146	0.2	26.7	11.8	937	2.90	6.4	1.4	0.8	75	0.7	0.5	0.2	54	1.07	0.083	8
964862	Soil	1.2	44.7	7.6	170	0.2	23.6	10.4	897	2.64	5.2	0.7	0.6	55	0.9	0.3	0.1	49	0.92	0.071	7
964863	Soil	1.4	40.5	7.0	119	0.2	22.6	10.0	860	2.64	5.7	0.5	0.7	47	0.7	0.3	0.1	54	0.78	0.051	7
964864	Soil	0.9	82.9	7.9	144	0.6	51.3	10.6	672	3.34	7.7	<0.5	0.8	103	0.9	0.7	0.2	54	1.27	0.174	18
964865	Soil	1.0	44.0	8.1	149	0.3	29.5	10.6	889	2.78	5.9	1.0	0.5	72	0.5	0.5	0.1	51	0.98	0.148	9
964866	Soil	0.6	33.8	5.2	175	0.2	19.5	6.3	567	2.14	2.0	<0.5	0.3	48	0.7	0.2	0.1	39	0.69	0.155	7
964867	Soil	0.6	32.2	6.2	96	0.1	18.5	8.1	759	2.28	3.9	<0.5	0.4	48	0.6	0.3	0.1	49	0.59	0.092	6
964868	Soil	0.8	44.7	9.0	154	0.2	25.6	12.3	1026	2.93	7.0	<0.5	0.7	79	0.9	0.5	0.2	57	0.87	0.092	7
964869	Soil	0.9	28.0	9.6	142	0.1	23.1	12.3	1078	3.19	7.4	2.7	0.9	40	0.5	0.5	0.2	64	0.30	0.104	9
964870	Soil	1.9	31.9	10.6	109	0.1	22.2	12.9	884	3.02	7.8	0.8	0.8	62	0.4	0.6	0.2	60	0.57	0.053	7
964871	Soil	1.1	52.6	12.4	105	0.2	37.0	17.2	1006	3.86	12.0	2.0	1.9	62	0.2	0.9	0.2	71	0.60	0.065	10
964872	Soil	0.9	27.9	7.1	71	0.1	20.5	8.4	711	2.47	5.5	<0.5	0.4	39	0.4	0.4	0.1	51	0.31	0.058	8
964873	Soil	0.8	20.5	5.8	62	0.1	16.3	7.6	663	2.33	3.8	1.2	0.5	41	0.2	0.3	0.2	53	0.40	0.039	9
964874	Soil	0.4	6.5	3.9	93	0.1	11.6	5.4	481	1.77	1.5	9.2	0.6	16	0.1	0.2	<0.1	43	0.21	0.056	5
964875	Soil	0.4	5.7	4.0	88	<0.1	9.2	4.8	376	1.64	1.3	1.6	0.5	15	<0.1	0.2	<0.1	40	0.20	0.047	5
964876	Soil	1.1	18.3	6.4	63	0.2	17.6	8.0	784	2.42	4.1	1.1	0.4	44	0.2	0.3	0.1	54	0.41	0.041	8
964877	Soil	0.5	16.3	6.1	68	<0.1	17.4	9.0	658	2.58	5.4	1.5	0.9	26	0.1	0.4	<0.1	59	0.33	0.049	9
964878	Soil	0.4	22.2	6.5	149	0.2	18.9	9.4	834	2.62	4.2	<0.5	0.5	46	0.5	0.3	0.2	56	0.56	0.112	8
964879	Soil	0.7	28.3	7.9	99	0.1	25.0	11.9	1114	2.86	7.0	1.1	0.7	48	0.5	0.4	0.1	60	0.48	0.043	8
964880	Soil	0.6	25.4	6.3	113	0.1	21.5	9.6	1021	2.31	4.7	0.8	0.2	70	0.5	0.4	0.1	48	0.85	0.115	7
964881	Soil	0.8	31.0	7.2	108	0.2	24.9	10.3	830	2.71	7.8	1.1	0.4	62	0.3	0.5	0.1	55	0.72	0.083	8
964882	Soil	0.7	26.3	6.0	180	0.2	20.6	8.3	1533	2.08	3.0	0.7	0.1	93	1.1	0.2	<0.1	42	0.97	0.173	7
964883	Soil	0.6	24.9	6.1	277	0.3	20.6	8.7	1649	2.32	1.5	9.6	0.6	43	0.8	0.2	<0.1	46	0.48	0.217	8
964884	Soil	0.5	21.7	7.3	99	0.1	23.9	10.8	731	2.86	6.5	1.1	0.7	36	0.2	0.4	<0.1	61	0.46	0.070	11
964885	Soil	0.5	18.4	6.2	81	<0.1	17.0	8.9	775	2.43	5.5	0.7	0.4	41	0.3	0.4	<0.1	57	0.53	0.057	7
964886	Soil	0.5	27.2	5.9	111	0.2	25.9	9.5	1075	2.67	4.7	0.5	0.7	35	0.2	0.3	<0.1	58	0.39	0.076	16

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964857	Soil	27	0.72	183	0.047	2	1.64	0.013	0.20	0.1	0.03	6.2	<0.1	<0.05	5	<0.5	<0.2
964858	Soil	30	0.69	358	0.038	2	1.78	0.012	0.29	0.1	0.02	6.0	<0.1	<0.05	5	<0.5	<0.2
964859	Soil	21	0.45	337	0.042	2	1.24	0.011	0.14	0.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
964860	Soil	34	0.83	219	0.033	3	1.89	0.018	0.18	<0.1	0.05	6.9	<0.1	<0.05	6	<0.5	<0.2
964861	Soil	25	0.65	266	0.034	4	1.53	0.015	0.23	0.1	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
964862	Soil	22	0.55	251	0.041	3	1.37	0.011	0.22	<0.1	0.02	4.6	<0.1	<0.05	4	<0.5	<0.2
964863	Soil	22	0.54	192	0.046	4	1.31	0.011	0.22	<0.1	0.02	4.7	<0.1	<0.05	4	<0.5	<0.2
964864	Soil	31	0.76	339	0.015	3	2.45	0.013	0.26	0.1	0.06	7.2	<0.1	<0.05	6	<0.5	<0.2
964865	Soil	24	0.61	240	0.026	3	1.62	0.012	0.20	0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
964866	Soil	19	0.43	280	0.033	2	1.29	0.010	0.16	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
964867	Soil	20	0.45	184	0.037	1	1.13	0.011	0.13	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
964868	Soil	24	0.70	270	0.030	2	1.61	0.015	0.16	0.1	0.04	5.1	<0.1	<0.05	5	<0.5	<0.2
964869	Soil	25	0.62	203	0.045	1	1.91	0.010	0.11	0.1	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2
964870	Soil	26	0.73	194	0.042	<1	1.56	0.014	0.14	<0.1	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
964871	Soil	33	0.98	281	0.034	2	2.11	0.031	0.15	<0.1	0.05	8.6	<0.1	<0.05	7	<0.5	<0.2
964872	Soil	21	0.54	176	0.029	<1	1.51	0.011	0.11	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
964873	Soil	20	0.45	181	0.032	2	1.36	0.013	0.09	0.1	0.01	4.1	<0.1	<0.05	5	0.6	<0.2
964874	Soil	14	0.32	124	0.049	1	0.94	0.008	0.04	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
964875	Soil	13	0.28	109	0.041	<1	1.01	0.007	0.03	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
964876	Soil	20	0.45	221	0.029	1	1.58	0.008	0.06	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
964877	Soil	21	0.44	123	0.057	<1	1.13	0.011	0.11	0.1	0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
964878	Soil	21	0.43	216	0.038	2	1.39	0.013	0.11	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
964879	Soil	24	0.56	190	0.045	2	1.50	0.012	0.15	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
964880	Soil	20	0.45	237	0.020	2	1.33	0.007	0.12	<0.1	0.04	2.4	<0.1	<0.05	4	<0.5	<0.2
964881	Soil	24	0.57	201	0.024	2	1.42	0.010	0.16	<0.1	0.05	4.6	<0.1	<0.05	4	<0.5	<0.2
964882	Soil	16	0.35	310	0.022	2	1.03	0.006	0.10	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
964883	Soil	20	0.34	406	0.037	3	1.26	0.008	0.11	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
964884	Soil	24	0.63	131	0.052	2	1.55	0.016	0.11	0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
964885	Soil	19	0.42	135	0.047	2	1.04	0.010	0.10	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
964886	Soil	23	0.46	201	0.041	2	1.55	0.012	0.11	<0.1	0.02	6.0	<0.1	<0.05	5	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
964887	Soil		0.4	7.6	4.5	68	<0.1	12.2	6.5	451	2.22	3.1	<0.5	0.8	23	0.1	0.3	<0.1	53	0.28	0.067	5
964888	Soil		0.8	23.0	6.3	94	0.1	26.9	11.2	1736	2.73	4.9	<0.5	0.5	49	0.3	0.4	<0.1	59	0.54	0.054	17
964889	Soil		0.6	34.0	5.8	175	0.2	28.4	9.7	2090	2.49	3.1	2.4	0.3	53	0.5	0.3	<0.1	50	0.60	0.113	19
964890	Soil		0.5	23.0	5.3	125	0.1	20.2	8.0	1062	2.27	3.3	<0.5	0.3	61	0.5	0.3	<0.1	50	0.71	0.165	8
964891	Soil		0.6	19.1	6.2	68	<0.1	21.9	9.3	1252	2.50	4.5	<0.5	0.3	46	0.2	0.3	<0.1	58	0.52	0.049	8
964892	Soil		0.6	25.2	5.1	85	0.2	16.2	8.0	1005	2.27	3.1	<0.5	0.2	47	0.5	0.2	<0.1	52	0.72	0.098	7
964893	Soil		0.9	26.0	6.1	154	0.2	19.5	9.7	1895	2.65	3.0	<0.5	0.3	55	0.5	0.2	<0.1	55	0.72	0.148	12
964894	Soil		0.5	7.5	4.7	70	<0.1	11.3	6.6	529	2.26	2.2	<0.5	0.5	23	<0.1	0.2	<0.1	56	0.30	0.084	5
964895	Soil		0.5	9.9	4.1	69	0.1	19.0	12.1	444	2.76	2.6	1.0	0.6	25	<0.1	0.2	<0.1	76	0.33	0.061	5
964896	Soil		0.5	6.5	4.4	90	0.2	11.2	6.1	613	2.03	1.8	<0.5	0.8	15	0.1	0.2	<0.1	49	0.23	0.147	5
964897	Soil		0.2	6.3	5.0	75	0.1	10.7	3.9	185	1.44	1.3	<0.5	0.7	14	<0.1	0.1	<0.1	36	0.21	0.077	6
964898	Soil		0.5	6.3	4.1	79	<0.1	12.9	6.0	327	1.94	2.1	1.0	0.9	13	<0.1	0.2	<0.1	45	0.19	0.125	6
964899	Soil		0.5	7.0	4.5	74	<0.1	11.6	6.0	642	1.87	2.1	<0.5	0.7	18	<0.1	0.2	<0.1	43	0.24	0.110	5
964900	Soil		0.6	15.5	5.6	50	<0.1	19.6	8.2	543	2.62	5.8	0.9	1.1	22	0.1	0.4	<0.1	63	0.30	0.039	8
964901	Soil		0.4	5.8	4.0	60	<0.1	9.0	5.6	447	1.61	1.5	<0.5	0.7	16	<0.1	0.2	<0.1	41	0.21	0.031	6
964902	Soil		0.5	11.4	4.2	66	<0.1	14.6	6.3	419	1.98	2.7	0.5	0.9	22	<0.1	0.2	<0.1	48	0.26	0.046	8
964903	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964904	Soil		0.7	7.0	5.6	74	0.2	13.9	7.8	497	2.47	4.4	460.3	0.7	14	0.1	0.3	<0.1	61	0.23	0.089	5
964905	Soil		0.6	9.8	6.3	69	0.1	12.4	6.8	545	2.18	4.5	1.0	0.9	18	<0.1	0.3	<0.1	54	0.25	0.108	7
964906	Soil		0.7	10.3	5.2	50	<0.1	13.3	7.5	497	2.27	3.9	0.6	0.4	33	<0.1	0.3	<0.1	57	0.36	0.036	9
964907	Soil		1.1	9.1	7.2	207	0.2	11.5	8.4	1382	2.35	2.5	<0.5	0.4	24	0.3	0.3	<0.1	52	0.32	0.218	6
964908	Soil		0.6	15.9	5.9	60	<0.1	18.4	8.8	546	2.78	6.6	8.1	1.0	23	<0.1	0.4	<0.1	65	0.32	0.044	8
964909	Soil		0.8	12.9	6.7	114	0.1	14.0	8.8	1354	2.44	3.1	<0.5	0.4	39	0.4	0.3	<0.1	56	0.49	0.123	6
964910	Soil		0.8	9.2	6.8	102	0.1	10.0	7.7	1590	2.27	2.2	<0.5	0.3	36	0.2	0.2	0.1	45	0.40	0.125	5
964911	Soil		0.5	20.2	6.9	96	<0.1	18.5	8.8	815	2.55	5.2	<0.5	0.7	45	0.3	0.4	0.1	52	0.48	0.075	7
964912	Soil		0.6	24.6	6.7	128	0.1	20.7	8.7	901	2.64	5.6	0.7	0.6	44	0.4	0.4	0.1	54	0.54	0.092	8
964913	Soil		0.7	10.1	6.8	55	<0.1	15.7	8.8	692	2.76	4.5	<0.5	0.6	26	<0.1	0.4	0.1	61	0.24	0.021	6
964914	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964915	Soil		0.6	14.5	5.6	92	0.1	14.4	6.6	811	2.18	3.0	<0.5	0.5	64	0.4	0.3	<0.1	44	0.68	0.131	6
964916	Soil		0.7	15.2	6.0	80	0.1	16.5	7.5	1276	2.36	3.4	1.1	0.5	47	0.2	0.3	<0.1	49	0.60	0.077	6

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 13, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
964887	Soil	17	0.33	135	0.054	2	0.93	0.009	0.07	<0.1	<0.01	3.3	<0.1	<0.05	3	<0.5	<0.2
964888	Soil	22	0.49	246	0.039	2	1.62	0.012	0.10	<0.1	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
964889	Soil	22	0.41	351	0.029	2	1.71	0.009	0.18	<0.1	0.02	4.2	0.1	<0.05	5	<0.5	<0.2
964890	Soil	20	0.43	260	0.037	3	1.32	0.009	0.16	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
964891	Soil	21	0.47	189	0.042	1	1.37	0.009	0.08	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
964892	Soil	17	0.33	182	0.038	3	0.93	0.009	0.13	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
964893	Soil	21	0.40	314	0.029	3	1.62	0.008	0.11	<0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
964894	Soil	18	0.34	115	0.050	2	0.98	0.008	0.06	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
964895	Soil	23	0.81	113	0.078	1	1.54	0.026	0.05	<0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
964896	Soil	16	0.30	146	0.045	1	1.15	0.008	0.06	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
964897	Soil	13	0.28	96	0.044	<1	1.16	0.008	0.04	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
964898	Soil	16	0.26	103	0.046	<1	1.22	0.007	0.04	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
964899	Soil	15	0.26	123	0.044	1	1.16	0.007	0.04	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
964900	Soil	24	0.52	118	0.076	<1	1.30	0.013	0.06	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
964901	Soil	13	0.25	86	0.057	<1	0.93	0.008	0.03	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
964902	Soil	18	0.38	113	0.061	1	1.28	0.010	0.05	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
964903	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964904	Soil	18	0.33	130	0.047	2	1.37	0.009	0.05	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
964905	Soil	18	0.29	126	0.046	1	1.14	0.008	0.06	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
964906	Soil	18	0.38	132	0.048	1	1.07	0.009	0.06	<0.1	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
964907	Soil	18	0.30	311	0.037	3	1.31	0.007	0.08	<0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
964908	Soil	21	0.48	108	0.062	1	1.35	0.014	0.06	<0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
964909	Soil	17	0.34	197	0.044	2	1.14	0.007	0.08	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
964910	Soil	14	0.29	203	0.040	2	0.93	0.008	0.06	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
964911	Soil	20	0.40	188	0.043	2	1.15	0.009	0.09	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
964912	Soil	21	0.46	189	0.043	2	1.26	0.008	0.10	<0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
964913	Soil	21	0.41	162	0.049	1	1.29	0.010	0.06	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
964914	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964915	Soil	16	0.30	236	0.042	3	0.99	0.007	0.11	<0.1	0.03	3.1	<0.1	<0.05	3	<0.5	<0.2
964916	Soil	18	0.40	190	0.044	2	1.11	0.008	0.11	<0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		
964917	Soil	0.6	9.2	4.7	119	0.1	13.7	5.5	908	2.09	1.4	1.2	0.9	36	0.4	0.3	<0.1	44	0.43	0.148	7
964918	Soil	0.5	20.7	6.0	168	0.2	18.4	7.5	952	2.28	3.0	0.5	0.8	58	1.0	0.4	<0.1	46	0.80	0.093	7
964919	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964920	Soil	0.5	8.2	5.5	50	<0.1	13.6	7.0	621	2.24	3.9	2.0	0.8	27	<0.1	0.4	<0.1	53	0.30	0.020	5
964921	Soil	0.6	6.9	4.8	99	<0.1	11.4	5.5	768	1.92	1.8	1.0	0.6	18	0.1	0.2	<0.1	42	0.22	0.060	5
964922	Soil	0.4	7.8	4.9	97	<0.1	15.9	6.2	497	2.20	2.5	<0.5	0.9	19	0.1	0.2	<0.1	48	0.25	0.097	5
964923	Soil	0.8	6.5	5.9	69	<0.1	10.9	6.9	404	2.64	4.8	1.7	0.8	16	<0.1	0.3	<0.1	62	0.19	0.132	5
964924	Soil	0.8	14.5	6.8	61	<0.1	19.1	9.4	1205	2.66	4.2	<0.5	0.6	47	0.1	0.3	0.1	57	0.43	0.033	7
964925	Soil	0.7	18.2	7.2	77	0.1	19.1	9.1	1337	2.53	5.0	<0.5	0.4	56	0.4	0.3	0.1	53	0.61	0.063	7
964926	Soil	0.7	18.9	7.1	74	<0.1	24.0	10.8	858	2.86	8.3	0.7	0.8	36	0.1	0.8	0.1	59	0.43	0.081	9
964927	Soil	0.5	20.9	5.9	291	0.1	22.7	7.1	1532	2.23	2.3	<0.5	0.7	93	0.6	0.3	<0.1	43	0.95	0.272	8
964928	Soil	0.7	14.1	5.5	123	0.1	20.1	6.5	1192	2.23	3.3	<0.5	0.6	40	0.2	0.4	<0.1	46	0.45	0.066	14
965293	Soil	1.5	8.2	19.9	85	0.4	9.0	6.4	426	3.17	11.8	2.1	2.4	9	0.2	0.5	0.5	58	0.12	0.327	9
965294	Soil	0.6	3.5	7.6	29	0.1	2.1	1.2	113	1.25	2.1	1.6	1.2	7	<0.1	0.2	0.3	30	0.05	0.047	10
965295	Soil	0.8	3.2	7.8	25	<0.1	2.7	1.4	87	1.13	1.6	<0.5	1.2	7	<0.1	0.3	0.2	31	0.05	0.012	11
965296	Soil	0.3	1.7	4.9	17	<0.1	1.3	0.6	47	0.63	0.5	<0.5	1.1	5	<0.1	0.1	0.2	18	0.05	0.011	9
965297	Soil	1.4	13.2	14.9	55	<0.1	10.3	7.2	512	2.28	5.4	1.4	2.1	22	<0.1	0.4	0.3	48	0.19	0.056	16
965298	Soil	1.0	15.0	12.0	66	<0.1	11.3	6.6	463	2.39	6.3	23.9	1.7	24	0.1	0.5	0.2	52	0.26	0.046	13
965299	Soil	1.0	17.2	12.6	74	0.6	10.9	6.3	798	2.06	6.1	1.3	0.4	44	0.4	0.3	0.3	41	0.37	0.094	22
965300	Soil	1.7	11.2	15.6	95	0.1	8.8	4.9	811	2.01	4.5	0.5	0.3	22	1.3	0.4	0.2	43	0.19	0.064	11
965301	Soil	0.4	5.6	6.4	43	<0.1	7.0	4.1	283	1.58	2.0	50.2	0.7	21	<0.1	0.2	<0.1	39	0.21	0.042	5
965302	Soil	0.4	15.2	10.0	69	0.2	9.4	4.7	253	1.38	2.1	1.2	0.9	44	0.3	0.2	0.1	32	0.49	0.053	12
965303	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965304	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965305	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965306	Soil	0.8	19.1	12.6	113	0.2	14.2	8.6	977	2.67	6.6	0.7	0.9	46	0.5	0.5	0.1	58	0.52	0.103	12
965307	Soil	0.7	17.6	13.7	104	0.2	12.5	7.8	796	2.69	6.9	1.2	0.9	47	0.3	0.4	0.2	58	0.50	0.087	13
965308	Soil	0.8	21.5	9.9	79	0.2	20.2	8.5	638	2.84	9.8	1.0	1.9	55	0.2	0.5	0.1	60	0.59	0.086	17
965309	Soil	0.4	17.1	8.1	193	0.2	12.6	6.8	1459	2.17	1.9	3.9	0.6	60	0.6	0.2	0.1	44	0.59	0.163	9
965310	Soil	0.8	17.5	9.1	267	0.2	11.9	7.1	2005	2.27	2.2	2.5	0.8	48	0.9	0.2	0.1	47	0.43	0.134	8

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

www.acmelab.com

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964917	Soil	17	0.26	258	0.056	2	0.85	0.009	0.13	0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
964918	Soil	18	0.32	250	0.046	4	0.98	0.008	0.14	0.1	0.02	3.8	<0.1	<0.05	3	<0.5	<0.2
964919	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964920	Soil	17	0.28	112	0.066	1	0.87	0.009	0.08	<0.1	0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
964921	Soil	15	0.28	142	0.048	1	1.05	0.008	0.04	<0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
964922	Soil	17	0.33	109	0.059	1	1.14	0.008	0.06	0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
964923	Soil	19	0.27	103	0.049	<1	1.11	0.008	0.05	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
964924	Soil	21	0.43	248	0.049	1	1.35	0.010	0.08	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
964925	Soil	20	0.44	191	0.045	2	1.31	0.009	0.10	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
964926	Soil	23	0.49	121	0.051	2	1.32	0.009	0.14	<0.1	0.03	4.6	0.2	<0.05	4	<0.5	<0.2
964927	Soil	17	0.31	346	0.041	4	1.12	0.008	0.11	<0.1	0.02	3.1	<0.1	0.05	4	<0.5	<0.2
964928	Soil	18	0.36	213	0.045	1	1.31	0.011	0.07	<0.1	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
965293	Soil	22	0.26	83	0.026	<1	1.99	0.007	0.06	0.1	0.05	2.6	0.1	<0.05	6	<0.5	<0.2
965294	Soil	10	0.05	44	0.024	<1	0.57	0.007	0.03	<0.1	0.02	0.8	0.1	<0.05	5	<0.5	<0.2
965295	Soil	11	0.06	54	0.029	<1	0.45	0.007	0.03	0.1	0.01	0.9	<0.1	<0.05	3	<0.5	<0.2
965296	Soil	6	0.03	27	0.022	<1	0.35	0.007	0.03	<0.1	0.02	0.6	<0.1	<0.05	3	<0.5	<0.2
965297	Soil	17	0.33	103	0.041	<1	1.01	0.012	0.06	<0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
965298	Soil	20	0.35	161	0.048	<1	0.97	0.013	0.07	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
965299	Soil	16	0.35	225	0.017	<1	1.30	0.014	0.07	<0.1	0.06	2.1	<0.1	<0.05	4	<0.5	<0.2
965300	Soil	17	0.21	165	0.019	<1	0.96	0.011	0.06	0.1	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
965301	Soil	13	0.20	78	0.057	<1	0.92	0.012	0.03	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
965302	Soil	17	0.29	103	0.037	1	1.33	0.018	0.06	<0.1	0.07	5.1	0.2	0.11	4	<0.5	<0.2
965303	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965304	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965305	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965306	Soil	21	0.40	163	0.049	1	1.18	0.012	0.13	<0.1	0.02	4.3	0.1	<0.05	4	<0.5	<0.2
965307	Soil	21	0.41	152	0.044	2	1.37	0.013	0.11	<0.1	0.02	5.0	0.1	<0.05	4	<0.5	<0.2
965308	Soil	25	0.48	179	0.057	<1	1.47	0.023	0.09	<0.1	0.02	6.2	0.2	<0.05	4	<0.5	<0.2
965309	Soil	17	0.26	323	0.051	2	1.15	0.010	0.10	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
965310	Soil	18	0.24	362	0.060	2	1.17	0.009	0.13	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 13, 2012

