



## ASSESSMENT REPORT TITLE PAGE AND SUMMARY

**TITLE OF REPORT:** [Assessment Report on Geochemical Work](#)

**TOTAL COST:** [\\$152,246.71](#)

**AUTHOR(S):** [Michael Galicki, Katrina Jessen, Mark Rebagliati](#)  
**SIGNATURE(S):**

**NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):** [MX-1-898 / Amended April 30, 2013](#)  
**STATEMENT OF WORK EVENT NUMBER(S)/DATE(S):** [5510340 / June 25, 2014](#)

**YEAR OF WORK:** [2013](#)

**PROPERTY NAME:** [Silver Vista](#)

**CLAIM NAME(S) (on which work was done):** [568283, 568284, 995403, 995413, 995427, 995442, 995444, 995448, 995452, 995455, 1011461](#)

**COMMODITIES SOUGHT:** [Silver, Copper](#)

**MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:** [093M 018, 093M 019, 093M 148, 093 M195](#)

**MINING DIVISION:** [Omineca Mining Division](#)

**NTS / BCGS:** [NTS 93M/02, 93M/03, 93M/06 and 93M/07](#)

**LATITUDE:** [55° 12' 57"](#)

**LONGITUDE:** [126° 45' 53"](#) (at centre of work)

**UTM Zone:** [9](#)

**EASTING:** [642,200](#)

**NORTHING:** [6,121,100](#)

**OWNER(S):** [Amarc Resources Ltd.](#)

**MAILING ADDRESS:** [15th floor - 1040 West Georgia, Vancouver, BC V6E 4H1](#)

**OPERATOR(S) [who paid for the work]:** [Amarc Resources Ltd.](#)

**MAILING ADDRESS:** [15th floor - 1040 West Georgia, Vancouver, BC V6E 4H1](#)

**REPORT KEYWORDS** (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**)

[Stikinia terrane, Early to Middle Jurassic Hazelton Group, Smithers Formation, subarkosic arenite, lapilli tuff, crystall tuff, lauconite, carbonate-quartz alteration, pyrite, chalcopryrite, chalcocite, native silver, argentite, acanthite](#)

**REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:**

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			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil	674	568283, 568284, 995403, 995413, 995427, 995442, 995444, 995448, 995452, 995455, 1011461	~\$112,240.70
Silt			
Rock	166	568283, 568284, 995403, 995413, 995427, 995442, 995444, 995448, 995452, 995455, 1011461	~\$27,536.01
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPARATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail	500 metres	568283,568284	~1,000
Trench (number/metres)	403 metres	568283, 568284	~\$11,470.00
Underground development (metres)			

Other		
	<b>TOTAL COST</b>	<b>\$152,246.71</b>

**Assessment Report on  
Geochemical Work**

**Performed on the SILVER VISTA Property**

**Located in the Omineca Mining Division**

**NTS: 93M/02, 93M/03, 93M/06, 93M/07**

**BCGS: 93M.006, 93M.007, 93M.008, 93M.015, 93M.016, 93M.017, 93M.018, 93M.025,  
93M.026, 93M.027, 93M.028, 93M.035, 93M.036, 93M.037, 93M.046**

**Centred at approximately  
55°12'57" N Latitude  
126°45'53" W Longitude  
6,121,100 m N; 642,200 m E  
UTM NAD 83, Zone 9**

**Owner/Operator: Amarc Resources Ltd.**

**Authors:  
Michael Galicki, M.Sc., GIT  
Katrina Jessen, GIT  
Mark Rebagliati, P. Eng**

**September 1, 2014**

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## **1.0 SUMMARY**

The Silver Vista property is located in northwestern British Columbia, in the Omineca Mining Division, approximately 55 km northeast of Smithers, B.C., on NTS map sheets 93M/02, 03, 06, and 07. The property is accessible by a network of gravel logging roads.

Regional geology shows the property is dominated by Jurassic Hazelton Group volcanic and sedimentary rocks. Hazelton Group volcanic rocks are overlain by Cretaceous Bowser Lake and Skeena Group sedimentary and calc-alkaline volcanic rocks.

A geochemical survey was conducted over select parts of the property from June 19 to July 5, 2013. A total of 674 soil samples and 166 rock samples were collected.

## **2.0 INTRODUCTION**

This report documents the results of a pitting, trenching, and geochemical survey performed on the Silver Vista claim group between June 19 and July 5, 2013.

## **3.0 LOCATION AND ACCESS**

The Silver Vista property is situated in central British Columbia, in the Omineca Mining Division. The property is located on NTS maps 93M/02, 93M/03, 93M/06 and 93M/07 and on BCGS maps 93M.006, 07, 08, 15, 16, 17, 18, 25, 26, 27, 28, 35, 36, 37, and 46. The centre of the claim group is approximately 55 km northeast of Smithers, B.C. at 55°12'57" N Latitude and 126°45'53" W Longitude, or 6,121,100 m N and 642,200 m E (UTM NAD 83, Zone 9), as shown in Figure 3.1.

The property is accessible by road from Smithers via the Babine Lake Forest Service Road (FSR) east from Smithers to the Nilkitwa FSR. The Nilkitwa FSR parallels the claim block and multiple lesser forestry roads can be taken onto the claim block.

## **4.0 PHYSIOGRAPHY AND CLIMATE**

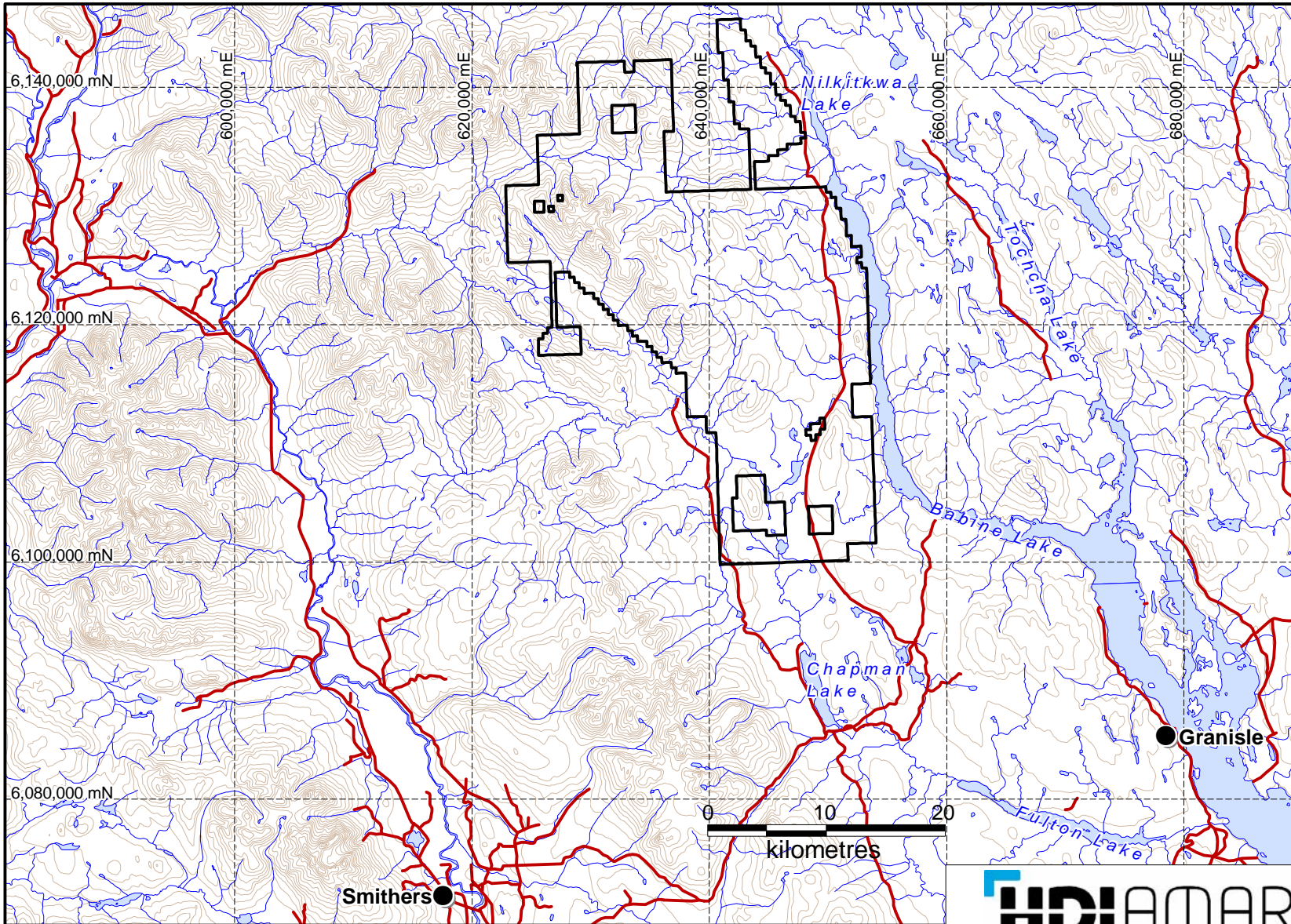
The Silver Vista property is situated in the Skeena Stikine Forest District of the Northern Interior Forest Region. Topography is dominated by gently rolling hills, with numerous lakes, rivers and marshes, with elevations ranging from 480 m to 2,340 m above sea level. The area is forested primarily with Lodgepole Pine, White Spruce, Subalpine Fir (balsam), Douglas fir, Black Spruce and Trembling Aspen (poplar).

Average temperatures in Smithers are 21°C in summer and -11°C in winter, annual rainfall averaging 35.4 cm and annual snowfall averaging 204 cm (The Weather Network Statistics, website: <http://www.theweathernetwork.com/statistics/c11077500>).

## **5.0 CLAIMS**

The Silver Vista property consists of 127 claims covering approximately 71,005 hectares (Figure 5.1). All claims are owned and operated by Amarc Resources Ltd. The core claims were staked in 2007 and 2008 and all surrounding claims were staked in 2011 and 2012. The work program described in this report was conducted on 11 claims, indicated in the "Work" column. A complete list of the project claims is given in Table 5.1.





- Claim boundary
- Road



## SILVER VISTA

### Figure 3.1 Property Location

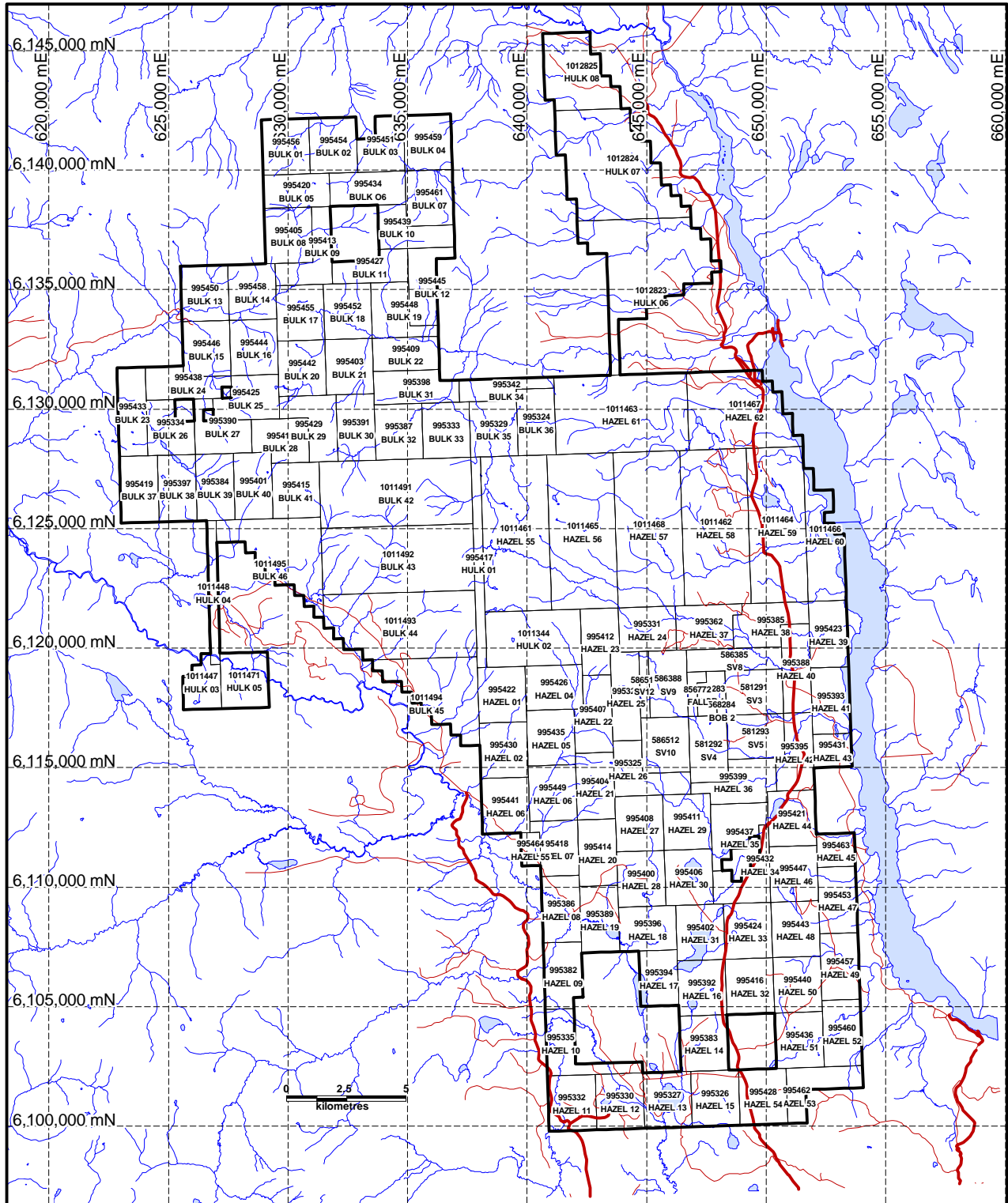
Date: June 11, 2014

SILV\_Fig3.1PropLocation\_Jun1114.WOR  
UTM NAD83, Zone 9

NTS: 93M/2,3,6,7

Scale: 1 : 500 000

Plotted by : KJ



— Claim boundary  
 — Road



# HDIAMARC

## SILVER VISTA

**Figure 5.1**  
**Claims**

Date: June 11, 2014	Scale: 1 : 250 000
SILV_Fig5.1Claims_Jun1114.WOR UTM NAD83, Zone 9	Plotted by : KJ

NTS: 93M/2,3,6,7

**Table 5.1 Silver Vista claims**

<b>Tenure No</b>	<b>ClaimName</b>	<b>Work</b>	<b>Owner</b>	<b>Date Recorded</b>	<b>Expiry Date</b>	<b>Area</b>
568283	BOB 1	X	Amarc Resources Ltd.	2007/oct/19	2024/jun/25	184.7
568284	BOB 2	X	Amarc Resources Ltd.	2007/oct/19	2024/jun/25	18.5
1029184	SV3		Amarc Resources Ltd.	2008/apr/15	2024/jun/25	295.5
1029189	SV4		Amarc Resources Ltd.	2008/apr/15	2024/jun/25	221.7
1029187	SV5		Amarc Resources Ltd.	2008/apr/15	2024/jun/25	221.7
586385	SV8		Amarc Resources Ltd.	2008/jun/16	2014/dec/10	369.3
586388	SV9		Amarc Resources Ltd.	2008/jun/16	2017/jun/30	443.2
586512	SV10		Amarc Resources Ltd.	2008/jun/18	2017/jun/30	461.9
586514	SV12		Amarc Resources Ltd.	2008/jun/18	2014/dec/10	110.8
856772	FALL		Amarc Resources Ltd.	2011/jun/12	2024/jun/25	92.3
1029188	SV13		Amarc Resources Ltd.	2008/apr/15	2017/jun/30	221.8
1029186	SV12		Amarc Resources Ltd.	2008/apr/15	2017/jun/30	221.7
1029183	SV11		Amarc Resources Ltd.	2008/apr/15	2017/jun/30	147.8
995324	BULK 36		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	442.1
995325	HAZEL 26		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	462.0
995326	HAZEL 15		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	463.4
995327	HAZEL 13		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	463.4
995328	HAZEL 25		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	443.2
995329	BULK 35		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	460.5
995330	HAZEL 12		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	463.4
995331	HAZEL 24		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	443.0
995332	HAZEL 11		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	463.4
995333	BULK 33		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	460.5
995334	BULK 26		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	386.8
995335	HAZEL 10		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	463.2
995342	BULK 34		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	294.6
995362	HAZEL 37		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	461.4
995382	HAZEL 09		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	425.9
995383	HAZEL 14		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	463.2
995384	BULK 39		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	442.3
995385	HAZEL 38		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	461.4
995386	HAZEL 08		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	444.1
995387	BULK 32		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	460.5
995388	HAZEL 40		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	443.2
995389	HAZEL 19		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	444.2
995390	BULK 27		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	386.8
995391	BULK 30		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	442.0

Tenure No	ClaimName	Work	Owner	Date Recorded	Expiry Date	Area
995392	HAZEL 16		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	463.0
995393	HAZEL 41		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	443.3
995394	HAZEL 17		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	370.3
995395	HAZEL 42		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	443.5
995396	HAZEL 18		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	444.2
995397	BULK 38		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	442.3
995398	BULK 31		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	460.3
995399	HAZEL 36		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.1
995400	HAZEL 28		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.5
995401	BULK 40		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	442.3
995402	HAZEL 31		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.7
995403	BULK 21	X	Amarc Resources Ltd.	2012/jun/08	2017/jun/30	460.2
995404	HAZEL 21		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	443.6
995405	BULK 08		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	459.6
995406	HAZEL 30		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.5
995407	HAZEL 22		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	461.8
995408	HAZEL 27		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.3
995409	BULK 22		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	386.5
995410	BULK 28		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	405.2
995411	HAZEL 29		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.3
995412	HAZEL 23		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	406.1
995413	BULK 09	X	Amarc Resources Ltd.	2012/jun/08	2017/jun/30	404.6
995414	HAZEL 20		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	443.9
995415	BULK 41		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	460.7
995416	HAZEL 32		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	463.0
995417	HULK 01		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	350.4
995418	HAZEL 07		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	388.4
995419	BULK 37		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	442.3
995420	BULK 05		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	385.9
995421	HAZEL 44		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.3
995422	HAZEL 01		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	461.7
995423	HAZEL 39		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	443.0
995424	HAZEL 33		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.8
995425	BULK 25		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	441.9
995426	HAZEL 04		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	443.2
995427	BULK 11	X	Amarc Resources Ltd.	2012/jun/08	2017/jun/30	349.4
995428	HAZEL 54		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	463.5

Tenure No	ClaimName	Work	Owner	Date Recorded	Expiry Date	Area
995429	BULK 29		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	442.0
995430	HAZEL 02		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	461.9
995431	HAZEL 43		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	221.8
995432	HAZEL 34		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	407.0
995433	BULK 23		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	441.9
995434	BULK 06		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	441.1
995435	HAZEL 05		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	461.8
995436	HAZEL 51		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	463.2
995437	HAZEL 35		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	443.8
995438	BULK 24		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	386.6
995439	BULK 10		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	404.5
995440	HAZEL 50		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	463.0
995441	HAZEL 06		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.1
995442	BULK 20	X	Amarc Resources Ltd.	2012/jun/08	2017/jun/30	460.2
995443	HAZEL 48		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.8
995444	BULK 16	X	Amarc Resources Ltd.	2012/jun/08	2017/jun/30	460.1
995445	BULK 12		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	423.1
995446	BULK 15		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	460.1
995447	HAZEL 46		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.5
995448	BULK 19	X	Amarc Resources Ltd.	2012/jun/08	2017/jun/30	423.2
995449	HAZEL 06		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	462.1
995450	BULK 13		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	459.9
995451	BULK 03		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	385.8
995452	BULK 18	X	Amarc Resources Ltd.	2012/jun/08	2017/jun/30	460.0
995453	HAZEL 47		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	444.1
995454	BULK 02		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	459.2
995455	BULK 17	X	Amarc Resources Ltd.	2012/jun/08	2017/jun/30	460.0
995456	BULK 01		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	459.2
995457	HAZEL 49		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	444.4
995458	BULK 14		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	459.9
995459	BULK 04		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	459.2
995460	HAZEL 52		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	444.7
995461	BULK 07		Amarc Resources Ltd.	2012/jun/08	2017/jun/30	459.5
995462	HAZEL 53		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	407.8
995463	HAZEL 45		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	222.0
995464	HAZEL 55		Amarc Resources Ltd.	2012/jun/08	2014/dec/10	111.0
1011344	HULK 02		Amarc Resources Ltd.	2012/jul/20	2017/jun/30	922.8

Tenure No	ClaimName	Work	Owner	Date Recorded	Expiry Date	Area
1011447	HULK 03		Amarc Resources Ltd.	2012/jul/24	2014/dec/10	295.4
1011448	HULK 04		Amarc Resources Ltd.	2012/jul/24	2014/dec/10	239.8
1011461	HAZEL 55	X	Amarc Resources Ltd.	2012/jul/25	2017/jun/30	1807.0
1011462	HAZEL 58		Amarc Resources Ltd.	2012/jul/25	2014/dec/10	1807.1
1011463	HAZEL 61		Amarc Resources Ltd.	2012/jul/25	2014/dec/10	1805.0
1011464	HAZEL 59		Amarc Resources Ltd.	2012/jul/25	2014/dec/10	1549.0
1011465	HAZEL 56		Amarc Resources Ltd.	2012/jul/25	2017/jun/30	1807.0
1011466	HAZEL 60		Amarc Resources Ltd.	2012/jul/25	2014/dec/10	682.5
1011467	HAZEL 62		Amarc Resources Ltd.	2012/jul/25	2014/dec/10	1307.8
1011468	HAZEL 57		Amarc Resources Ltd.	2012/jul/25	2014/dec/10	1807.0
1011471	HULK 05		Amarc Resources Ltd.	2012/jul/25	2014/dec/10	461.5
1011491	BULK 42		Amarc Resources Ltd.	2012/jul/26	2014/dec/10	1769.3
1011492	BULK 43		Amarc Resources Ltd.	2012/jul/26	2017/jun/30	1770.4
1011493	BULK 44		Amarc Resources Ltd.	2012/jul/26	2017/jun/30	1642.3
1011494	BULK 45		Amarc Resources Ltd.	2012/jul/26	2014/dec/10	960.2
1011495	BULK 46		Amarc Resources Ltd.	2012/jul/26	2014/dec/10	995.7
1012823	HULK 06		Amarc Resources Ltd.	2012/sep/13	2014/dec/10	1747.33
1012824	HULK 07		Amarc Resources Ltd.	2012/sep/13	2014/dec/10	1800.78
1012825	HULK 08		Amarc Resources Ltd.	2012/sep/13	2014/dec/10	807.766

## 6.0 EXPLORATION HISTORY

There has been sporadic exploration work completed on various small parts of the Silver Vista property by a variety of different operators since 1969. The first documented work was carried out by Twin Peaks Mines Inc., where airborne geophysical work was conducted in 1969. A tabular summary of historical work follows (Table 6.1).