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CERTIFICATE OF ANALYSIS

SMI12000177.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
965311	Soil	1.1	22.5	11.7	167	0.3	14.1	8.0	1983	2.43	2.7	1.0	1.1	50	0.4	0.2	0.1	50	0.47	0.052	10
965312	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965313	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965314	Soil	0.7	16.5	9.8	130	0.2	14.4	6.0	584	2.41	4.3	1.2	1.7	46	0.3	0.4	0.2	54	0.49	0.067	12
965315	Soil	0.7	37.3	10.2	185	0.8	23.3	7.3	508	3.04	3.7	1.1	1.7	112	0.8	0.5	0.2	54	1.18	0.063	25
965316	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965317	Soil	0.5	12.0	7.7	78	0.2	8.8	4.3	314	1.85	2.9	0.5	1.5	36	0.2	0.3	0.1	45	0.37	0.026	9
965318	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965319	Soil	0.6	13.1	8.4	66	0.2	10.4	6.9	573	2.03	2.7	5.6	1.3	28	0.2	0.2	0.1	50	0.32	0.029	9
965320	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965321	Soil	0.8	21.6	12.0	74	0.1	15.4	9.7	893	2.61	8.1	3.2	1.7	34	0.3	0.4	0.2	67	0.44	0.070	11
965322	Soil	0.9	35.0	7.1	114	0.4	30.1	8.8	1188	2.85	3.8	24.4	0.6	54	0.2	0.2	0.1	57	0.48	0.095	26
965323	Soil	0.7	22.7	3.9	218	0.3	16.0	5.4	1571	1.31	1.3	0.6	0.2	225	0.5	0.1	0.1	23	2.63	0.119	14
965324	Soil	0.5	10.7	6.2	52	<0.1	12.1	7.2	621	2.08	4.7	0.8	0.9	27	<0.1	0.2	<0.1	53	0.34	0.051	8
965325	Soil	0.7	16.0	5.8	83	0.1	12.5	6.8	1005	1.86	2.9	<0.5	0.2	50	0.5	0.2	<0.1	46	0.53	0.057	7
965326	Soil	1.0	19.7	7.3	97	0.3	15.6	8.8	1873	2.17	2.5	<0.5	0.2	62	0.4	0.1	<0.1	47	0.57	0.066	10
965327	Soil	0.4	6.1	3.5	40	<0.1	9.6	3.8	193	1.36	1.6	1.1	0.7	20	<0.1	0.1	<0.1	36	0.23	0.026	7
965328	Soil	0.4	7.3	4.6	45	<0.1	10.4	5.9	472	1.78	2.3	0.7	0.8	19	<0.1	0.2	<0.1	45	0.22	0.029	7
965329	Soil	0.3	4.9	2.9	42	<0.1	7.0	3.4	219	1.34	0.9	1.5	0.7	11	<0.1	0.1	<0.1	35	0.14	0.022	4
965330	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965331	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965332	Soil	0.2	3.6	4.9	28	<0.1	6.1	4.5	241	1.37	1.7	3.7	0.8	18	<0.1	0.1	<0.1	41	0.22	0.023	5
965333	Soil	0.4	10.3	6.4	63	0.1	9.7	6.2	264	1.68	2.3	0.7	0.8	24	<0.1	0.1	<0.1	47	0.27	0.065	6
965334	Soil	0.5	5.6	5.6	79	<0.1	10.1	5.8	463	2.12	2.5	<0.5	0.8	10	<0.1	0.2	<0.1	50	0.13	0.134	4
965335	Soil	0.4	3.7	4.5	37	<0.1	6.5	3.4	131	1.68	1.8	<0.5	0.7	9	<0.1	0.1	<0.1	46	0.12	0.044	4
965336	Soil	0.3	4.5	4.1	54	<0.1	8.3	4.3	276	1.62	1.7	<0.5	0.6	15	<0.1	0.1	<0.1	41	0.18	0.045	4
965337	Soil	0.4	5.9	4.8	79	<0.1	11.5	5.4	500	1.89	1.7	<0.5	0.8	20	0.1	0.1	<0.1	49	0.24	0.067	6
965338	Soil	0.4	7.3	4.7	40	<0.1	10.5	4.9	158	1.92	3.4	0.7	0.8	14	<0.1	0.2	<0.1	48	0.16	0.078	4
965339	Soil	0.4	5.4	4.2	48	<0.1	10.7	4.7	244	1.74	2.0	<0.5	0.8	12	<0.1	0.2	<0.1	44	0.18	0.074	5
965340	Soil	0.3	5.9	4.1	91	0.1	8.8	4.1	424	1.51	1.4	0.9	0.6	18	<0.1	0.2	<0.1	37	0.22	0.054	5

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 13, 2012

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CERTIFICATE OF ANALYSIS

SMI12000177.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
965311	Soil	20	0.30	269	0.057	2	1.36	0.017	0.10	<0.1	0.03	4.1	0.1	<0.05	5	<0.5	<0.2
965312	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965313	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965314	Soil	22	0.38	170	0.062	<1	1.28	0.020	0.10	<0.1	0.02	5.8	<0.1	<0.05	4	<0.5	<0.2
965315	Soil	29	0.55	352	0.042	3	2.17	0.022	0.18	<0.1	0.06	7.8	0.2	0.07	6	<0.5	<0.2
965316	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965317	Soil	16	0.28	121	0.062	<1	0.84	0.020	0.08	<0.1	0.02	3.9	<0.1	<0.05	3	<0.5	<0.2
965318	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965319	Soil	16	0.23	132	0.061	<1	0.79	0.012	0.08	<0.1	0.02	3.4	<0.1	<0.05	3	<0.5	<0.2
965320	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965321	Soil	21	0.43	143	0.063	<1	1.05	0.018	0.09	<0.1	<0.01	4.7	0.2	<0.05	3	<0.5	<0.2
965322	Soil	28	0.44	268	0.025	1	2.34	0.015	0.11	<0.1	0.03	6.1	0.1	<0.05	6	<0.5	<0.2
965323	Soil	13	0.24	774	0.012	8	1.02	0.006	0.12	<0.1	0.18	2.2	<0.1	0.13	3	<0.5	<0.2
965324	Soil	16	0.29	100	0.049	1	0.96	0.009	0.08	<0.1	0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
965325	Soil	15	0.24	162	0.034	2	0.85	0.008	0.09	<0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
965326	Soil	18	0.28	234	0.025	2	1.60	0.010	0.07	<0.1	0.04	2.5	0.1	<0.05	5	<0.5	<0.2
965327	Soil	13	0.25	77	0.054	<1	0.75	0.011	0.03	<0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
965328	Soil	15	0.26	91	0.050	<1	0.91	0.009	0.03	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
965329	Soil	11	0.18	68	0.051	<1	0.72	0.008	0.03	<0.1	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
965330	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965331	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965332	Soil	14	0.19	54	0.064	<1	0.71	0.013	0.03	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
965333	Soil	17	0.24	115	0.040	<1	1.33	0.011	0.03	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
965334	Soil	14	0.19	78	0.049	1	1.23	0.007	0.03	0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
965335	Soil	12	0.13	67	0.055	<1	0.75	0.006	0.02	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
965336	Soil	13	0.19	95	0.054	<1	0.80	0.007	0.02	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
965337	Soil	17	0.22	122	0.057	1	1.07	0.009	0.04	<0.1	0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
965338	Soil	15	0.22	111	0.044	<1	1.26	0.007	0.03	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
965339	Soil	14	0.20	101	0.051	<1	1.14	0.007	0.03	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
965340	Soil	13	0.20	101	0.050	1	0.88	0.008	0.04	<0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2

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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS

SMI12000177.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
965341	Soil	0.4	11.4	5.8	72	<0.1	11.9	7.7	694	1.98	3.6	<0.5	0.3	45	0.3	0.2	<0.1	51	0.58	0.057	5
965342	Soil	0.5	14.3	4.7	79	0.1	13.0	5.9	846	1.84	2.8	<0.5	0.2	49	0.3	0.2	<0.1	47	0.60	0.073	6
965343	Soil	0.7	18.8	6.7	70	<0.1	17.3	8.5	790	2.38	5.0	1.1	0.5	41	0.3	0.3	<0.1	60	0.49	0.062	9
965344	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965345	Soil	0.5	4.0	4.3	25	<0.1	7.3	3.7	173	1.36	1.8	0.6	0.5	21	<0.1	0.1	<0.1	40	0.28	0.018	4
965346	Soil	0.4	8.5	5.2	57	<0.1	11.2	6.0	388	2.45	4.5	<0.5	0.8	12	<0.1	0.2	<0.1	67	0.19	0.096	5
965347	Soil	0.4	9.4	4.6	41	<0.1	12.2	6.2	329	2.26	4.0	<0.5	0.9	12	<0.1	0.2	<0.1	60	0.17	0.045	5
965348	Soil	0.3	6.2	4.1	63	<0.1	10.3	5.2	583	1.80	1.6	<0.5	0.7	11	<0.1	0.2	<0.1	49	0.16	0.050	5
965349	Soil	0.3	6.0	3.9	76	<0.1	9.1	5.0	325	1.82	2.0	<0.5	0.8	12	<0.1	0.2	<0.1	44	0.18	0.088	4



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CERTIFICATE OF ANALYSIS

SMI12000177.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
965341	Soil	16	0.31	115	0.046	1	0.87	0.007	0.06	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
965342	Soil	15	0.32	194	0.035	2	1.03	0.007	0.09	<0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
965343	Soil	22	0.38	158	0.048	2	1.21	0.012	0.07	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
965344	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
965345	Soil	12	0.25	58	0.054	<1	0.77	0.011	0.02	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
965346	Soil	18	0.28	72	0.052	<1	1.17	0.006	0.03	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
965347	Soil	18	0.30	95	0.060	<1	1.02	0.007	0.03	<0.1	0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
965348	Soil	15	0.23	89	0.053	<1	1.07	0.006	0.03	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
965349	Soil	14	0.23	91	0.046	<1	0.97	0.006	0.03	<0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2



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QUALITY CONTROL REPORT

SMI12000177.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.01	0.001
Pulp Duplicates																				
964523	Soil	0.4	14.2	5.0	90	<0.1	14.5	7.0	717	2.25	1.9	<0.5	0.7	24	0.2	0.2	<0.1	55	0.40	0.087
REP 964523	QC	0.4	15.6	5.1	98	<0.1	14.9	7.1	766	2.28	2.1	<0.5	0.7	24	0.2	0.2	<0.1	55	0.39	0.092
964550	Soil	0.3	6.4	4.0	71	<0.1	10.2	5.1	369	1.61	1.8	<0.5	0.6	19	<0.1	0.1	<0.1	42	0.22	0.033
REP 964550	QC	0.3	6.9	4.2	72	<0.1	10.5	5.3	389	1.64	1.7	0.6	0.6	19	<0.1	0.1	<0.1	43	0.22	0.034
964575	Soil	0.4	8.0	5.2	92	<0.1	19.5	8.7	1344	2.12	4.6	<0.5	1.0	17	<0.1	0.4	<0.1	49	0.19	0.101
REP 964575	QC	0.6	8.3	5.2	95	<0.1	20.5	8.8	1359	2.18	4.8	<0.5	1.0	17	<0.1	0.4	<0.1	50	0.19	0.099
964586	Soil	0.6	11.7	5.9	69	<0.1	20.4	7.6	1335	2.21	16.9	4.9	0.5	24	0.1	1.4	<0.1	51	0.20	0.046
REP 964586	QC	0.6	11.2	5.8	73	<0.1	20.3	7.7	1283	2.19	16.6	2.1	0.5	25	0.2	1.4	<0.1	51	0.20	0.045
964787	Soil	0.4	19.5	12.2	161	0.4	13.4	5.7	623	2.38	5.5	1.3	0.8	59	0.7	0.3	0.3	46	0.46	0.063
REP 964787	QC	0.5	19.6	12.3	166	0.4	12.6	5.7	593	2.31	5.8	2.7	0.9	57	0.7	0.3	0.3	48	0.47	0.062
964799	Soil	0.5	9.9	6.2	69	0.1	11.5	5.7	834	1.84	3.0	1.5	0.7	30	<0.1	0.2	<0.1	43	0.27	0.035
REP 964799	QC	0.6	9.6	6.1	69	0.2	10.7	5.4	776	1.76	2.2	1.1	0.8	31	<0.1	0.2	<0.1	41	0.26	0.033
964824	Soil	0.5	8.5	7.1	70	<0.1	9.4	5.9	1343	1.91	2.7	<0.5	0.3	20	<0.1	0.2	<0.1	46	0.24	0.063
REP 964824	QC	0.7	9.1	7.5	72	<0.1	9.1	6.0	1366	1.93	2.9	1.0	0.3	20	<0.1	0.2	<0.1	47	0.23	0.064
964847	Soil	0.3	7.6	4.9	58	<0.1	10.7	5.7	547	2.27	3.4	8.0	0.9	10	<0.1	0.2	<0.1	55	0.14	0.093
REP 964847	QC	0.4	7.1	5.1	58	<0.1	10.2	5.3	526	2.20	3.7	0.9	1.0	10	<0.1	0.2	<0.1	52	0.13	0.092
964872	Soil	0.9	27.9	7.1	71	0.1	20.5	8.4	711	2.47	5.5	<0.5	0.4	39	0.4	0.4	0.1	51	0.31	0.058
REP 964872	QC	0.8	28.2	7.0	70	0.2	20.2	8.6	720	2.45	5.8	1.3	0.4	38	0.3	0.4	0.1	49	0.31	0.063
964883	Soil	0.6	24.9	6.1	277	0.3	20.6	8.7	1649	2.32	1.5	9.6	0.6	43	0.8	0.2	<0.1	46	0.48	0.217
REP 964883	QC	0.5	25.5	5.9	291	0.3	20.9	8.7	1619	2.32	1.6	<0.5	0.5	41	0.9	0.2	<0.1	47	0.49	0.218
964909	Soil	0.8	12.9	6.7	114	0.1	14.0	8.8	1354	2.44	3.1	<0.5	0.4	39	0.4	0.3	<0.1	56	0.49	0.123
REP 964909	QC	0.8	12.6	6.6	113	0.1	14.1	8.8	1370	2.50	2.9	<0.5	0.5	37	0.3	0.3	<0.1	59	0.48	0.118
964922	Soil	0.4	7.8	4.9	97	<0.1	15.9	6.2	497	2.20	2.5	<0.5	0.9	19	0.1	0.2	<0.1	48	0.25	0.097
REP 964922	QC	0.4	7.9	4.8	96	<0.1	16.3	6.1	503	2.22	2.5	0.7	1.0	18	0.1	0.3	<0.1	47	0.24	0.100
965317	Soil	0.5	12.0	7.7	78	0.2	8.8	4.3	314	1.85	2.9	0.5	1.5	36	0.2	0.3	0.1	45	0.37	0.026
REP 965317	QC	0.4	12.7	7.8	82	0.2	9.3	4.6	333	1.96	3.3	25.0	1.6	38	0.2	0.3	0.1	47	0.38	0.027
965339	Soil	0.4	5.4	4.2	48	<0.1	10.7	4.7	244	1.74	2.0	<0.5	0.8	12	<0.1	0.2	<0.1	44	0.18	0.074
REP 965339	QC	0.4	5.4	4.1	49	<0.1	10.8	4.6	253	1.75	2.2	0.8	0.7	12	<0.1	0.2	<0.1	42	0.17	0.081



Acme Analytical Laboratories (Vancouver) Ltd.

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 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
964523	Soil	18	0.29	209	0.049	2	1.03	0.009	0.14	<0.1	0.01	3.5	<0.1	<0.05	3	<0.5	<0.2
REP 964523	QC	19	0.31	210	0.048	2	1.09	0.010	0.15	<0.1	0.01	3.7	<0.1	0.08	4	<0.5	<0.2
964550	Soil	13	0.26	95	0.052	<1	0.98	0.010	0.04	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
REP 964550	QC	14	0.26	98	0.048	<1	0.95	0.010	0.04	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
964575	Soil	17	0.26	168	0.044	<1	1.66	0.009	0.05	<0.1	0.02	2.8	0.1	<0.05	5	<0.5	<0.2
REP 964575	QC	18	0.26	168	0.047	1	1.70	0.008	0.05	<0.1	0.03	2.8	0.1	<0.05	5	<0.5	<0.2
964586	Soil	16	0.26	133	0.040	1	0.99	0.010	0.04	<0.1	0.02	2.7	0.6	<0.05	4	<0.5	<0.2
REP 964586	QC	16	0.26	133	0.039	1	0.99	0.008	0.04	<0.1	0.02	2.6	0.6	<0.05	3	<0.5	<0.2
964787	Soil	17	0.37	211	0.037	2	1.32	0.011	0.14	<0.1	0.01	4.5	0.1	<0.05	4	<0.5	<0.2
REP 964787	QC	16	0.35	222	0.038	1	1.30	0.012	0.14	<0.1	0.01	4.6	0.1	<0.05	4	<0.5	<0.2
964799	Soil	16	0.28	154	0.037	<1	1.36	0.011	0.04	<0.1	0.04	3.0	0.1	<0.05	4	<0.5	<0.2
REP 964799	QC	15	0.26	155	0.036	<1	1.29	0.011	0.04	<0.1	0.01	3.0	0.1	<0.05	4	<0.5	<0.2
964824	Soil	14	0.24	143	0.038	<1	1.02	0.008	0.03	<0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
REP 964824	QC	14	0.24	141	0.040	<1	1.06	0.008	0.03	<0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
964847	Soil	15	0.31	73	0.047	<1	1.10	0.007	0.03	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
REP 964847	QC	15	0.30	70	0.044	<1	1.09	0.006	0.03	<0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
964872	Soil	21	0.54	176	0.029	<1	1.51	0.011	0.11	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
REP 964872	QC	20	0.53	175	0.027	<1	1.49	0.010	0.11	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
964883	Soil	20	0.34	406	0.037	3	1.26	0.008	0.11	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
REP 964883	QC	20	0.36	404	0.040	3	1.31	0.009	0.12	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
964909	Soil	17	0.34	197	0.044	2	1.14	0.007	0.08	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
REP 964909	QC	18	0.34	199	0.044	2	1.15	0.008	0.08	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
964922	Soil	17	0.33	109	0.059	1	1.14	0.008	0.06	0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
REP 964922	QC	17	0.33	108	0.054	1	1.13	0.009	0.06	0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
965317	Soil	16	0.28	121	0.062	<1	0.84	0.020	0.08	<0.1	0.02	3.9	<0.1	<0.05	3	<0.5	<0.2
REP 965317	QC	17	0.29	129	0.065	<1	0.90	0.022	0.08	<0.1	0.02	4.2	<0.1	<0.05	3	<0.5	<0.2
965339	Soil	14	0.20	101	0.051	<1	1.14	0.007	0.03	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
REP 965339	QC	15	0.20	95	0.050	<1	1.16	0.007	0.03	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2

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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Reference Materials																					
STD DS9	Standard	14.2	112.7	128.9	325	1.9	44.3	7.9	627	2.51	25.3	118.4	6.2	75	2.5	5.8	6.6	43	0.78	0.086	14
STD DS9	Standard	13.2	108.1	124.1	311	1.9	39.4	7.2	577	2.34	25.9	116.4	6.6	75	2.6	6.2	7.3	42	0.85	0.081	12
STD DS9	Standard	12.5	112.7	124.9	301	1.8	41.2	7.7	545	2.27	24.0	120.8	6.1	68	2.3	5.0	6.2	42	0.66	0.079	12
STD DS9	Standard	13.6	103.1	119.5	299	1.8	41.2	8.0	569	2.30	24.4	121.8	6.1	64	2.2	5.2	5.6	45	0.72	0.079	13
STD DS9	Standard	13.0	100.4	132.2	313	2.0	42.7	7.9	593	2.36	25.9	122.6	5.4	63	2.2	5.2	5.6	46	0.73	0.082	15
STD DS9	Standard	13.6	99.8	110.1	299	1.9	41.1	7.5	565	2.27	24.4	119.4	5.5	59	2.4	5.0	5.4	44	0.68	0.075	13
STD DS9	Standard	13.6	93.2	105.2	288	1.8	40.2	7.8	570	2.26	21.3	110.5	4.9	56	1.9	4.9	4.5	46	0.71	0.072	11
STD DS9	Standard	14.5	114.2	128.0	336	2.1	43.0	8.0	625	2.47	26.6	147.6	6.4	72	2.4	6.3	5.0	47	0.75	0.087	14
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	0.2	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	6	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 13, 2012

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QUALITY CONTROL REPORT

SMI12000177.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																	
STD DS9	Standard	136	0.65	313	0.118	3	0.95	0.086	0.37	3.2	0.22	2.6	5.8	0.19	5	5.9	5.3
STD DS9	Standard	125	0.67	304	0.113	3	0.92	0.088	0.36	3.0	0.21	2.6	5.5	0.14	4	5.5	5.3
STD DS9	Standard	119	0.59	287	0.105	2	0.85	0.081	0.35	2.8	0.21	2.3	5.3	<0.05	4	5.2	5.1
STD DS9	Standard	126	0.62	290	0.111	2	0.91	0.084	0.36	3.1	0.20	2.5	5.5	0.13	5	4.7	4.9
STD DS9	Standard	130	0.64	293	0.107	3	0.96	0.091	0.37	3.0	0.20	2.4	5.8	0.17	5	5.7	5.5
STD DS9	Standard	128	0.62	287	0.107	3	0.89	0.081	0.37	3.0	0.19	2.0	5.5	0.09	5	5.6	5.0
STD DS9	Standard	124	0.61	291	0.104	3	0.87	0.081	0.36	3.0	0.20	2.2	5.5	0.10	5	5.4	5.2
STD DS9	Standard	132	0.68	317	0.116	2	0.99	0.084	0.38	3.2	0.24	2.4	6.4	0.10	5	5.5	5.6
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: August 03, 2012

Report Date: August 15, 2012

Page: 1 of 6

CERTIFICATE OF ANALYSIS

SMI12000178.1

CLIENT JOB INFORMATION

Project: KARMA
Shipment ID: KARM_SSN12-05_Aug031
P.O. Number: KARMA05
Number of Samples: 121

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	118	Dry at 60C			SMI
SS80	118	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	118	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC:



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 15, 2012

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CERTIFICATE OF ANALYSIS

SMI12000178.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
964588	Soil	0.5	3.7	11.2	48	0.1	2.8	1.6	131	1.37	1.4	1.9	2.0	9	0.1	0.2	0.3	33	0.08	0.088	8
964589	Soil	0.5	6.9	6.0	91	<0.1	9.5	5.2	745	1.94	2.0	0.7	1.0	10	<0.1	0.2	<0.1	45	0.13	0.065	5
964590	Soil	0.4	6.3	6.1	93	<0.1	10.0	5.8	833	2.08	2.4	<0.5	1.1	13	0.1	0.2	<0.1	49	0.17	0.104	5
964591	Soil	0.3	6.4	6.0	95	<0.1	10.6	5.9	757	2.17	2.8	3.2	1.1	15	0.1	0.2	<0.1	51	0.18	0.117	5
964592	Soil	0.6	7.9	6.2	61	0.1	9.9	5.3	336	2.07	3.0	42.8	0.5	17	0.1	0.2	<0.1	51	0.17	0.063	4
964593	Soil	0.6	24.8	6.9	50	0.2	14.0	6.0	516	2.13	3.6	0.8	1.1	49	0.1	0.3	<0.1	45	0.54	0.028	13
964594	Soil	0.5	7.7	6.0	82	0.2	10.9	5.6	957	2.06	1.5	2.8	0.8	30	0.1	0.2	<0.1	44	0.33	0.082	5
964595	Soil	0.4	5.3	6.1	137	0.1	8.7	4.9	598	2.03	1.6	<0.5	0.8	17	0.2	0.2	<0.1	46	0.19	0.114	5
964596	Soil	0.3	5.1	5.2	90	<0.1	7.6	4.5	477	1.76	1.5	0.9	0.9	22	0.1	0.2	<0.1	42	0.24	0.120	4
964597	Soil	0.3	5.8	4.1	58	<0.1	8.4	3.8	270	1.51	1.2	<0.5	0.7	19	<0.1	0.2	<0.1	38	0.20	0.032	4
964598	Soil	0.2	6.6	4.4	45	<0.1	8.3	4.3	272	1.66	1.8	1.1	0.8	20	<0.1	0.2	<0.1	40	0.21	0.026	4
964599	Soil	0.3	5.8	4.9	39	0.1	6.4	3.6	230	1.42	1.8	<0.5	0.7	27	<0.1	0.1	<0.1	35	0.25	0.023	6
964600	Soil	0.8	16.0	7.0	115	0.1	12.9	6.4	1231	1.87	1.8	<0.5	0.7	44	0.4	0.2	<0.1	39	0.38	0.076	9
964601	Soil	0.8	7.8	6.3	67	<0.1	8.9	5.1	233	2.30	2.9	<0.5	0.6	24	0.2	0.3	<0.1	62	0.22	0.026	4
964602	Soil	0.7	10.2	7.3	130	0.2	12.3	7.8	546	2.60	4.6	<0.5	1.1	26	0.1	0.3	<0.1	59	0.30	0.072	6
964603	Soil	0.8	34.5	8.0	98	0.6	28.3	8.6	1304	2.61	3.7	<0.5	0.7	103	1.7	0.3	<0.1	45	1.00	0.081	18
964604	Soil	0.4	6.0	4.1	79	<0.1	9.7	5.5	400	1.86	1.6	0.7	0.6	17	0.1	0.1	0.1	42	0.19	0.059	4
964605	Soil	0.3	6.4	5.2	55	<0.1	9.3	4.6	228	1.95	2.7	<0.5	0.9	16	<0.1	0.2	<0.1	44	0.17	0.076	5
964606	Soil	0.3	5.2	4.8	51	<0.1	7.5	3.7	186	1.51	1.5	<0.5	0.7	16	<0.1	0.1	<0.1	34	0.17	0.066	4
964607	Soil	0.2	7.0	5.1	100	<0.1	10.1	5.7	308	2.01	2.7	<0.5	0.9	19	<0.1	0.2	<0.1	45	0.18	0.138	4
964608	Soil	0.4	8.8	5.8	58	<0.1	10.9	6.1	320	2.12	3.9	<0.5	1.1	23	<0.1	0.3	<0.1	51	0.22	0.091	6
964609	Soil	0.4	8.6	5.5	89	<0.1	10.9	5.8	255	2.03	2.9	<0.5	1.2	24	<0.1	0.3	<0.1	45	0.24	0.135	6
964610	Soil	0.4	9.4	5.4	54	<0.1	12.3	5.7	259	2.14	3.5	<0.5	1.2	16	<0.1	0.3	<0.1	49	0.17	0.088	5
964611	Soil	0.4	6.8	5.4	72	<0.1	7.5	4.6	273	1.67	1.7	1.4	0.7	19	<0.1	0.1	<0.1	38	0.16	0.076	5
964612	Soil	0.5	14.1	6.2	66	0.2	14.5	6.7	859	1.91	2.0	0.7	0.3	65	0.6	0.1	<0.1	44	0.58	0.063	7
964613	Soil	0.4	9.9	5.6	93	0.1	10.4	5.7	1412	1.53	0.9	<0.5	0.1	55	0.2	<0.1	<0.1	32	0.40	0.061	5
964929	Soil	0.4	15.1	7.4	54	<0.1	15.0	8.3	676	2.23	8.1	0.6	1.1	45	<0.1	0.7	<0.1	53	0.39	0.050	7
964930	Soil	0.7	23.1	8.6	66	0.2	20.5	11.3	3022	2.15	5.8	0.6	0.3	64	0.4	0.3	<0.1	47	0.52	0.077	8
964931	Soil	0.4	6.0	5.5	46	<0.1	10.4	5.6	681	1.97	6.3	<0.5	1.0	24	0.1	0.5	<0.1	46	0.19	0.034	6
964932	Soil	0.6	28.5	6.8	88	0.2	25.6	8.5	1305	2.42	3.9	0.5	0.6	59	0.1	0.4	<0.1	46	0.41	0.102	19

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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
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CERTIFICATE OF ANALYSIS

SMI12000178.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964588	Soil	9	0.08	62	0.025	<1	0.80	0.007	0.04	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
964589	Soil	13	0.23	99	0.048	<1	1.07	0.011	0.03	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
964590	Soil	14	0.23	112	0.046	<1	1.12	0.006	0.04	0.1	0.02	2.4	<0.1	<0.05	4	0.8	<0.2
964591	Soil	15	0.22	117	0.049	<1	1.03	0.007	0.04	<0.1	<0.01	2.8	<0.1	<0.05	4	0.7	<0.2
964592	Soil	14	0.24	72	0.043	<1	0.91	0.007	0.04	<0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
964593	Soil	18	0.33	170	0.035	1	1.48	0.014	0.06	<0.1	0.04	5.4	<0.1	<0.05	4	<0.5	<0.2
964594	Soil	15	0.22	153	0.056	<1	0.97	0.011	0.08	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
964595	Soil	14	0.19	171	0.049	1	0.93	0.013	0.04	<0.1	0.02	2.8	<0.1	<0.05	4	0.7	<0.2
964596	Soil	12	0.17	133	0.053	<1	0.79	0.007	0.06	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
964597	Soil	12	0.21	77	0.054	<1	0.81	0.008	0.03	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
964598	Soil	12	0.25	82	0.057	<1	0.76	0.009	0.03	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
964599	Soil	11	0.15	100	0.047	<1	0.80	0.010	0.03	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
964600	Soil	19	0.23	186	0.039	<1	1.40	0.011	0.06	<0.1	0.02	3.8	<0.1	<0.05	4	0.7	<0.2
964601	Soil	15	0.24	83	0.047	<1	1.10	0.009	0.03	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
964602	Soil	16	0.28	138	0.056	<1	1.47	0.009	0.08	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
964603	Soil	23	0.49	272	0.017	<1	2.25	0.015	0.08	<0.1	0.05	6.0	<0.1	0.11	5	<0.5	<0.2
964604	Soil	14	0.22	154	0.048	1	1.05	0.008	0.05	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
964605	Soil	13	0.21	83	0.048	<1	1.09	0.009	0.03	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
964606	Soil	12	0.18	72	0.046	<1	1.16	0.008	0.03	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
964607	Soil	14	0.24	124	0.048	<1	1.08	0.009	0.03	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
964608	Soil	15	0.28	84	0.055	<1	0.95	0.010	0.04	<0.1	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
964609	Soil	15	0.22	113	0.051	<1	1.03	0.007	0.05	<0.1	0.03	3.0	<0.1	0.07	3	<0.5	<0.2
964610	Soil	15	0.25	100	0.055	<1	1.39	0.007	0.05	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
964611	Soil	13	0.19	102	0.040	<1	1.04	0.019	0.04	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
964612	Soil	15	0.22	171	0.037	2	0.99	0.012	0.10	<0.1	0.02	2.4	<0.1	0.05	3	<0.5	<0.2
964613	Soil	12	0.18	235	0.027	1	0.91	0.007	0.07	<0.1	0.02	1.3	<0.1	0.10	4	<0.5	<0.2
964929	Soil	17	0.31	164	0.045	2	1.06	0.009	0.09	<0.1	<0.01	4.0	<0.1	<0.05	3	<0.5	<0.2
964930	Soil	16	0.29	245	0.026	2	1.18	0.009	0.05	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
964931	Soil	14	0.21	101	0.048	<1	0.94	0.013	0.08	<0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
964932	Soil	20	0.45	278	0.021	1	1.91	0.010	0.09	<0.1	0.04	5.5	0.1	<0.05	5	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 15, 2012

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CERTIFICATE OF ANALYSIS

SMI12000178.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm		
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001	1
964933	Soil		0.5	14.8	5.8	80	0.2	14.3	7.8	1704	1.94	3.2	0.6	0.3	45	0.3	0.3	<0.1	44	0.34	0.052	6	
964934	Soil		0.3	10.4	6.2	103	<0.1	11.3	6.7	734	2.11	3.3	<0.5	0.8	43	0.2	0.4	<0.1	44	0.35	0.126	6	
964935	Soil		0.5	9.9	5.3	168	<0.1	12.9	6.3	993	1.99	3.0	0.7	0.6	45	0.3	0.4	<0.1	47	0.44	0.099	5	
964936	Soil		0.6	17.6	6.4	67	0.2	16.8	8.1	1364	2.09	4.8	<0.5	0.3	42	0.2	0.4	<0.1	46	0.32	0.059	13	
964937	Soil		0.4	18.4	6.1	50	<0.1	14.4	7.0	916	2.00	6.2	0.8	0.4	64	0.2	0.5	<0.1	44	0.48	0.059	7	
964938	Soil		0.2	7.9	4.5	53	<0.1	12.1	5.2	486	1.86	3.3	0.9	0.6	34	<0.1	0.4	<0.1	46	0.36	0.047	6	
964939	Soil		0.6	8.1	5.2	84	<0.1	15.8	7.4	667	2.14	4.5	1.0	0.8	12	<0.1	0.4	0.1	50	0.15	0.097	5	
964940	Soil		0.4	7.3	3.6	51	<0.1	9.2	4.8	415	1.48	1.7	1.8	0.5	18	<0.1	0.2	<0.1	37	0.20	0.031	6	
964941	Soil		0.5	8.6	5.4	37	<0.1	12.4	7.0	405	2.28	4.3	2.0	0.8	19	<0.1	0.4	<0.1	58	0.22	0.030	6	
964942	Soil		0.3	4.9	4.1	46	<0.1	10.9	5.0	337	1.70	2.6	1.2	0.7	15	<0.1	0.3	<0.1	42	0.16	0.054	5	
964943	Soil		0.4	6.4	4.1	36	<0.1	9.1	4.8	250	1.65	3.1	0.9	0.7	16	<0.1	0.3	0.1	47	0.21	0.032	6	
964944	Soil		0.3	5.4	4.1	61	<0.1	11.2	5.1	232	1.90	2.8	1.2	0.8	15	<0.1	0.3	<0.1	45	0.16	0.115	5	
964945	Soil		0.4	5.4	4.4	53	<0.1	8.5	5.0	825	1.72	2.2	0.9	0.5	13	0.1	0.3	<0.1	44	0.14	0.079	4	
964946	Soil		0.5	6.3	4.7	62	0.1	12.3	6.9	305	2.16	5.4	1.1	0.9	17	0.1	0.3	<0.1	54	0.21	0.083	5	
964947	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
964948	Soil		0.4	9.1	5.2	53	<0.1	14.3	6.8	486	2.28	5.0	1.5	0.4	23	0.1	0.3	<0.1	59	0.27	0.063	6	
964949	Soil		0.6	10.3	5.7	86	0.2	9.5	6.8	1085	1.80	1.1	0.9	0.5	30	0.4	0.2	<0.1	43	0.35	0.096	5	
964950	Soil		0.6	14.4	5.4	67	0.2	16.8	7.1	942	2.18	2.4	0.9	1.0	36	0.2	0.3	<0.1	48	0.42	0.055	12	
964951	Soil		0.4	3.9	5.2	91	<0.1	5.8	4.9	647	1.73	1.0	1.6	0.6	22	0.1	0.1	<0.1	40	0.24	0.181	4	
966650	Soil		0.6	9.7	3.7	109	0.1	49.6	9.4	300	2.16	2.3	0.9	1.8	13	<0.1	0.1	<0.1	49	0.11	0.181	6	
966651	Soil		0.8	11.0	4.1	91	0.1	52.4	11.4	572	2.41	3.3	6.8	1.1	10	<0.1	0.1	<0.1	53	0.13	0.128	6	
966652	Soil		0.4	6.8	4.0	69	<0.1	11.3	5.0	212	1.62	1.8	1.0	1.3	15	<0.1	0.1	<0.1	39	0.18	0.063	6	
966653	Soil		0.5	7.6	4.0	63	0.2	20.4	6.6	319	1.82	2.7	0.7	1.5	19	<0.1	0.1	<0.1	42	0.19	0.071	7	
966654	Soil		0.7	9.0	4.7	48	<0.1	13.8	6.7	137	2.18	9.7	0.5	1.5	15	<0.1	0.1	<0.1	50	0.13	0.103	6	
966655	Soil		0.5	7.5	4.5	70	<0.1	10.1	4.4	228	1.51	4.3	0.6	1.5	15	<0.1	0.1	<0.1	34	0.17	0.103	8	
966656	Soil		1.0	8.6	4.8	42	<0.1	9.6	5.1	266	1.34	3.5	0.7	0.9	32	0.1	0.1	<0.1	36	0.36	0.041	7	
966657	Soil		0.6	7.5	4.5	37	<0.1	8.1	3.2	149	1.22	1.1	0.7	0.7	24	0.1	0.1	<0.1	33	0.21	0.034	8	
966658	Soil		0.7	6.6	5.5	59	0.1	7.5	5.0	409	1.72	2.2	0.7	1.6	9	<0.1	0.1	<0.1	42	0.10	0.156	8	
966659	Soil		0.6	7.3	5.0	36	<0.1	9.3	5.2	186	1.87	3.5	1.4	1.8	19	<0.1	0.2	<0.1	50	0.16	0.063	9	
966660	Soil		1.2	5.5	6.5	54	<0.1	10.3	6.1	235	1.98	4.3	0.7	1.4	10	<0.1	0.2	<0.1	49	0.10	0.083	6	

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

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964933	Soil	14	0.23	250	0.038	1	1.02	0.011	0.07	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
964934	Soil	16	0.25	192	0.040	1	0.98	0.008	0.08	<0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
964935	Soil	16	0.25	214	0.046	3	0.88	0.009	0.07	<0.1	0.04	2.8	<0.1	<0.05	3	<0.5	<0.2
964936	Soil	16	0.33	222	0.026	<1	1.48	0.008	0.07	<0.1	0.02	3.3	0.1	<0.05	4	<0.5	<0.2
964937	Soil	15	0.32	175	0.030	1	1.09	0.007	0.11	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
964938	Soil	14	0.27	106	0.054	2	0.95	0.009	0.09	<0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
964939	Soil	16	0.29	119	0.039	<1	1.54	0.005	0.04	<0.1	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
964940	Soil	13	0.23	89	0.038	<1	0.82	0.008	0.03	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
964941	Soil	17	0.35	93	0.054	<1	0.85	0.010	0.03	<0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
964942	Soil	13	0.21	96	0.044	<1	0.89	0.006	0.05	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
964943	Soil	13	0.23	89	0.045	1	0.77	0.008	0.03	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
964944	Soil	15	0.20	94	0.040	1	1.20	0.008	0.04	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
964945	Soil	13	0.17	121	0.038	<1	0.73	0.007	0.03	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
964946	Soil	16	0.22	71	0.044	1	1.16	0.008	0.04	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
964947	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
964948	Soil	18	0.28	131	0.040	<1	1.07	0.008	0.04	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
964949	Soil	15	0.19	205	0.045	2	0.84	0.007	0.07	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
964950	Soil	22	0.31	174	0.033	1	1.42	0.010	0.08	<0.1	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
964951	Soil	13	0.14	211	0.039	<1	0.78	0.005	0.05	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
966650	Soil	37	0.21	99	0.040	<1	1.91	0.008	0.04	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
966651	Soil	40	0.31	98	0.039	<1	1.69	0.007	0.05	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
966652	Soil	15	0.19	108	0.041	<1	1.08	0.008	0.05	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
966653	Soil	18	0.18	122	0.045	<1	1.26	0.009	0.06	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
966654	Soil	20	0.19	142	0.035	<1	1.53	0.008	0.04	<0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
966655	Soil	14	0.19	111	0.041	<1	1.16	0.009	0.04	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
966656	Soil	15	0.17	146	0.039	1	0.71	0.009	0.04	<0.1	0.05	1.8	<0.1	<0.05	3	<0.5	<0.2
966657	Soil	15	0.15	102	0.041	<1	0.68	0.009	0.04	<0.1	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
966658	Soil	15	0.14	87	0.044	<1	1.38	0.008	0.03	<0.1	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
966659	Soil	16	0.18	115	0.055	<1	1.09	0.010	0.04	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
966660	Soil	15	0.17	133	0.045	<1	1.34	0.007	0.03	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
966661	Soil	0.9	5.2	6.3	41	<0.1	6.1	4.1	144	2.04	2.9	1.2	1.4	11	<0.1	0.1	<0.1	55	0.10	0.112	6
966662	Soil	0.3	6.4	5.0	23	<0.1	8.1	4.2	168	1.34	1.8	1.5	1.5	22	<0.1	0.1	<0.1	38	0.20	0.034	9
966663	Soil	1.4	27.3	3.4	27	0.3	15.0	4.2	891	1.53	<0.5	2.1	0.6	182	0.5	0.3	<0.1	26	1.61	0.144	61
966664	Soil	0.6	7.2	5.5	55	<0.1	9.7	6.3	262	2.03	2.5	<0.5	1.5	8	<0.1	0.2	<0.1	50	0.09	0.161	7
966665	Soil	0.9	5.5	4.5	19	0.1	5.4	1.5	101	0.45	<0.5	0.9	<0.1	32	0.2	<0.1	<0.1	14	0.24	0.033	6
966666	Soil	0.4	12.2	4.4	39	<0.1	12.7	6.9	243	2.18	3.6	2.3	2.0	28	<0.1	0.2	<0.1	57	0.19	0.062	10
966667	Soil	0.7	5.1	4.1	40	<0.1	7.0	3.6	146	1.27	<0.5	<0.5	0.8	12	<0.1	<0.1	<0.1	32	0.12	0.030	7
966668	Soil	0.5	9.1	4.3	65	<0.1	14.6	7.3	472	1.98	1.6	<0.5	1.7	14	<0.1	0.1	<0.1	42	0.16	0.171	8
966669	Soil	0.6	8.0	5.8	34	<0.1	8.9	5.6	159	2.09	2.9	<0.5	1.5	20	<0.1	0.1	<0.1	58	0.14	0.049	7
966670	Soil	0.5	8.0	6.1	37	0.1	7.5	5.1	408	1.33	1.5	0.8	0.8	47	<0.1	0.1	<0.1	36	0.36	0.049	10
966671	Soil	0.4	7.2	4.7	26	<0.1	7.9	4.3	104	1.46	1.8	4.1	1.2	32	<0.1	0.1	<0.1	42	0.21	0.026	8
966672	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
966673	Soil	0.9	8.8	5.1	38	0.2	8.8	4.3	326	0.98	<0.5	<0.5	0.3	100	0.3	<0.1	<0.1	30	0.64	0.034	20
966674	Soil	0.5	6.0	6.2	35	0.1	5.9	3.2	98	1.53	1.4	<0.5	1.3	21	<0.1	0.1	<0.1	40	0.14	0.121	8
966675	Soil	0.6	5.8	6.2	36	<0.1	4.2	2.5	97	1.48	<0.5	12.8	1.1	14	<0.1	<0.1	0.2	40	0.10	0.088	6
966676	Soil	0.7	9.1	9.0	46	<0.1	7.6	4.0	131	1.81	2.5	18.4	1.3	41	<0.1	0.2	<0.1	48	0.25	0.054	9
966677	Soil	0.7	11.8	8.2	91	0.2	14.0	7.9	259	2.96	4.5	1.7	2.1	17	<0.1	0.2	<0.1	62	0.12	0.347	7
966678	Soil	0.7	8.5	10.7	80	<0.1	9.7	5.7	178	2.08	3.0	0.5	2.7	15	<0.1	0.2	0.2	47	0.14	0.170	10
966679	Soil	0.8	10.2	12.5	74	<0.1	9.2	7.1	589	2.12	3.1	0.9	2.6	28	0.1	0.3	0.2	53	0.27	0.099	13
966680	Soil	0.9	13.3	10.7	106	0.1	10.6	6.3	451	2.10	4.5	3.6	3.3	26	0.2	0.4	0.4	51	0.23	0.059	17
966681	Soil	2.7	10.6	13.7	82	0.1	9.8	8.5	1092	2.39	5.2	4.0	1.8	36	0.2	0.3	0.3	51	0.29	0.061	13
966750	Soil	0.5	6.0	7.6	37	<0.1	6.4	3.3	269	1.31	0.9	2.2	1.4	27	<0.1	0.1	0.1	35	0.22	0.030	9
966751	Soil	0.7	6.9	14.0	58	<0.1	7.8	4.3	210	2.16	2.8	2.6	2.0	17	<0.1	0.2	0.1	53	0.16	0.135	8
966752	Soil	0.8	7.5	10.4	36	<0.1	8.2	3.2	131	1.21	1.0	0.7	0.7	25	<0.1	<0.1	0.1	30	0.20	0.032	9
966753	Soil	0.7	7.1	5.8	40	<0.1	11.6	6.2	146	2.10	2.8	1.2	1.6	12	<0.1	0.2	<0.1	52	0.12	0.087	6
966754	Soil	0.7	7.1	5.7	79	<0.1	10.2	5.4	171	2.11	2.7	0.9	1.6	20	<0.1	0.2	<0.1	49	0.18	0.121	6
966755	Soil	0.5	4.5	5.8	32	<0.1	6.1	2.7	140	1.00	1.0	0.9	0.1	27	<0.1	<0.1	<0.1	30	0.22	0.029	6
966756	Soil	0.5	6.3	6.3	60	<0.1	6.7	5.8	292	2.35	3.1	<0.5	1.7	13	<0.1	0.1	<0.1	57	0.13	0.290	6
966757	Soil	0.6	7.8	6.1	93	0.1	7.7	5.8	383	2.25	2.3	0.6	1.7	18	0.1	0.2	<0.1	56	0.18	0.228	7
966758	Soil	0.9	7.4	6.7	94	0.1	9.7	8.0	280	2.85	4.3	<0.5	1.8	21	<0.1	0.2	<0.1	73	0.21	0.212	7

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 15, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
966661	Soil	14	0.12	85	0.043	<1	0.99	0.008	0.03	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
966662	Soil	14	0.20	159	0.053	<1	0.86	0.013	0.02	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
966663	Soil	19	0.21	340	0.013	4	1.77	0.017	0.03	<0.1	0.23	5.4	0.2	0.20	3	<0.5	<0.2
966664	Soil	19	0.15	87	0.050	<1	1.76	0.009	0.04	<0.1	0.04	2.0	<0.1	<0.05	5	<0.5	<0.2
966665	Soil	11	0.07	98	0.018	<1	0.46	0.009	0.03	<0.1	0.06	0.8	<0.1	<0.05	3	<0.5	<0.2
966666	Soil	21	0.24	211	0.056	<1	1.43	0.009	0.04	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
966667	Soil	26	0.11	72	0.051	<1	0.58	0.007	0.04	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
966668	Soil	32	0.20	157	0.056	1	1.83	0.006	0.08	<0.1	0.04	2.8	<0.1	<0.05	5	<0.5	<0.2
966669	Soil	20	0.21	126	0.045	<1	1.24	0.007	0.02	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
966670	Soil	12	0.20	146	0.044	<1	0.81	0.016	0.04	<0.1	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
966671	Soil	12	0.15	144	0.050	<1	0.95	0.015	0.02	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
966672	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
966673	Soil	13	0.17	170	0.035	<1	0.74	0.015	0.03	<0.1	0.05	1.7	<0.1	<0.05	3	<0.5	<0.2
966674	Soil	12	0.14	100	0.053	<1	1.06	0.008	0.03	<0.1	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2
966675	Soil	13	0.07	81	0.056	<1	0.71	0.007	0.03	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
966676	Soil	14	0.15	135	0.043	<1	1.11	0.014	0.03	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
966677	Soil	19	0.23	156	0.049	<1	2.74	0.010	0.05	<0.1	0.04	3.0	<0.1	<0.05	8	<0.5	<0.2
966678	Soil	16	0.23	124	0.046	<1	1.79	0.011	0.04	<0.1	0.05	2.6	<0.1	<0.05	5	<0.5	<0.2
966679	Soil	17	0.29	142	0.064	<1	1.15	0.011	0.07	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
966680	Soil	17	0.34	170	0.045	<1	1.28	0.013	0.05	<0.1	0.02	3.5	0.2	<0.05	4	<0.5	<0.2
966681	Soil	17	0.36	168	0.028	<1	1.60	0.016	0.05	<0.1	0.05	3.1	0.1	<0.05	5	<0.5	<0.2
966750	Soil	13	0.20	108	0.059	<1	0.94	0.013	0.03	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
966751	Soil	17	0.18	86	0.049	<1	1.24	0.009	0.04	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
966752	Soil	15	0.22	113	0.033	<1	1.23	0.012	0.04	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
966753	Soil	17	0.17	105	0.056	<1	1.84	0.011	0.03	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
966754	Soil	16	0.21	112	0.053	<1	1.34	0.010	0.04	<0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
966755	Soil	12	0.17	111	0.038	<1	0.86	0.013	0.03	<0.1	0.04	1.1	<0.1	<0.05	4	<0.5	<0.2
966756	Soil	17	0.15	78	0.048	<1	1.47	0.008	0.03	<0.1	0.04	2.0	<0.1	<0.05	5	<0.5	<0.2
966757	Soil	17	0.15	114	0.055	<1	1.51	0.010	0.04	<0.1	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
966758	Soil	22	0.18	103	0.063	<1	2.00	0.010	0.03	<0.1	0.05	2.3	<0.1	<0.05	5	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 15, 2012

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
966759	Soil		0.8	8.2	9.2	62	<0.1	9.3	6.3	248	2.66	5.3	<0.5	2.0	13	<0.1	0.2	<0.1	64	0.13	0.284	6
966760	Soil		0.2	5.7	5.0	34	<0.1	6.7	3.4	150	1.25	0.8	3.0	1.1	24	<0.1	0.1	<0.1	32	0.25	0.027	6
966761	Soil		0.5	10.4	6.0	55	0.1	11.1	5.5	160	2.14	3.4	0.8	1.7	15	<0.1	0.2	<0.1	52	0.16	0.156	7
966762	Soil		0.6	6.6	5.8	47	<0.1	7.9	3.9	162	1.62	1.9	0.9	0.7	22	<0.1	0.1	<0.1	40	0.18	0.063	6
966763	Soil		0.7	5.3	7.3	34	<0.1	6.2	3.2	102	1.83	2.0	1.1	1.4	12	<0.1	0.1	<0.1	44	0.09	0.136	6
966764	Soil		0.5	10.3	6.1	58	<0.1	13.3	6.5	138	1.89	2.4	1.0	2.1	16	<0.1	0.2	<0.1	44	0.15	0.083	8
966765	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
966766	Soil		1.2	11.6	10.3	81	0.2	9.1	9.0	1386	1.99	2.1	<0.5	1.1	69	0.2	0.1	<0.1	56	0.58	0.071	12
966767	Soil		0.3	6.3	5.3	38	<0.1	7.0	3.9	174	1.40	1.5	1.1	1.4	26	<0.1	0.2	<0.1	38	0.25	0.035	8
966768	Soil		0.6	6.7	5.5	53	<0.1	7.0	4.1	171	1.50	1.9	2.1	1.2	19	<0.1	0.2	<0.1	40	0.19	0.046	8
966769	Soil		0.8	6.4	5.6	41	<0.1	7.8	4.2	165	1.95	3.3	0.7	1.3	22	<0.1	0.2	<0.1	55	0.19	0.044	5
966770	Soil		0.3	6.1	4.9	33	<0.1	6.3	3.1	205	1.17	1.1	1.9	1.2	25	<0.1	0.2	<0.1	31	0.24	0.027	9
966771	Soil		0.3	5.5	5.9	27	0.1	4.0	2.1	100	1.21	1.0	1.1	1.3	17	<0.1	0.1	<0.1	34	0.14	0.027	8
966772	Soil		0.6	9.6	7.2	47	<0.1	8.9	4.9	451	1.92	2.0	2.1	1.3	25	<0.1	0.2	<0.1	46	0.18	0.039	11
966773	Soil		0.5	10.4	7.3	34	<0.1	6.9	4.5	338	1.48	2.0	1.1	1.4	29	<0.1	0.2	<0.1	40	0.28	0.040	9
966774	Soil		0.7	8.4	7.9	48	<0.1	10.8	5.2	190	2.18	4.9	25.9	1.4	16	<0.1	0.2	<0.1	54	0.15	0.102	6
966775	Soil		0.5	7.6	6.3	83	<0.1	9.7	5.3	1082	2.07	2.9	0.9	1.9	19	<0.1	0.2	<0.1	48	0.20	0.147	7
966776	Soil		0.3	7.1	5.8	35	<0.1	8.1	4.5	202	1.71	3.0	1.5	1.7	23	<0.1	0.2	<0.1	44	0.21	0.034	8
966777	Soil		0.2	7.1	6.6	31	<0.1	5.1	3.4	152	1.22	1.7	0.7	1.9	35	<0.1	<0.1	<0.1	31	0.26	0.030	9
966778	Soil		0.2	10.2	5.1	34	<0.1	6.6	3.7	175	1.56	3.0	1.1	2.2	33	<0.1	0.1	<0.1	38	0.34	0.055	11
966779	Soil		5.1	38.3	3.9	147	0.2	10.9	5.7	>10000	1.50	3.8	1.7	1.3	438	0.2	0.3	<0.1	42	10.31	0.885	6
966780	Soil		0.5	7.6	5.5	45	<0.1	7.3	4.1	227	1.83	3.6	<0.5	1.5	19	0.1	0.3	<0.1	48	0.18	0.060	6
966781	Soil		0.5	22.1	8.0	43	0.2	11.7	5.5	474	2.00	5.1	1.0	2.1	47	0.1	0.3	0.1	52	0.39	0.048	15
966782	Soil		0.6	7.8	6.5	41	<0.1	8.2	4.6	282	1.77	3.8	0.8	1.6	23	<0.1	0.3	<0.1	44	0.21	0.055	8
966783	Soil		0.5	5.6	6.8	47	<0.1	4.5	4.2	456	1.41	0.9	<0.5	1.0	16	<0.1	0.2	<0.1	32	0.10	0.053	7
966784	Soil		0.6	6.4	6.6	43	<0.1	6.5	4.1	304	1.55	2.6	<0.5	1.3	23	<0.1	0.2	<0.1	39	0.19	0.056	8
966785	Soil		0.6	8.0	7.0	47	0.2	9.0	5.1	314	2.09	3.7	0.8	1.6	29	0.1	0.3	<0.1	50	0.20	0.075	7
966786	Soil		0.4	6.7	6.3	53	<0.1	5.2	4.4	214	1.50	1.6	<0.5	1.6	26	<0.1	0.1	<0.1	33	0.15	0.091	7
966787	Soil		0.3	5.5	5.4	39	<0.1	4.7	3.4	183	1.29	1.1	<0.5	1.3	21	<0.1	0.1	<0.1	30	0.16	0.025	8
966788	Soil		0.5	10.7	6.4	73	<0.1	8.1	4.6	213	1.98	3.4	2.0	1.1	32	0.2	0.3	<0.1	50	0.24	0.053	8