**Table 6.1 History of exploration on the Silver Vista claims**

Year	Owner/Operator	Work Done	Assessment Report
1969	Twin Peaks Mines Ltd.	Airborne geophysics	2663
1971	Twin Peaks Mines Ltd.	Ground geophysics	2962
1971	Twin Peaks Mines Ltd.	Airborne geophysics	3047
1971	Evergreen Explorations Ltd.	Ground geophysics	3647

Year	Owner/Operator	Work Done	Assessment Report
1972	Canadian Superior Exploration Ltd.	Ground geophysics	3871
1972	Twin Peaks Mines Ltd. & Selco Mining Corp. Ltd.	Petrographic analysis	3969
1972	Bacon & Crowhurst Ltd.	Geological mapping, soil sampling, ground geophysics	4488
1973	Canadian Superior Exploration Ltd.	Soil sampling	5188
1975	Noranda Exploration Company, Ltd. & Hudson's Bay Oil and Gas Company Ltd.	Ground geophysics	5611
1980	Short Staun Minerals Corporation	Geological mapping, rock sampling	8711
1983	Golden Gate Exploration Ltd.	Diamond drilling	11700
1985	Atna Resources Ltd. Colin Harivel	Prospecting, silt sampling	13923
1985	Atna Resources Ltd. Tom Richards	Prospecting, silt sampling	13924
1985	Ryan Exploration Co., Ltd.	Soil, rock sampling	14583
1986	Ryan Exploration Co., Ltds.	Prospecting, silt sampling	15252
1991	Goldpac Investments Ltd.	Geological mapping, silt sampling	21116
1991	Equity Silver Mines	Soil sampling, trenching	21609
1992	Equity Silver Mines	Diamond drilling	22462
1998	Hudson Bay Exploration and Development Co. Ltd.	Ground geophysics	25514
2000	Robin Day	Soil, rock sampling	26459
2006	Grizzly Diamonds Ltd.	Compilation work	28437
2008	Grizzly Diamonds Ltd.	Airborne geophysics	30035
2009	Metal Mountain Resources	Soil sampling	31197

## 7.0 REGIONAL GEOLOGY

The entire Silver Vista property occurs in the Stikinia terrane (Figure 7.1, 7.2). The regional geology of the claim group is derived from Massey, *et al.*, (2005). The Silver Vista property hosts four MINFILE occurrences Nat (MINFILE 093M 148), Netalzul (MINFILE 093M 018), Copper (MINFILE 093M 019), and MR (MINFILE 093M 195).

Most of the project area is underlain by the Stikine Terrane, which here includes the Carboniferous to Permian Asitka Group island-arc meta-volcanic rocks and limestone; Middle to Late Triassic augite-phyric basalt, andesite and related island-arc marine sedimentary rocks of the Takla Group; and Early to Middle Jurassic andesitic volcanic, volcanoclastic and related marine sedimentary rocks of the Hazelton Group island-arc to continental-arc assemblage. In the northwest corner of the project area, the Stikine Terrane is overlain by marine to non-marine clastic sedimentary strata of the Late Jurassic Bowser Lake and Early Cretaceous Skeena groups. Late Cretaceous Bulkley intrusions and Eocene Babine intrusions can be found throughout the claim area together with associated continental arc volcanics (Late Cretaceous Kasalka and Eocene Ootsa Lake Group). Significant porphyry copper deposits such as the Bell and Granisle porphyries are associated with Eocene Babine Lake intrusions.

The Hazelton Group around the project area is divided into the Telkwa, Nilkitkwa and Smithers formations. The oldest Formation is the Telkwa, which is most extensive and consists of green and maroon, submarine and subaerial pyroclastic and lava flow volcanic rocks ranging in composition from andesite to rhyolite. Its age is Sinemurian to early Pleinsbachian. The Telkwa Formation is conformably overlain by marine sedimentary and submarine volcanic rocks of Pleinsbachian to early Toarcian age, assigned to the Nilkitkwa Formation. In the middle Toarcian, deposition of subaerial mafic to felsic pyroclastic and lava flow volcanic rocks (Saddle Hill Volcanics) gave way to accumulation of fossiliferous medial- and distal-facies sandstone and siltstone of the Smithers Formation.

The area of the historic drilling and trenching at the MR Silver showing is underlain by a predominantly sedimentary sequence of immature, fossiliferous sandstones, siltstones and very minor conglomerate of the Smithers Formation. The sediments are tuffaceous in part and are interbedded with a thin ash/lapilli tuff which can locally, be used as marker horizon. Fossils found belong to the class of gastropods, cephalopods (most commonly bivalves and ammonites) and pelecypods (trigonia). The stratigraphy is intruded by rare andesite, microdiorite and feldspar porphyry dykes of unknown age. During the Amarc core-relogging in July 2012, only the feldspar porphyry dyke has been noted. Andesite and microdiorite are reported in Equity Silver core logs from the 1990s.

#### Sedimentary rocks:

The vast majority of rocks consist of grey-green, locally reddish mature to immature sandstones. Most sandstone has been classified as subarkosic arenite using the sandstone classification described in Dott (1964). The arenites are poorly to well sorted, sub-rounded to angular grains, <2-15% matrix component, <2-10% fine grained lithic and other fragments like bitumen or organic matter. The grain-size ranges from fine to coarse and displays normal graded bedding with locally interbedded 1-10cm thick mature conglomerate and fine-bedded siltstone. Carbonized and carbonate-replaced remains of gastropods, cephalopods and pelecypods are common, but their abundance generally decreases with increasing depth; pyritized remains of gastropods and bivalves have been noted in boulders at the MR showing.



Historically most of the arenite has been described as tuffaceous sandstone due to the abundance of coarser grained, commonly angular feldspar fragments/crystals within finer grained sandstone.

The dominant alteration of the sandstones is glauconite, giving the rock its characteristic green colour. Hematite pigmentation is rare, but has been noted and is likely related to weathering during core storage. Ag-Cu mineralized sandstone commonly displays weak to intense carbonate-quartz alteration characterized by matrix/cement replacement by carbonate+/-quartz and quartz-carbonate veining and locally brecciation. Ag-Cu mineralized intervals are commonly proximal to strong-intense carbonate-quartz veining/brecciation accompanied by a weak-moderate carbonate+/-quartz alteration of the sandstone matrix/cement.

A 2 cm thick sulphide vein containing 20% chalcocite and minor amounts of bornite was intersected in hole MR 92-02 at 192.62 m. Mineralization consists of fine grained disseminated chalcocite and trace chalcopyrite and bornite and very fine-grained native silver, argentite and acanthite. Minor microcrystalline pyrite as patches or disseminations.

Bedding plane orientations range between 020-035° to the core-axis with all holes drilled at -60° and -50°. The interpreted dip of the sandstone beds at the MR silver showing have a strike of 060° and dip 45° to the NW. The interpreted strike is consistent with strike measurements of fossiliferous sandstone 1.5km SW of the MR silver showing, however the dips are slightly shallower. Overall, the full known extent of fossiliferous sandstone at and proximal to the MR silver showing has a mean orientation of 055° strike with dips varying between 20 and 45°.

#### Volcanic rocks:

Five drill holes intersected a dark grey lapilli-tuff, which can be used as a marker horizon. It is found interbedded with the aforementioned sandstone. This unit is very poorly sorted, very immature and contains a very fine-grained, shardy groundmass. Feldspar fragments and crystals ranging from sub-mm to multi-cm are noted within this unit. Its average thickness is approximately 1 m and commonly is coarsest at its basal contact. Some fragments in the lapilli-tuff appear stretched giving it a 'pseudo'-welding textures. The tuff is commonly weakly sericite altered and not Ag-Cu mineralized.

Two km south of the MR showing and drill area, felsic quartz-feldspar crystals tuffs have been found in various outcrops. They are commonly white to grey in colour, contain ~5% 1-4mm large quartz crystals, 5-10% angular feldspar crystals, <1% lithic fragments. The groundmass is aphanatic to very fine-grained and shardy. The crystal tuffs are not welded, and display weak sericite alteration with locally trace disseminated pyrite or hematite.



**Eocene**



**EEvl**  
*Nechako Plateau Group - Endako Formation*  
 coarse volcanoclastic and pyroclastic volcanic rocks

**Paleocene to Eocene**



**PeEs**  
*Unnamed*  
 undivided sedimentary rocks

**Late Cretaceous**



**uKK**  
*Kasalka Group*  
 andesitic volcanic rocks

**Early Cretaceous**



**IKSKC**  
*Skeena Group - Kitsuns Creek Formation*  
 undivided sedimentary rocks



**IKSRvk**  
*Skeena Group - Rocky Ridge Formation - Subvolcanic Rhyolite Domes*  
 alkaline volcanic rocks



**IKSRs**  
*Skeena Group - Red Rose Formation*  
 coarse clastic sedimentary rocks



**IKSRv**  
*Skeena Group - Rocky Ridge Formation*  
 alkaline volcanic rocks



**IKS**  
*Skeena Group*  
 undivided sedimentary rocks

**Middle Jurassic to Late Cretaceous**



**mJKB**  
*Bowser Lake Group*  
 undivided sedimentary rocks



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



**uJBAm**  
*Bowser Lake Group - Ashman Formation*  
 argillite, greywacke, wacke, conglomerate turbidites



**uJBT**  
*Bowser Lake Group - Trout Creek Formation*  
 undivided sedimentary rocks

**Middle Jurassic**



**mJHSms**  
*Hazelton Group - Smithers Formation*  
 marine sedimentary and volcanic rocks

**Early to Middle Jurassic**



**ImJHSH**  
*Hazelton Group - Saddle Hill Formation*  
 undivided volcanic rocks



**ImJHSH**  
*Hazelton Group - Saddle Hill Volcanics*  
 marine sedimentary and volcanic rocks

**Early Jurassic**



**IJHNk**  
*Hazelton Group - Nilkitkwa Formation*  
 undivided sedimentary rocks



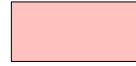
**IJHT**  
*Hazelton Group - Telkwa Formation*  
 calc-alkaline volcanic rocks

**INTRUSIVE ROCKS**

**Eocene**



**EBdr**  
 dioritic intrusive rocks



**EBfp**  
 feldspar porphyritic intrusive rocks



**EBgd**  
 granodioritic intrusive rocks



**EBqd**  
 quartz dioritic intrusive rocks

**Late Cretaceous**



**LKBg**  
 intrusive rocks, undivided



**SILVER VISTA**

**Figure 7.2  
 Regional Geology Legend**

	NTS: 93M/2,3,6,7
Date: June 11, 2014	Scale: 1 : 250 000
SILV_Fig5.1Claims_Jun1114.WOR UTM NAD83, Zone 9	Plotted by : KJ

## **8.0 CURRENT WORK PROGRAM**

A total of 674 soil samples, 166 rock samples were collected on the Silver Vista property between June 19 and July 5, 2013. Soil sample locations were indicated in the field using flagging and Tyvek tags labeled with grid coordinates which served as sample numbers on grids. UTM coordinates were determined for all sample locations with handheld Garmin GPS instruments. Sample spacing was either 25 or 50 m, depending on the grid. Soil samples were also collected from pits and trenches that did not reach bedrock in the MR Zone (shown on Figures 8.2 – 8.5). Soil samples were collected with a geotul mattock or hoe pick. Approximately 0.5 kg of material was placed into 10 x 15 cm Kraft sample bags. Samples were collected from 30-45 cm depth. The B horizon was sampled when it was present; alternately the C horizon was sampled. Samples were shipped to the Acme Analytical lab in Vancouver, B.C., where they were dried, sieved, and analyzed

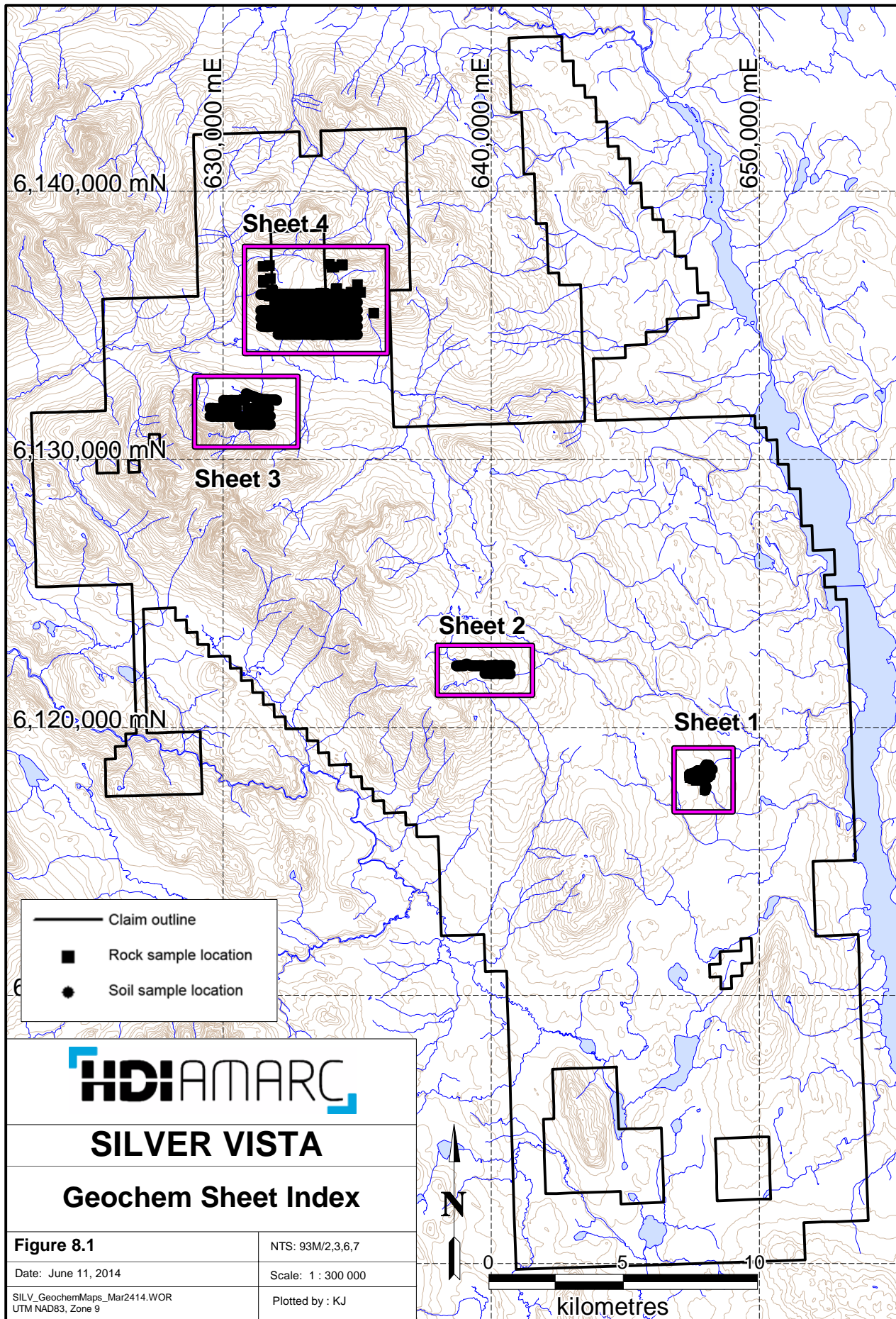
Rock samples were mainly collected in the area of historical drilling around the MR prospect from pits and trenches, but several reconnaissance samples were collected where outcrop was encountered while soil sampling. Samples were shipped to the Acme Analytical lab in Vancouver, B.C., where they were crushed, sieved, and analyzed. Rock sample descriptions are contained in Appendix A.

Soil and rock sample locations and results are plotted on Figures 8.2 – 8.13 and a detailed pit and trench excavation map is plotted on Figure 8.14. The coordinates for all soil sample are provided in Appendix D.

Soil and rock samples were analyzed for 37 elements by Inductively Coupled Plasma – Mass Spectrometry (Appendix B). Results are listed on the Acme Analytical Laboratories Ltd. (Acme) Geochemical Analysis Certificates contained in Appendix C.

## **9.0 RECOMMENDATIONS**

Several areas around the property have been identified as prospective in precious and base metals, and the geochemical anomaly around the area of historical drilling (MR zone) has been significantly extended. Diamond drilling in the MR zone is recommended to delineate the extent of silver mineralization. Additional prospecting, soil and silt sampling are recommended for the regional target areas



## 10.0 REFERENCES

Massey, N.W.D., *et al.* (2005) Digital Geology Map of British Columbia, B.C. Ministry of Energy and Mines, Geological Survey Branch, Open File 2005-2, January, 2005.

The Rural Coordination Centre of BC website, [http://www.rccbc.ca/Vanderhoof-community\\_overview](http://www.rccbc.ca/Vanderhoof-community_overview), accessed March 7, 2011.

## **11.0 STATEMENT OF AUTHORS' QUALIFICATIONS**

## STATEMENT OF QUALIFICATIONS

I, **Michael Galicki**, of Vancouver, British Columbia, do hereby certify:

1. That I am Advisor - Geology working for Hunter Dickinson Services Inc., with offices located at 15<sup>th</sup> floor 1040 West Georgia St, Vancouver, BC.
2. That I am a graduate of Laurentian University, Sudbury ON, (B.Sc. Hons. Geology, 2008) and Simon Fraser University, Burnaby BC (M.Sc. Geology, 2011) and have been employed in the mineral exploration industry since June 2009.
3. I am a Geoscientist-in-Training (GIT) registered with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (System-ID: 167701).

Signed on the 18<sup>th</sup> day of August 2014



Michael Galicki, M.Sc., GIT



## STATEMENT OF QUALIFICATIONS

I, **Katrina EH Jessen**, of Vancouver, British Columbia, hereby certify that:

I am a Geologist working for Amarc Resources Ltd., with offices located at 15<sup>th</sup> floor – 1040 W Georgia St, Vancouver, British Columbia.

1. I received a B.Sc. degree in Earth and Ocean Sciences from the University of British Columbia, Vancouver, British Columbia in 2007.
2. I am an author of this report and am also responsible for the technical figures.

Signed on the 18 day of August, 2014



Katrina EH Jessen, GIT

## 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 15<sup>th</sup> 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 44 years since my graduation from university.
5. I am the Technical Manager directing activities on the Silver Vista Property for Amarc Resources Ltd.