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

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
966759	Soil	19	0.18	87	0.052	<1	1.90	0.010	0.03	<0.1	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
966760	Soil	12	0.23	88	0.062	<1	0.94	0.015	0.03	<0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
966761	Soil	19	0.20	98	0.050	<1	2.01	0.010	0.04	<0.1	0.06	2.7	<0.1	<0.05	6	<0.5	<0.2
966762	Soil	14	0.16	110	0.048	<1	1.07	0.011	0.03	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
966763	Soil	13	0.10	73	0.046	<1	1.25	0.009	0.03	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
966764	Soil	18	0.20	181	0.056	<1	2.13	0.012	0.04	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
966765	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
966766	Soil	17	0.29	238	0.046	<1	1.62	0.014	0.06	<0.1	0.05	2.7	0.1	<0.05	6	<0.5	<0.2
966767	Soil	13	0.26	101	0.069	<1	0.91	0.015	0.03	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
966768	Soil	14	0.20	108	0.054	1	0.96	0.012	0.03	<0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
966769	Soil	15	0.21	101	0.059	<1	1.01	0.012	0.04	<0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
966770	Soil	11	0.22	91	0.062	<1	0.84	0.013	0.03	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
966771	Soil	11	0.10	82	0.058	<1	0.74	0.011	0.04	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
966772	Soil	15	0.24	132	0.045	<1	1.58	0.011	0.04	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
966773	Soil	13	0.23	128	0.059	<1	1.00	0.013	0.05	<0.1	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
966774	Soil	17	0.21	145	0.051	<1	1.61	0.009	0.04	<0.1	0.04	2.1	<0.1	<0.05	5	<0.5	<0.2
966775	Soil	15	0.21	137	0.053	<1	1.70	0.009	0.05	0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
966776	Soil	13	0.27	121	0.063	<1	1.13	0.013	0.04	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
966777	Soil	11	0.28	120	0.075	<1	0.94	0.024	0.06	<0.1	0.05	2.4	<0.1	<0.05	3	<0.5	<0.2
966778	Soil	14	0.28	105	0.068	<1	0.87	0.020	0.06	<0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
966779	Soil	12	0.71	1100	0.054	63	1.74	0.148	0.91	0.2	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
966780	Soil	13	0.23	86	0.062	<1	0.75	0.011	0.04	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
966781	Soil	16	0.37	137	0.044	2	1.27	0.014	0.09	<0.1	0.02	5.0	0.1	<0.05	4	<0.5	<0.2
966782	Soil	13	0.27	92	0.063	1	0.88	0.018	0.05	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
966783	Soil	9	0.12	106	0.040	<1	0.75	0.010	0.03	<0.1	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
966784	Soil	11	0.21	100	0.052	<1	0.79	0.012	0.04	<0.1	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
966785	Soil	15	0.23	136	0.056	<1	1.19	0.011	0.05	<0.1	0.04	2.2	<0.1	<0.05	4	<0.5	<0.2
966786	Soil	11	0.16	121	0.050	<1	0.90	0.011	0.04	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
966787	Soil	9	0.19	96	0.058	<1	0.67	0.012	0.03	<0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
966788	Soil	15	0.27	138	0.044	<1	0.84	0.011	0.05	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2

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.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 15, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000178.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
966789	Soil	0.5	11.6	8.0	66	0.1	8.8	5.1	672	1.78	2.7	<0.5	1.1	41	0.2	0.2	<0.1	41	0.27	0.051	13



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 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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Report Date: August 15, 2012

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI12000178.1

Method	1DX15		1DX15		1DX15		1DX15		1DX15		1DX15		1DX15		1DX15		1DX15	
	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te		
Analyte	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2		
966789	Soil	12	0.30	154	0.044	<1	1.05	0.015	0.05	<0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2	



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Project: KARMA
Report Date: August 15, 2012

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Part: 1 of 2

QUALITY CONTROL REPORT

SMI12000178.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																							
964588	Soil			0.5	3.7	11.2	48	0.1	2.8	1.6	131	1.37	1.4	1.9	2.0	9	0.1	0.2	0.3	33	0.08	0.088	8
REP 964588	QC			0.5	3.8	11.5	48	0.1	2.8	1.6	129	1.36	1.4	1.6	2.0	9	<0.1	0.2	0.3	32	0.08	0.089	8
964604	Soil			0.4	6.0	4.1	79	<0.1	9.7	5.5	400	1.86	1.6	0.7	0.6	17	0.1	0.1	0.1	42	0.19	0.059	4
REP 964604	QC			0.4	6.2	4.2	84	<0.1	9.9	5.6	393	1.86	1.6	<0.5	0.6	18	0.1	0.2	<0.1	40	0.20	0.058	4
964929	Soil			0.4	15.1	7.4	54	<0.1	15.0	8.3	676	2.23	8.1	0.6	1.1	45	<0.1	0.7	<0.1	53	0.39	0.050	7
REP 964929	QC			0.4	16.3	7.3	57	<0.1	15.4	8.4	705	2.33	7.9	1.6	1.1	47	0.1	0.6	<0.1	54	0.41	0.052	8
964939	Soil			0.6	8.1	5.2	84	<0.1	15.8	7.4	667	2.14	4.5	1.0	0.8	12	<0.1	0.4	0.1	50	0.15	0.097	5
REP 964939	QC			0.5	8.9	5.5	89	<0.1	16.6	8.1	770	2.42	4.9	0.9	0.8	12	<0.1	0.4	<0.1	52	0.17	0.107	5
966664	Soil			0.6	7.2	5.5	55	<0.1	9.7	6.3	262	2.03	2.5	<0.5	1.5	8	<0.1	0.2	<0.1	50	0.09	0.161	7
REP 966664	QC			0.6	7.5	5.5	59	<0.1	10.1	6.5	265	2.00	2.6	0.7	1.6	9	<0.1	0.1	<0.1	48	0.09	0.159	7
966675	Soil			0.6	5.8	6.2	36	<0.1	4.2	2.5	97	1.48	<0.5	12.8	1.1	14	<0.1	<0.1	0.2	40	0.10	0.088	6
REP 966675	QC			0.7	5.9	6.2	37	<0.1	4.4	2.4	96	1.49	<0.5	1.8	1.2	14	<0.1	<0.1	0.1	41	0.10	0.094	6
966770	Soil			0.3	6.1	4.9	33	<0.1	6.3	3.1	205	1.17	1.1	1.9	1.2	25	<0.1	0.2	<0.1	31	0.24	0.027	9
REP 966770	QC			0.3	5.9	5.2	34	<0.1	6.5	3.1	207	1.19	1.0	1.8	1.2	26	<0.1	0.1	<0.1	32	0.23	0.027	9
966786	Soil			0.4	6.7	6.3	53	<0.1	5.2	4.4	214	1.50	1.6	<0.5	1.6	26	<0.1	0.1	<0.1	33	0.15	0.091	7
REP 966786	QC			0.5	7.0	6.5	53	<0.1	5.5	4.2	218	1.51	1.7	<0.5	1.6	25	0.1	0.1	<0.1	34	0.15	0.092	7
Reference Materials																							
STD DS9	Standard			13.2	105.7	121.7	297	1.8	39.7	7.1	564	2.26	24.7	125.4	6.6	82	2.4	6.0	6.5	41	0.68	0.082	13
STD DS9	Standard			13.7	99.8	122.4	301	1.9	41.7	7.9	588	2.38	23.8	118.4	5.3	58	2.2	4.8	5.3	46	0.69	0.075	13
STD DS9	Standard			13.7	103.8	129.8	306	1.8	37.9	7.2	576	2.26	25.9	115.2	6.9	83	2.3	6.4	7.0	40	0.73	0.085	14
STD DS9	Standard			14.5	112.0	126.5	310	1.8	41.1	8.0	592	2.34	24.1	120.9	6.8	72	2.3	5.6	5.2	47	0.75	0.080	15
STD DS9	Standard			13.6	97.9	126.7	298	1.9	41.6	8.1	588	2.38	23.1	128.9	5.7	63	2.0	5.0	5.5	46	0.75	0.082	13
STD DS9 Expected				12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Project: KARMA
Report Date: August 15, 2012

Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

SMI12000178.1

Method	Analyte	Unit	MDL	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Tl ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
Pulp Duplicates																			
964588	Soil			9	0.08	62	0.025	<1	0.80	0.007	0.04	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
REP 964588	QC			9	0.08	61	0.023	<1	0.82	0.013	0.03	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
964604	Soil			14	0.22	154	0.048	1	1.05	0.008	0.05	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
REP 964604	QC			14	0.22	156	0.051	1	1.07	0.008	0.05	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
964929	Soil			17	0.31	164	0.045	2	1.06	0.009	0.09	<0.1	<0.01	4.0	<0.1	<0.05	3	<0.5	<0.2
REP 964929	QC			17	0.34	172	0.047	1	1.06	0.010	0.10	<0.1	0.01	4.0	<0.1	0.06	3	<0.5	<0.2
964939	Soil			16	0.29	119	0.039	<1	1.54	0.005	0.04	<0.1	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
REP 964939	QC			19	0.30	119	0.042	2	1.60	0.006	0.04	<0.1	0.03	2.5	0.1	<0.05	5	<0.5	<0.2
966664	Soil			19	0.15	87	0.050	<1	1.76	0.009	0.04	<0.1	0.04	2.0	<0.1	<0.05	5	<0.5	<0.2
REP 966664	QC			19	0.15	94	0.050	<1	1.72	0.008	0.03	<0.1	0.04	1.8	<0.1	<0.05	4	<0.5	<0.2
966675	Soil			13	0.07	81	0.056	<1	0.71	0.007	0.03	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
REP 966675	QC			13	0.07	80	0.057	<1	0.72	0.007	0.03	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
966770	Soil			11	0.22	91	0.062	<1	0.84	0.013	0.03	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
REP 966770	QC			11	0.22	92	0.062	<1	0.86	0.013	0.03	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
966786	Soil			11	0.16	121	0.050	<1	0.90	0.011	0.04	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
REP 966786	QC			11	0.17	124	0.052	<1	0.95	0.011	0.04	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																			
STD DS9	Standard			118	0.62	300	0.126	2	0.91	0.087	0.35	2.9	0.21	2.4	5.3	0.13	4	4.2	4.9
STD DS9	Standard			126	0.62	276	0.107	2	0.93	0.078	0.34	3.2	0.22	2.1	5.5	0.15	5	5.6	4.8
STD DS9	Standard			114	0.63	319	0.114	2	0.93	0.098	0.36	3.1	0.21	3.2	5.4	0.16	5	5.1	5.1
STD DS9	Standard			128	0.65	307	0.117	2	0.96	0.089	0.37	3.1	0.21	2.5	5.7	0.12	5	5.7	4.8
STD DS9	Standard			130	0.62	309	0.112	3	0.96	0.081	0.33	3.0	0.23	2.4	5.6	0.19	5	5.5	5.1
STD DS9 Expected				121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank			<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank			<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank			<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank			<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank			<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 Canada

Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: August 03, 2012

Report Date: August 13, 2012

Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000179.1

CLIENT JOB INFORMATION

Project: KARMA
Shipment ID: KARM_SSN12-05_Aug031
P.O. Number: KARMA05
Number of Samples: 14

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	14	Dry at 60C			SMI
SS80	14	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	14	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC:



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. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

Project: KARMA
 Report Date: August 13, 2012

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000179.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
965409	Soil	0.7	15.0	4.6	47	0.1	14.0	8.1	231	2.67	5.3	1.6	1.0	13	<0.1	0.3	0.1	68	0.14	0.051	5
965411	Soil	0.5	13.0	3.9	41	<0.1	13.0	5.8	212	1.94	3.3	1.7	0.8	16	<0.1	0.2	<0.1	47	0.20	0.047	7
965415	Soil	0.7	20.2	6.1	59	<0.1	12.7	6.7	194	2.49	5.6	2.3	1.7	10	<0.1	0.3	0.1	60	0.10	0.117	7
965417	Soil	1.0	17.7	5.9	50	<0.1	12.3	6.6	229	2.71	6.0	6.2	1.5	9	<0.1	0.2	<0.1	60	0.11	0.129	6
965420	Soil	0.7	18.3	4.6	35	<0.1	12.6	5.7	188	2.23	7.7	3.7	1.2	13	<0.1	0.2	<0.1	54	0.17	0.079	6
965422	Soil	0.5	15.6	5.3	55	<0.1	17.4	7.9	298	2.56	8.4	2.0	1.3	18	<0.1	0.6	<0.1	61	0.23	0.060	7
965425	Soil	0.7	18.8	6.8	46	<0.1	16.5	7.8	300	2.59	10.2	2.3	1.3	15	<0.1	0.6	<0.1	58	0.18	0.030	6
965461	Soil	1.2	18.8	5.5	139	0.1	16.0	8.7	2172	2.59	4.1	1.8	1.7	87	0.1	0.2	<0.1	67	1.42	0.288	11
965464	Soil	0.4	26.1	7.4	149	0.1	37.7	15.8	884	3.58	1.1	0.7	2.1	81	0.2	<0.1	<0.1	85	0.44	0.327	9
965466	Soil	0.5	10.1	4.4	47	<0.1	10.2	5.8	371	2.04	4.6	0.7	1.2	11	<0.1	0.2	<0.1	51	0.14	0.073	5
965468	Soil	1.1	9.4	5.9	107	<0.1	7.8	4.7	958	1.80	3.2	33.0	1.0	54	0.3	0.2	<0.1	41	0.59	0.302	6
965470	Soil	1.1	7.4	6.4	97	<0.1	9.6	6.8	947	2.04	1.5	0.7	1.3	14	0.1	0.1	0.1	47	0.21	0.117	6
965472	Soil	0.9	12.7	5.9	39	<0.1	13.4	7.2	399	2.33	12.0	3.0	1.1	19	<0.1	1.0	<0.1	58	0.24	0.039	7
965474	Soil	0.4	15.1	5.8	65	<0.1	15.8	7.9	432	2.49	4.7	1.2	0.9	18	<0.1	0.2	<0.1	60	0.21	0.127	5



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**
 15th Floor - 1040 West Georgia Street
 Vancouver BC V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS

SMI12000179.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
965409	Soil	18	0.29	125	0.031	2	1.65	0.008	0.05	<0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
965411	Soil	15	0.29	180	0.025	1	1.53	0.010	0.05	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
965415	Soil	18	0.28	144	0.033	2	2.08	0.008	0.03	<0.1	0.03	3.9	<0.1	<0.05	6	<0.5	<0.2
965417	Soil	18	0.27	100	0.029	1	2.43	0.007	0.04	<0.1	0.06	3.4	<0.1	<0.05	6	<0.5	<0.2
965420	Soil	15	0.28	95	0.027	<1	1.42	0.007	0.03	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
965422	Soil	20	0.38	98	0.058	2	1.54	0.008	0.05	0.1	0.02	3.4	0.2	<0.05	4	<0.5	<0.2
965425	Soil	22	0.46	76	0.040	2	1.55	0.008	0.06	<0.1	0.02	3.7	0.2	<0.05	5	<0.5	<0.2
965461	Soil	22	0.38	281	0.059	9	2.58	0.042	0.22	<0.1	<0.01	4.0	<0.1	<0.05	8	<0.5	<0.2
965464	Soil	53	0.73	371	0.117	2	3.21	0.015	0.25	<0.1	0.02	4.7	<0.1	<0.05	10	<0.5	<0.2
965466	Soil	13	0.23	73	0.033	1	1.29	0.007	0.03	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
965468	Soil	12	0.18	209	0.036	3	1.09	0.008	0.09	<0.1	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
965470	Soil	22	0.22	144	0.042	2	1.58	0.007	0.05	<0.1	0.04	2.8	<0.1	<0.05	7	<0.5	<0.2
965472	Soil	17	0.34	87	0.055	1	1.05	0.008	0.04	<0.1	0.04	3.4	0.2	<0.05	3	<0.5	<0.2
965474	Soil	22	0.34	134	0.035	1	2.04	0.007	0.04	<0.1	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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15th Floor - 1040 West Georgia Street

Vancouver BC V6E 4H1 Canada

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QUALITY CONTROL REPORT

SMI12000179.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																							
965466	Soil			0.5	10.1	4.4	47	<0.1	10.2	5.8	371	2.04	4.6	0.7	1.2	11	<0.1	0.2	<0.1	51	0.14	0.073	5
REP 965466	QC			0.6	9.6	4.5	47	<0.1	9.5	5.6	363	1.93	4.3	3.1	1.3	11	<0.1	0.2	<0.1	49	0.14	0.070	5
965472	Soil			0.9	12.7	5.9	39	<0.1	13.4	7.2	399	2.33	12.0	3.0	1.1	19	<0.1	1.0	<0.1	58	0.24	0.039	7
REP 965472	QC			0.8	13.3	6.2	41	<0.1	13.8	7.4	420	2.41	12.4	1.8	1.2	19	<0.1	1.0	<0.1	59	0.24	0.039	7
Reference Materials																							
STD DS9	Standard			13.6	116.6	110.7	304	2.0	43.7	8.2	587	2.43	25.5	116.2	5.6	63	2.3	4.9	5.2	46	0.72	0.079	13
STD DS9 Expected				12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	<0.001	<1



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www.acmelab.com

Client: **Quartz Mountain Resources Ltd.**

15th Floor - 1040 West Georgia Street

Vancouver BC V6E 4H1 Canada

Project: KARMA

Report Date: August 13, 2012

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QUALITY CONTROL REPORT

SMI12000179.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
965466	Soil	13	0.23	73	0.033	1	1.29	0.007	0.03	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
REP 965466	QC	13	0.22	73	0.033	1	1.29	0.008	0.03	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
965472	Soil	17	0.34	87	0.055	1	1.05	0.008	0.04	<0.1	0.04	3.4	0.2	<0.05	3	<0.5	<0.2
REP 965472	QC	18	0.35	87	0.055	1	1.04	0.010	0.04	<0.1	0.03	3.3	0.2	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	130	0.61	304	0.112	3	0.90	0.079	0.36	3.0	0.20	2.7	5.6	0.24	5	5.4	4.7
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

APPENDIX C

Rock Sample Descriptions

Site 'A' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
964448	Rock	654321.56	6020157.32	800.177	Strongly weathered; limonite and clay staining. Fresh surface difficult to attain. Pinkish-orange; siliceous; contains relict pits (~5%) likely leached out sulphides (i.e. pyrite). Minerals: chlorite, pyrite, Mn-oxide. Interlocking groundmass consists of
964449	Rock	654567	6019879	814	QFP
964450	Rock	654605	6019853	816	QFP
964451	Rock	653231	6019745	752	Black, plagioclase-phyric, hematitic groundmass, magnetite basalt.

Site 'B' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
964469	Rock	652805	6012986.98	976.806	Monzo-diorite: QFP. Porphyritic. 40%, euhedral and albiteized white plagioclase phenocrysts, 10% oxydized amphibole, trace magnetite, 1-2% hematite, 1-2% pink feldspars. Groundmass is aphanitic and siliceous. Trace biotite booklets replace amphibole sites
964470	Rock	652857.52	6013178.82	1012.486	Monzo-diorite. Similar to B23. Trace visible quartz phenocrysts, 2-3 mm large, subrounded.
964472	Rock	649698.66	6014743.99	1020.042	10-15% black, vitreous and fractured quartz, < 2mm, 25-30% tabular 2-4 mm milky white plagioclase crystals, 1-2% specular hematite and 7-10% oxidized amphibole
964475	Rock	647335.62	6011496.77	1140.164	Basalt. Green, porphyritic, mafic, and hard. Prismatic, dark green, chloritized augites, <5%, <1mm grains of black magnetite. Aphanitic groundmass.
964476	Rock	646524.28	6012880.11	1319.883	Basalt. Similar to B29 and with 15-20% plagioclase crystals.

Site 'C' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
964400	Rock	649393	6004347	1029	Large, blocky, very competent. Pinkish-orange oxidized surface and clay materials. Hand sample is fine grained, pinkish-green. Occasional equant, euhedral feldspars (1-2mm) set in an aphanitic groundmass. Siliceous. Very fine grained. < 0.25mm disseminate
964401	Rock	649492	6004657	1011	Hand sample is aphanitic, no obvious phenocrysts. Rock is very hard and siliceous, greenish-pink colour on fresh surface. Numerous fine and coarse pits filled with Fe-carbonate? Replacing weathered pyrite? Very fine grained pyrite. Calcite veins observed
964402	Rock	649388	6004945	984	
964403	Rock	645348	6005165	978	Hand sample is medium grained and porphyritic. Whiteish feldspar phenocrysts 0.5-2mm noted throughout. Hand sample has a deep reddish purple aphanitic matrix, possible fine grained hematite throughout. Surface is weakly oxidized.
964404	Rock	649379	6005683	978	
964405	Rock	649434	6005934	991	

Site 'C' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
964406	Rock	650602	6005245		Medium grained porphyritic rock. 1-2mm euhedral feldspars throughout in a fine-grained black/purplish red matrix. Sub rounded black minerals also appear within rock. No sulphides observed; pits throughout.
964407	Rock	650820	6005123	1044	
964408	Rock	652187	6005019	1053	Hard, very competent rock. Wweathered surface is yellowy-beige from alteration of feldspars to clays. Fresh surface is greenish black. Equant euhedral feldspar crystals set in an aphanitic blackish-green groundmass. Fresh hornblende crystals also observed
964409	Rock	651979.99	6005086.52	1095.863	Not oxidized on weathered face; grey-green colour. Fresh surface: dark greenish grey; aphanitic groundmass. 1-2mm feldspar phenocrysts throughout, possible dull greyish quartz grains present. No observed sulphides; however fine disseminations throughout.
964410	Rock	651945.64	6005018.68	1092.893	Same as B13.
964411	Rock	651456.07	6004802.24	1129.662	1.5 X 0.5 m boulder. Coarse grained intrusive, biotite, hornbende quartz, feldspar phenocrysts. Strongly magnetic.
964412	Rock	651381.36	6004329.43	1097.557	Similar to B13-14.
964413	Rock	651395.03	6004362.95	1099.7	Similar to B13-14.
964414	Rock	651497.41	6004355.51	1113.866	Similar to B13-14.
964415	Rock	651665.19	6004290.65	1128.751	Similar to B13-14.
964416	Rock	651980.23	6004355.47	1145.793	Similar composition, grain size and texture; however, more intensely weathered. Replacement of hornblende by hematite.
964417	Rock	647241	6004025	1050	Magnetite-biotite-plagioclase porphyry. Outcrop along road. 3m tall x 15m long, extends into the slope. Angular to blocky appearance, light brown staining on dark 'salt & pepper' rock surface. Hand sample is dark grey with white plagioclase, 2-3mm large,
964418	Rock	646823	6003475	1034	Outcrop along road. Rusty brown weathering to chocolate brown. Slickenside surfaces at 099 at -57 deg dip (dip direction & dip), smooth up dip. Strongly altered hand samples composed of: long/ elongate, 1 x 5m relict amphiboles (hbl?), up to 15%, complete
964419	Rock	647904	6003283	1117	Outcrop along south side of road, 2m tall by 15m long, extends into hill and exposed due to road cut. A) Magnetite-biotite-plagioclase phyruc porphyry (identical to PB01 but with <5%, 1-2mm qtz). Moderately magnetic and fractures are coated in oxidized mm
964420	Rock	647904	6003283	1117	Breccia
964421	Rock	648188	6003598	1145	Outcrop flat along north side of road, 1m wide by 3m long. Yellow-green-white, strongly oxidized and bleached. Relict feldspar cleavage visible. Rock type unknown. Bright white may be orthoclase going to sericite. Milky white could be albite. No visible s

Site 'C' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
964422	Rock	648482	6003664	1148	Hematite-hornblende-feldspar porphyry. Outcrop looks like a trench or ditch. 2m tall by 30m long extending into hill. Maroon to brown weathering, rusty and oxidized but not gossanous. Hand sample contains 10-20%, 1-2mm, euhedral and twinned plagioclase cry
964423	Rock	648316	6003624	1145	Similar to PB04, leached and texture is lost. White clays and sericite remain hornblende sites as lath-like pits.
964424	Rock	648279	6003623	1142	Bleached rock containing pyrite.
964425	Rock	648255	6003634	1140	Bleached rock.
964426	Rock	646993	6004232	1034	Fine-grained, pyritic andesite. Gossanous o/c along west side of road. 1.5m tall x 15 m long and extends into the hill surface is strongly limonitic and hematitic. Hand sample is fine grained to aphanitic with trace feldspar (plag) phenocrysts 1-2mm large
964427	Rock	645907	6003769	1067	Magnetic porphyritic basalt? Subcrop and minor outcrop on east side of road. Salt and pepper appearance from far. Dark grey to beige. Weathered, but not oxidized. Contains 30-40% euhedral plagioclase crystals set in a fine grained, hematitic groundmass; 1
964428	Rock	647505	6004563	1054	Quartz-feldspar porphyry. Med grey, with 1-2mm albite altered feldspar laths. Subtle brownish-orange ankerite (?) alteration. Moderately weathered surface.
964429	Rock	647269	6004469	1041	Quartz-feldspar porphyry. Med grey, with 1-2mm albite altered feldspar laths. Subtle brownish-orange ankerite (?) alteration. Moderately weathered surface.
964430	Rock	647514	6004533	1055	Moderately oxidized (limonite/ jarosite). Med grey on fresh surface. Subrounded, equigranular (1-4mm) plag grains ranging from white to yellowish-green tinge (altered to albite). Faint ankeritic (brownish-orange) alteration overprint. Pitted areas filled
964431	Rock	647524	6004503	1055	Moderately oxidized (limonite/ jarosite). Med grey on fresh surface. Subrounded, equigranular (1-4mm) plag grains ranging from white to yellowish-green tinge (altered to albite). Faint ankeritic (brownish-orange) alteration overprint. Pitted areas filled
964432	Rock	647540	6004482	1058	Heavily oxidized (black and orange staining on surface). Light grey on fresh surface, trace disseminated pyrite. (difficult to obtain sample which is not weathered straight through).
964433	Rock	647560	6004466	1065	Heavily oxidized; light grey on fresh surface. Subrounded yellowish-cream feldspar grains. Trace pyrite flecks.
964434	Rock	647592	6004466	1072	Same location as AA16.
964435	Rock	646847.68	6004666.82	1800.181	Magnetite-biotite-feldspar-phyrlic intrusive. Med grey, med grained groundmass hosts: 30% euhedral, interlocked plag grains, <5% quartz; <5% biotite; <5% beautiful euhedral magnetite crystals; 10% Fe carbonate; 5% relict, brownish-tan, prismatic hornblend

Site 'C' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
964436	Rock	646948.99	6004755.42	1836.47	Magnetite-biotite-feldspar intrusive. (Same as AA09). Brecciated: hosts 1-2cm subangular clasts of intrusive material.
964437	Rock	647068.62	6004876.78	1831.423	Magnetite-biotite-feldspar intrusive. Medium grey on fresh surface, slightly oxidized. Fine grained groundmass hosts: 10% plagioclase; 2% biotite; 2% magnetite (less impressive grains than AA09&AA10); 2% quartz. Strongly magnetic. Brecciated texture. Fe-c
964438	Rock	647210.18	6005066.32	1803.545	Magnetite-biotite-feldspar intrusive. Lacking nice granitic, porphyritic texture. Possibly flow?
964439	Rock	647818.8	6004411.88	1841.757	Magnetite-biotite-feldspar intrusive. Weathered surface: porphyritic texture. Fresh surface: greenish-grey, med grained groundmass, hosts: 20% euhedral plagioclase; 5% euhedral magnetite crystals; 5% biotite booklets. Strongly magnetic. Fe-carbonate alter
964440	Rock	647696.45	6004430.1	1833.106	Biotite feldspar intrusive. Same rock type as AA09 - AA13, but not magnetic. Magnetite has altered to hematite. Feldspar has altered to soft clay.
964441	Rock	647643.42	6004454.57	1829.26	Biotite-feldspar intrusive. Not magnetic. Same description as AA14. Entirely bleached; no textures left. ~3% pyrite.
964442	Rock	647598.78	6004462.11	1822.772	Biotite-feldspar intrusive. Not magnetic. Same description as AA14. Entirely bleached; no textures left. ~3% pyrite.
964443	Rock	647592.57	6004464.15	1822.051	Biotite-feldspar intrusive. Not magnetic. Same description as AA14. Entirely bleached; no textures left. ~3% pyrite.
964454	Rock	647003.82	6004219.33	1041.226	Outcrop along west side of road. 3 mm chip sample across 18m exposed o/c siliceous; fractured; fine grained grey to maroon volcanics; finely disseminated pyrite (<10%); limonite/ hematite staining along fractures and weathered surfaces
964455	Rock	647002.07	6004221.41	1041.706	Outcrop along west side of road. 3 mm chip sample across 18m exposed o/c siliceous; fractured; fine grained grey to maroon volcanics; finely disseminated pyrite (<10%); limonite/ hematite staining along fractures and weathered surfaces
964456	Rock	646997.32	6004222.69	1040.505	Outcrop along west side of road. 3 mm chip sample across 18m exposed o/c siliceous; fractured; fine grained grey to maroon volcanics; finely disseminated pyrite (<10%); limonite/ hematite staining along fractures and weathered surfaces
964457	Rock	646995.46	6004225.77	1040.505	Outcrop along west side of road. 3 mm chip sample across 18m exposed o/c siliceous; fractured; fine grained grey to maroon volcanics; finely disseminated pyrite (<10%); limonite/ hematite staining along fractures and weathered surfaces
964458	Rock	646992.62	6004225.48	1039.784	Outcrop along west side of road. 3 mm chip sample across 18m exposed o/c siliceous; fractured; fine grained grey to maroon volcanics; finely disseminated pyrite (<10%); limonite/ hematite staining along fractures and weathered surfaces
964459	Rock	646990.79	6004226.33	1037.621	Outcrop along west side of road. 3 mm chip sample across 18m exposed o/c siliceous; fractured; fine grained grey to maroon volcanics; finely disseminated pyrite (<10%); limonite/ hematite staining along fractures and weathered surfaces

Site 'C' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
964460	Rock	646958.78	6004227.65	1039.784	Outcrop (3m chip samples across @ 260 deg) ADD DESC.
964461	Rock	646928.46	6004240.6	1031.613	Outcrop (3m chip samples across @ 260 deg) ADD DESC.
964462	Rock	646924.5	6004240.95	1032.333	Outcrop (3m chip samples across @ 260 deg) ADD DESC.
964463	Rock	646919.44	6004240.72	1032.574	Outcrop (3m chip samples across @ 260 deg) ADD DESC.
964464	Rock	646916.63	6004240.11	1032.574	Outcrop (3m chip samples across @ 260 deg) ADD DESC.
964465	Rock	646914.44	6004237.24	1032.333	Outcrop (3m chip samples across @ 260 deg) ADD DESC.
964466	Rock	646854.32	6004283.54	1030.651	Outcrop in east side of road. 3m chip samples. Quartz feldspar porphyry; minor disseminated pyrite; hematite. Manganese. Trace magnetite.
964467	Rock	646853.09	6004284.73	1030.411	Outcrop in east side of road. 3m chip samples. Quartz feldspar porphyry; minor disseminated pyrite; hematite. Manganese. Trace magnetite.
964479	Rock	653441.24	6003421.8	916.448	Feldspar Porphyry. Green and massive. 20-25% euhedral milky white oligoclase. 1-2% anhedral pink potassium feldspar. 15-20% hornblende that have been altered to hematite and iron oxides. Groundmass is green and aphanitic.

Site 'D' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
964444	Rock	668925	6008523.99	1770.38	
964445	Rock	668901.63	6008579.41	1768.458	
964446	Rock	668775.41	6008646.29	1767.737	
964447	Rock	671885.15	6008281.74	1824.454	Biotite-plag-phyric porphyry. Rounded boulder in mag high area (near WAM13). Light grey, fine grained, porphyritic. Hosts: 25% euhedral plag grains altered to albite; 10% biotite. Strongly magnetic.
972433	Rock	671600.32	6008489.03	1781.676	originally described as soil sample
972435	Rock	671489.46	6008494.92	1777.109	originally described as soil sample
972438	Rock	671338	6008495.49	1773.024	originally described as soil sample
972454	Rock	670497.35	6008518.36	1762.209	originally described as soil sample
972477	Rock	669303.64	6008504.35	1780.234	originally described as soil sample

Site 'E' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
965389	Rock	651366.32	5983971.55	864.319	Plag-bt phyric lava, dark grey aphanitic groundmass, plag up to 3-8%, bt up to 1-2%. Purple quartz infilling vesicles (late)
965390	Rock	651380.25	5983948.73	872.053	Microcrystalline dark grey-green lava as seen at R45.
965391	Rock	651354.7	5983893.11	885.514	Just above R49. Contact between 2 rock types. Plag-Bt phyric lava seen at R47.
965408	Rock	651067.97	5983878.32	913.847	Outcrop is an orange to maroon on the weathered surface. Flow laminations are visible in outcrop. On a fresh surface the rock is a dark grey colour, aphanitic and massive. Likely has a high quartz content because of harness and fracture. Rock is magnetic

Site 'E' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
965410	Rock	651170.14	5983701.7	1000.26	Dark grey to black magnetic and microcrystalline. This outcrop is finer grained compared to other outcrops in the area that have a sugary texture. No carbonate. Stockwork quartz veins visible on weathered surface. Dacitic composition.
965412	Rock	651167.21	5983505.19	964.037	Subcrop at a blow down tree. Appears to be angular fragments broken from an outcrop below tree roots, although it could be float. Fine grained aphanitic beige to pale green colour. Green blebs or vesicle fill could be clay minerals (?) and make up 3% of
965413	Rock	650824.13	5984852.39	846.224	Light grey aphanitic with 10% plagioclase (<3mm) and 3% biotite (<2mm). Biotite laths appear to be replaced by sericite/clay and have left behind small holes (pocks) where secondary alteration minerals have washed away. Non-magnetic, no carbonate.
965414	Rock	650821.5	5984854.64	844.938	Adjacent to sample 965413, where a contact runs at 340°. This unit is located to the east of the contact. Flow banded and weakly carbonaceous this rock is cream to pale green in colour. Rhyolitic in composition. ellipsoid vesicles or dissemination vugs a
965416	Rock	650767.4	5985081.82	863.991	Stockwork quartz and hematite veins up to 2cm wide. Rock is dacitic in composition with an grey aphanitic groundmass that contains 20-25% plagioclase phenocrysts. It is weakly magnetic.
965418	Rock	650795.21	5985017.47	858.017	Plagioclase -biotite phyric dacite. Intense quartz-hematite stockwork veining, creates a breccia texture locally. Weakly magnetic, biotite (and hornblende?) phenocrysts appear to be altered to hematite.
965419	Rock	650854.5	5985532.94	830.132	plagioclase-biotite(hornblende?) phyric dacite. Phenocrysts make up 20-25% of rock. There are iron oxides along fractures locally. Mafic minerals appear to be weathering to a bright green clay mineral (possibly copper bearing material). This green mineral
965421	Rock	663252.95	5986906.35	893.523	Goethite and hematite stained rhyolite. On a fresh surface the rock has a light grey colour and has a high quartz content. There are alternating grey and whiteflow bands. Quartz veins 0.5cm to 2cm wide also occur. There is 0.5-1% disseminated pyrite. Box

Site 'E' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
965423	Rock	663039.01	5986785.24	882.363	Iron oxide stained rhyolite with a high quartz content. Rock is a dull beige to grey colour with a possible breccia texture although difficult to tell because of orange iron oxide and quartz alteration overprint .
965424	Rock	663217.18	5986675.68	877.7	Massive white rhyolite. Iron oxide staining follows relict flow laminations and occurs along fracture surfaces. Up to 2% quartz crystals.
965426	Rock	663326.81	5986348.76	875	Massive white rhyolite. Iron oxide staining along fracture surfaces.

Site 'E' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
965459	Rock	659233.07	5989833.16	858.856	Silicified light grey to light pink/whitish Rhyolite. Lots of oxidation on fractures (yellow Limonite alteration). Very finely disseminated Pyr (tr-1%).
965460	Rock	651578.12	5984706.92	838.589	Ridge exposure. Plag-phyric dacite. Flow-banding textures. Plag phenocrysts up to 1-2cm, up to 8%. Grey aphanitic groundmass. Vesicles up to 1%, or 5% in top flows. Amygdaloids observed in top flows: green-dark green coating and chalcedony infill.
965462	Rock	651641.61	5984713.89	852.396	Flow-banded plagioclase phyric dacite. Grey aphanitic groundmass. 1-10 % plagioclase phenocrysts. Minor biotite (less than 1%). Brecciated intervals. Red green alteration colors.
965463	Rock	651672.58	5985047.29	836.736	Green altered hornblende plagioclase phyric volcanic rock. Small vesicles up to 1-2%. Plag 2-3%. Hornblende up to 3-5%. Numerous veins (quartz).
965465	Rock	652033.93	5984981.05	849.858	Green altered hornblende-bt-plagioclase phyric volcanic rock. Bt 2-4%, plag up to 5%. Quartz veining. Green aggregates observed (vesicles infill? Altered plagioclase?)
965467	Rock	651806.51	5985197.54	822.461	Grey-green altered volcanic rock. Bt 1-2mm, 1-2%. Plag 1-6mm, 1%. Numerous quartz veinlets. Flow-banding and fracturing.
965469	Rock	651385.61	5984764.33	841.163	Grey-green altered plag-phyric volcanic rock. 5-7% plag. Less than 1% bt.
965471	Rock	663600	5986475	859	Orange-rusty weathered pale yellow rhyolite flow. Plag 2-3%, qz eyes less than 1%, microcrystalline groundmass. Intense quartz veining (10-15cm thick). Slickenside surfaces.
965473	Rock	662906	5987786	882	Dark grey brown weathered lava. Plag 1-5mm, 2-3%. Hornblende 1-2mm, less than 1%. Dark grey aphanitic groundmass. Minor calcite.
965475	Rock	663765	5986532	857	Fragmental to coherent, white-pale yellow, orange-rusty weathered rhyolite. Green-grey lapilli size fragments, white angular ash fragments, crystals of plag are milky white. Very silicified.
965476	Rock	664279	5987046	858	Highly silicified, orange-rusty weathered, grey pale yellow rhyolite. Aphanitic to plag phyric (1%). Disseminated pyrite (less than 1%).

Site 'F' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
965364	Rock	654787.4	5981569.97	924.977	Biotite (1-2%)-plagioclase (5%) phyric dacite. Green altered aphanitic groundmass. Plagioclase is locally altered.
965365	Rock	656195.18	5981020.55	944.046	biotite (1-2%)-plagioclase (5%) phyric dacite. Biotite needles up to 3-4mm long.
965366	Rock	651014.57	5981216.43	1113.218	Pale yellow-grey flow banded lava and fragmental volcanic rock. Pale pink silicified fragments and grey intermediate fragments. Matrix has about 1% quartz, and plag. One piece of the sample could be just a random boulder.
965367	Rock	652147.15	5981141.25	1073.356	Flow banded aphanitic rhyolite, rusty orange weathered.
965368	Rock	652147.15	5981141.25	1073.356	Plagioclase phyric grey-green microcrystalline lava. Possibly contains calcite. Magnetic.

Site 'F' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
965369	Rock	652239.98	5981200.3	1073.421	Fine microcrystalline grey lava. No plag phenocrysts.
965370	Rock	652283.58	5981174.34	1051.132	Rusty weathered flow banded rhyolite. Biotite (less than 1%), plag 2-3%, white silicified groundmass
965372	Rock	652883.93	5981290.81	994.567	Orange rusty weathered flow banded rhyolite. White aphanitic silicified groundmass. Plag up to 5%, Biotite 1%
965373	Rock	652883.93	5981290.81	994.567	Grey green microcrystalline magnetic lava. Up to 1cm long biotite needles (1%). Plag rich groundmass
965375	Rock	652883.93	5981290.81	994.567	Pale green altered plagioclase biotite phyric lava. Weathered surface is dark brown. Could be a similar lava than sample 965372 but more intensely altered. Possible K-par (1-2%), biotite 1% (altered), pale lime green altered crystals (?)
965376	Rock	652008.05	5981504.82	1010.956	Grey green microcrystalline magnetic lava. Some calcite (?) crystals
965383	Rock	651683.64	5981635.97	1046.719	Rusty orange weathered flow-banded rhyolite. Up to 1% plag crystals. Quartz veinlets. Very silicified matrix.
965386	Rock	651727.55	5981638.63	1040.066	Rusty orange weathered flow-banded rhyolite. Up to 1% plag crystals. Quartz veinlets. Very silicified matrix.
965387	Rock	651467.03	5981466.33	1072.007	Contact between Blocky, massive microcrystalline dark grey dacite and Flow-banded orange rusty weathered rhyolite. Near vertical contact. Grey-green dacite has 4-5% plag, 1% altered hornblende, microcrystalline matrix.
965388	Rock	651438.77	5981432.79	1053.322	Flow banded orange rusty weathered rhyolite. Nearly vertical flow-banding.
965396	Rock	654983.53	5979033.29	1296.947	Epidote bearing granite, similar to 965395. Granite outcrop, pale pink colour, 15-20% plagioclase, <5% biotite, 2% epidote and 60-75% finer grained quartz and K-spar. Rock shows weak 2% porphyritic texture and is unaltered.
965397	Rock	657645.36	5980074.32	1009.182	Rock is magnetic and dark grey. Rock is dacite to andesite in composition with 5-10% plagioclase phenocrysts. Rock is relatively unaltered.
965399	Rock	658418.8	5979944.38	1118.135	Rock is magnetic and dark grey. Rock is dacite to andesite in composition with 5-10% plagioclase phenocrysts. Rock is relatively unaltered. Flow banding seen in outcrop.

Site 'F' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
965402	Rock	658450.06	5979885.09	1130.701	This dacite is pink/pale red in colour because of pervasive hematite alteration. This rock is aphanitic and has 5-10% plagioclase, 5% biotite and 2-3% quartz phenocrysts.
965405	Rock	658463.66	5979464.62	1141.716	This rock is aphanitic with 5% biotite and 10-15% plagioclase phenocrysts and is weakly magnetic. This outcrop fractures and weathers differently from previous ones. It breaks along planar fractures. Biotite and plagioclase phenocrysts are obvious on wea
965406	Rock	651729.44	5981568.65	1043.084	orange rusty weathered flow banded rhyolite
965407	Rock	651658.74	5981537.95	1045.415	orange rusty weathered flow banded rhyolite

Site 'F' - Rock Samples and Descriptions

SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
965427	Rock	658219.63	5980883.69	976.146	Outcrop in a clear cut. Red to maroon colour, aphanitic. 15-20% plagioclase, <2% biotite phenocrysts. Strong iron oxide staining on fracture surfaces. Rare green oxide staining (secondary copper mineral?). Pervasive hematite alteration in aphanitic ground
965450	Rock	655342	5976650.25	1375.12	Red-brown oxidized, Dark grey aphanitic lava. Less than 1% pyrite. Non magnetic.
965451	Rock	655243.78	5976559.78	1374.463	Red-brown oxidized, Dark grey aphanitic lava and breccia. Balck fragments are magnetic. Less than 1% to 1% disseminated pyrite. Non magnetic.
965452	Rock	660523.26	5978175.22	1058.171	Subcrop? Of brown-rusty weathered, very oxidized, grey-pale green flow laminated felsic volcanic rock. Plag (1-2%), hornblende? (1-2%), Pyrite up to 1%.
965454	Rock	660486.48	5978109.58	1072.301	Brown-grey weathered, dark grey-brown oxidized lava. Plag (2-5%), biotite (less than 1%). Late quartz-chalcedony vein infill. Manganese straining on fractures. Eocene?
965456	Rock	660242.83	5979357.11	1023.604	Very weathered flow-banded dark grey lava. Dark grey aphanitic groundmass. Few plag microcrysts and biotite (less than 1%). Eocene?
965458	Rock	651395.04	5979686.4	1081.898	Grey plagioclase phyric dacite. Plag up to 1%. Up to 1-2% calcite in the groundmass and as aggregates. Average magnetism.

Site 'G' - Rock Samples and Descriptions

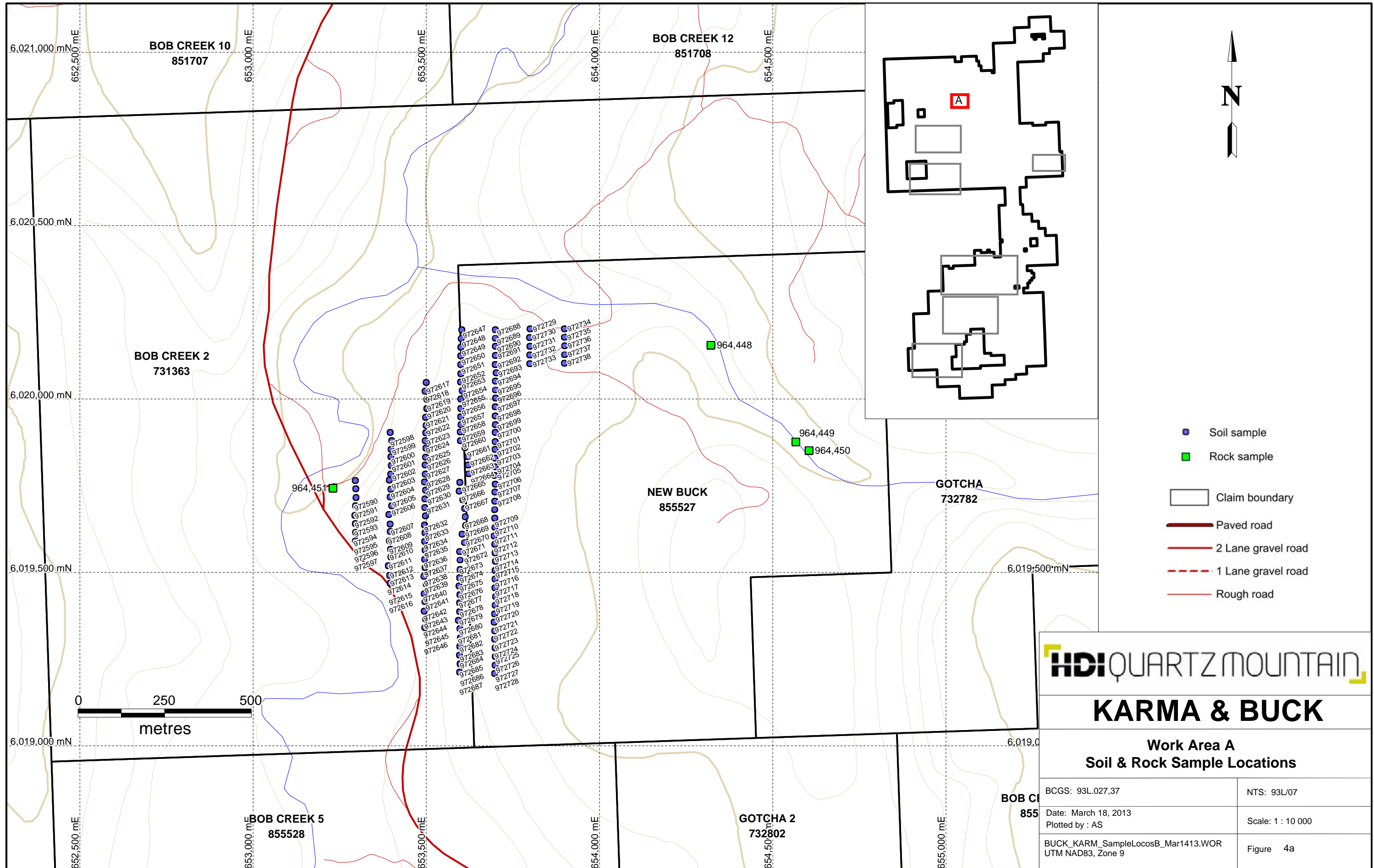
SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
965350	Rock	652348.34	5969062.03	1079.489	White orange yellow weathered grey fragmental felsic? rock. Very silicified. Hematite staining.
965351	Rock	652134.68	5970515.17	1182.854	Hornblende biotite plagioclase prophyry
965352	Rock	652020.4	5970416.58	1171.058	Rusty weathered flow banded rhyolite with less than 1% quartz eyes
965353	Rock	650628.52	5970157.96	1152.431	Volcaniclastic rock with angular felsic and mafic fragments, quartz eyes, plagioclase in matrix. Clasts up to 3-4 cm. Weak selective sericite alteration on mafic clasts. Matrix supported.
965354	Rock	649195.83	5970874.62	1349.87	Bedded volcaniclastic rock. Angular clasts of felsic and intermdiate lava. Similar to R07.
965355	Rock	649050.44	5970926.42	1405.417	Bedded volcaniclastic rock. Angular clasts of felsic and intermdiate lava. Similar to R07. Quartz eyes up to 1%.
965356	Rock	648808.56	5971182.81	1446.891	Flow-banded silicified rhyolite. Veining. Disseminated pyrite less than 1%. Rusty color dur to iron oxide weathering. Plagioclase crystals.
965357	Rock	648677.27	5971149.67	1467.562	Flow-banded silicified rhyolite. Veining. Disseminated pyrite less than 1%. Rusty color dur to iron oxide weathering. Plagioclase crystals.
965358	Rock	651413.51	5972596.74	1372.08	Fragmental felsic volcanic rock. Subangular felsic fragments 5mm to 3cm. Green matrix. Fragments make up 25-30% of rock. Subte clay alteration of felsic fragments. Plag crystals up to 10%. Fe staining 5% (fe carb?). Locally carbonate? veins with a median

Site 'G' - Rock Samples and Descriptions

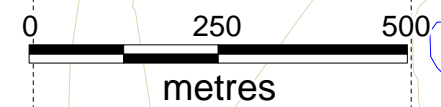
SAMPLE	SAMPLETYPE	EASTING	NORTHING	Elevation (m)	DESCRIPTION
965359	Rock	651869.2	5973155.39	1440.509	Flow banded rhyolite. Aphanitic groundmass, silicified. Plag crystals up to 5%. Strong clay sericite alteration. Weak Fe-oxidation staining. Plag altered to clay minerals.
965377	Rock	646124.64	5971520.12	1373.005	Finely flow-banded to massive, orange brown weathered, dark grey plagioclase-quartz phyric dacite. Plag (les than 1% to 2%), quartz (less than 1%), Pyroxene? (less than 1%). Aphanitic groundmass. Pale green alteration mineral surrounding plagioclase. This
965379	Rock	646513.87	5971243.4	1370.944	Flow-banded to massive plagioclase phyric dacite. Plag phenocrysts 1-3%, up to 5mm, biotite (less than 1%).
965381	Rock	646859.65	5971010.11	1338.907	Flow-banded plagioclase phyric dacite. Grey aphanitic groundmass. 2-4% plagioclase phenocrysts.