Signed on the 18 day of August, 2014

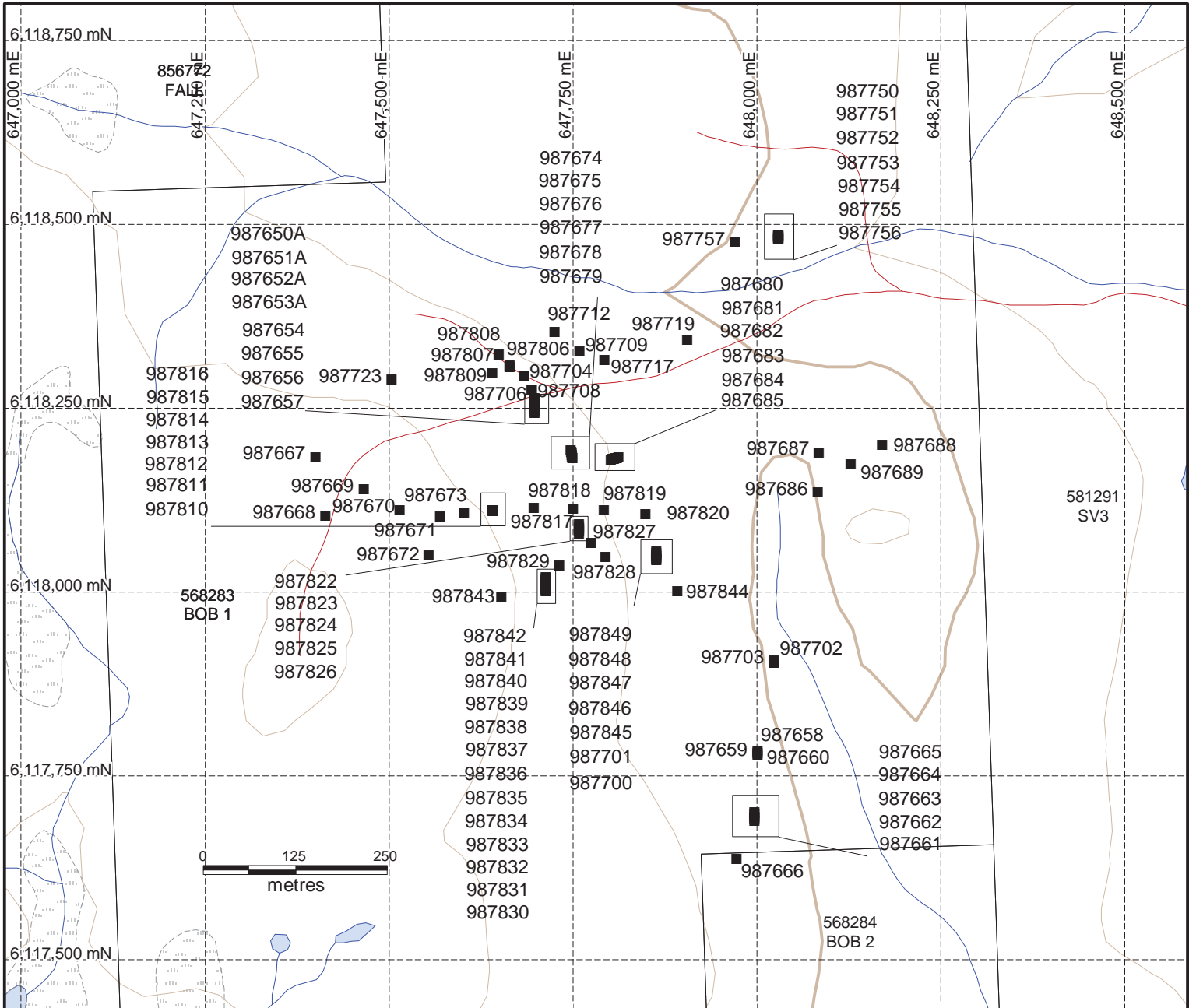


C. Mark Rebagliati, P. Eng.

## 12.0 STATEMENT OF COSTS

Exploration Work type	Comment	Days			Totals
<b>Personnel (Name)/ Position</b>					
	<b>Field Days (list actual days)</b>	<b>Days</b>	<b>Rate</b>	<b>Subtotal</b>	
M. Galicki / Project Geologist	Jun 19-Jul 1, Jul 5, 2013	14.0	\$680.00	\$9,520.00	
R. Roe / Site Logistics	Jun 19-Jul 1, 2013	13.0	\$880.00	\$11,440.00	
C. Roe / Field Technician	Jun 19-Jul 2, Jul 4-5, 2013	16.0	\$480.00	\$7,680.00	
		43.0		\$28,640.00	<b>\$28,640.00</b>
<b>Office Studies</b>					
	<b>List Personnel (Office only)</b>	<b>Days</b>	<b>Rate</b>	<b>Subtotal</b>	
Project Supervision	Mark Rebagliati/Exploration Mgr	1.0	\$2,160.00	\$2,160.00	
Database compilation	Ted Oliver	3.0	\$880.00	\$2,640.00	
Report preparation	Katrina Jessen	3.0	\$680.00	\$2,040.00	
				\$6,840.00	<b>\$6,840.00</b>
<b>Trenching/Pitting</b>					
Excavator	Tanglechain Ventures Ltd., Smithers			\$12,470.00	
				\$12,470.00	<b>\$12,470.00</b>
<b>Geochemical Surveying</b>					
		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Soil, Rock	Acme Labs, Vancouver	840.0	\$25.96	\$21,805.32	
				\$21,805.32	<b>\$21,805.32</b>
<b>Transportation</b>					
				<b>Subtotal</b>	
Airfare	Roundtrip tickets for M.Galicki, R.Roe, C.Roe			\$10,171.49	
Truck Rental	Ron Ridley Rentals, Williams Lake			\$5,720.13	
Truck Repair	Kal Tire, Smithers			\$309.78	
Fuel	Northwest Fuels			\$136.39	
Helicopter (total cost incl. fuel)	Mustang Helicopter			\$56,084.90	
				\$72,422.69	<b>\$72,422.69</b>
<b>Accommodation &amp; Food</b>					
				<b>Subtotal</b>	
Accommodation	Aspen Inn, Smithers			\$2,217.60	
Food	Bulkley Valley Wholesale, Smithers			\$2,159.84	
	from expense reports			\$1,413.20	
				\$5,790.64	<b>\$5,790.64</b>
<b>Miscellaneous</b>					
				<b>Subtotal</b>	
Field Supplies	IRL Supplies Ltd., Prince George			\$103.89	
	Elemental Controls			\$2,682.00	
	Evergreen Industrial Supplies			\$279.55	
Equipment Rental	Helix Electronics, Smithers			\$58.85	
	Aurora Telnet (Canada) Inc.			\$280.47	
	Inmarsat Solutions (Canada) Inc.			\$405.51	
				\$3,810.27	<b>\$3,810.27</b>
<b>Freight, soil and rock samples</b>					
				<b>Subtotal</b>	
Shipping	Bandstra Transportation Systems Ltd., Prince George			\$279.17	

<b>Exploration Work type</b>	<b>Comment</b>	<b>Days</b>		<b>Totals</b>
	Greyhound		\$188.62	
			\$467.79	<b>\$467.79</b>
<b>TOTAL Expenditures</b>				<b>\$152,246.71</b>



- Silver Vista claim boundary
- Swamp
- Marsh
- Rock sample location
- Cut block
- 2 lane gravel road
- 1 lane gravel road
- Rough road
- Select logging area
- Burn

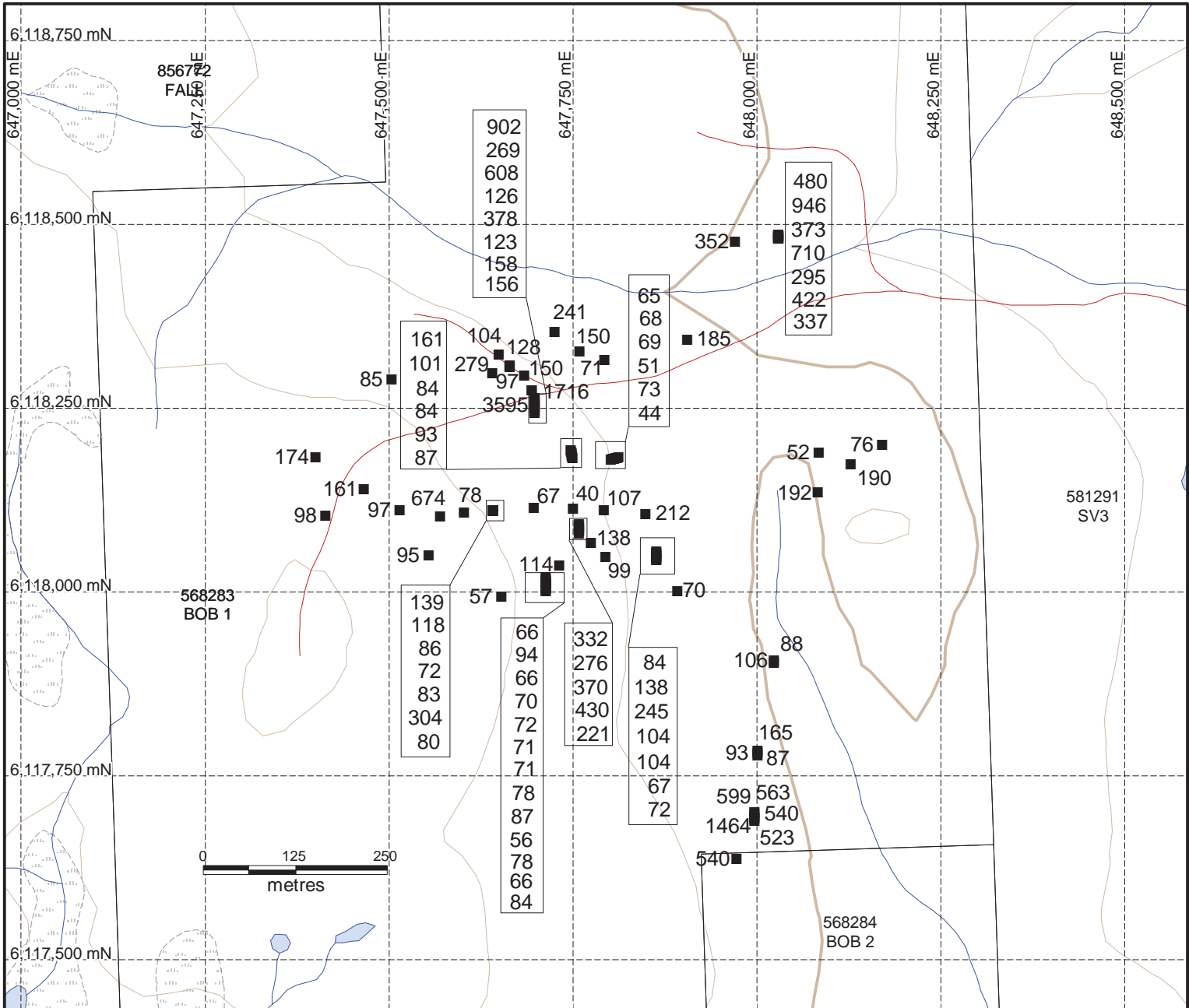


## SILVER VISTA

Area 1

### Rock Sample Locations & Numbers

<b>Figure 8.2</b>	NTS: 93M/2,3,6,7
Date: June 11, 2014	Scale: 1 : 8 000
SILV_GeochemMaps_Mar2414.WOR UTM NAD83, Zone 9	Plotted by : KJ



- Silver Vista claim boundary
- Swamp
- Rock sample location
- Marsh
- 2 lane gravel road
- 1 lane gravel road
- Rough road
- Cut block
- Select logging area
- Burn

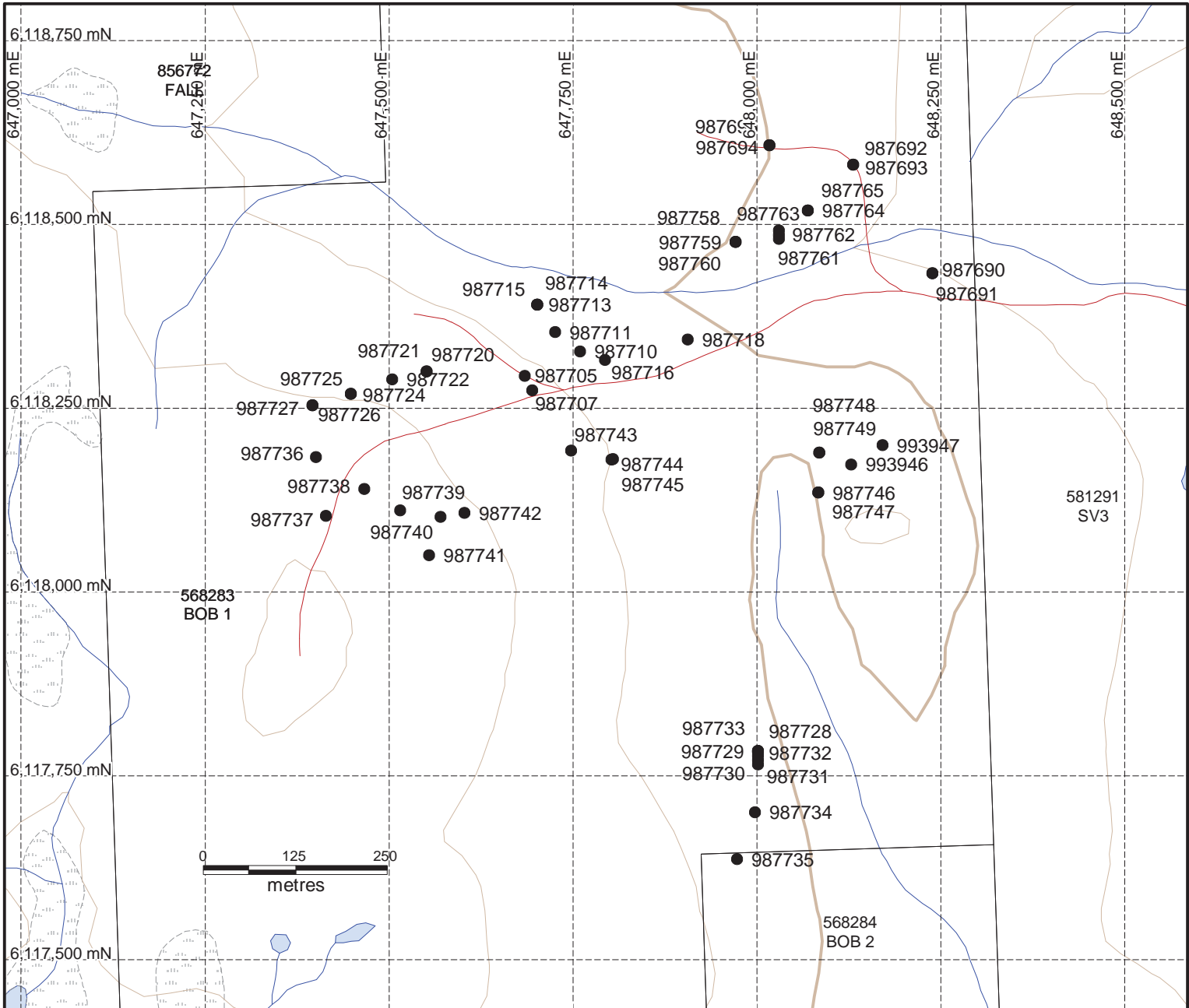


**HDIAMARC**

**SILVER VISTA**

**Area 1  
ppm Zn in Rock**

<b>Figure 8.3</b>	NTS: 93M/2,3,6,7
Date: June 11, 2014	Scale: 1 : 8 000
SILV_GeochemMaps_Mar2414.WOR UTM NAD83, Zone 9	Plotted by : KJ



- Silver Vista claim boundary
- Swamp
- Soil sample location
- Marsh
- 
- Cut block
- 2 lane gravel road
- 1 lane gravel road
- Rough road
- Select logging area
- Burn

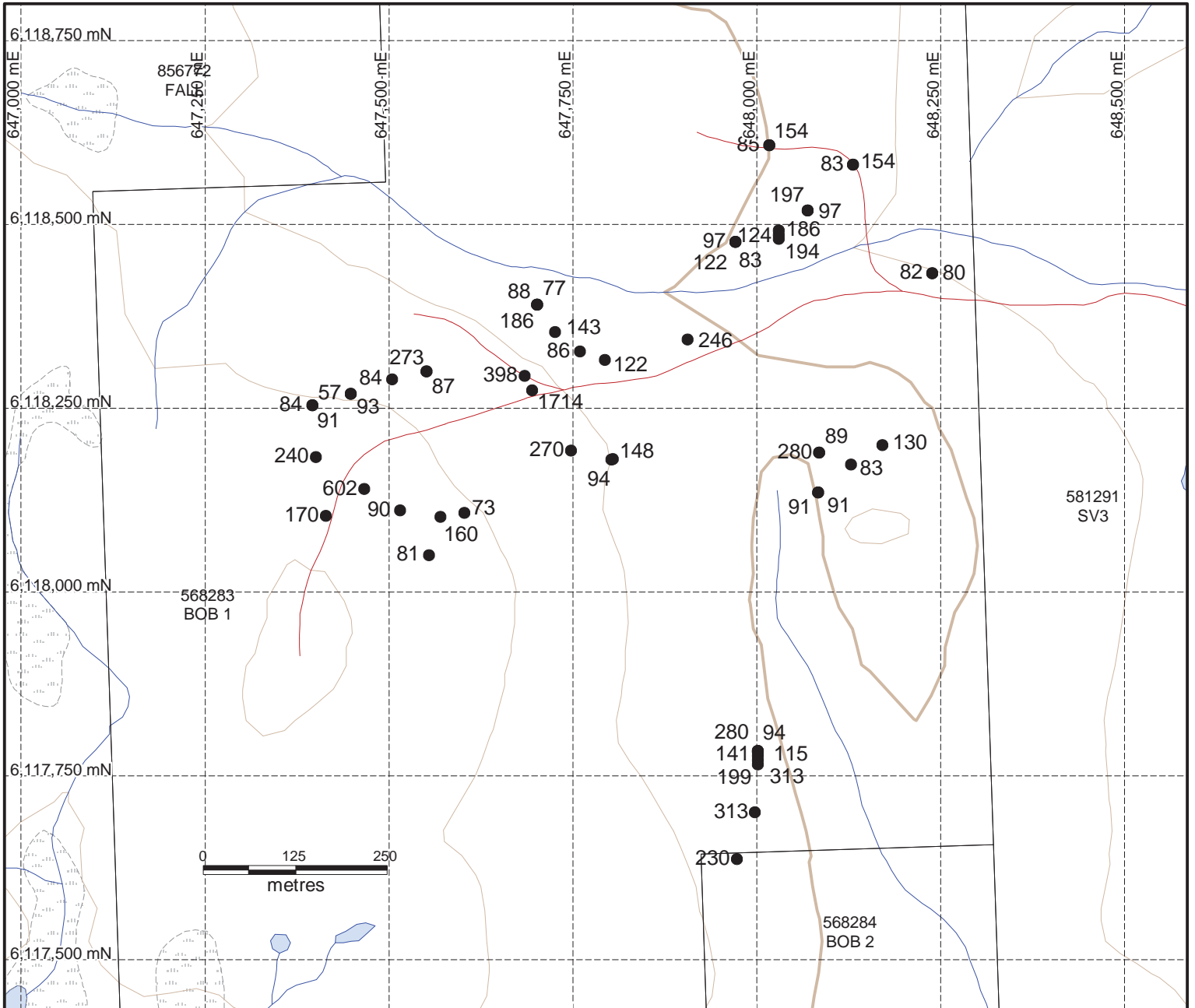


## SILVER VISTA

Area 1

### Soil Sample Locations & Numbers

<b>Figure 8.4</b>	NTS: 93M/2,3,6,7
Date: June 11, 2014	Scale: 1 : 8 000
SILV_GeochemMaps_Mar2414.WOR UTM NAD83, Zone 9	Plotted by : KJ



- Silver Vista claim boundary
- Swamp
- Soil sample location
- Marsh
- 2 lane gravel road
- 1 lane gravel road
- Rough road
- Cut block
- Select logging area
- Burn