APPENDIX D

Sample Locations and Results Maps



- Soil sample
- Rock sample
- Claim boundary
- Paved road
- 2 Lane gravel road
- 1 Lane gravel road
- Rough road

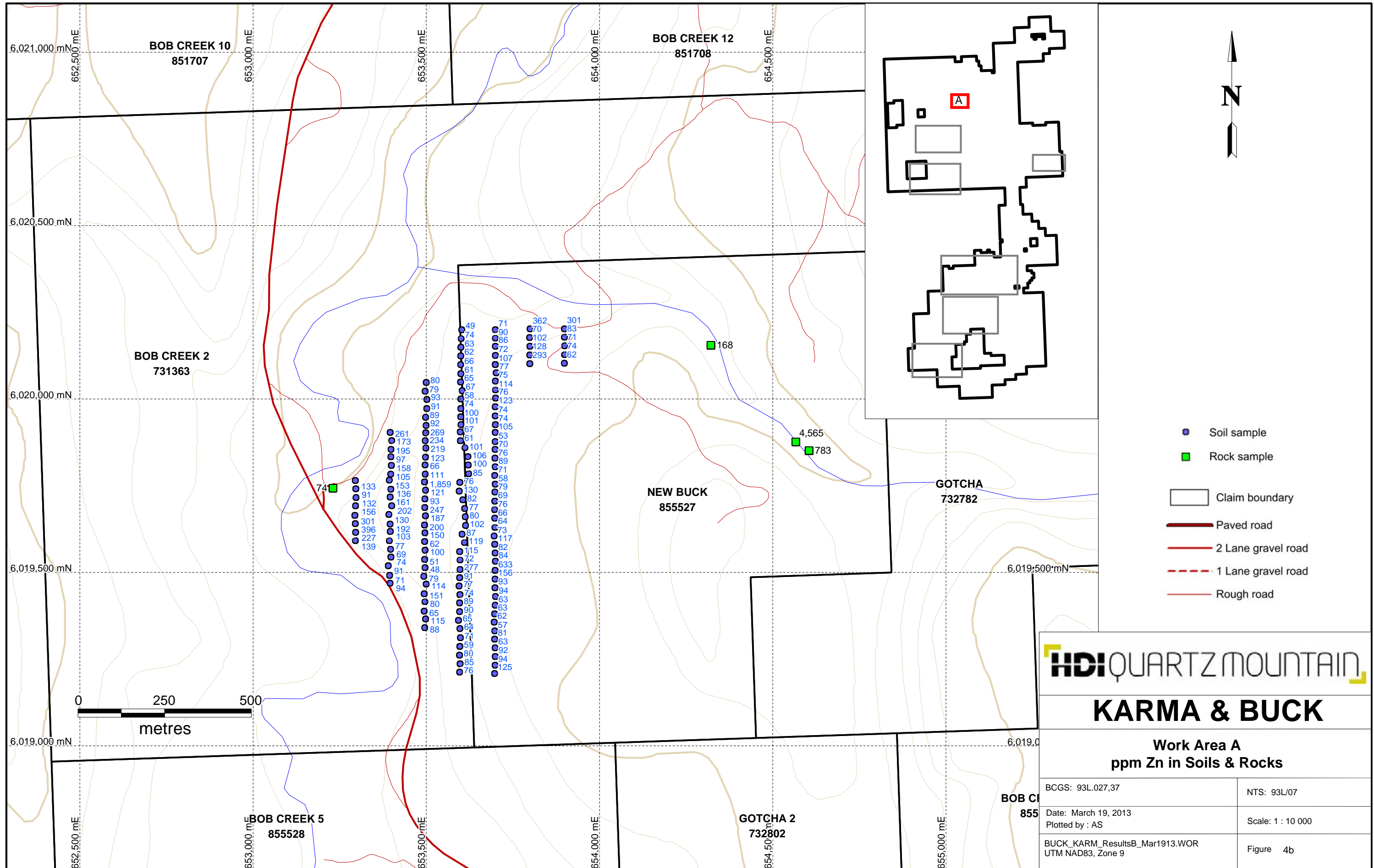


HDI QUARTZ MOUNTAIN

KARMA & BUCK

Work Area A Soil & Rock Sample Locations

BCGS: 93L.027,37	NTS: 93L/07
Date: March 18, 2013 Plotted by : AS	Scale: 1 : 10 000
BUCK_KARM_SampleLocosB_Mar1413.WOR UTM NAD83, Zone 9	Figure 4a



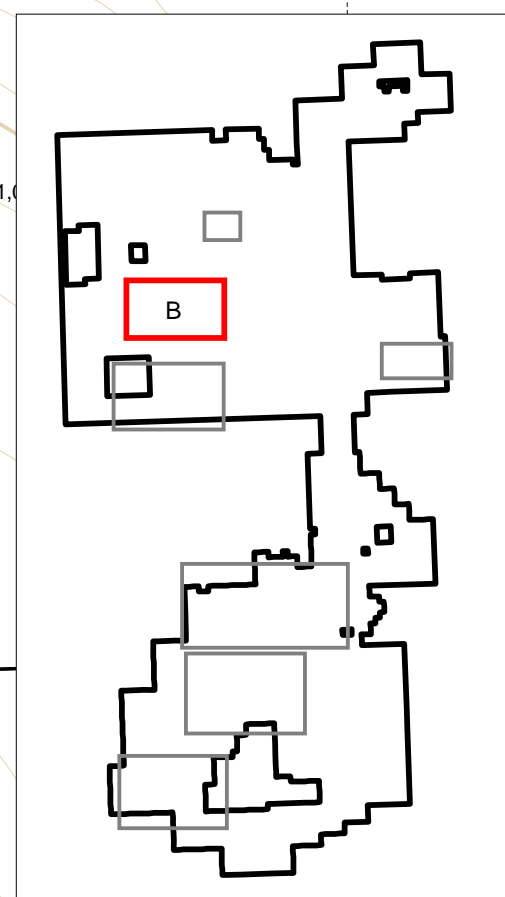
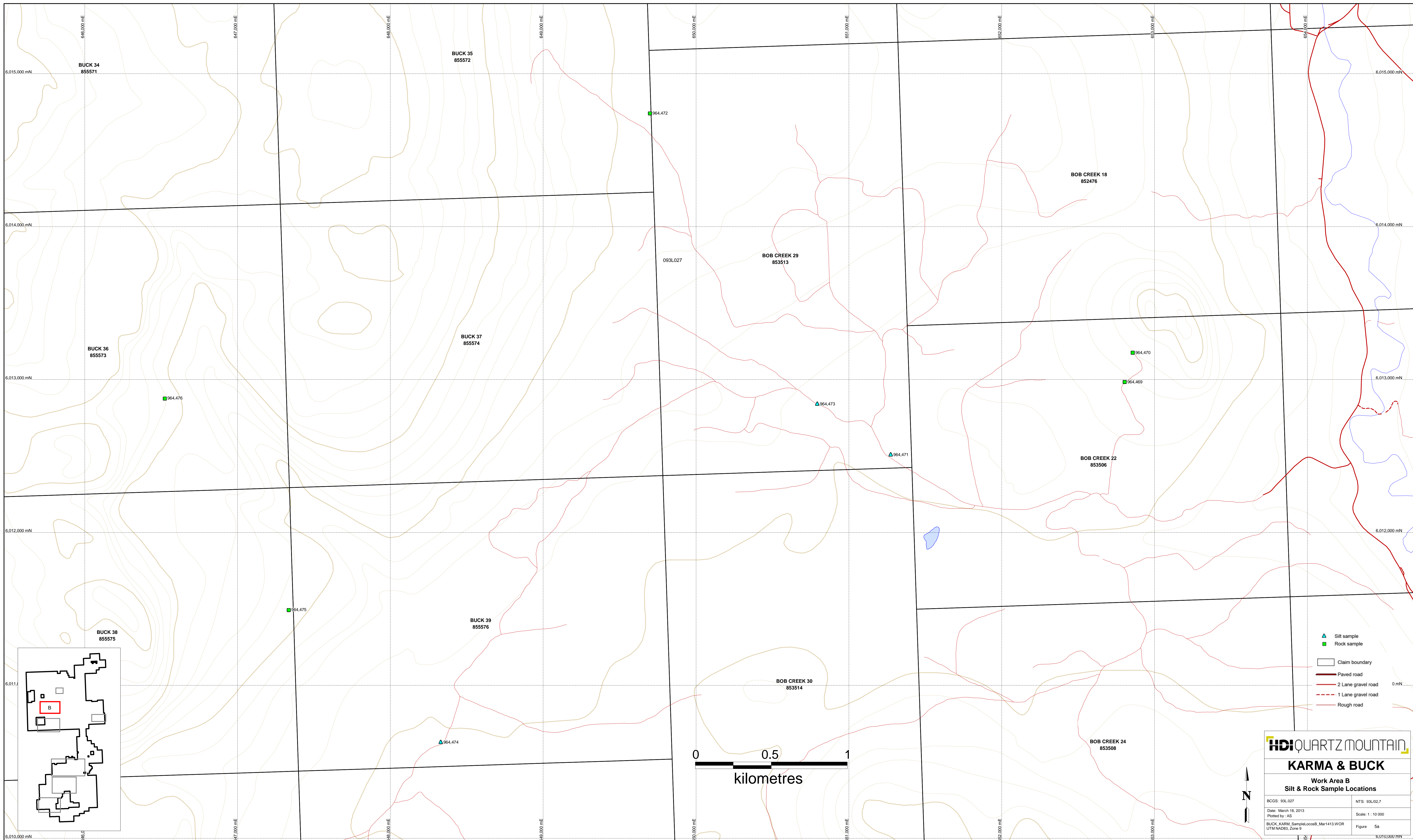
- Soil sample
- Rock sample
- Claim boundary
- Paved road
- 2 Lane gravel road
- 1 Lane gravel road
- Rough road

HDI QUARTZ MOUNTAIN

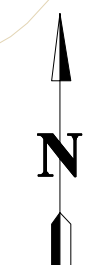
KARMA & BUCK

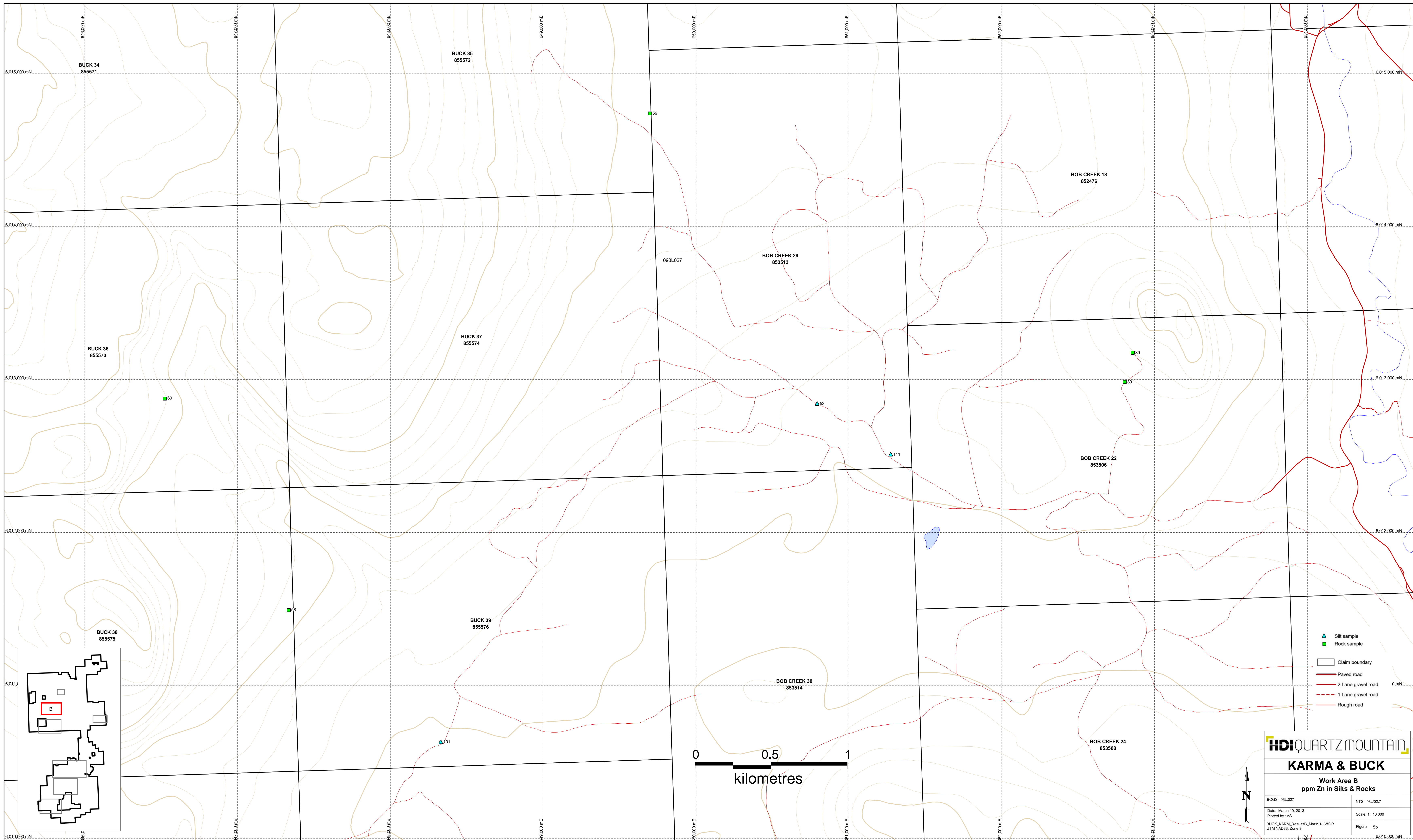
Work Area A
ppm Zn in Soils & Rocks

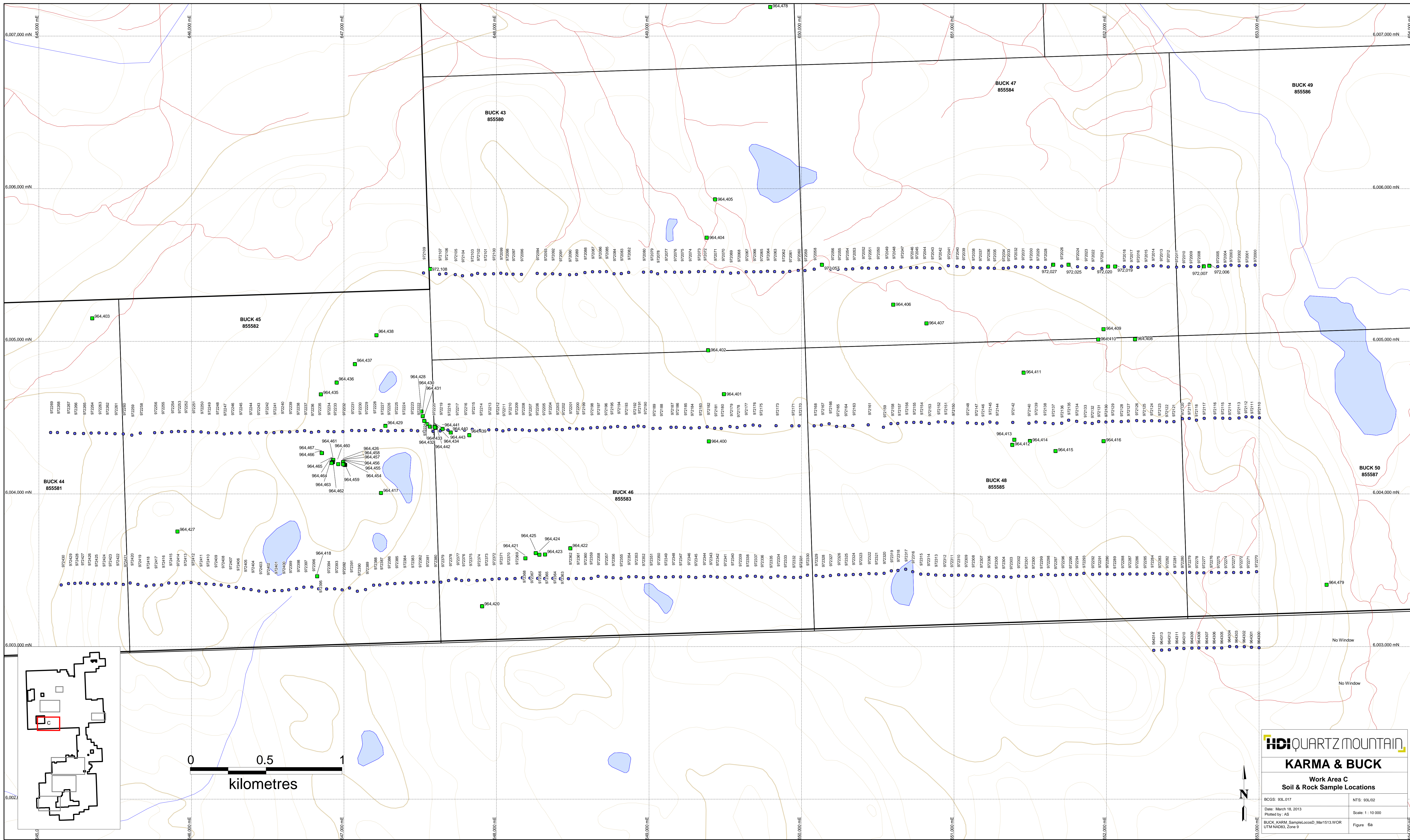
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Date: March 19, 2013 Plotted by : AS	Scale: 1 : 10 000
BUCK_KARM_ResultsB_Mar1913.WOR UTM NAD83, Zone 9	Figure 4b



- ▲ Silt sample
- Rock sample
- Claim boundary
- Paved road
- 2 Lane gravel road
- 1 Lane gravel road
- Rough road

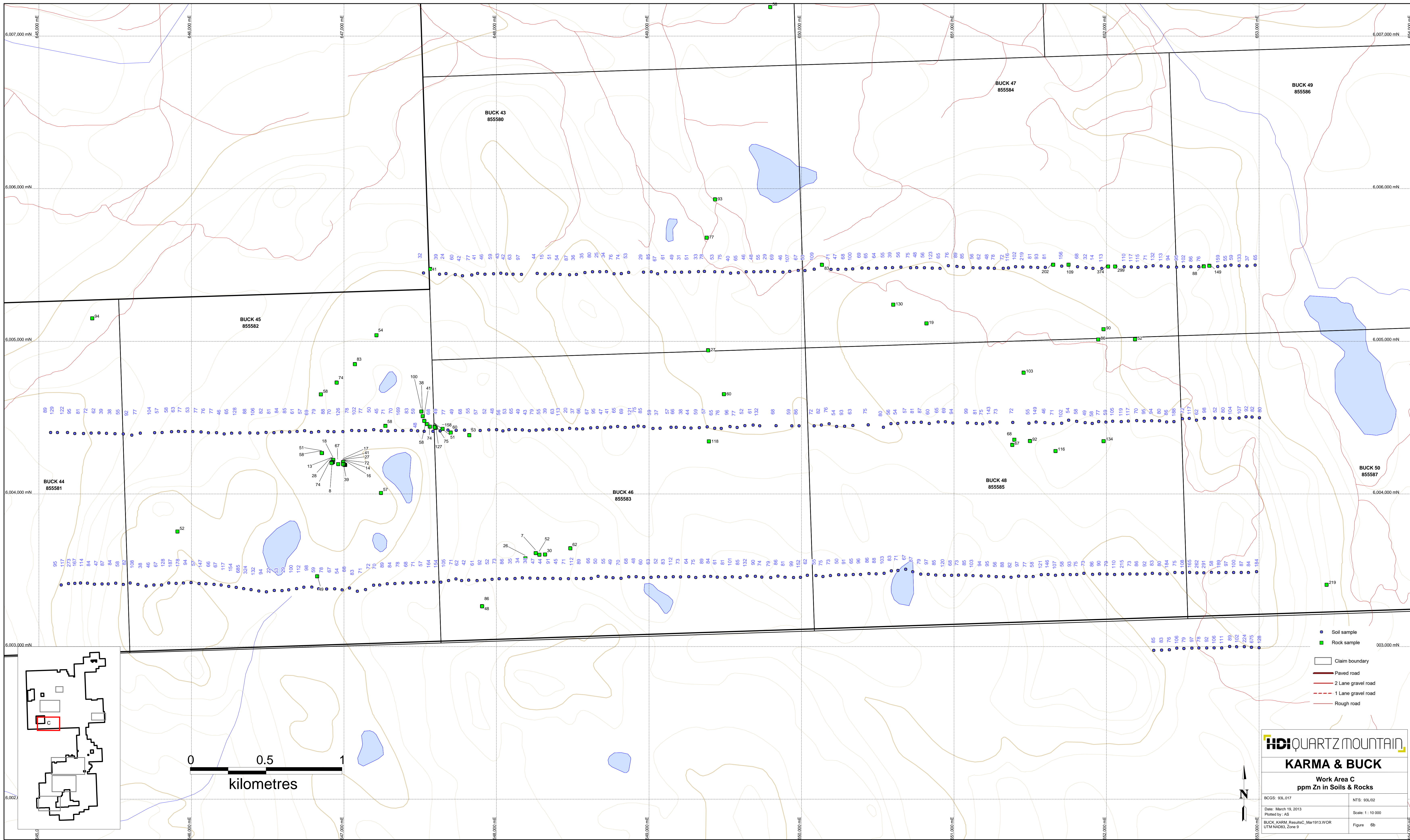






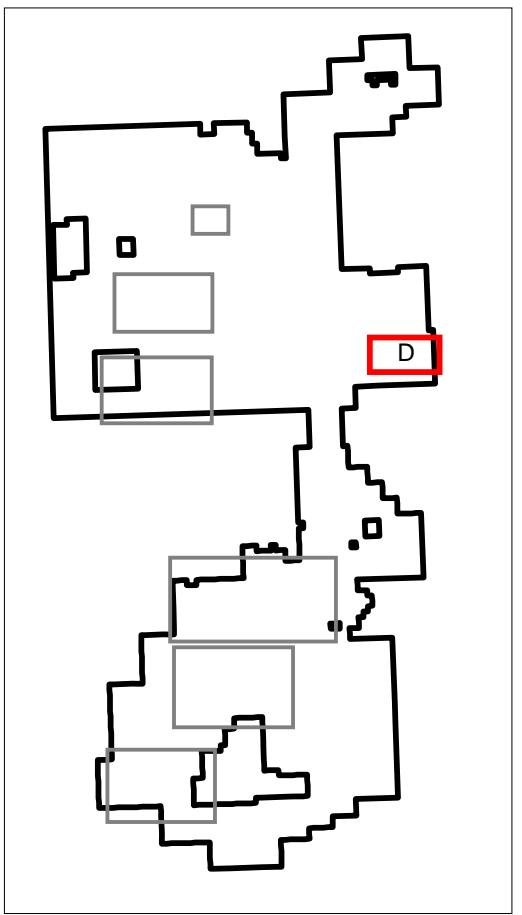
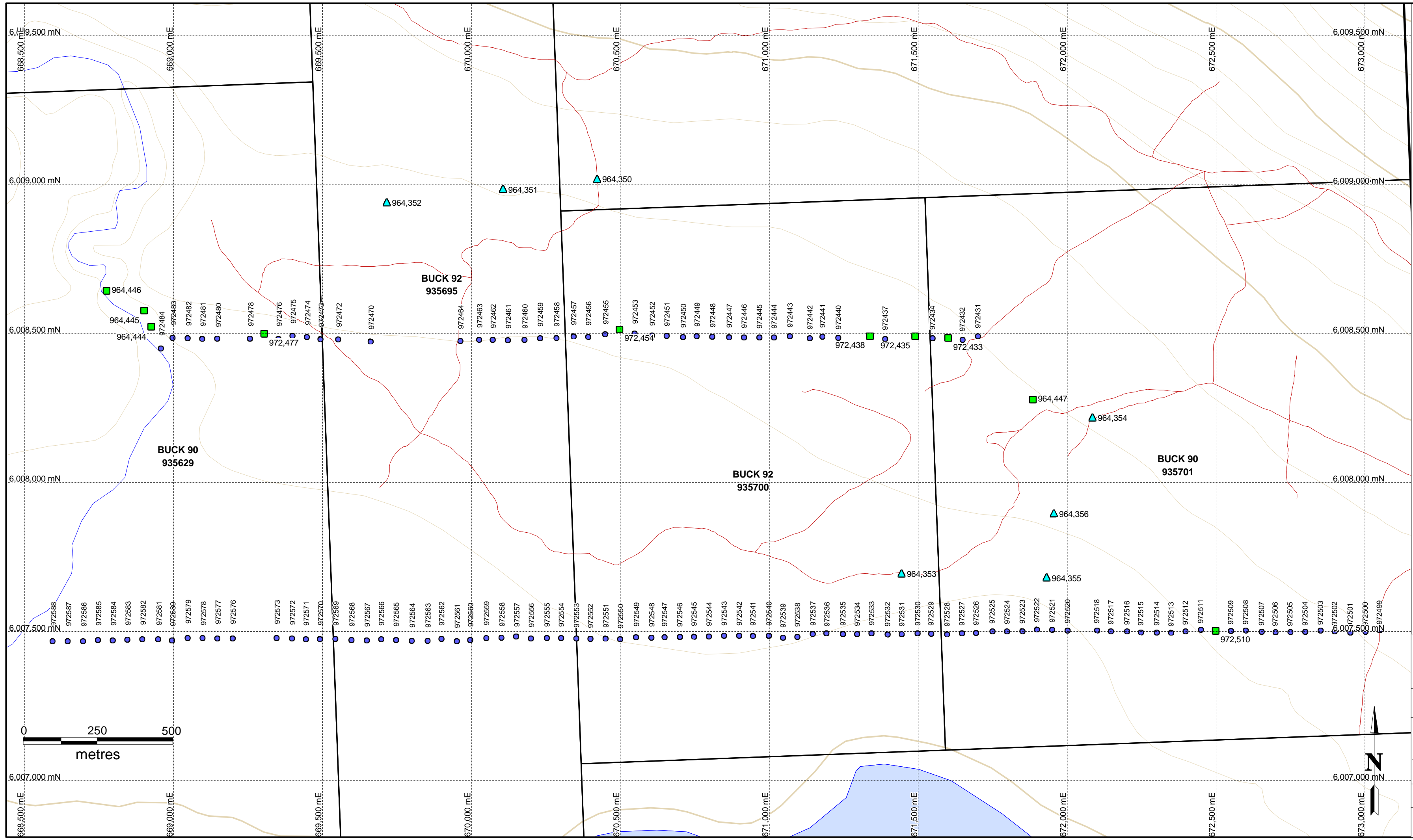
HDI QUARTZ MOUNTAIN
KARMA & BUCK
 Work Area C
 Soil & Rock Sample Locations

BCGS: 93L/017	NTS: 93L/02
Date: March 18, 2013	Scale: 1:10,000
Printed by: JAS	Figure 6a
BUCK_KARMA_SampleLocosD_Mar1513.WOR	
UTM: MADRS, Zone 9	



HDI QUARTZ MOUNTAIN
KARMA & BUCK
 Work Area C
 ppm Zn in Soils & Rocks

BCGS: 93L017	NTS: 93L02
Date: March 19, 2013 Plotted by: JAS	Scale: 1:10,000
BUCK_KARMA_ResultsC_Mar1913.WOR UTM MADS, Zone 9	Figure 6b