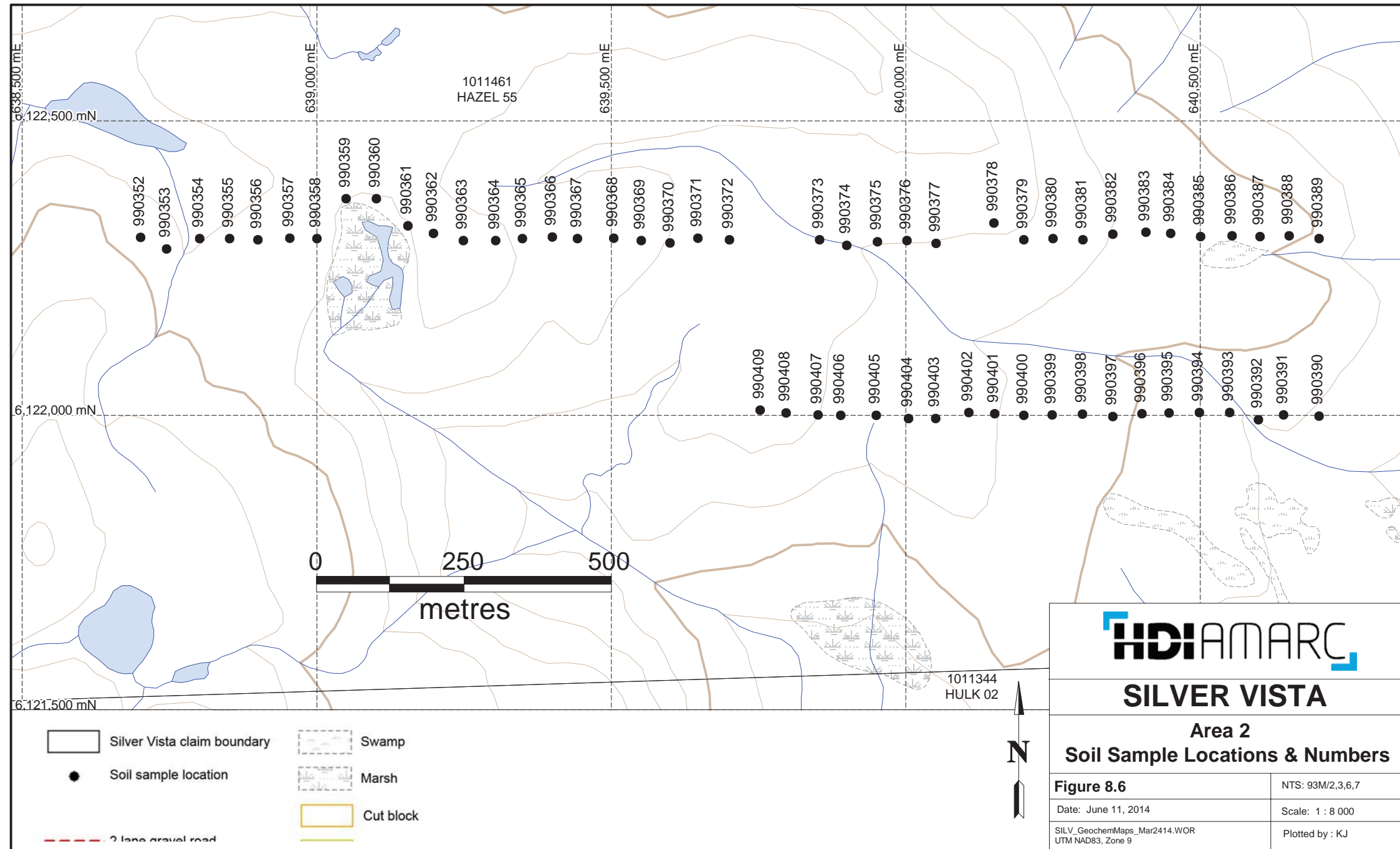
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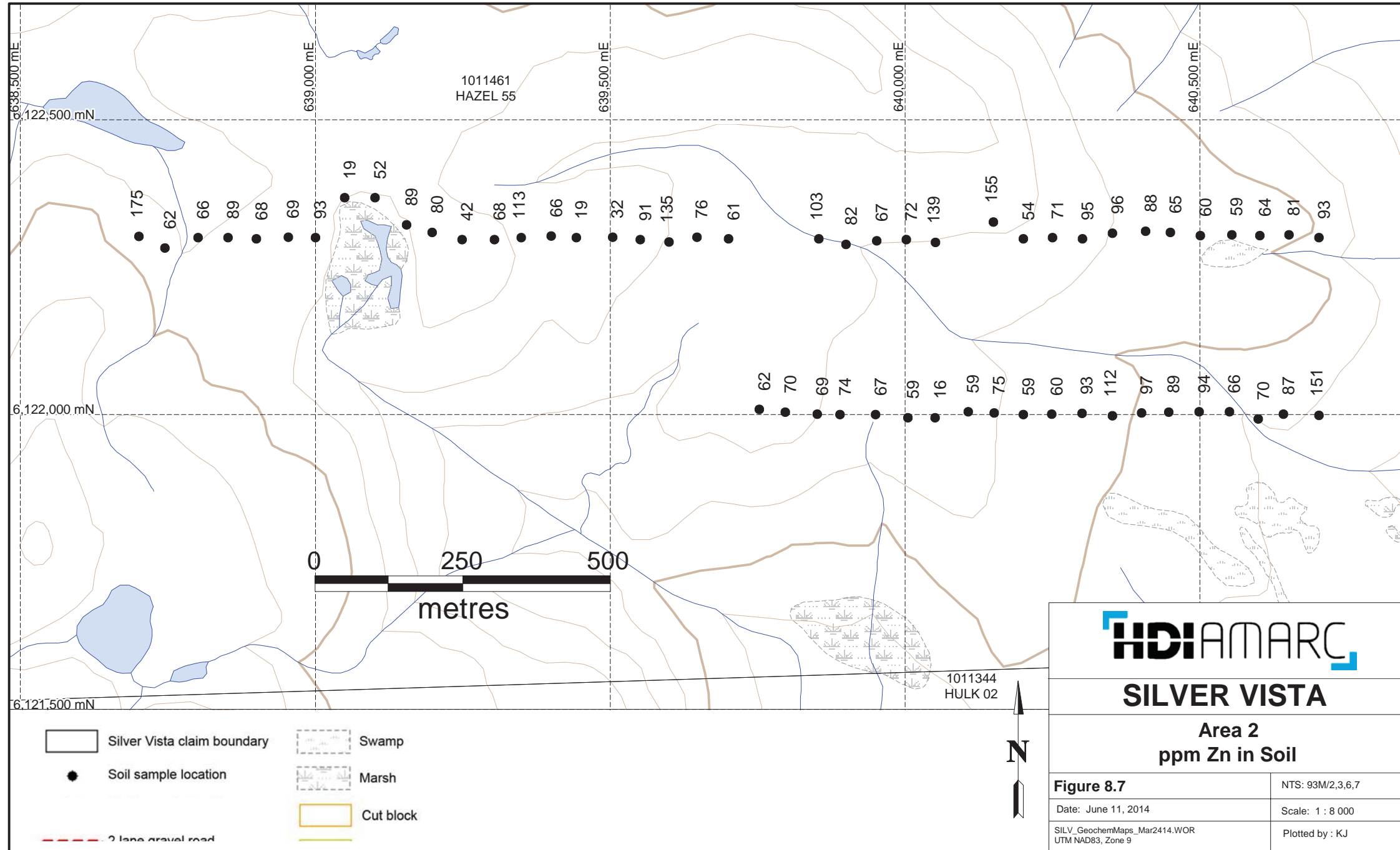
**SILVER VISTA**

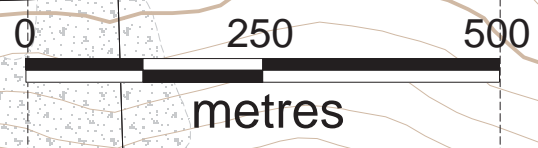
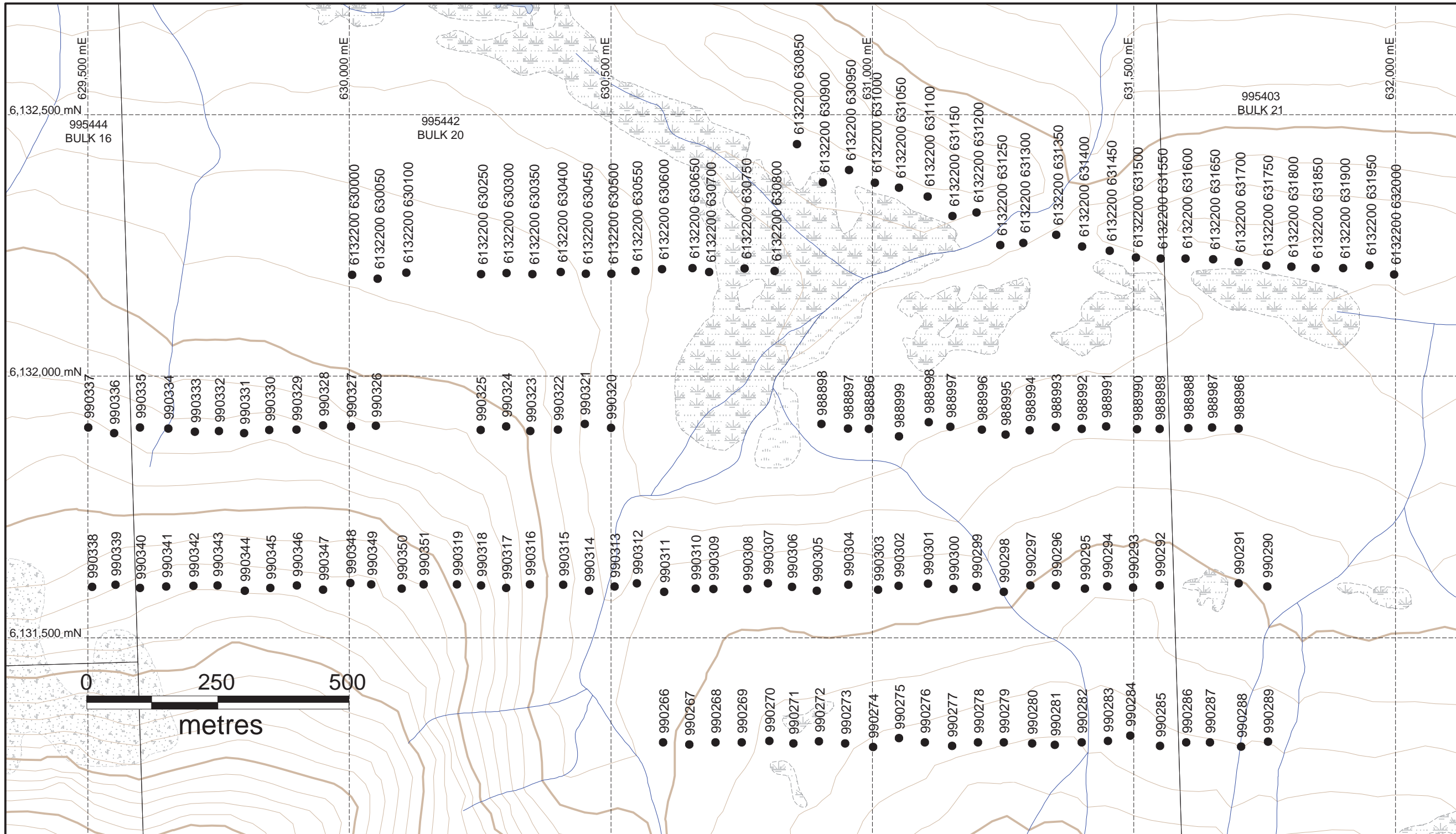
**Area 1  
ppm Zn in Soil**

<b>Figure 8.5</b>	NTS: 93M/2,3,6,7
Date: June 11, 2014	Scale: 1 : 8 000
SILV_GeochemMaps_Mar2414.WOR UTM NAD83, Zone 9	Plotted by : KJ









- Silver Vista claim boundary
- Soil sample location
- 2 lane gravel road
- 1 lane gravel road
- Swamp
- Marsh
- Cut block
- Select logging area

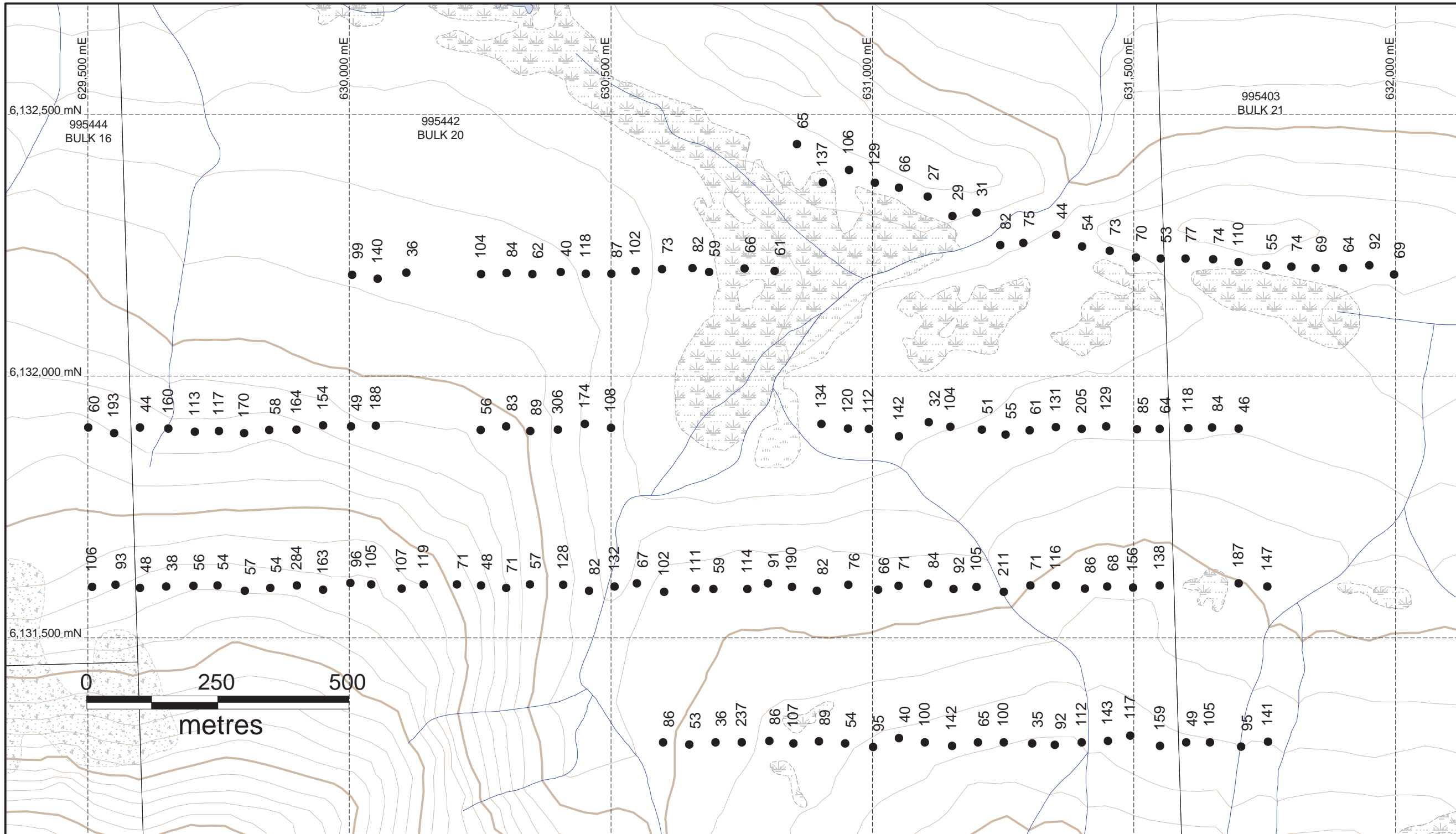


**HDIAMARC**

**SILVER VISTA**

**Sheet 3  
Soil Sample Numbers**

<b>Figure 8.8</b>	NTS: 93M/2,3,6,7
Date: June 11, 2014	Scale: 1 : 8 000
SILV_GeochemMaps_Mar2414.WOR UTM NAD83, Zone 9	Plotted by : KJ



- Silver Vista claim boundary
- Soil sample location
- 2 lane gravel road
- 1 lane gravel road
- Swamp
- Marsh
- Cut block
- Select logging area



**HDIAMARC**

**SILVER VISTA**

**Sheet 3**  
**ppm Zinc in Soil**

**Figure 8.9**

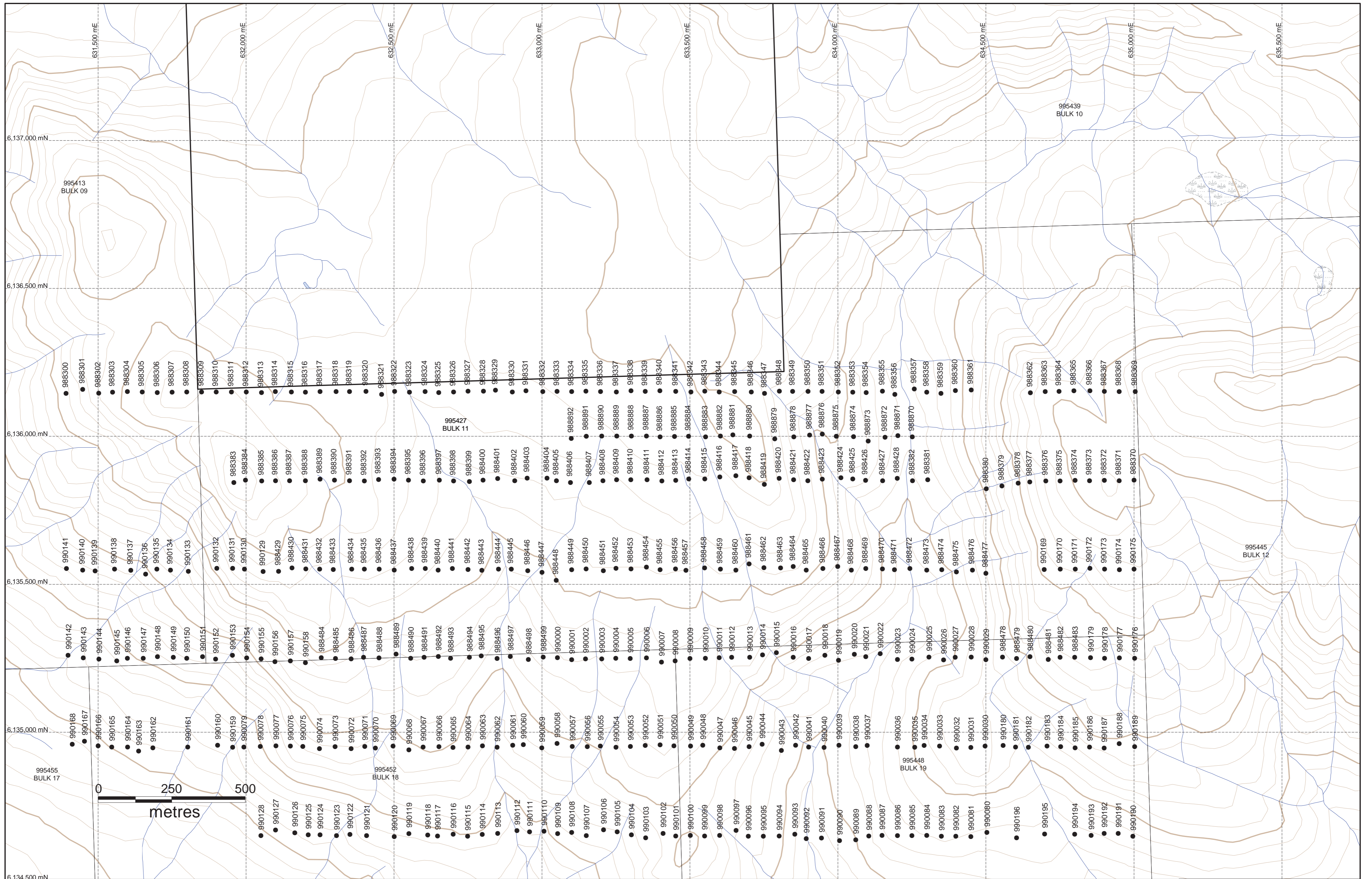
Date: June 11, 2014

SILV\_GeochemMaps\_Mar2414.WOR  
UTM NAD83, Zone 9

NTS: 93M/2,3,6,7

Scale: 1 : 8 000

Plotted by : KJ



- Silver Vista claim boundary
- Swamp
- Soil sample location
- Marsh
- 2 lane gravel road
- 1 lane gravel road
- Rough road
- Cut block
- Select logging area
- Burn

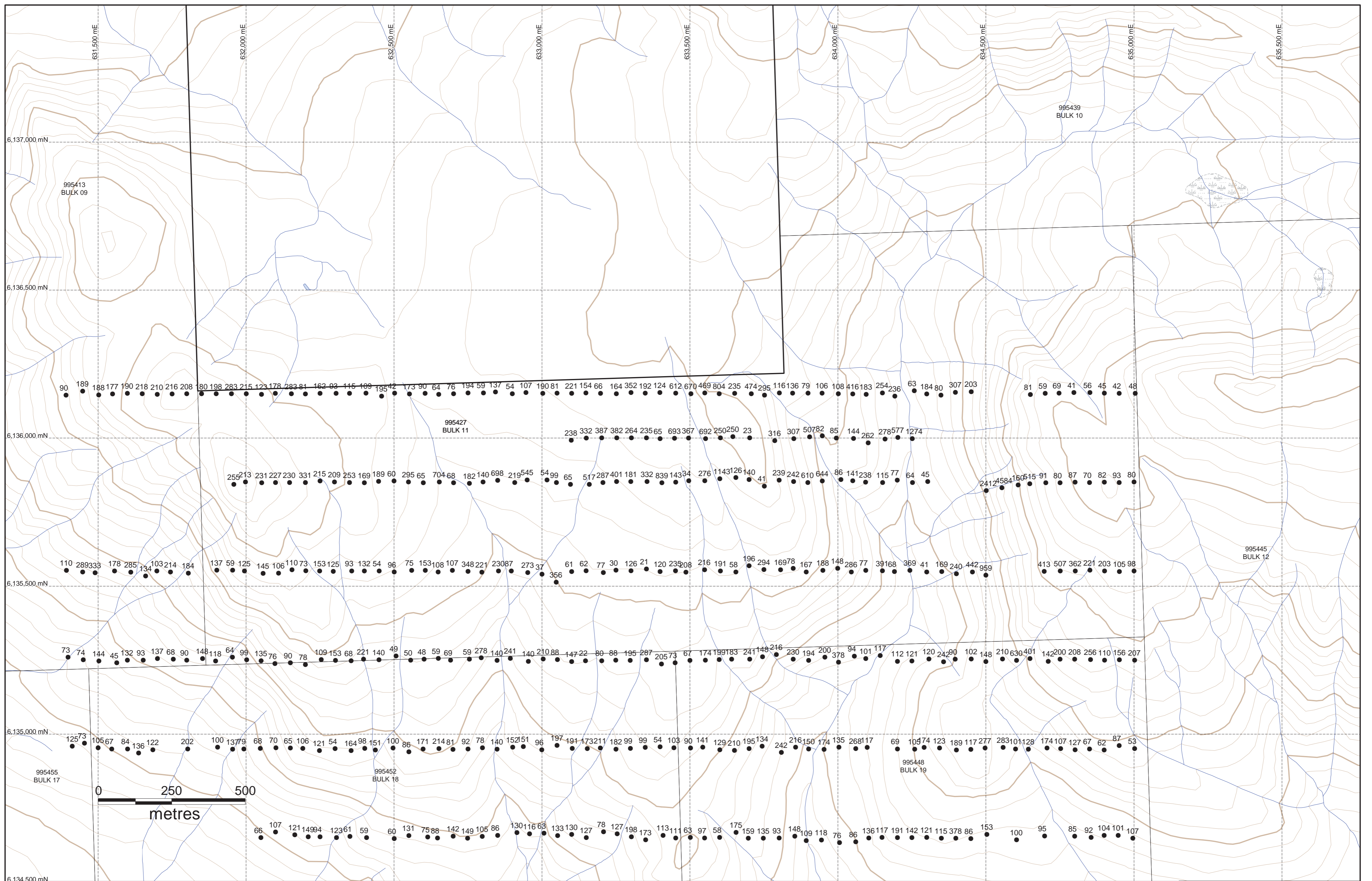


**HDIAMARC**

**SILVER VISTA**

**Area 4**  
**Soil Sample Locations & Numbers**

<b>Figure 8.10</b>	NTS: 93M/2,3,6,7
Date: June 11, 2014	Scale: 1 : 8 000
SILV_GeochemMaps_Mar2414 WOR UTM NAD83, Zone 9	Plotted by : KJ