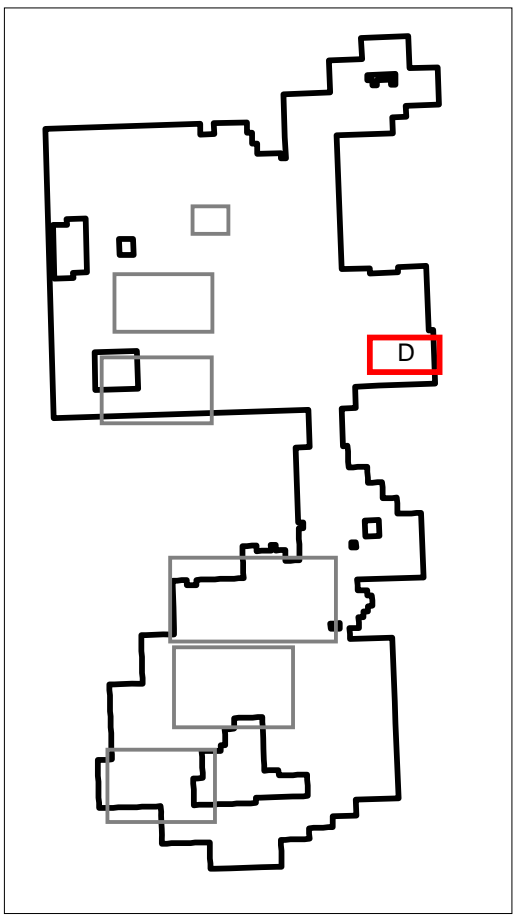
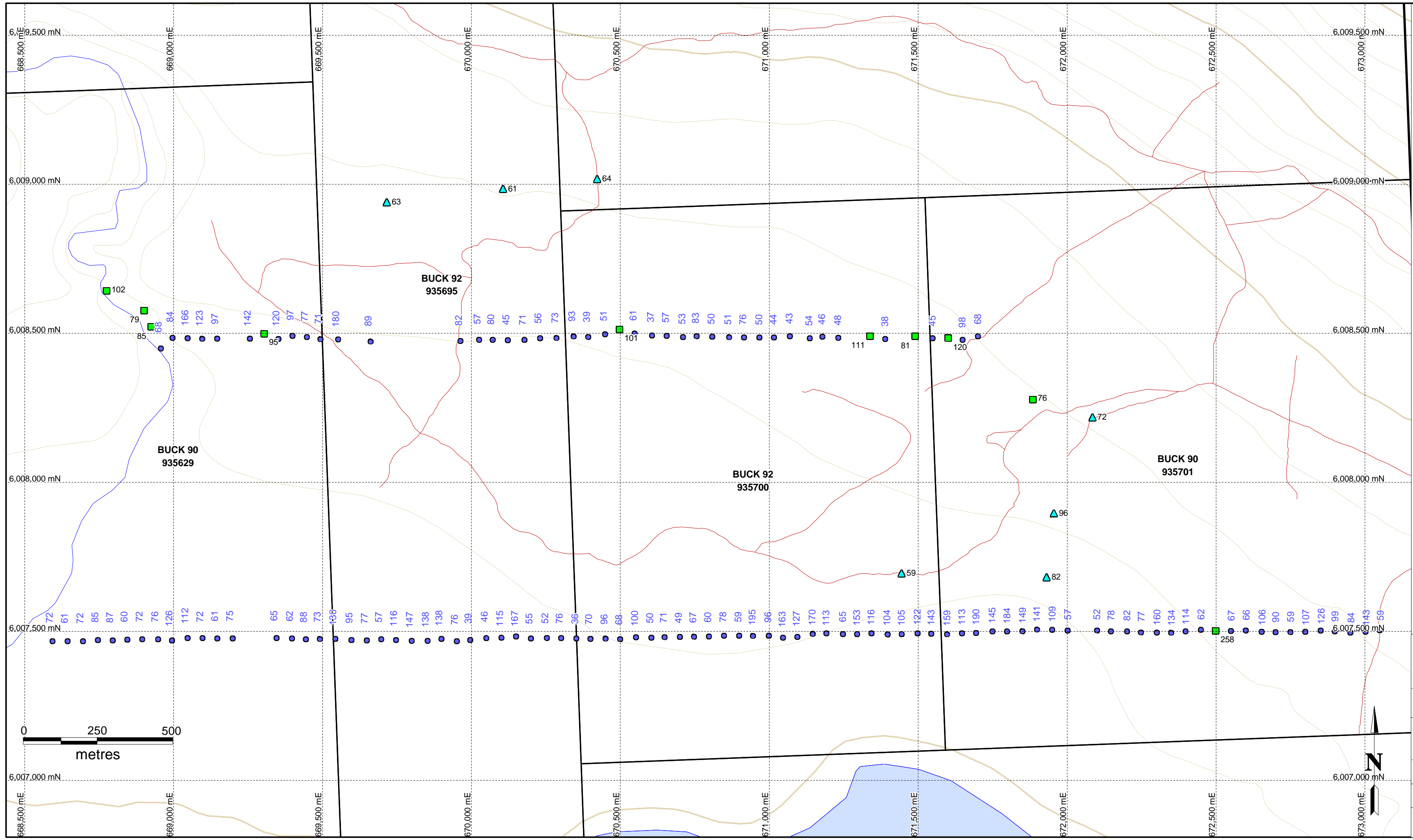
- Soil sample
- ▲ Silt sample
- Rock sample
- Claim boundary
- Paved road
- 2 Lane gravel road
- 1 Lane gravel road
- Rough road

HDI QUARTZ MOUNTAIN

KARMA & BUCK

**Work Area D
Soil, Silt & Rock Sample Locations**

BCGS: 93L.018,19,29	NTS: 93L/01
Date: March 18, 2013 Plotted by: AS	Scale: 1 : 10 000
BUCK_KARM_SampleLocosD_Mar1513.WOR UTM NAD83, Zone 9	Figure 7a



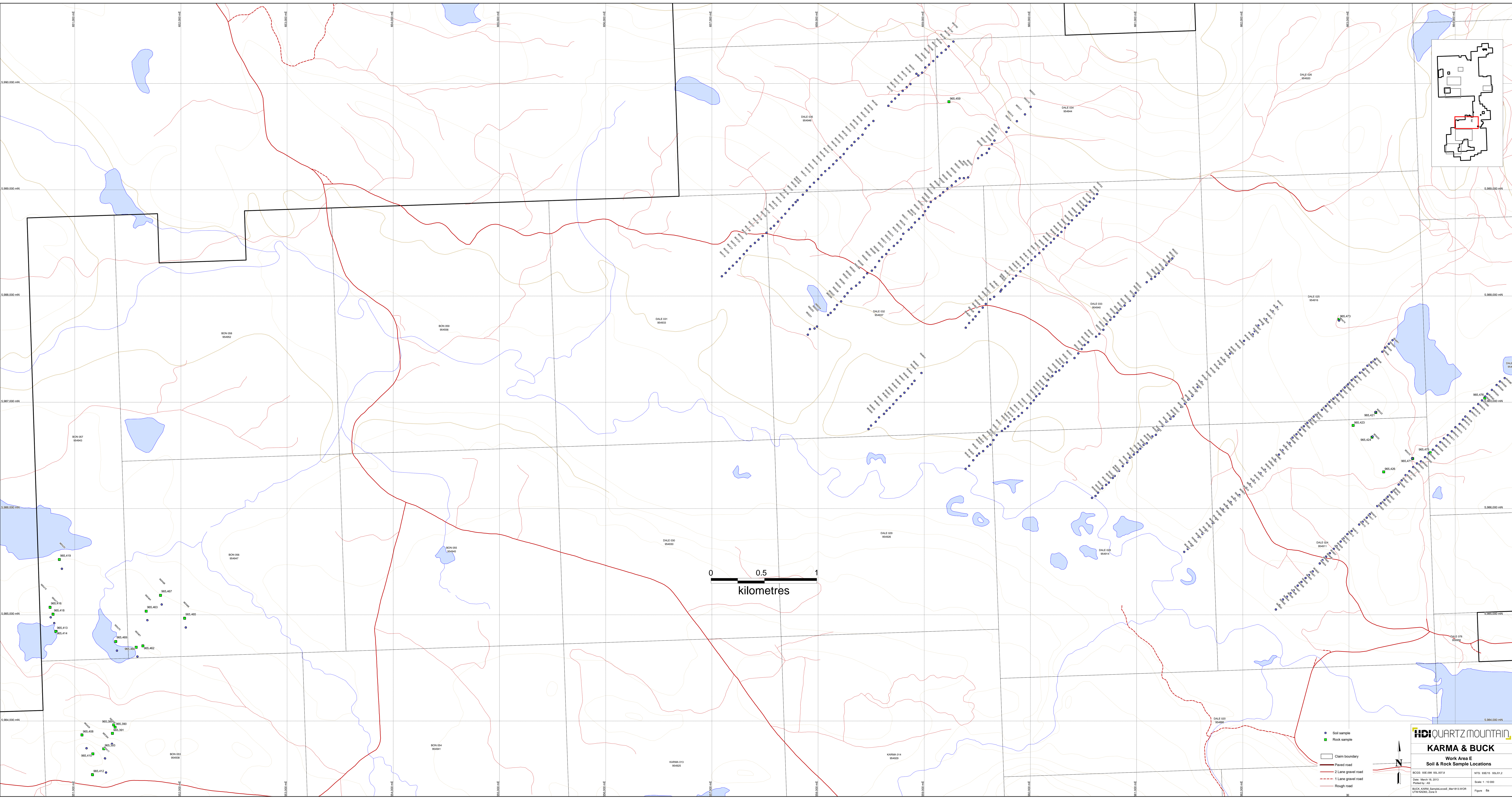
- Soil sample
- ▲ Silt sample
- Rock sample
- Claim boundary
- Paved road
- 2 Lane gravel road
- 1 Lane gravel road
- Rough road

HDI QUARTZ MOUNTAIN

KARMA & BUCK

Work Area D
ppm Zn in Soils, Silts & Rocks

BCGS: 93L.018,19,29	NTS: 93L/01
Date: March 19, 2013 Plotted by: AS	Scale: 1 : 10 000
BUCK_KARM_ResultsD_Mar1913.WOR UTM NAD83, Zone 9	Figure 7b



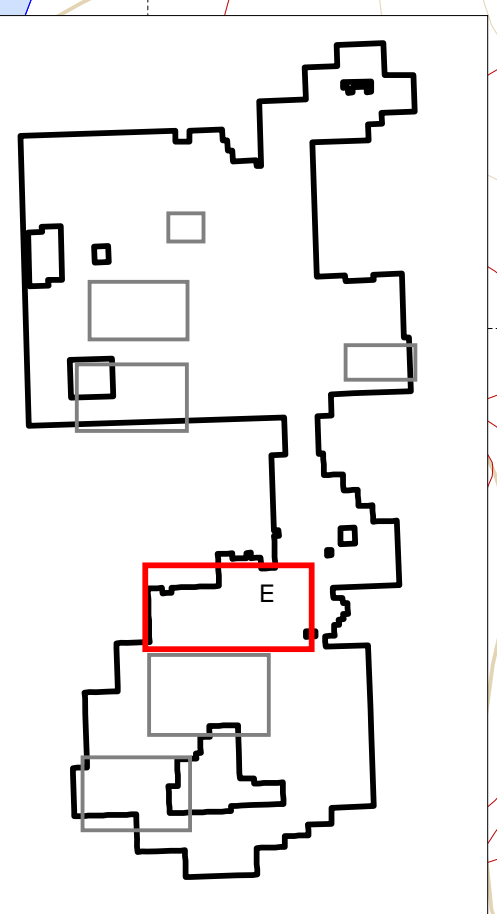
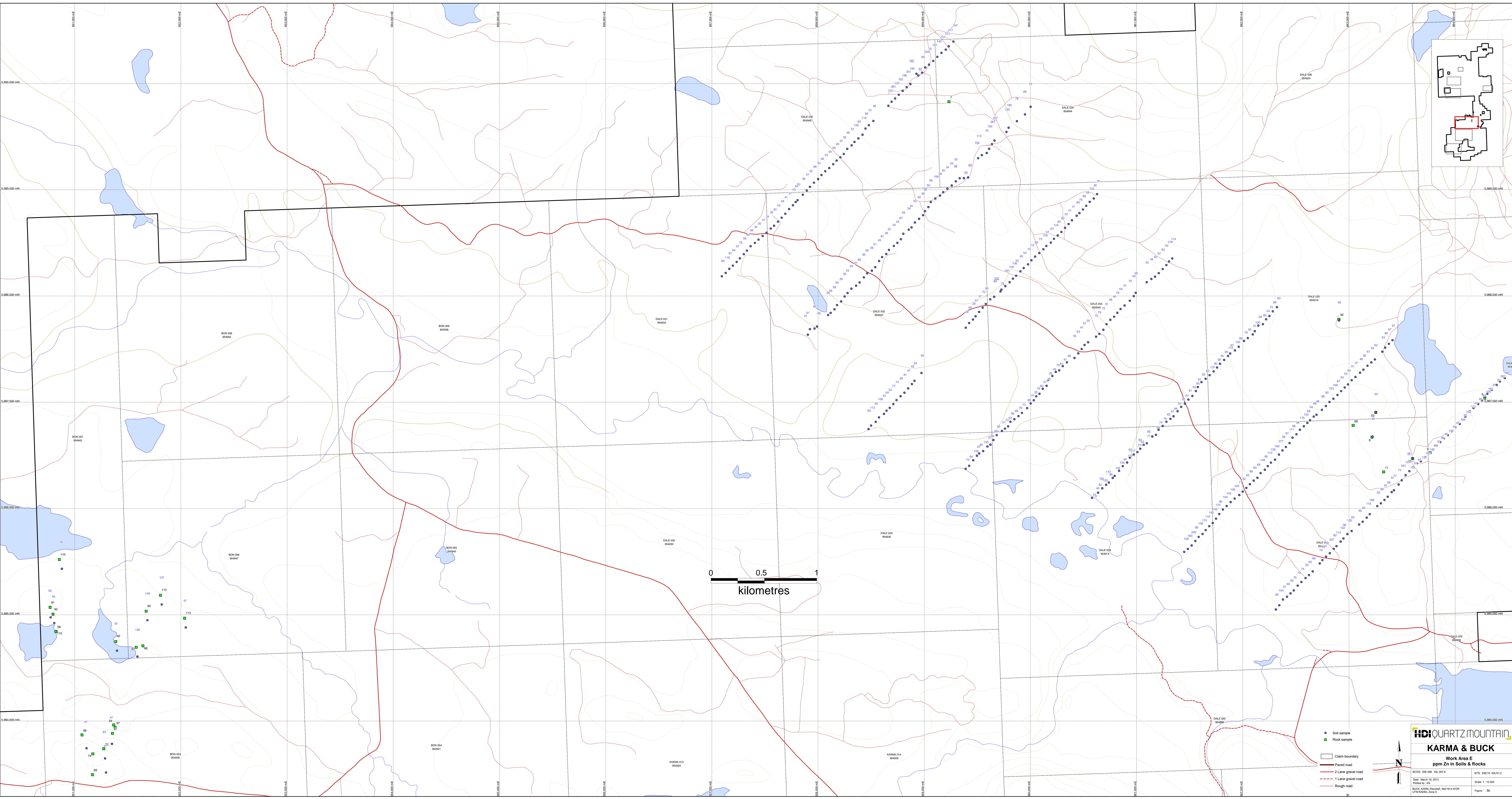
0 0.5 1
kilometres

HDI QUARTZ MOUNTAIN
KARMA & BUCK
 Work Area E
 Soil & Rock Sample Locations

■ Soil sample
 ■ Rock sample

□ Claim boundary
 — Paved road
 — 2 Lane gravel road
 — 1 Lane gravel road
 - - - Rough road

N
 Scale 1:10,000
 Date: March 18, 2013
 Plotted by: AS
 BUCK KARMA SampleCode: Mar1813WOR
 UTM MGRS Zone 8
 NTS: 89E16 96U12
 Figure 8a

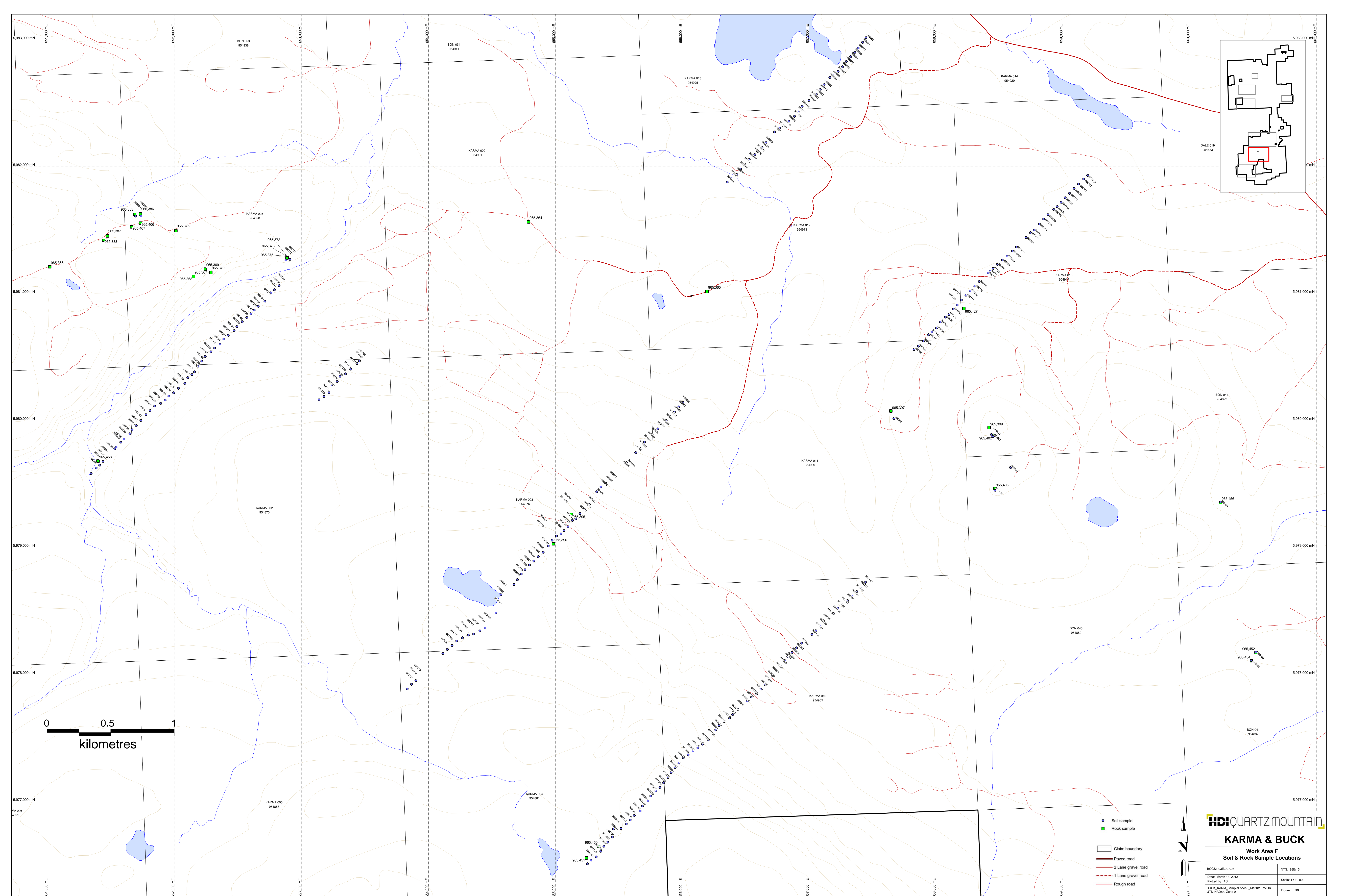


0 0.5 1
kilometres

- Soil sample
- Rock sample
- Claim boundary
- Paved road
- 2 Lane gravel road
- 1 Lane gravel road
- Rough road

HDI QUARTZ MOUNTAIN
KARMA & BUCK
 Work Area E
 ppm Zn in Soils & Rocks

BC25 02E/09 05L/07/8 NTS 09E/15 05L/01/2
 Date: March 19, 2013 Plotted by: AS Scale: 1:10,000
 BUCK KARMA Resource_Mar1913.WOR Figure: 8b
 UTM MGRS Zone 8



0 0.5 1
kilometres

- Soil sample
- Rock sample
- Claim boundary
- Paved road
- 2 Lane gravel road
- - - 1 Lane gravel road
- Rough road



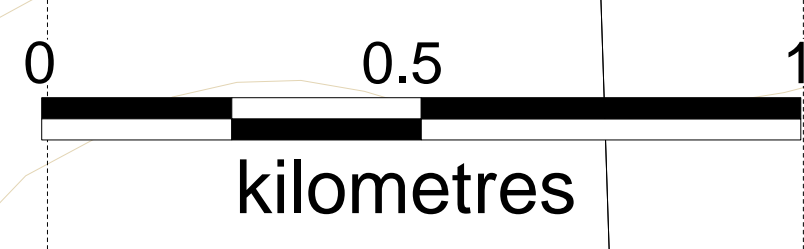
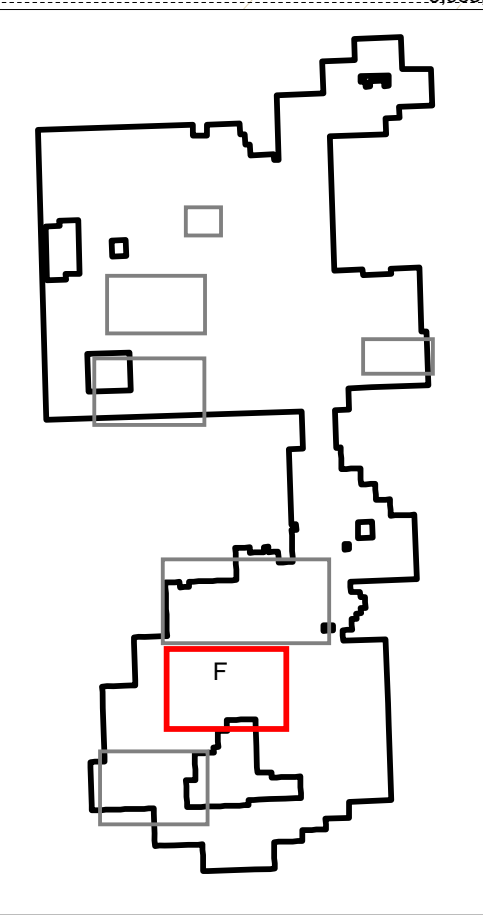
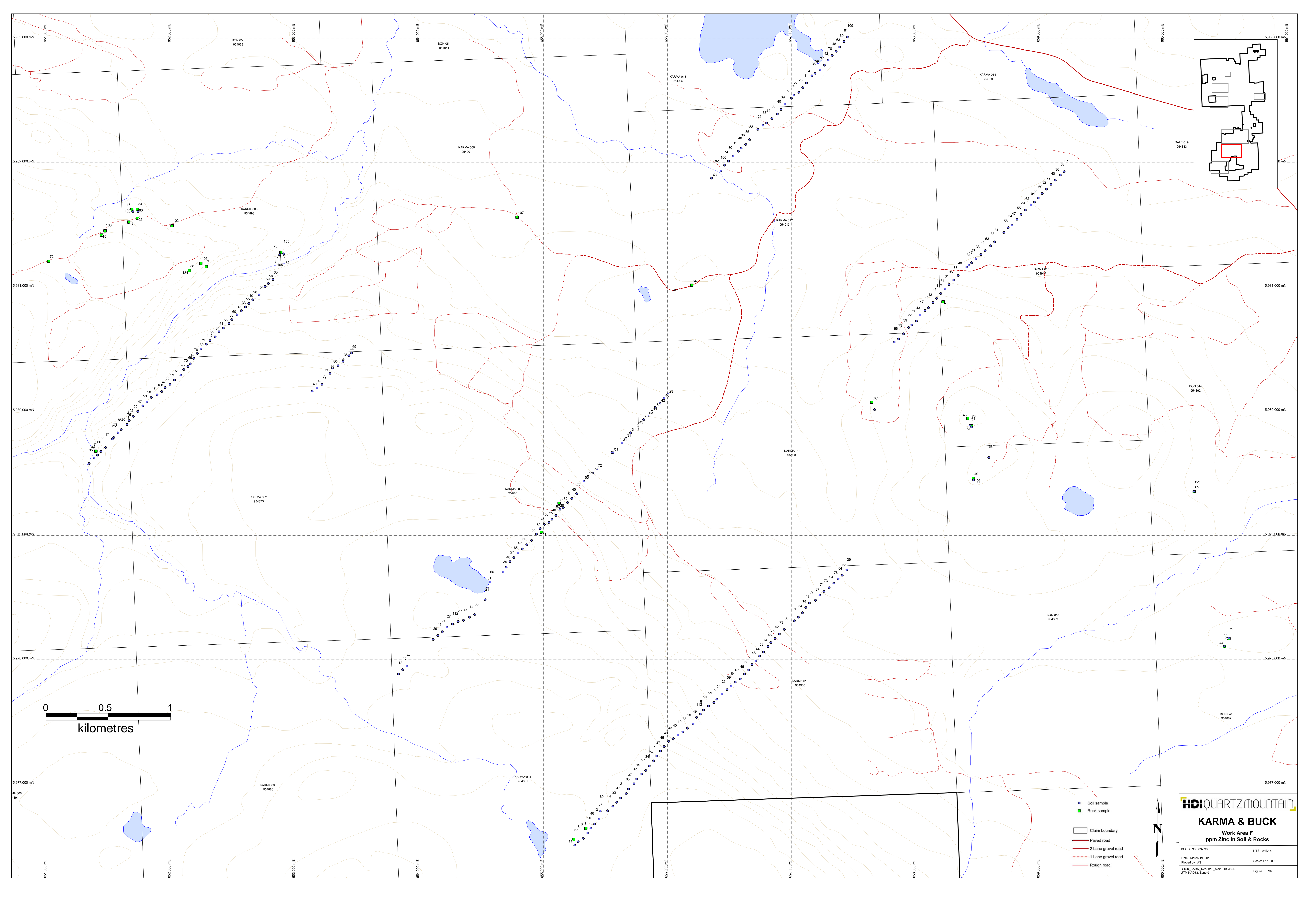
HDIQUARTZ MOUNTAIN

KARMA & BUCK

Work Area F

Soil & Rock Sample Locations

BCOS: 93E.097.08	NTS: 93E/15
Date: March 18, 2013	Scale: 1 : 10 000
Plotted by: AS	Figure: 9a
BUCK_KARM_Sample_coord_Mar1813.WOR	
UTM NAD83, Zone 9	



- Soil sample
- Rock sample
- Claim boundary
- Paved road
- 2 Lane gravel road
- 1 Lane gravel road
- Rough road