- Silver Vista claim boundary
- Swamp
- Marsh
- Soil sample location
- Cut block
- 2 lane gravel road
- 1 lane gravel road
- Rough road
- Select logging area
- Burn



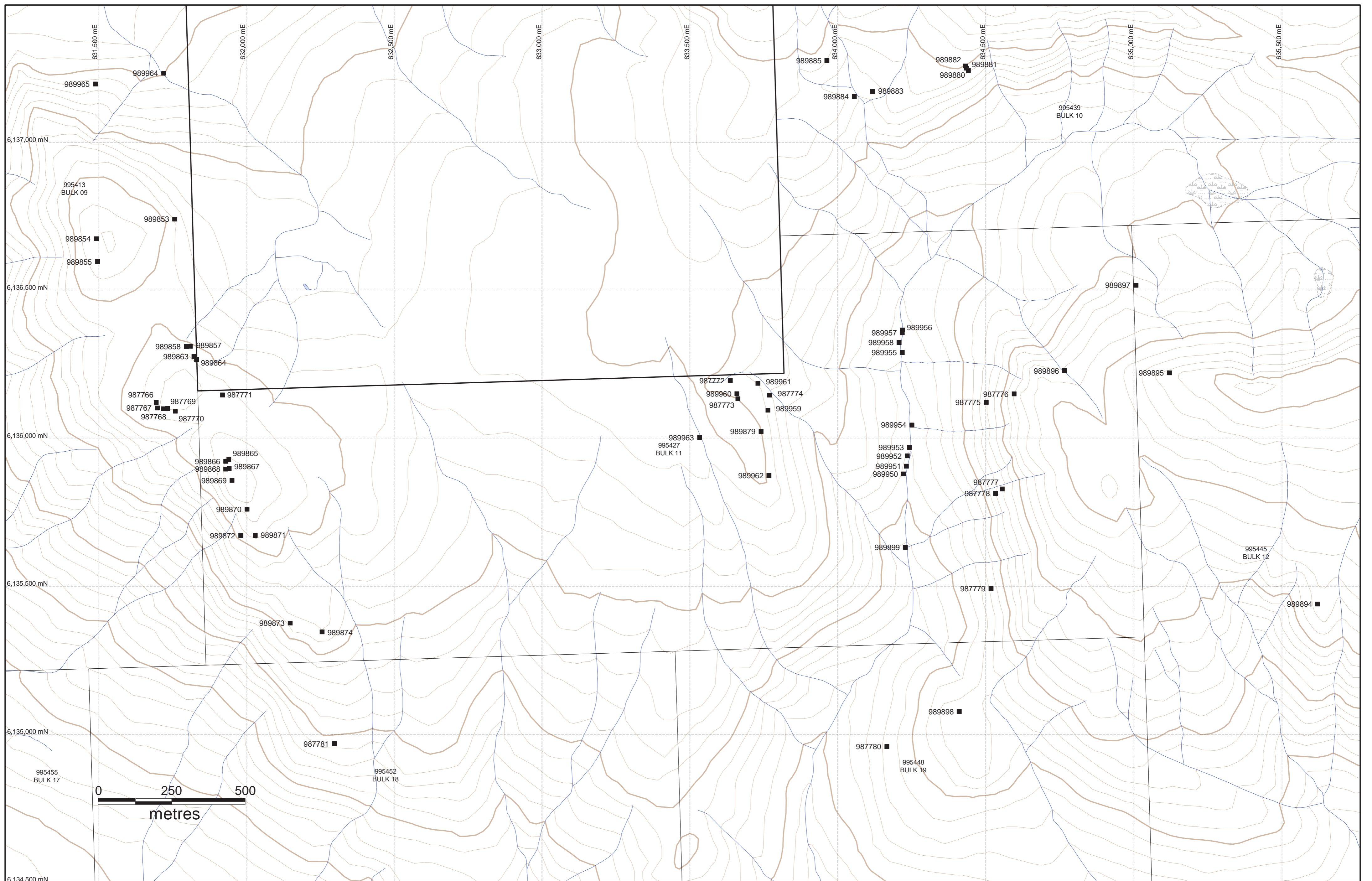
**HDIAMARC**

**SILVER VISTA**

**Area 4**

**ppm Zn in Soil**

<b>Figure 8.11</b>	NTS: 93M/2,3,6,7
Date: June 11, 2014	Scale: 1 : 8 000
SILV_GeochemMaps_Mar2414 WOR UTM NAD83, Zone 9	Plotted by : KJ



- Silver Vista claim boundary
- Swamp
- Marsh
- Rock sample location
- Cut block
- 2 lane gravel road
- 1 lane gravel road
- Rough road
- Select logging area
- Burn



**HDIAMARC**

**SILVER VISTA**

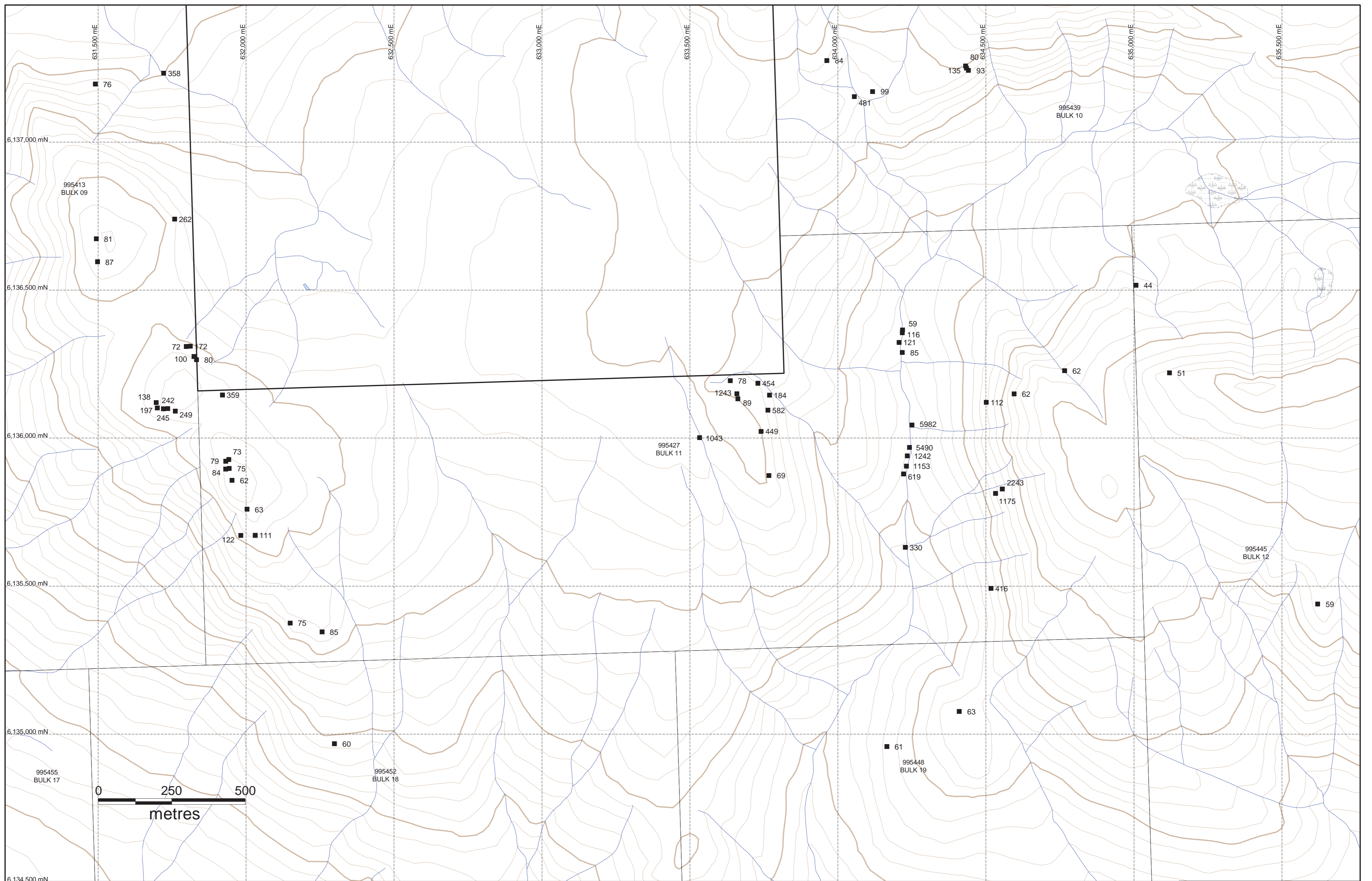
**Area 4**  
**Rock Sample Locations & Numbers**

**Figure 8.12** NTS: 93M/2,3,6,7

Date: June 11, 2014 Scale: 1 : 8 000

SILV\_GeochemMaps\_Mar2414 WOR Plotted by : KJ

UTM NAD83, Zone 9



- Silver Vista claim boundary
- Rock sample location
- 2 lane gravel road
- 1 lane gravel road
- Rough road
- Swamp
- Marsh
- Cut block
- Select logging area
- Burn



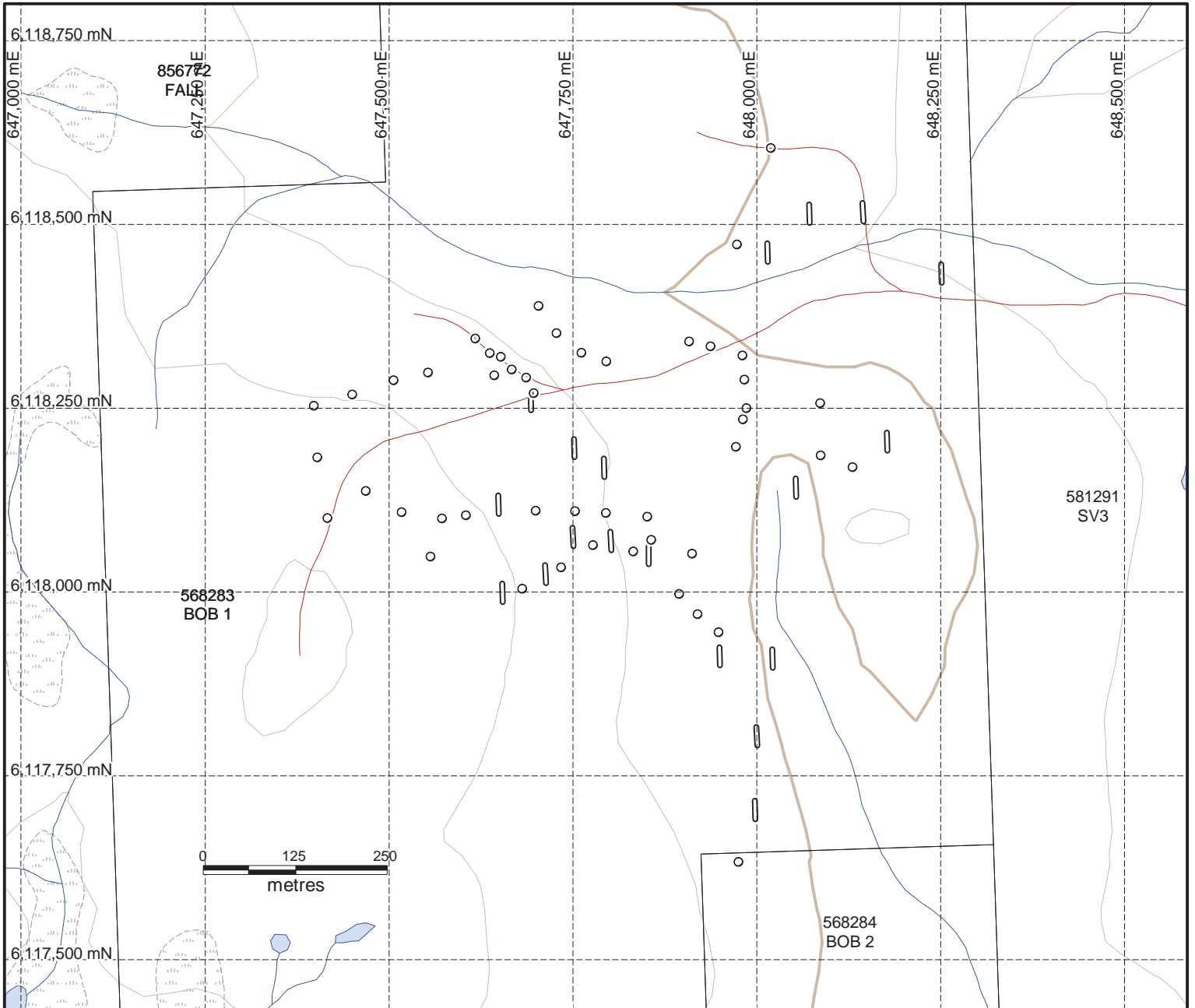
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**SILVER VISTA**

**Area 4  
ppm Zn in Rock**

<b>Figure 8.13</b>	NTS: 93M/2,3,6,7
Date: June 11, 2014	Scale: 1 : 8 000
SILV_GeochemMaps_Mar2414 WOR UTM NAD83, Zone 9	Plotted by : KJ





-  Silver Vista claim boundary
-  Pit location
-  Trench location
-  2 lane gravel road
-  1 lane gravel road
-  Rough road
-  Swamp
-  Marsh
-  Cut block
-  Select logging area
-  Burn



**HDIAMARC**

**SILVER VISTA**

**Area 1  
Pit and Trench Locations**

<b>Figure 8.14</b>	NTS: 93M/2,3,6,7
Date: June 11, 2014	Scale: 1 : 8 000
SILV_GeochemMaps_Mar2414.WOR UTM NAD83, Zone 9	Plotted by : KJ

# **APPENDIX A**

## **ROCK SAMPLE DESCRIPTIONS**

SAMPLE	SAMPLETYPE	EASTING	NORTHING	DESCRIPTION
987810	rock	647641.5	6118112	Fine grained, well sorted, weakly fossiliferous green sandstone; 5% feldspar fragments & hematitic fragments; loc. 5-10mm micro/cryptocrystalline rounded fragments (chalcedony?); 5-10cm large ammonites
987811	rock	647641.5	6118111.7	Fine grained, well sorted, weakly fossiliferous green sandstone; 5% feldspar fragments & hematitic fragments; loc. 5-10mm micro/cryptocrystalline rounded fragments (chalcedony?); 5-10cm large ammonites
987812	rock	647641.5	6118111.4	Fine grained, well sorted, weakly fossiliferous green sandstone; 5% feldspar fragments & hematitic fragments; loc. 5-10mm micro/cryptocrystalline rounded fragments (chalcedony?); 5-10cm large ammonites
987813	rock	647641.5	6118111.1	Fine grained, well sorted, weakly fossiliferous green sandstone; 5% feldspar fragments & hematitic fragments; loc. 5-10mm micro/cryptocrystalline rounded fragments (chalcedony?); 5-10cm large ammonites
987814	rock	647641.5	6118110.8	Fine grained, well sorted, weakly fossiliferous green sandstone; 5% feldspar fragments & hematitic fragments; loc. 5-10mm micro/cryptocrystalline rounded fragments (chalcedony?); 5-10cm large ammonites
987815	rock	647641.5	6118110.5	Fine grained, well sorted, weakly fossiliferous green sandstone; 5% feldspar fragments & hematitic fragments; loc. 5-10mm micro/cryptocrystalline rounded fragments (chalcedony?); 5-10cm large ammonites
987816	rock	647641.5	6118110.2	Fine grained, well sorted, weakly fossiliferous green sandstone; 5% feldspar fragments & hematitic fragments; loc. 5-10mm micro/cryptocrystalline rounded fragments (chalcedony?); 5-10cm large ammonites
987755	rock	648029.5	6118485.8	Fine grained to medium grained, immature, fossiliferous, grey sandstone
987753	rock	648029.5	6118484.8	Fine grained to medium grained, immature, fossiliferous, grey sandstone
987751	rock	648029.5	6118483.8	Fine grained to medium grained, immature, fossiliferous, grey sandstone
987756	rock	648029.5	6118482.8	Fine grained to medium grained, immature, fossiliferous, grey sandstone
987754	rock	648029.5	6118481.8	Fine grained to medium grained, immature, fossiliferous, grey sandstone
987752	rock	648029.5	6118480.8	Fine grained to medium grained, immature, fossiliferous, grey sandstone
987750	rock	648029.5	6118479.8	Fine grained to medium grained, immature, fossiliferous, grey sandstone
987757	rock	647970.9	6118475.9	Fine grained to medium grained, immature, fossiliferous, grey sandstone
987712	rock	647725.7	6118353.4	Fine grained, feldspathic, grey-green immature sandstone
987719	rock	647905.6	6118343.2	Fine grained, fossiliferous, grey-green, mature sandstone

987709	rock	647759.3	6118327	Fine grained, feldspathic, grey-green immature sandstone
987808	rock	647649.6	6118323.1	Fine grained, well sorted grey sandstone with up to 3% hematitic fragments
987717	rock	647793.5	6118315.6	Fine grained, fossiliferous, grey-green, mature sandstone
987807	rock	647664.5	6118308	Tuffaceous, poorly sorted, grey sandstone; 5% hematitic fragments and organics; pseudo fiamme texture (alignment of fragments along long axis)
987806	rock	647664.5	6118306	Tuffaceous, poorly sorted, grey sandstone; 5% hematitic fragments and organics; pseudo fiamme texture (alignment of fragments along long axis)
987809	rock	647641.2	6118297.2	Tuffaceous, poorly sorted, grey sandstone; 5% hematitic fragments and organics
987704	rock	647684.1	6118294	Fine grained, fossiliferous, grey-green, mature sandstone
987723	rock	647504	6118289	Fine grained, grey-green, mature sandstone
987706	rock	647694.4	6118274.4	Fine grained, feldspathic, grey, immature sandstone
987708	rock	647694.4	6118274.4	Fine grained, feldspathic, grey-blue, immature sandstone
987650A	rock	647698.7	6118264	Fine grained, feldspathic, grey, immature sandstone
987651A	rock	647698.7	6118261	Fine grained, feldspathic, grey, immature sandstone
987652A	rock	647698.7	6118258	Fine grained, feldspathic, grey, immature sandstone
987653A	rock	647698.7	6118255	Fine grained, feldspathic, grey, immature sandstone
987654	rock	647698.7	6118252	Fine grained, feldspathic, grey, immature sandstone
987655	rock	647698.7	6118249	Fine grained, feldspathic, grey, immature sandstone
987656	rock	647698.7	6118246	Fine grained, feldspathic, grey, immature sandstone
987657	rock	647698.7	6118243	Fine grained, feldspathic, grey, immature sandstone
987688	rock	648170.8	6118199.6	Fine grained, grey, mature sandstone
987674	rock	647747.5	6118192.4	Fine grained, feldspathic, grey, immature sandstone
987675	rock	647748	6118190.4	Fine grained, feldspathic, grey, immature sandstone
987687	rock	648084.4	6118189.4	Fine grained, grey, mature sandstone
987676	rock	647748.5	6118188.4	Fine grained, feldspathic, grey, immature sandstone
987677	rock	647749	6118186.4	Fine grained, feldspathic, grey, immature sandstone
987678	rock	647749.5	6118184.4	Fine grained, feldspathic, grey, immature sandstone
987667	rock	647400.3	6118183.5	Fine grained, feldspathic, grey, immature sandstone
987685	rock	647812.1	6118182.9	Fine grained, grey, mature sandstone
987679	rock	647750	6118182.4	Fine grained, feldspathic, grey, immature sandstone
987684	rock	647810.1	6118182.4	Fine grained, grey, mature sandstone
987683	rock	647808.1	6118181.9	Fine grained, grey, mature sandstone
987682	rock	647806.1	6118181.4	Fine grained, grey, mature sandstone
987681	rock	647804.1	6118180.9	Fine grained, grey, mature sandstone
987680	rock	647802.1	6118180.4	Fine grained, grey, mature sandstone
987689	rock	648127.9	6118173.5	Fine grained, grey, mature sandstone
987669	rock	647466.2	6118139.9	Fine grained, feldspathic, grey, immature sandstone
987686	rock	648083.3	6118135.1	Fine grained, grey, mature sandstone
987817	rock	647697.3	6118114.7	Fine grained, grey-green well sorted mature sandstone
987818	rock	647751	6118114	Fine grained, grey-green well sorted mature sandstone
987819	rock	647792.6	6118111.3	Fine grained, grey-green well sorted mature sandstone
987670	rock	647515.2	6118110.9	Fine grained, feldspathic, grey, immature sandstone

987673	rock	647602.8	6118107.6	Fine grained, feldspathic, grey, immature sandstone
987820	rock	647848.7	6118106.3	Fine grained, fossiliferous (bivalves) grey-green well sorted mature sandstone
987668	rock	647414.4	6118103.5	Fine grained, feldspathic, grey, immature sandstone
987671	rock	647570.1	6118102.2	Fine grained, feldspathic, grey, immature sandstone
987826	rock	647759.1	6118092	Poorly sorted, fine to medium grained grey-green sandstone, 1-2% fine black organic trash
987825	rock	647759.1	6118089	Poorly sorted, fine to medium grained grey-green sandstone, 1-2% fine black organic trash
987824	rock	647759.1	6118086	Poorly sorted, fine to medium grained grey-green sandstone, 1-2% fine black organic trash
987823	rock	647759.1	6118083	Poorly sorted, fine to medium grained grey-green sandstone, 1-2% fine black organic trash
987822	rock	647759.1	6118080	Poorly sorted, fine to medium grained grey-green sandstone, 1-2% fine black organic trash
987827	rock	647774.8	6118066.7	Poorly sorted, fine to medium grained, feldspathic green sandstone, 1-2% fine black organic trash
987845	rock	647864.1	6118055	Fine grained, grey-green, mature sandstone
987846	rock	647864.1	6118053	Fine grained, grey-green, mature sandstone
987847	rock	647864.1	6118051	Fine grained, grey-green, mature sandstone
987672	rock	647554.3	6118050.4	Fine grained, feldspathic, grey, immature sandstone
987848	rock	647864.1	6118049	Fine grained, feldspathic, grey-green, immature sandstone
987828	rock	647795.1	6118048.1	Well sorted, fine grained, feldspathic grey-green sandstone
987849	rock	647864.1	6118047	Medium to coarse grained, poorly sorted, immature sandstone
987700	rock	647864.1	6118045	Fine grained, grey-green, mature sandstone
987701	rock	647864.1	6118043	Fine grained, grey-green, mature sandstone
987829	rock	647732.1	6118036.7	Fine grained, fossiliferous (bivalves), feldspathic, grey-green, immature sandstone
987836	rock	647713.4	6118020	Fine grained, feldspathic, grey-green, immature sandstone
987837	rock	647713.4	6118017	Fine grained, feldspathic, grey-green, immature sandstone
987830	rock	647713.6	6118016	Fine grained, fossiliferous (bivalves), feldspathic, grey-green, immature sandstone
987838	rock	647713.4	6118014	Fine grained, feldspathic, grey-green, immature sandstone
987831	rock	647713.6	6118013	Fine grained, feldspathic, grey-green, immature sandstone
987839	rock	647713.4	6118011	Fine grained, feldspathic, grey-green, immature sandstone
987832	rock	647713.6	6118010	Fine grained, feldspathic, grey-green, immature sandstone
987840	rock	647713.4	6118008	Fine grained, feldspathic, grey-green, immature sandstone
987833	rock	647713.6	6118007	Medium grained, feldspathic, grey-green, immature sandstone

987841	rock	647713.4	6118005	Fine grained, feldspathic, grey-green, immature sandstone
987834	rock	647713.6	6118004	Fine grained, feldspathic, grey-green, immature sandstone
987842	rock	647713.4	6118002	Fine grained, feldspathic, grey-green, immature sandstone
987835	rock	647713.6	6118001	Fine grained, feldspathic, grey-green, immature sandstone
987844	rock	647892.4	6118000.8	Very fine-grained, tan sandstone to mudstone
987843	rock	647653.1	6117994.2	Fine grained, feldspathic, grey-green, immature sandstone
987703	rock	648023.9	6117907	Fine grained, feldspathic, grey-green, immature sandstone
987702	rock	648023.9	6117904	Fine grained, feldspathic, grey-green, immature sandstone
987658	rock	648001.1	6117783.7	Felsic to intermediate, maroon volcanoclastic
987659	rock	648001.1	6117780.7	Felsic to intermediate, maroon volcanoclastic
987660	rock	648001.1	6117777.7	Felsic to intermediate, maroon volcanoclastic
987661	rock	647997.6	6117700.8	Felsic to intermediate, maroon volcanoclastic
987662	rock	647997.6	6117697.8	Felsic to intermediate, maroon volcanoclastic
987663	rock	647997.6	6117694.8	Felsic to intermediate, maroon volcanoclastic
987664	rock	647997.6	6117691.8	Felsic to intermediate, maroon volcanoclastic
987665	rock	647997.6	6117688.8	Felsic to intermediate, maroon volcanoclastic
987666	rock	647972.7	6117636.8	Felsic to intermediate, maroon volcanoclastic
987821	rock	647854	6105101.8	Fine grained, fossiliferous (bivalves), feldspathic, grey-green, well sorted, mature sandstone
987766	rock	631697	6136120	Quartz Monzonite
987767	rock	631700	6136102	Quartz Monzonite
987768	rock	631721	6136099	Quartz Monzonite
987769	rock	631735	6136100	Quartz Monzonite
987770	rock	631761	6136091	Quartz Monzonite
987771	rock	631920	6136146	Quartz Monzonite
987772	rock	633636	6136194	Andesite
987773	rock	633662	6136133	Quartz Monzonite
987774	rock	633769	6136145	Quartz Monzonite
987775	rock	634501	6136121	Quartz Monzonite
987776	rock	634595	6136149	Monzonite-Monzodiorite
987777	rock	634555	6135828	Monzonite-Monzodiorite
987778	rock	634532	6135813	Monzonite-Monzodiorite
989853	rock	631759.2	6136740.2	Quartz-feldspar porphyry (quartz-monzonite) with characteristic 3-10mm large quartz phenocrysts ranging in abundance from 3-10%, groundmass has sucrosic texture; brownish weathered out spots/pits, no feldspar phases apparent, weathered out/leached out?
989854	rock	631494.1	6136673.3	Quartz-feldspar porphyry (quartz-monzonite) with characteristic 3-10mm large quartz phenocrysts ranging in abundance from 3-10%, groundmass has sucrosic texture; brownish weathered out spots/pits, no feldspar phases apparent, weathered out/leached out?

989855	rock	631498.1	6136595.6	Quartz-feldspar porphyry (quartz-monzonite) with characteristic 3-10mm large quartz phenocrysts ranging in abundance from 3-10%, groundmass has sugary texture
989857	rock	631811.7	6136310.4	Quartz-feldspar porphyry (quartz-monzonite) with characteristic 3-10mm large quartz phenocrysts ranging in abundance from 5-15%, groundmass has sugary texture; up to 2% mafic phase (fine bt+/-hbl)
989858	rock	631798.4	6136309.5	Bedded, fine sediments (mostly mature arkosic sandstone)
989863	rock	631824.2	6136275.8	Quartz-feldspar porphyry (quartz-monzonite) with characteristic 3-10mm large quartz phenocrysts ranging in abundance from 5-15%, groundmass has sugary texture; up to 2% mafic phase (fine bt+/-hbl); feldspars are orangy/red and very soft
989864	rock	631832.6	6136265	Bedded, fine sediments (mostly fine sandstone), green-grey with abundant chl veinlets
989865	rock	631942	6135928	Grey to tan, fine grained equigranular Hbl-Monzodiorite
989866	rock	631931.9	6135921.5	Grey to tan, fine grained equigranular Hbl-Monzodiorite
989867	rock	631943.4	6135897.4	Grey to tan, fine grained equigranular Hbl-Monzodiorite
989868	rock	631932	6135895.4	Grey to tan, fine grained equigranular Hbl-Monzodiorite
989869	rock	631953	6135857.3	Grey to tan, fine grained equigranular Hbl-Monzodiorite; on top of ridge where QFP locally intrudes Hbl-Mzodiorite
989870	rock	632003.3	6135759.6	Tan fine grained equigranular Hbl-Monzodiorite
989871	rock	632031	6135671.9	Tan fine grained equigranular Hbl-Monzodiorite
989872	rock	631982.6	6135670.9	Tan fine grained equigranular Hbl-Monzodiorite
989873	rock	632148.9	6135375.3	Tan fine grained equigranular Hbl-Monzodiorite
989874	rock	632256.6	6135345	Tan fine grained equigranular Hbl-Monzodiorite
989879	rock	633740.3	6136022.7	Quartz-feldspar porphyry (quartz-monzonite) with characteristic 3-10mm large quartz phenocrysts ranging in abundance from 5-15%, groundmass has sugary texture; up to 2% mafic phase (fine bt+/-hbl); feldspars are orangy/red and very soft
989880	rock	634440.8	6137242.7	Fine bedded sediments (mudstone, sandstone and pebble conglomerate); rusty sediments in the cliff face
989881	rock	634433.8	6137250.3	Fine bedded sediments (mudstone, sandstone and pebble conglomerate); rusty sediments in the cliff face
989882	rock	634431.1	6137257.2	Fine bedded sediments (mudstone, sandstone and pebble conglomerate); rusty sediments in the cliff face
989883	rock	634117.1	6137171.1	Red arkosic sandstone
989884	rock	634055	6137153.6	Grey felsic volcanic, very fine grained to aphanitic with locally quartz crystals which are rounded and 1mm in size
989885	rock	633962.8	6137275.8	Sandy pebble conglomerate
987779	rock	634517	6135492	Porphyritic Quartz Monzonite
987780	rock	634165	6134958	Andesite
987781	rock	632299	6134967	Andesite

989894	rock	635621.1	6135439.6	Green-grey fgr equigranular monzonite, with up to 2% hbl; intruding fine sediment; at contact ~4% pyrite as well as in the sediments (mostly disseminated); finer grained at contact
989895	rock	635120.1	6136220.7	Feldspar porphyry (monzonite) with up 2% fine quartz phenocrysts; feldspar phase is plagioclase and minor kfs feldspar commonly with sodic feldspar rims; 1-2% hbl
989896	rock	634765.7	6136227.7	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and minor kfs feldspar commonly with sodic feldspar rims; 1-2% hbl
989897	rock	635006.7	6136516.7	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and minor kfs feldspar commonly with sodic feldspar rims; 1-2% hbl; weakly magnetic
989898	rock	634409.8	6135076	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and minor kfs feldspar commonly with sodic feldspar rims; 1-2% hbl; weakly magnetic
989899	rock	634227.6	6135631.1	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and commonly only ghostly outlines are preserved; 1-2% hbl; groundmass is silicified
989950	rock	634221.8	6135878.8	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and commonly only ghostly outlines are preserved; 1-2% hbl; groundmass is silicified
989951	rock	634231.7	6135905.7	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and commonly only ghostly outlines are preserved; 1-2% hbl; groundmass is silicified
989952	rock	634234.2	6135940	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and commonly only ghostly outlines are preserved; 1-2% hbl; groundmass is silicified
989953	rock	634241.3	6135968.5	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and commonly only ghostly outlines are preserved; 1-2% hbl; groundmass is silicified
989954	rock	634249.4	6136044.5	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and commonly only ghostly outlines are preserved; 1-2% hbl; groundmass is silicified
989955	rock	634217.4	6136289.2	Very fine, white felsic tuff?, loc rem. Feldspar crystals altered to clay, groundmass appears glassy with sub-mm plag laths/shards
989956	rock	634217.8	6136365.2	Black mudstone interbedded with arkosic sandstone; brittle fractionation in orientation of s0



989957	rock	634217.5	6136356.1	Very fine, white felsic tuff?, loc rem. Feldspar crystals altered to clay, groundmass appears glassy with sub-mm plag laths/shards
989958	rock	634206.6	6136323.7	Very fine, white felsic tuff?, loc rem. Feldspar crystals altered to clay, groundmass appears glassy with sub-mm plag laths/shards
989959	rock	633763.2	6136094.3	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and commonly only ghostly outlines are preserved; 1-2% hbl; groundmass is silicified
989960	rock	633658.7	6136149.9	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and commonly only ghostly outlines are preserved; 1-2% hbl; groundmass is silicified
989961	rock	633729.5	6136185.3	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; feldspar phase is plagioclase and commonly only ghostly outlines are preserved; 1-2% hbl; groundmass is silicified
989962	rock	633767	6135873.7	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts
989963	rock	633532.2	6136001.5	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts
989964	rock	631721.6	6137233.3	Quartz-feldspar porphyry (qtz-monzonite) with up 8% megacrystic quartz phenocrysts; weakly magnetic due to phrrhotite at mafic sites which have been chloritized
989965	rock	631490.7	6137196.2	Equigranular qtz-monz to granodiorite; interlocking grains, fresh

# **APPENDIX B**

## **ANALYTICAL METHODS**

## METHOD SPECIFICATIONS

### GROUP 1D AND 1F – GEOCHEMICAL AQUA REGIA DIGESTION

<b>Package Codes:</b>	<b>1D01 to 1D03, 1DX1 to 1DX3, 1F01 to 1F07</b>
<b>Sample Digestion:</b>	<b>HNO<sub>3</sub>-HCl acid digestion</b>
<b>Instrumentation Method:</b>	<b>ICP-ES (1D), ICP-MS (1DX, 1F)</b>
<b>Applicability:</b>	<b>Sediment, Soil, Non-mineralized Rock and Drill Core</b>

#### Method Description:

Prepared sample is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO<sub>3</sub> and DI H<sub>2</sub>O for one hour in a heating block of hot water bath. Sample is made up to volume with dilute HCl. Sample splits of 0.5g, 15g or 30g can be analyzed.

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Ag	0.3 ppm	0.1 ppm	2 ppb	100 ppm
Al*	0.01%	0.01%	0.01%	10%
As	2 ppm	0.5 ppm	0.1 ppm	10000 ppm
Au	2 ppm	0.5 ppb	0.2 ppb	100 ppm
B*^	20 ppm	20 ppm	20 ppm	2000 ppm
Ba*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Bi	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Ca*	0.01%	0.01%	0.01%	40%
Cd	0.5 ppm	0.1 ppm	0.01 ppm	2000 ppm
Co	1 ppm	0.1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	0.01 ppm	10000 ppm
Fe*	0.01%	0.01%	0.01%	40%
Ga*	-	1 ppm	0.1 ppm	1000 ppm
Hg	1 ppm	0.01 ppm	5 ppb	50 ppm
K*	0.01%	0.01%	0.01%	10%
La*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Mg*	0.01%	0.01%	0.01%	30%
Mn*	2 ppm	1 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	0.01 ppm	2000 ppm
Na*	0.01%	0.001%	0.001%	5%
Ni	1 ppm	0.1 ppm	0.1 ppm	10000 ppm
P*	0.001%	0.001%	0.001%	5%
Pb	3 ppm	0.1 ppm	0.01 ppm	10000 ppm
S	0.05%	0.05%	0.02%	10%

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Sb	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Sc	-	0.1 ppm	0.1 ppm	100 ppm
Se	-	0.5 ppm	0.1 ppm	100 ppm
Sr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Te	-	0.2 ppm	0.02 ppm	1000 ppm
Th*	2 ppm	0.1 ppm	0.1 ppm	2000 ppm
Ti*	0.01%	0.001%	0.001%	5%
Tl	5 ppm	0.1 ppm	0.02 ppm	1000 ppm
U*	8 ppm	0.1 ppm	0.05 ppm	2000 ppm
V*	1 ppm	2 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	0.05 ppm	100 ppm
Zn	1 ppm	1 ppm	0.1 ppm	10000 ppm
Be*	-	-	0.1 ppm	1000 ppm
Ce*	-	-	0.1 ppm	2000 ppm
Cs*	-	-	0.02 ppm	2000 ppm
Ge*	-	-	0.1 ppm	100 ppm
Hf*	-	-	0.02 ppm	1000 ppm
In	-	-	0.02 ppm	1000 ppm
Li*	-	-	0.1 ppm	2000 ppm
Nb*	-	-	0.02 ppm	2000 ppm
Rb*	-	-	0.1 ppm	2000 ppm
Re	-	-	1 ppb	1000 ppb
Sn*	-	-	0.1 ppm	100 ppm
Ta*	-	-	0.05 ppm	2000 ppm
Y*	-	-	0.01 ppm	2000 ppm
Zr*	-	-	0.1 ppm	2000 ppm
Pt*	-	-	2 ppb	100 ppm
Pd*	-	-	10 ppb	100 ppm
Pb <sub>204</sub>	-	-	0.01 ppm	10000 ppm
Pb <sub>206</sub>	-	-	0.01 ppm	10000 ppm
Pb <sub>207</sub>	-	-	0.01 ppm	10000 ppm
Pb <sub>208</sub>	-	-	0.01 ppm	10000 ppm

\* Solubility of some elements will be limited by mineral species present.

^Detection limit = 1 ppm for 15g / 30g analysis.

#### Limitations:

Au solubility can be limited by refractory and graphitic samples.

## METHOD SPECIFICATIONS

### GROUP 3B AND G6 – PRECIOUS METALS BY FIRE ASSAY FUSION

<b>Package Codes:</b>	<b>3B01 to 3B04, G601 to G614</b>
<b>Sample Digestion:</b>	<b>Lead-collection fire assay fusion</b>
<b>Instrumentation Method:</b>	<b>ICP-ES (3B, G6), ICP-MS (3B-MS), AA (3B, G6), Gravimetric (G6)</b>
<b>Applicability:</b>	<b>Rock, Drill Core</b>

#### Method Description:

Prepared sample is custom-blended with fire-assay fluxes, PbO litharge and a Ag inquart. Firing the charge at 1050 °C liberates Ag ± Au ± PGEs that report to the molten Pb-metal phase. After cooling the Pb button is recovered, placed in a cupel and fired at 950 °C to render a Ag ± Au ± PGEs dore bead. The bead is digested for ICP analysis or weighed and parted in ACS grade HNO<sub>3</sub> to dissolve Ag leaving a Au sponge. Au is weighed for Gravimetric determination; ACS grade HCl is added dissolving the Au ± PGE sponge for Instrument determination.

Element	3B Detection	3B Upper Limit	3B-MS Detection	3B-MS Upper Limit
<b>Au</b>	2 ppb	10000 ppb	1 ppb	10000 ppb
<b>Pt</b>	3 ppb	10000 ppb	0.1 ppb	10000 ppb
<b>Pd</b>	2 ppb	10000 ppb	0.5 ppb	10000 ppb

Element	G6 (Inst) Detection	G6 (Inst) Upper Limit	G6 (Grav) Detection	G6 (Grav) Upper Limit
<b>Ag</b>	--	--	50 g/t	1 ton
<b>Au</b>	0.005 g/t	10 g/t	0.17 g/t	1 ton
<b>Pt</b>	0.01 g/t	100 g/t	--	--
<b>Pd</b>	0.01 g/t	100 g/t	--	--

#### Note:

\*Sulphide-rich samples require a 15g or smaller sample for proper fusion.

## METHOD SPECIFICATIONS

### GROUP 7TD AND 7TX – ASSAY FOUR-ACID DIGESTION

**Package Codes:** 7TD1, 7TD2, 7TD3, 7TX1  
**Sample Digestion:** HF-HNO<sub>3</sub>-HClO<sub>4</sub> acid digestion  
**Instrumentation Method:** ICP-ES (7TD, 7TX), ICP-MS (7TX)  
**Applicability:** Rock and Drill Core

#### Method Description:

Prepared sample is digested to complete dryness with an acid solution of (2:2:1:1) H<sub>2</sub>O-HF-HClO<sub>4</sub>-HNO<sub>3</sub>. 50% HCl is added to the residue and heated using a mixing hot block. After cooling the solutions are made up to volume with dilute HCl in class A volumetric flasks. Sample splits of 0.5g or 0.1g can be analyzed. Very high-grade samples are reweighed at lower weight to accommodate analysis up to 100% upper limit.

Element	Group 7TD Detection	Group 7TX Detection
Ag	2 g/t	0.5 ppm
Al*	0.01%	0.01%
As	0.02%	5 ppm
Ba*	-	5 ppm
Be	-	5 ppm
Bi	0.01%	0.5 ppm
Ca*	0.01%	0.01%
Cd	0.001%	0.5 ppm
Ce	-	5 ppm
Co	0.001%	1 ppm
Cr*	0.001%	1 ppm
Cu	0.001%	0.5 ppm
Fe*	0.01%	0.01%
Hf*	-	0.5 ppm
K	0.01%	0.01%
La	-	0.5 ppm
Li	-	0.5 ppm
Mg	0.01%	0.01%
Mn*	0.01%	5 ppm
Mo	0.001%	0.5 ppm
Na	0.01%	0.01%
Nb*	-	0.5 ppm
Ni	0.001%	0.5 ppm
P	0.01%	0.01%
Pb	0.02%	0.5 ppm

Element	Group 7TD Detection	Group 7TX Detection
Rb	-	0.5 ppm
S*	0.05%	0.05%
Sb	0.01%	0.5 ppm
Sc	-	1 ppm
Sn*	-	0.5 ppm
Sr	0.01%	5 ppm
Ta*	-	0.5 ppm
Th	-	0.5 ppm
Ti*	-	0.001%
U	-	0.5 ppm
V	-	10 ppm
W*	0.01%	0.5 ppm
Y	-	0.5 ppm
Zn	0.01%	5 ppm
Zr*	-	0.5 ppm

**Limitations:**

\*This digestion is only partial for some Cr and Ba minerals and some oxides of Al, Fe, Hf, Mn, Nb, S, Sn, Ta, Ti, W and Zr if refractory minerals are present.

†Volatilization may occur during fuming resulting in some loss of As and Sb.

# **APPENDIX C**

## **ASSAY CERTIFICATES**





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Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

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

Submitted By: Ted Oliver  
Receiving Lab: Canada-Smithers  
Received: June 24, 2013  
Report Date: July 04, 2013  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

SMI13000051.1

### CLIENT JOB INFORMATION

Project: SIVI  
Shipment ID: 13R01  
P.O. Number: SIVI\_SSN13R01\_JUN24  
Number of Samples: 23

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	23	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	23	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: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC: ahldata



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.