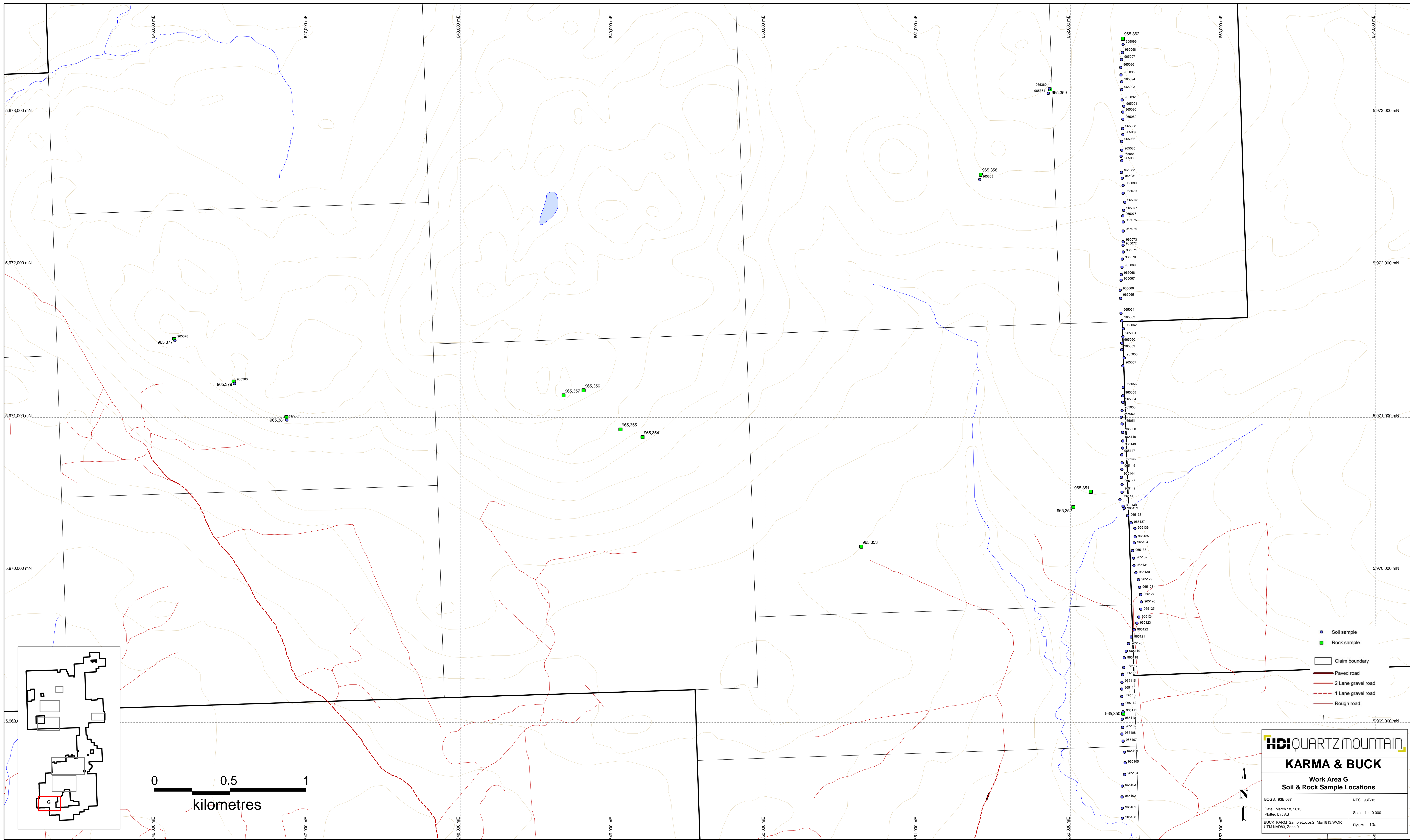
HDIQUARTZ MOUNTAIN

KARMA & BUCK

Work Area F

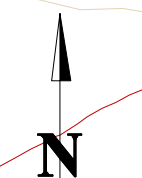
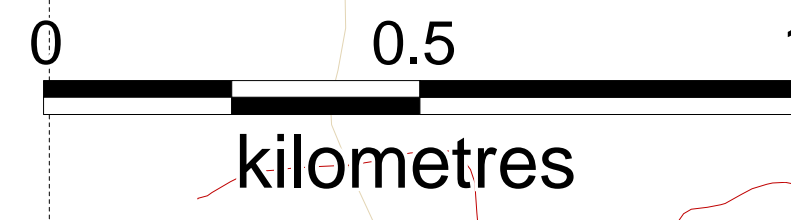
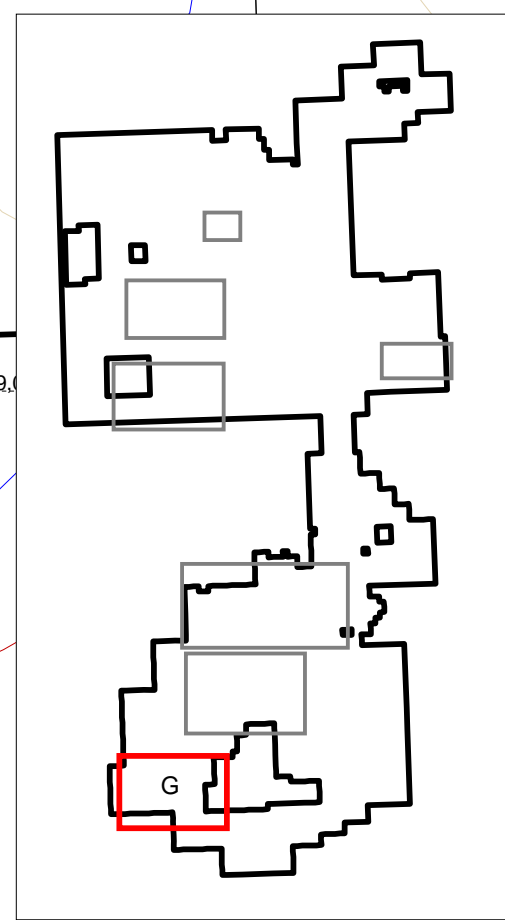
ppm Zinc in Soil & Rocks

BCGS: 93E,097,98	NTS: 93E/15
Date: March 19, 2013	Printed by: AS
BUCK_KARMA_ResultF_Mar1913.WOR	Scale: 1 : 10 000
UTM MADCS, Zone 9	Figure: 9b



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- 965,203
- 965,202
- 965,201
- 965,200

- Soil sample
- Rock sample
- Claim boundary
- Paved road
- 2 Lane gravel road
- - - 1 Lane gravel road
- Rough road



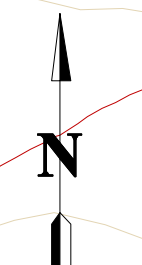
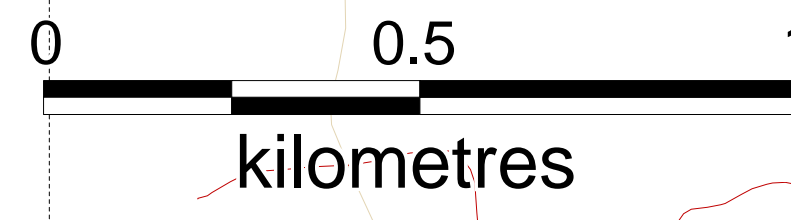
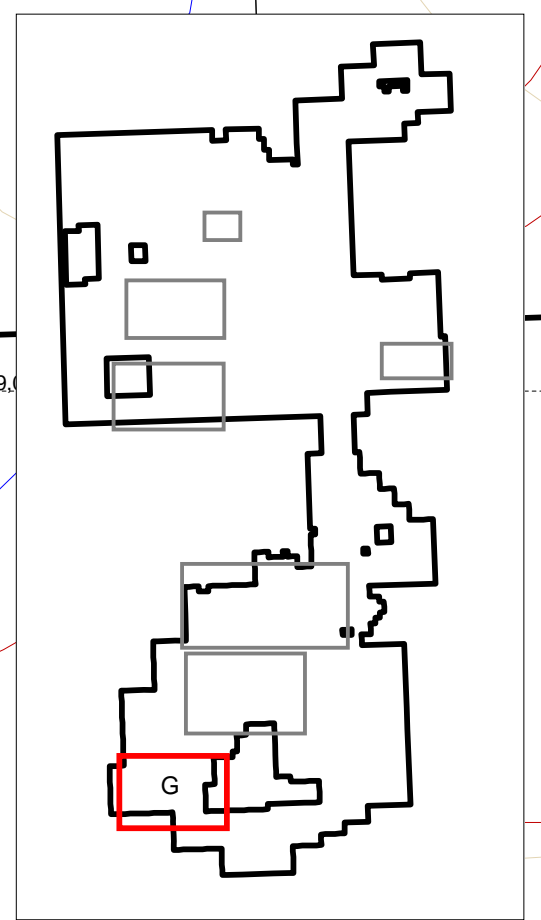
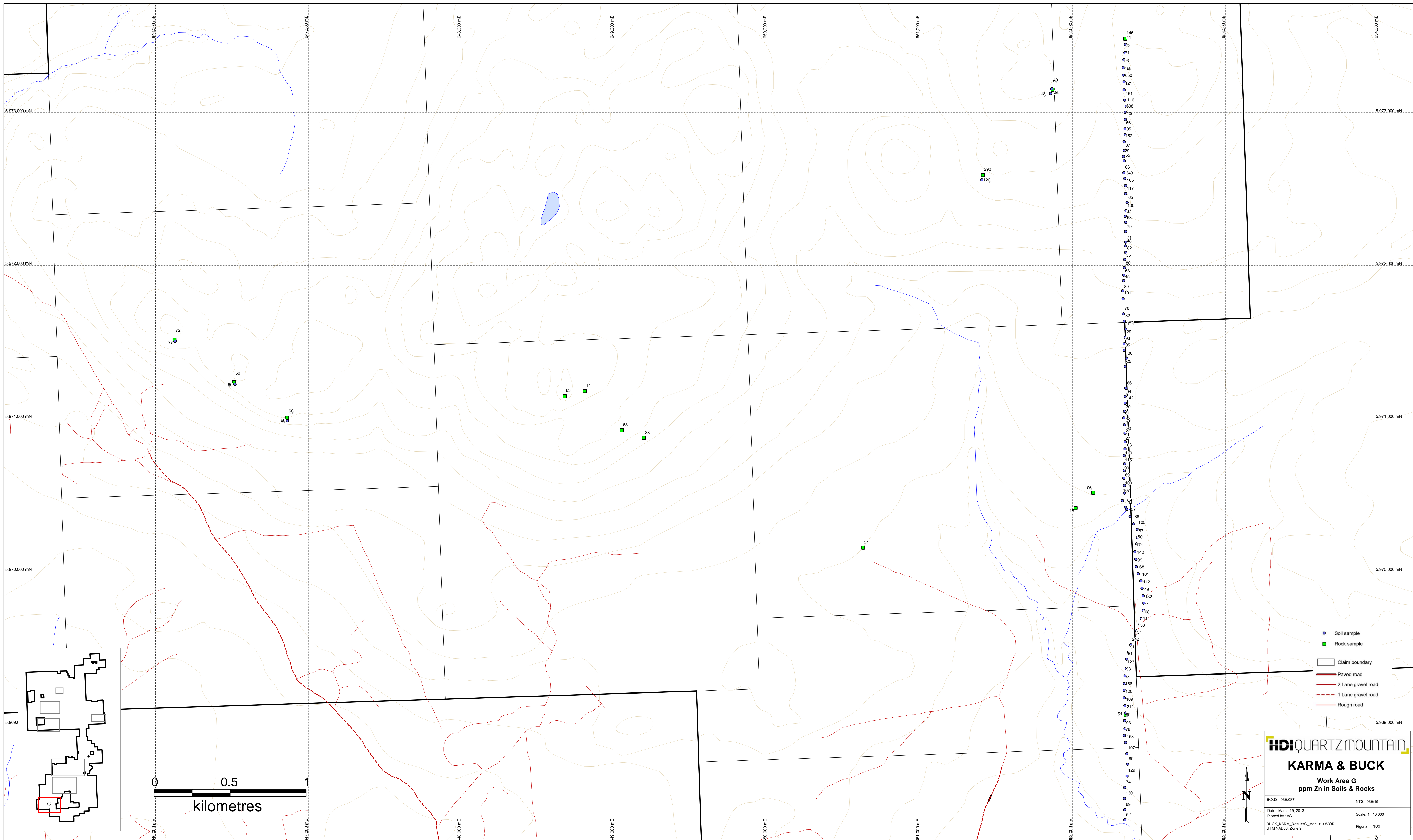
HDI QUARTZ MOUNTAIN

KARMA & BUCK

Work Area G

Soil & Rock Sample Locations

BCGS: 93E.087	NTS: 93E/15
Date: March 18, 2013	Scale: 1 : 10 000
Plotted by: JAS	Figure: 10a
BUCK_KARM_SampleLocosG_Mar1813.WOR	UTM: NAD83, Zone 9



HDI QUARTZ MOUNTAIN
KARMA & BUCK
 Work Area G
 ppm Zn in Soils & Rocks

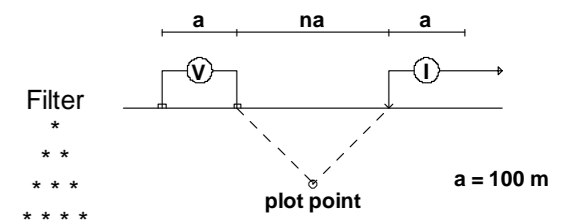
BCGS: 93E.087	NTS: 93E/15
Date: March 19, 2013	Scale: 1:10,000
Printed by: JAS	Figure: 10b
BUCK_KARMA_ResultsG_Mar1913.WOR	
UTM: 48QDS, Zone 9	

APPENDIX E

Induced Polarization Pseudosections

45+00 N

Dipole-Pole Array



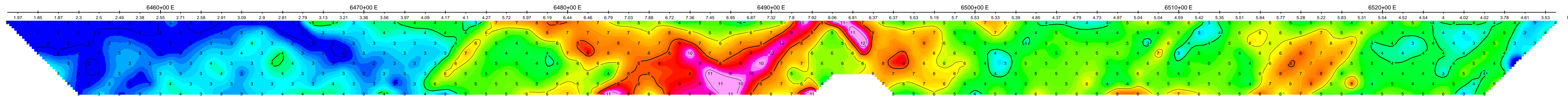
Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.
Operators: B.D., C.P.

Logarithmic Contours: 1.5, 2, 3, 5, 7.5, 10,...

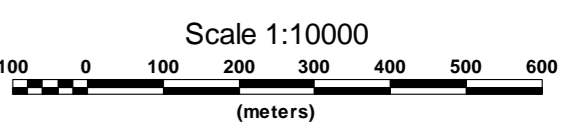
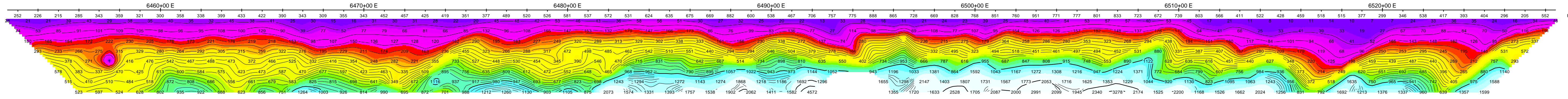
Average IP
mV/V

Filter
n=1
n=2
n=3
n=4
n=5
n=6
n=7
n=8



Calculated Resistivity
Ohm*m

Filter
n=1
n=2
n=3
n=4
n=5
n=6
n=7
n=8



QUARTZ MOUNTAIN RESOURCES LTD.

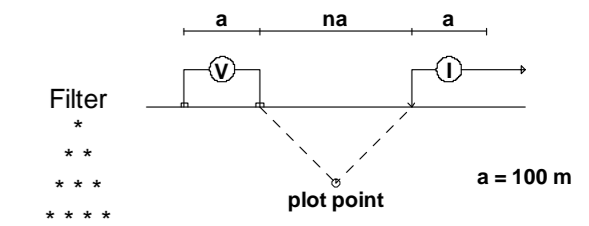
INDUCED POLARIZATION SURVEY
BUCK PROPERTY - WA2
HOUSTON AREA, BRITISH COLUMBIA

Date: JUNE/JULY 2012

PETER E. WALCOTT & ASSOCIATES LIMITED

35+00 N

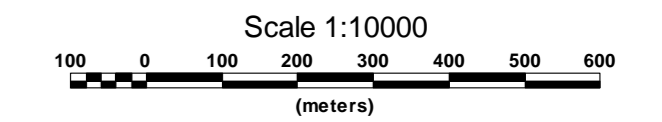
Dipole-Pole Array



Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

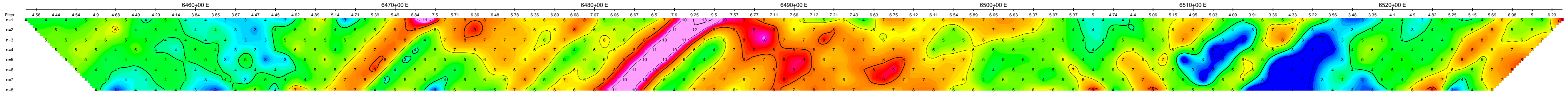
Frequency: 0.125 Hz.
Operators: B.D., C.P.

Logarithmic
Contours: 1.5, 2, 3, 5, 7.5, 10,...



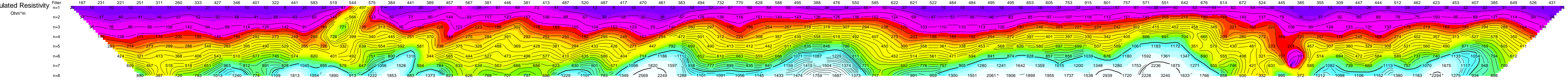
QUARTZ MOUNTAIN RESOURCES LTD.
 INDUCED POLARIZATION SURVEY
 BUCK PROPERTY - WA2
 HOUSTON AREA, BRITISH COLUMBIA
 Date: JUNE/JULY 2012
 PETER E. WALCOTT & ASSOCIATES LIMITED

Average IP
mV/V



Average IP
mV/V

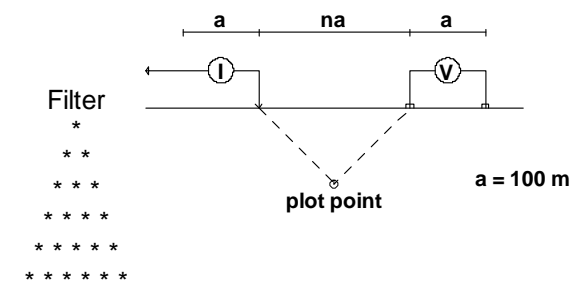
Calculated Resistivity
Ohm·m



Calculated Resistivity
Ohm·m

85+00 N

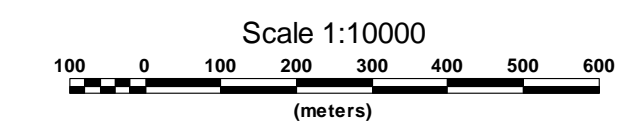
Pole-Dipole Array



Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

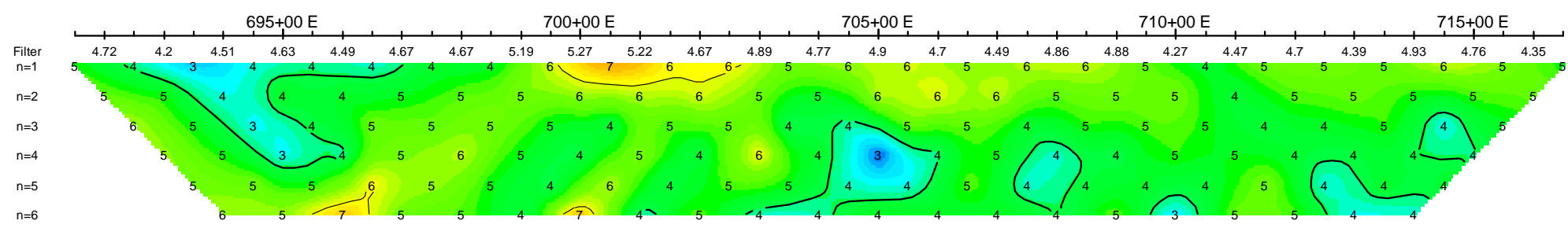
Frequency: 0.125 Hz.
Operators: B.D., C.P.

Logarithmic Contours: 1.5, 2, 3, 5, 7.5, 10,...



QUARTZ MOUNTAIN RESOURCES LTD.
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HOUSTON AREA, BRITISH COLUMBIA
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PETER E. WALCOTT & ASSOCIATES LIMITED

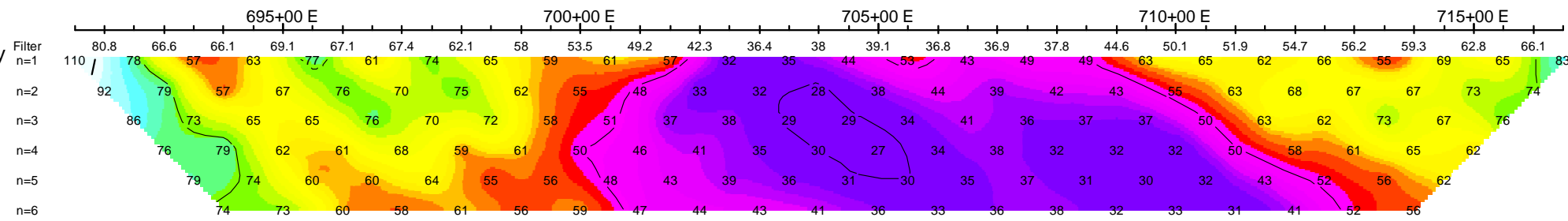
Average IP
mV/V



Average IP
mV/V

Filter
n=1
n=2
n=3
n=4
n=5
n=6

Calculated Resistivity
Ohm*m

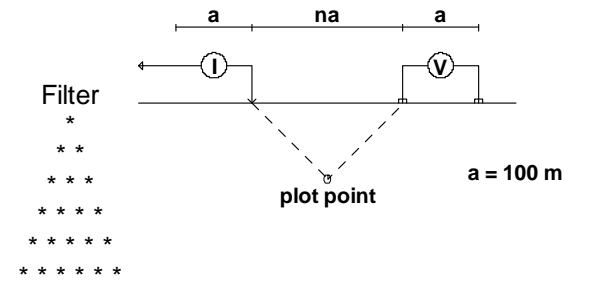


Calculated Resistivity
Ohm*m

Filter
n=1
n=2
n=3
n=4
n=5
n=6

75+00 N

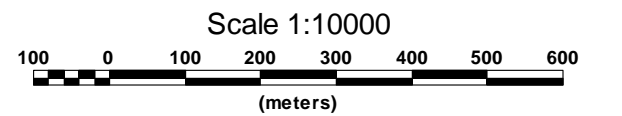
Pole-Dipole Array



Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.
Operators: B.D., C.P.

Logarithmic
Contours: 1, 1.5, 2, 3, 5, 7.5, 10, ...



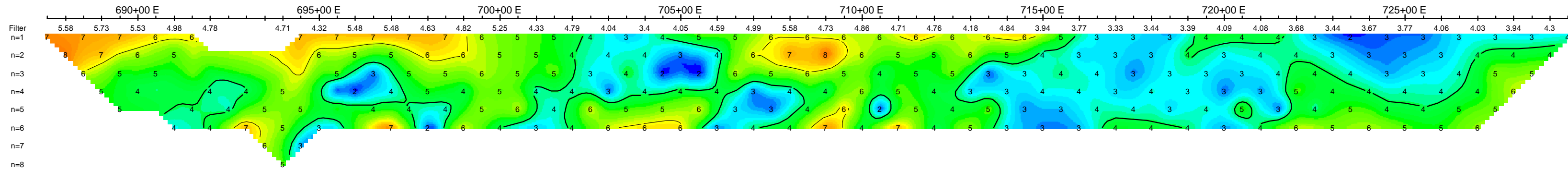
QUARTZ MOUNTAIN RESOURCES LTD.

INDUCED POLARIZATION SURVEY
BUCK PROPERTY
HOUSTON AREA, BRITISH COLUMBIA

Date: JUNE/JULY 2012

PETER E. WALCOTT & ASSOCIATES LIMITED

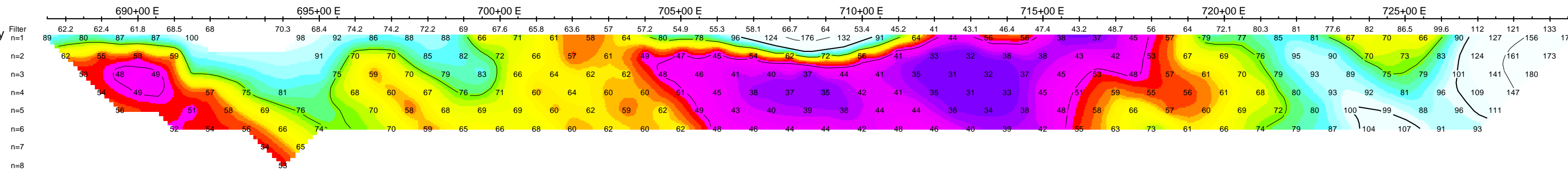
Average IP
mV/V



Average IP
mV/V

Filter
n=1
n=2
n=3
n=4
n=5
n=6
n=7
n=8

Calculated Resistivity
Ohm*m

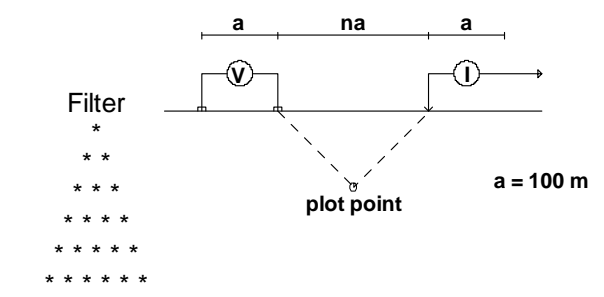


Calculated Resistivity
Ohm*m

Filter
n=1
n=2
n=3
n=4
n=5
n=6
n=7
n=8

55+00 N

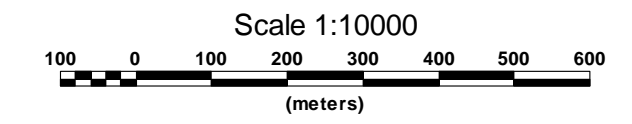
Dipole-Pole Array



Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.
Operators: B.D., C.P.

Logarithmic Contours: 1.5, 2, 3, 5, 7.5, 10,...



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 BUCK PROPERTY - WA2
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