# CERTIFICATE OF ANALYSIS

SMI13000051.1

Method	Analyte	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
987806	Rock	4.56	0.4	23.7	6.4	128	0.2	5.3	8.7	832	3.67	8.9	0.1	1.1	0.9	299	1.0	0.2	<0.1	49	0.26
987807	Rock	4.79	0.2	15.1	3.4	97	<0.1	3.3	5.4	841	3.35	3.5	<0.1	0.7	0.6	43	0.3	<0.1	<0.1	46	0.82
987808	Rock	5.69	0.3	25.4	4.1	104	<0.1	8.4	12.7	978	4.95	5.9	0.1	0.6	1.1	24	0.1	0.1	<0.1	67	0.48
987809	Rock	4.46	<0.1	13.0	14.1	279	0.3	2.7	5.3	867	3.31	3.2	<0.1	<0.5	0.2	34	1.1	0.2	<0.1	49	1.72
987810	Rock	10.77	<0.1	34.2	10.4	304	2.6	7.4	12.1	888	4.41	10.7	<0.1	0.8	0.7	31	0.8	0.3	<0.1	52	0.41
987811	Rock	8.99	0.3	26.1	6.4	83	0.1	7.8	12.1	877	4.39	5.4	<0.1	1.3	1.0	38	0.2	<0.1	<0.1	47	0.50
987812	Rock	6.54	0.2	28.4	5.3	80	<0.1	6.7	11.5	684	4.20	6.4	0.1	1.2	0.9	48	0.2	0.1	<0.1	47	0.46
987813	Rock	6.97	0.3	24.4	5.5	72	0.1	5.9	11.2	688	3.77	11.5	<0.1	0.8	0.9	68	0.3	0.2	<0.1	47	1.02
987814	Rock	6.97	0.3	22.0	5.8	86	<0.1	6.4	10.3	665	3.96	9.8	<0.1	1.0	0.9	39	<0.1	0.2	<0.1	53	0.44
987815	Rock	5.07	0.3	28.9	16.4	118	0.9	6.4	10.6	833	3.41	8.0	0.1	0.5	0.9	54	0.2	0.2	<0.1	45	0.92
987816	Rock	6.54	0.2	27.4	14.7	139	0.5	6.7	11.6	664	3.89	8.2	<0.1	0.5	0.8	31	0.2	0.3	<0.1	56	0.44
987817	Rock	8.75	0.2	23.4	6.4	67	<0.1	6.4	9.0	605	3.91	6.2	0.2	<0.5	0.8	119	<0.1	0.2	<0.1	47	0.49
987818	Rock	8.78	4.7	14.7	9.4	40	<0.1	5.9	6.9	403	3.40	37.1	0.5	<0.5	0.6	32	0.4	0.5	<0.1	53	1.25
987819	Rock	10.18	0.2	32.6	7.1	107	1.2	5.8	9.8	708	3.90	11.8	0.2	<0.5	0.8	567	0.2	0.3	<0.1	43	0.69
987820	Rock	9.99	0.4	24.9	7.3	212	1.1	7.9	11.2	1356	6.69	6.3	0.2	<0.5	0.8	15	0.3	0.2	<0.1	125	0.61
987821	Rock	7.04	0.2	10.5	3.3	62	<0.1	10.1	7.6	768	3.25	11.2	0.3	<0.5	0.9	29	<0.1	0.2	<0.1	43	2.36
987822	Rock	6.87	0.4	80.4	10.2	221	0.2	6.6	7.6	563	3.25	10.4	0.1	<0.5	0.7	23	1.5	0.2	<0.1	31	0.55
987823	Rock	6.58	0.1	212.2	5.6	430	0.3	7.3	9.0	587	3.47	6.8	0.1	<0.5	0.8	36	3.4	<0.1	<0.1	33	0.72
987824	Rock	5.77	0.3	298.4	6.2	370	0.4	6.7	9.4	681	3.79	10.1	0.1	0.7	0.8	39	2.6	0.1	<0.1	37	0.57
987825	Rock	6.99	0.2	257.2	8.4	332	0.4	6.0	8.9	584	3.18	30.5	0.2	<0.5	0.8	39	2.0	0.2	<0.1	35	1.10
987826	Rock	7.68	0.3	258.1	6.8	276	0.4	5.7	7.7	1083	3.05	17.1	0.1	<0.5	0.8	31	2.0	0.2	<0.1	35	2.07
987827	Rock	8.24	0.2	23.6	6.8	138	0.7	9.5	8.9	749	3.64	7.5	0.1	<0.5	0.9	16	0.4	0.2	<0.1	38	0.21
987828	Rock	3.78	0.1	13.6	10.5	99	<0.1	1.3	2.2	1680	1.12	2.2	<0.1	<0.5	0.2	64	0.7	<0.1	<0.1	13	8.21



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
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 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 Canada

Project: SIVI  
 Report Date: July 04, 2013

Page: 2 of 2

Part: 2 of 1

# CERTIFICATE OF ANALYSIS

SMI13000051.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	P	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	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.1	0.05	1	0.5	0.2	
987806	Rock	0.042	5	6	0.12	1197	0.001	6	0.84	0.043	0.07	<0.1	0.05	10.8	<0.1	0.09	3	<0.5	<0.2
987807	Rock	0.045	5	4	0.28	910	0.002	8	0.54	0.030	0.03	<0.1	0.10	13.3	<0.1	0.09	2	0.6	<0.2
987808	Rock	0.073	9	13	1.19	61	0.011	7	1.67	0.049	0.17	<0.1	<0.01	9.2	<0.1	0.29	9	0.9	<0.2
987809	Rock	0.011	2	2	0.37	37	<0.001	11	0.61	0.006	0.03	<0.1	0.07	13.8	<0.1	0.10	2	1.2	<0.2
987810	Rock	0.022	4	7	0.16	124	<0.001	9	0.75	0.020	0.16	<0.1	0.10	11.0	<0.1	<0.05	2	0.7	<0.2
987811	Rock	0.046	9	6	0.12	158	<0.001	9	0.90	0.024	0.19	0.1	<0.01	11.8	<0.1	<0.05	3	<0.5	<0.2
987812	Rock	0.046	10	6	0.26	263	<0.001	7	1.54	0.038	0.25	<0.1	0.01	11.3	<0.1	<0.05	5	<0.5	<0.2
987813	Rock	0.051	10	7	0.53	531	0.001	5	1.54	0.055	0.19	<0.1	0.02	10.0	<0.1	0.15	5	<0.5	<0.2
987814	Rock	0.045	9	9	0.69	136	0.006	8	1.77	0.048	0.21	<0.1	<0.01	8.6	<0.1	<0.05	7	<0.5	<0.2
987815	Rock	0.044	9	6	0.48	296	0.001	9	1.54	0.040	0.19	<0.1	0.01	9.8	<0.1	0.06	6	<0.5	<0.2
987816	Rock	0.039	8	8	0.69	175	0.003	10	1.68	0.061	0.18	<0.1	<0.01	9.3	<0.1	0.08	8	<0.5	<0.2
987817	Rock	0.041	11	7	0.99	189	0.008	6	2.72	0.147	0.23	<0.1	<0.01	9.8	0.1	0.05	7	<0.5	<0.2
987818	Rock	0.039	8	15	0.30	89	0.164	<1	1.76	0.394	0.10	0.1	0.02	9.7	0.6	1.38	4	<0.5	<0.2
987819	Rock	0.050	14	7	0.90	676	0.001	5	2.63	0.215	0.22	<0.1	0.07	9.3	<0.1	<0.05	8	<0.5	<0.2
987820	Rock	0.052	9	18	0.40	39	0.243	5	1.02	0.038	0.15	<0.1	0.06	10.7	<0.1	<0.05	4	<0.5	<0.2
987821	Rock	0.039	13	10	0.52	93	0.082	8	1.28	0.051	0.32	0.1	<0.01	7.7	<0.1	<0.05	4	<0.5	<0.2
987822	Rock	0.039	10	7	0.12	363	0.002	5	0.57	0.044	0.13	<0.1	0.02	7.3	<0.1	0.15	2	0.7	<0.2
987823	Rock	0.037	11	5	0.10	669	0.001	8	0.77	0.035	0.18	<0.1	0.03	8.4	<0.1	0.08	2	<0.5	<0.2
987824	Rock	0.041	8	5	0.11	469	0.002	9	0.85	0.033	0.17	<0.1	0.06	8.7	<0.1	0.09	3	1.1	<0.2
987825	Rock	0.025	6	5	0.27	711	<0.001	7	0.68	0.036	0.13	<0.1	0.03	8.0	<0.1	0.15	2	<0.5	<0.2
987826	Rock	0.025	8	6	0.25	329	0.003	5	0.77	0.037	0.12	<0.1	0.08	7.3	<0.1	0.18	2	<0.5	<0.2
987827	Rock	0.026	6	11	0.10	65	0.004	9	0.76	0.025	0.23	<0.1	0.08	8.2	<0.1	<0.05	2	<0.5	<0.2
987828	Rock	0.004	10	2	0.15	277	0.001	6	0.43	0.009	0.10	<0.1	0.06	5.5	<0.1	<0.05	1	0.7	<0.2

## QUALITY CONTROL REPORT

SMI13000051.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
987824	Rock	5.77	0.3	298.4	6.2	370	0.4	6.7	9.4	681	3.79	10.1	0.1	0.7	0.8	39	2.6	0.1	<0.1	37	0.57
REP 987824	QC		0.2	299.0	6.1	370	0.4	7.5	9.4	684	3.80	9.6	0.1	<0.5	0.9	39	2.9	0.2	<0.1	38	0.57
987828	Rock	3.78	0.1	13.6	10.5	99	<0.1	1.3	2.2	1680	1.12	2.2	<0.1	<0.5	0.2	64	0.7	<0.1	<0.1	13	8.21
REP 987828	QC		0.1	13.1	10.3	98	<0.1	1.6	2.3	1663	1.11	1.8	<0.1	<0.5	0.2	65	0.5	<0.1	<0.1	13	8.13
Core Reject Duplicates																					
987825	Rock	6.99	0.2	257.2	8.4	332	0.4	6.0	8.9	584	3.18	30.5	0.2	<0.5	0.8	39	2.0	0.2	<0.1	35	1.10
DUP 987825	QC		0.2	259.2	8.6	335	0.4	5.9	8.7	580	3.13	30.4	0.2	<0.5	0.8	41	2.8	0.2	<0.1	36	1.14
Reference Materials																					
STD DS9	Standard		12.2	98.6	116.4	307	1.9	35.9	7.0	573	2.35	24.4	2.6	116.1	6.2	73	2.2	6.1	6.3	41	0.74
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1-SMI	Prep Blank		<0.1	2.3	2.8	46	<0.1	4.5	3.9	550	1.88	<0.5	1.3	2.0	4.5	64	<0.1	<0.1	<0.1	36	0.45
G1-SMI	Prep Blank		<0.1	22.7	2.5	46	<0.1	4.7	4.8	547	1.96	0.9	1.3	1.5	4.2	50	<0.1	<0.1	<0.1	39	0.47



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

Project: SIVI  
 Report Date: July 04, 2013

Page: 1 of 1

Part: 2 of 1

## QUALITY CONTROL REPORT

SMI13000051.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte		P	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		0.001	1	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	
Pulp Duplicates																				
987824	Rock	0.041	8	5	0.11	469	0.002	9	0.85	0.033	0.17	<0.1	0.06	8.7	<0.1	0.09	3	1.1	<0.2	
REP 987824	QC	0.040	8	6	0.12	472	<0.001	9	0.87	0.034	0.18	<0.1	0.05	8.9	<0.1	0.09	3	<0.5	<0.2	
987828	Rock	0.004	10	2	0.15	277	0.001	6	0.43	0.009	0.10	<0.1	0.06	5.5	<0.1	<0.05	1	0.7	<0.2	
REP 987828	QC	0.005	10	2	0.15	277	0.001	9	0.43	0.009	0.10	<0.1	0.06	5.5	<0.1	<0.05	1	<0.5	<0.2	
Core Reject Duplicates																				
987825	Rock	0.025	6	5	0.27	711	<0.001	7	0.68	0.036	0.13	<0.1	0.03	8.0	<0.1	0.15	2	<0.5	<0.2	
DUP 987825	QC	0.024	6	5	0.28	712	0.001	8	0.74	0.037	0.14	<0.1	0.02	7.5	<0.1	0.15	2	<0.5	<0.2	
Reference Materials																				
STD DS9	Standard	0.083	14	112	0.60	296	0.110	2	0.94	0.086	0.39	2.9	0.18	2.5	4.9	0.18	5	6.7	5.4	
STD DS9 Expected		0.0819	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	<0.001	<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	0.073	9	8	0.56	216	0.116	2	0.91	0.072	0.48	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2	
G1-SMI	Prep Blank	0.076	9	7	0.58	201	0.117	4	0.93	0.056	0.45	<0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2	



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Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

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

Submitted By: Ted Oliver  
Receiving Lab: Canada-Smithers  
Received: June 27, 2013  
Report Date: July 06, 2013  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

SMI13000055.1

### CLIENT JOB INFORMATION

Project: SIVI  
Shipment ID: 13R02  
P.O. Number: SIVI\_SSN13R02\_JUN27  
Number of Samples: 33

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure 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
1DX2	33	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: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC: ahldata



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.

# CERTIFICATE OF ANALYSIS

SMI13000055.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
987829	Rock	7.23	0.2	241.7	2.6	114	0.3	9.0	7.5	603	3.08	5.6	0.1	1.0	1.0	15	0.7	<0.1	0.2	31	0.56
987830	Rock	5.46	0.3	21.8	5.1	70	0.1	9.4	7.9	1485	3.54	8.4	0.2	0.8	1.0	47	<0.1	0.1	<0.1	34	2.65
987831	Rock	6.80	0.2	14.0	3.9	71	<0.1	8.7	8.0	551	3.30	9.1	0.2	<0.5	1.2	15	<0.1	0.1	<0.1	37	0.35
987832	Rock	6.57	0.3	27.9	6.3	94	0.1	11.3	10.1	1036	3.71	9.8	0.2	0.6	0.8	24	0.3	0.1	<0.1	49	1.58
987833	Rock	7.20	0.3	12.4	4.3	56	<0.1	6.6	6.4	653	2.72	9.0	0.2	<0.5	0.8	22	<0.1	0.1	<0.1	38	1.52
987834	Rock	5.48	0.2	14.6	5.6	66	<0.1	7.0	6.1	504	3.31	9.5	0.3	1.6	1.0	19	<0.1	0.2	<0.1	52	0.65
987835	Rock	5.57	0.2	21.2	8.4	78	<0.1	9.2	10.9	865	2.75	5.5	0.2	<0.5	0.6	30	0.1	<0.1	<0.1	89	1.69
987836	Rock	6.34	0.3	54.5	3.8	66	0.1	10.4	7.9	871	3.22	11.3	0.2	<0.5	0.9	19	0.3	0.1	<0.1	34	0.24
987837	Rock	6.94	0.2	32.5	4.1	66	<0.1	11.7	9.2	626	3.34	12.2	0.2	<0.5	1.0	18	0.3	0.1	<0.1	31	0.21
987838	Rock	7.97	0.2	18.8	3.6	72	<0.1	9.4	8.3	571	3.73	9.7	0.2	<0.5	1.2	19	<0.1	0.1	<0.1	41	0.27
987839	Rock	7.59	0.2	20.5	3.4	71	<0.1	10.6	9.8	663	3.94	9.6	0.2	0.7	1.2	24	<0.1	0.1	<0.1	48	0.33
987840	Rock	5.24	0.2	17.7	3.3	87	<0.1	11.2	11.5	899	4.54	10.7	0.1	<0.5	1.0	25	<0.1	<0.1	<0.1	60	0.43
987841	Rock	6.92	0.3	12.5	2.5	78	<0.1	9.3	8.8	1301	3.91	7.1	0.2	<0.5	1.0	24	<0.1	<0.1	<0.1	55	0.35
987842	Rock	6.65	0.2	10.1	8.5	84	<0.1	7.0	7.1	593	3.36	10.8	0.2	<0.5	1.0	29	0.2	0.1	<0.1	40	0.92
987843	Rock	5.44	0.2	36.8	3.5	57	0.1	10.7	7.4	492	3.00	12.4	0.2	<0.5	0.9	16	0.1	0.1	0.1	27	0.25
987844	Rock	5.76	0.1	19.5	8.3	70	<0.1	7.1	10.7	716	2.97	7.0	0.1	<0.5	0.4	190	0.7	<0.1	<0.1	31	0.69
987845	Rock	4.11	0.2	11.8	4.5	84	<0.1	13.6	8.0	838	3.24	6.7	0.2	<0.5	0.7	32	<0.1	<0.1	<0.1	30	1.44
987846	Rock	4.64	0.5	13.1	17.2	138	<0.1	8.8	7.5	805	3.08	5.8	0.1	0.7	0.7	23	0.4	<0.1	<0.1	25	1.42
987847	Rock	6.26	0.3	56.6	34.7	245	2.4	5.6	7.3	736	2.96	21.1	<0.1	<0.5	0.6	22	1.2	0.1	<0.1	24	1.20
987848	Rock	6.21	0.7	11.9	13.5	104	0.1	4.4	5.7	714	2.69	13.0	0.1	<0.5	0.8	22	0.4	0.2	<0.1	26	1.11
987849	Rock	6.02	0.7	11.6	7.2	104	<0.1	3.6	5.2	654	2.76	10.6	0.1	<0.5	0.6	18	0.3	0.1	<0.1	25	1.40
987700	Rock	5.62	<0.1	12.4	7.1	67	<0.1	3.8	6.3	654	2.55	6.2	<0.1	<0.5	0.4	31	<0.1	<0.1	<0.1	12	0.89
987701	Rock	5.81	<0.1	13.9	7.2	72	<0.1	5.0	6.5	556	2.26	11.4	<0.1	<0.5	0.4	80	<0.1	<0.1	<0.1	20	0.91
987702	Rock	4.23	0.3	15.5	4.4	88	<0.1	4.0	9.3	2677	3.57	11.5	0.2	<0.5	0.5	46	0.2	0.2	<0.1	55	2.38
987703	Rock	7.19	0.5	13.5	12.0	106	<0.1	4.9	8.5	1308	3.39	11.2	0.2	<0.5	0.6	27	0.4	0.5	<0.1	55	0.55
987704	Rock	4.15	0.2	21.9	6.6	150	0.2	6.4	8.7	711	3.48	5.2	0.1	<0.5	0.7	66	0.8	0.1	<0.1	36	0.24
987706	Rock	5.53	<0.1	36.0	57.0	3595	3.9	10.2	14.6	1737	6.28	5.1	0.1	<0.5	0.3	87	16.8	0.3	<0.1	94	3.22
987708	Rock	6.02	0.2	66.5	32.8	1716	6.4	9.0	15.5	1213	5.30	12.8	0.1	<0.5	0.4	24	6.7	0.6	<0.1	84	0.05
987709	Rock	5.59	<0.1	22.8	20.5	150	<0.1	6.5	11.4	958	4.46	4.5	<0.1	<0.5	0.6	58	0.6	<0.1	<0.1	47	0.65
987712	Rock	5.71	0.3	33.1	37.7	241	0.2	8.2	14.4	1005	4.93	8.2	0.2	<0.5	1.1	60	1.0	0.1	<0.1	61	2.02



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

Project: SIVI  
 Report Date: July 06, 2013

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Part: 2 of 1

# CERTIFICATE OF ANALYSIS

SMI13000055.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	P	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	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.1	0.05	1	0.5	0.2	
987829	Rock	0.032	9	9	0.08	147	0.005	8	0.59	0.027	0.20	<0.1	0.10	5.8	<0.1	<0.05	2	<0.5	<0.2
987830	Rock	0.050	15	9	0.26	261	0.010	10	0.81	0.037	0.22	<0.1	0.05	7.9	<0.1	0.11	2	<0.5	<0.2
987831	Rock	0.046	14	9	0.19	78	0.025	7	0.70	0.026	0.19	<0.1	0.02	5.9	<0.1	<0.05	2	<0.5	<0.2
987832	Rock	0.037	11	12	0.17	193	0.050	10	0.77	0.039	0.21	<0.1	0.10	7.4	<0.1	<0.05	3	<0.5	<0.2
987833	Rock	0.037	16	8	0.17	130	0.024	10	0.74	0.027	0.23	<0.1	<0.01	6.1	<0.1	<0.05	2	<0.5	<0.2
987834	Rock	0.029	16	8	0.20	122	0.042	10	0.87	0.032	0.30	<0.1	0.05	6.4	<0.1	<0.05	2	<0.5	<0.2
987835	Rock	0.027	13	8	0.34	193	0.015	7	1.14	0.059	0.24	<0.1	<0.01	7.2	<0.1	<0.05	3	0.7	<0.2
987836	Rock	0.039	12	13	0.28	92	0.028	10	1.08	0.046	0.26	<0.1	<0.01	5.9	<0.1	<0.05	3	<0.5	<0.2
987837	Rock	0.027	8	13	0.33	94	0.022	6	1.15	0.039	0.23	<0.1	0.02	6.0	<0.1	<0.05	3	<0.5	<0.2
987838	Rock	0.029	11	13	0.36	98	0.046	6	1.30	0.036	0.26	<0.1	<0.01	6.3	<0.1	<0.05	3	<0.5	<0.2
987839	Rock	0.036	16	12	0.38	96	0.054	8	1.31	0.041	0.28	<0.1	<0.01	6.9	<0.1	<0.05	3	<0.5	<0.2
987840	Rock	0.035	13	15	0.37	99	0.079	9	1.29	0.054	0.26	<0.1	<0.01	7.6	<0.1	<0.05	4	<0.5	<0.2
987841	Rock	0.043	17	15	0.33	92	0.081	6	1.12	0.045	0.21	<0.1	0.02	7.7	<0.1	<0.05	4	<0.5	<0.2
987842	Rock	0.025	14	8	0.13	225	0.019	11	0.75	0.018	0.23	<0.1	<0.01	7.2	<0.1	<0.05	2	<0.5	<0.2
987843	Rock	0.038	12	11	0.19	98	0.015	8	0.86	0.038	0.26	<0.1	0.03	5.2	0.1	<0.05	2	<0.5	<0.2
987844	Rock	0.033	11	6	0.80	496	0.007	3	2.21	0.232	0.19	<0.1	<0.01	7.7	<0.1	<0.05	5	<0.5	<0.2
987845	Rock	0.044	13	6	0.19	409	0.006	11	0.84	0.030	0.24	<0.1	0.01	7.3	<0.1	<0.05	3	<0.5	<0.2
987846	Rock	0.040	11	4	0.11	127	0.001	11	0.79	0.019	0.20	<0.1	0.23	7.4	<0.1	<0.05	2	<0.5	<0.2
987847	Rock	0.033	8	5	0.09	78	0.001	9	0.76	0.011	0.17	<0.1	0.39	7.7	<0.1	<0.05	2	<0.5	<0.2
987848	Rock	0.061	15	4	0.08	79	0.002	9	0.79	0.015	0.10	<0.1	0.10	8.5	<0.1	<0.05	2	<0.5	<0.2
987849	Rock	0.049	12	4	0.12	85	0.009	8	0.95	0.138	0.12	<0.1	0.02	7.0	<0.1	0.07	3	<0.5	<0.2
987700	Rock	0.026	13	3	0.30	298	<0.001	5	1.65	0.085	0.19	<0.1	0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
987701	Rock	0.027	10	5	0.56	569	0.002	4	1.99	0.220	0.18	<0.1	<0.01	5.1	<0.1	<0.05	4	<0.5	<0.2
987702	Rock	0.054	9	7	0.23	145	0.021	12	0.64	0.044	0.18	<0.1	0.02	8.7	<0.1	<0.05	3	<0.5	<0.2
987703	Rock	0.029	7	7	0.13	92	0.016	10	0.74	0.021	0.21	<0.1	0.15	10.3	<0.1	<0.05	3	<0.5	<0.2
987704	Rock	0.020	5	8	0.12	1267	<0.001	8	1.08	0.022	0.18	<0.1	<0.01	8.4	<0.1	0.05	3	<0.5	<0.2
987706	Rock	0.005	1	7	0.35	127	0.001	7	0.68	0.007	0.08	<0.1	0.48	15.3	<0.1	<0.05	2	<0.5	<0.2
987708	Rock	0.006	<1	10	0.07	90	0.001	10	0.81	0.003	0.11	<0.1	0.62	14.9	<0.1	<0.05	3	<0.5	<0.2
987709	Rock	0.016	4	6	0.26	211	0.001	9	0.77	0.028	0.17	<0.1	0.01	9.3	<0.1	0.08	3	<0.5	<0.2
987712	Rock	0.050	7	7	0.55	230	0.002	10	0.89	0.022	0.12	<0.1	<0.01	11.1	<0.1	0.27	2	<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.





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Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

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

Project: SIVI  
Report Date: July 06, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000055.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
987717	Rock	5.57	0.5	24.1	5.7	71	<0.1	5.6	9.5	884	3.76	5.1	0.2	<0.5	1.0	155	0.2	<0.1	<0.1	37	0.91
987719	Rock	6.32	0.5	19.3	29.6	185	0.1	5.6	8.6	756	4.10	12.6	0.1	<0.5	0.2	72	0.9	0.5	<0.1	45	1.04
987723	Rock	6.58	0.6	16.8	5.7	85	<0.1	6.0	8.5	936	3.95	21.2	0.2	<0.5	0.7	22	0.2	0.4	<0.1	64	0.82



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

Project: SIVI  
 Report Date: July 06, 2013

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Part: 2 of 1

# CERTIFICATE OF ANALYSIS

SMI13000055.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	P	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	0.001	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	
987717	Rock	0.069	9	5	0.35	584	0.002	8	1.17	0.063	0.18	<0.1	<0.01	8.1	<0.1	0.13	3	<0.5	<0.2
987719	Rock	0.012	4	6	0.28	93	0.001	10	0.77	0.028	0.10	<0.1	0.14	10.2	<0.1	0.34	2	<0.5	<0.2
987723	Rock	0.046	11	10	0.44	80	0.002	3	1.00	0.043	0.06	<0.1	0.05	10.6	0.1	0.15	6	<0.5	<0.2

## QUALITY CONTROL REPORT

SMI13000055.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
987835	Rock	5.57	0.2	21.2	8.4	78	<0.1	9.2	10.9	865	2.75	5.5	0.2	<0.5	0.6	30	0.1	<0.1	<0.1	89	1.69
REP 987835	QC		0.2	21.8	8.4	77	<0.1	8.7	10.7	852	2.68	5.6	0.2	<0.5	0.6	30	0.1	0.1	<0.1	87	1.67
987700	Rock	5.62	<0.1	12.4	7.1	67	<0.1	3.8	6.3	654	2.55	6.2	<0.1	<0.5	0.4	31	<0.1	<0.1	<0.1	12	0.89
REP 987700	QC		0.1	12.0	7.3	69	<0.1	4.3	6.0	652	2.52	5.8	<0.1	<0.5	0.4	32	<0.1	<0.1	<0.1	12	0.90
Core Reject Duplicates																					
987843	Rock	5.44	0.2	36.8	3.5	57	0.1	10.7	7.4	492	3.00	12.4	0.2	<0.5	0.9	16	0.1	0.1	0.1	27	0.25
DUP 987843	QC		0.2	35.7	3.8	58	<0.1	10.4	7.6	493	3.06	11.5	0.2	<0.5	1.0	17	<0.1	0.1	<0.1	27	0.27
Reference Materials																					
STD DS9	Standard		13.1	110.4	135.0	307	1.9	38.9	7.4	588	2.38	24.6	2.9	115.2	6.4	75	2.4	5.8	6.1	41	0.71
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
BLK	Blank		<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1-SMI	Prep Blank		0.1	2.7	2.9	46	<0.1	3.9	4.0	545	1.85	<0.5	1.4	3.7	4.2	56	<0.1	<0.1	0.4	37	0.44
G1-SMI	Prep Blank		0.1	2.0	2.7	47	<0.1	3.3	4.1	548	1.84	<0.5	1.3	0.6	4.7	63	<0.1	<0.1	0.2	36	0.52

## QUALITY CONTROL REPORT

SMI13000055.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	P	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	0.001	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																			
987835	Rock	0.027	13	8	0.34	193	0.015	7	1.14	0.059	0.24	<0.1	<0.01	7.2	<0.1	<0.05	3	0.7	<0.2
REP 987835	QC	0.024	13	8	0.33	191	0.017	7	1.11	0.058	0.23	<0.1	0.01	7.0	<0.1	<0.05	3	1.0	<0.2
987700	Rock	0.026	13	3	0.30	298	<0.001	5	1.65	0.085	0.19	<0.1	0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
REP 987700	QC	0.026	13	3	0.30	305	<0.001	4	1.60	0.084	0.18	<0.1	<0.01	4.9	<0.1	<0.05	4	<0.5	<0.2
Core Reject Duplicates																			
987843	Rock	0.038	12	11	0.19	98	0.015	8	0.86	0.038	0.26	<0.1	0.03	5.2	0.1	<0.05	2	<0.5	<0.2
DUP 987843	QC	0.037	12	12	0.19	93	0.015	11	0.93	0.043	0.30	<0.1	0.03	5.4	<0.1	<0.05	3	<0.5	<0.2
Reference Materials																			
STD DS9	Standard	0.078	14	120	0.61	293	0.109	2	0.95	0.084	0.40	2.9	0.20	2.1	5.3	0.17	4	5.7	4.9
STD DS9 Expected		0.0819	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	<0.001	<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	0.073	9	7	0.56	215	0.117	2	0.96	0.091	0.49	<0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	0.073	10	9	0.59	216	0.118	2	0.95	0.089	0.49	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2



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Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

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

Submitted By: Ted Oliver
Receiving Lab: Canada-Smithers
Received: June 27, 2013
Report Date: July 05, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI13000056.1

CLIENT JOB INFORMATION

Project: SIVI
Shipment ID: 13S01
P.O. Number: SIVI\_SSN13S01\_Jun2713
Number of Samples: 16

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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: Amarc Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Procedure Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include procedures like 'Dry at 60C', 'SS80', and '1DX2'.

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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Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

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

Project: SIVI  
Report Date: July 05, 2013

Page: 2 of 2

Part: 1 of 1

# CERTIFICATE OF ANALYSIS

SMI13000056.1

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	U	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	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
987705	Soil	1.1	93.6	27.9	398	3.8	8.6	16.8	2280	3.79	11.7	0.4	2.2	0.2	39	3.5	0.6	0.2	66	0.54	0.075
987707	Soil	1.3	128.0	54.2	1714	17.1	12.0	17.4	2725	6.64	33.0	0.3	<0.5	0.4	22	6.3	0.8	0.1	123	0.26	0.075
987710	Soil	0.2	32.8	4.3	86	3.0	6.5	5.2	538	3.47	3.8	0.4	<0.5	0.5	49	0.9	0.1	<0.1	39	0.85	0.062
987711	Soil	0.7	33.2	10.5	143	1.7	12.0	7.4	573	3.22	8.5	0.5	2.5	0.9	57	0.6	0.3	0.1	57	0.81	0.096
987713	Soil	1.5	63.2	19.5	186	0.6	24.5	22.3	1922	4.62	18.6	0.6	<0.5	0.7	76	1.0	0.6	0.2	77	1.07	0.117
987714	Soil	0.7	24.7	9.3	88	0.1	18.2	13.3	940	3.27	11.9	0.3	<0.5	1.2	76	0.4	0.7	0.1	59	1.11	0.091
987715	Soil	0.8	26.6	8.4	77	<0.1	19.0	12.9	833	3.36	9.6	0.4	0.9	1.1	80	<0.1	0.5	<0.1	60	1.60	0.091
987716	Soil	0.6	18.2	3.6	122	0.3	5.3	8.6	132	3.95	4.7	0.1	<0.5	0.6	29	0.8	0.2	<0.1	40	0.13	0.053
987718	Soil	0.5	12.9	6.5	246	0.5	11.0	7.8	273	3.89	7.2	0.2	<0.5	0.9	20	0.6	0.3	<0.1	60	0.13	0.099
987720	Soil	1.6	91.1	10.1	273	1.3	11.6	7.8	457	3.03	8.4	0.4	3.1	0.5	37	0.7	0.5	0.1	65	0.37	0.047
987721	Soil	0.6	28.9	8.3	87	0.1	14.4	12.9	885	3.57	10.2	0.4	<0.5	1.4	104	0.2	0.6	0.1	71	1.58	0.111
987722	Soil	0.7	15.6	7.6	84	<0.1	12.9	8.4	493	3.17	10.1	0.3	<0.5	0.4	27	0.2	0.5	<0.1	68	0.22	0.042
987724	Soil	0.6	12.0	8.2	57	<0.1	16.7	10.1	592	3.17	7.1	0.3	1.8	0.7	45	<0.1	0.4	0.1	67	0.48	0.034
987725	Soil	1.0	27.1	9.6	93	<0.1	22.6	14.6	912	3.63	12.5	0.4	2.2	1.3	97	0.4	0.6	0.1	69	1.69	0.100
987726	Soil	1.0	14.9	8.0	84	0.1	14.0	11.3	532	2.73	7.5	0.5	2.7	0.7	39	<0.1	0.4	<0.1	57	0.29	0.095
987727	Soil	0.8	27.0	9.3	91	0.1	21.2	13.3	906	3.67	13.0	0.4	<0.5	1.3	101	0.3	0.6	0.1	68	1.76	0.108



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

Project: SIVI  
 Report Date: July 05, 2013

Page: 2 of 2

Part: 2 of 1

# CERTIFICATE OF ANALYSIS

SMI13000056.1

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
		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	0.01	0.05	1	0.5
987705	Soil	9	12	0.26	340	0.019	7	1.40	0.008	0.07	<0.1	0.34	7.1	0.1	<0.05	5	1.9	<0.2
987707	Soil	5	14	0.18	289	0.013	12	1.44	0.005	0.11	<0.1	1.31	17.2	<0.1	0.05	5	2.6	<0.2
987710	Soil	16	7	0.20	370	0.002	12	1.67	0.010	0.07	<0.1	0.34	10.9	<0.1	<0.05	4	1.2	<0.2
987711	Soil	18	13	0.46	274	0.066	9	1.77	0.018	0.05	<0.1	0.20	9.1	<0.1	<0.05	5	1.7	<0.2
987713	Soil	13	21	0.78	355	0.041	7	2.68	0.026	0.12	<0.1	0.12	9.2	0.1	<0.05	7	1.9	<0.2
987714	Soil	11	17	0.56	162	0.073	6	1.53	0.034	0.07	0.1	0.08	7.7	0.1	<0.05	4	<0.5	<0.2
987715	Soil	10	17	0.68	159	0.072	7	1.53	0.040	0.09	<0.1	0.07	6.4	<0.1	0.10	5	<0.5	<0.2
987716	Soil	3	6	0.14	216	<0.001	10	3.12	0.009	0.07	<0.1	0.03	6.6	<0.1	<0.05	6	<0.5	<0.2
987718	Soil	4	13	0.23	196	0.010	3	2.69	0.011	0.16	0.1	0.05	5.7	<0.1	<0.05	6	1.0	<0.2
987720	Soil	6	15	0.47	130	0.061	8	1.57	0.012	0.06	<0.1	0.10	3.7	<0.1	<0.05	6	<0.5	<0.2
987721	Soil	12	16	0.82	174	0.062	9	1.75	0.044	0.10	<0.1	0.07	6.6	<0.1	0.07	6	1.8	<0.2
987722	Soil	6	15	0.37	140	0.052	2	1.78	0.009	0.05	<0.1	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
987724	Soil	6	16	0.55	196	0.062	2	1.88	0.023	0.06	<0.1	0.05	4.8	<0.1	0.05	5	0.6	<0.2
987725	Soil	11	18	0.71	193	0.083	8	1.60	0.061	0.10	<0.1	0.06	6.9	<0.1	0.05	5	<0.5	<0.2
987726	Soil	9	16	0.47	144	0.052	<1	2.38	0.014	0.04	<0.1	0.06	4.4	<0.1	<0.05	6	1.1	<0.2
987727	Soil	11	19	0.78	195	0.084	6	1.61	0.073	0.10	<0.1	0.05	7.4	<0.1	0.07	6	1.1	<0.2



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

Project: SIVI  
 Report Date: July 05, 2013

Page: 1 of 1

Part: 1 of 1

# QUALITY CONTROL REPORT

SMI13000056.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
987727	Soil	0.8	27.0	9.3	91	0.1	21.2	13.3	906	3.67	13.0	0.4	<0.5	1.3	101	0.3	0.6	0.1	68	1.76	0.108
REP 987727	QC	0.9	25.7	8.9	88	<0.1	20.9	13.0	883	3.60	11.7	0.4	0.8	1.2	97	0.2	0.6	<0.1	66	1.70	0.097
Reference Materials																					
STD DS11	Standard	13.4	154.4	134.0	328	1.8	78.8	13.2	1001	2.90	39.5	2.4	83.8	7.0	61	2.2	8.4	11.4	49	0.99	0.069
STD DS9	Standard	14.2	102.1	122.6	301	1.7	38.0	7.2	576	2.26	22.7	2.5	115.9	6.1	68	2.2	5.7	6.6	43	0.70	0.077
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	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	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



## QUALITY CONTROL REPORT

SMI13000056.1

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	
Pulp Duplicates																		
987727	Soil	11	19	0.78	195	0.084	6	1.61	0.073	0.10	<0.1	0.05	7.4	<0.1	0.07	6	1.1	<0.2
REP 987727	QC	11	17	0.74	187	0.082	8	1.56	0.070	0.09	<0.1	0.08	7.5	<0.1	0.12	5	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	16	57	0.82	343	0.083	14	1.06	0.065	0.36	2.8	0.32	2.6	4.6	0.24	4	2.6	5.1
STD DS9	Standard	13	115	0.59	288	0.103	6	0.90	0.077	0.36	3.0	0.20	2.4	5.0	0.14	5	8.3	4.6
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	0.02	<0.1	<0.1	<0.05	<1	0.9	<0.2



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Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

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

Submitted By: Ted Oliver  
Receiving Lab: Canada-Smithers  
Received: July 02, 2013  
Report Date: July 15, 2013  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

SMI13000064.1

### CLIENT JOB INFORMATION

Project: SIVI  
Shipment ID: 13R03  
P.O. Number: SIVI\_SSN13R02\_JUL0213  
Number of Samples: 48

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	48	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	48	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: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC: ahldata



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

Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Project: SIVI  
 Report Date: July 15, 2013

Page: 2 of 3

Part: 1 of 1

# CERTIFICATE OF ANALYSIS

## SMI13000064.1

Method	Analyte	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Unit	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
987650	Rock	5.11	0.2	39.0	20.5	608	3.9	7.2	12.2	1024	5.20	6.2	0.1	1.2	0.6	32	1.7	0.1	0.1	63	0.14
987651	Rock	6.72	0.2	45.9	14.5	269	2.0	6.8	11.2	966	4.71	12.9	0.1	2.0	0.7	67	1.0	0.3	0.1	54	1.12
987652	Rock	6.09	0.3	151.5	25.0	902	12.1	6.1	11.6	891	4.29	36.0	0.1	<0.5	0.1	23	4.7	0.8	<0.1	57	0.07
987653	Rock	5.65	0.2	67.8	17.2	378	4.1	6.0	12.0	1034	4.48	16.4	0.1	<0.5	0.4	67	1.1	0.3	<0.1	58	1.05
987654	Rock	6.37	0.1	22.6	13.3	126	0.4	4.6	9.4	845	3.85	6.6	0.2	<0.5	0.5	100	0.5	0.2	<0.1	40	1.50
987655	Rock	5.90	0.1	18.8	11.5	156	0.2	4.7	8.8	772	3.85	4.8	0.2	<0.5	0.6	105	0.4	<0.1	<0.1	40	1.71
987656	Rock	6.53	0.3	22.7	11.3	123	0.2	5.7	9.5	831	4.35	6.2	0.2	<0.5	0.7	64	0.3	0.1	<0.1	38	0.84
987657	Rock	4.65	0.2	20.3	10.1	158	0.3	5.7	8.9	798	4.39	6.8	0.1	<0.5	0.7	66	0.3	0.1	<0.1	40	0.73
987658	Rock	6.21	0.2	15.4	16.0	165	<0.1	3.0	7.3	584	2.41	6.9	0.1	<0.5	0.5	67	0.8	0.5	<0.1	36	2.86
987659	Rock	5.21	1.4	29.3	17.0	93	<0.1	2.8	7.0	644	2.58	18.5	1.5	<0.5	0.6	216	0.6	0.4	<0.1	32	4.12
987660	Rock	6.38	0.2	21.3	13.6	87	<0.1	2.7	7.0	599	2.62	6.5	0.2	<0.5	0.6	63	0.4	0.6	<0.1	29	2.25
987661	Rock	5.11	0.2	2.9	22.9	563	<0.1	2.9	5.2	771	2.21	7.4	<0.1	<0.5	0.4	30	3.1	2.8	<0.1	25	0.80
987662	Rock	5.53	0.4	2.0	22.1	540	<0.1	2.5	4.8	630	2.35	9.2	0.1	<0.5	0.4	21	3.2	3.3	<0.1	26	0.49
987663	Rock	5.26	0.5	4.5	20.5	599	<0.1	3.7	5.6	808	2.61	8.9	0.1	0.8	0.5	27	3.9	3.2	<0.1	31	0.86
987664	Rock	2.75	0.9	7.0	33.5	1464	<0.1	7.3	11.4	1800	3.71	10.2	0.2	<0.5	0.6	37	6.9	2.5	<0.1	55	0.68
987665	Rock	4.38	0.5	3.1	15.6	523	<0.1	2.7	4.2	775	1.92	8.1	<0.1	<0.5	0.3	26	2.3	1.0	<0.1	19	0.76
987666	Rock	4.81	0.4	4.4	16.4	540	<0.1	2.2	5.0	534	2.84	13.0	0.1	<0.5	0.4	37	2.4	6.0	<0.1	30	0.75
987667	Rock	4.03	0.8	18.1	14.5	174	<0.1	6.2	10.5	1065	5.51	24.8	0.7	1.0	0.9	42	0.8	0.5	<0.1	75	1.09
987668	Rock	2.21	0.3	24.0	4.5	98	<0.1	7.8	11.3	869	4.48	5.6	0.1	<0.5	1.0	86	0.4	<0.1	<0.1	51	1.27
987669	Rock	3.54	<0.1	28.2	16.7	161	0.1	7.5	14.6	1085	5.18	4.3	<0.1	<0.5	1.1	37	0.5	<0.1	<0.1	74	1.25
987670	Rock	5.34	0.2	30.3	6.7	97	<0.1	7.0	14.1	912	4.46	6.2	0.1	1.8	1.5	77	0.2	<0.1	<0.1	43	0.57
987671	Rock	3.68	0.1	42.4	20.9	674	4.6	6.2	9.5	903	4.37	9.7	<0.1	<0.5	0.2	30	2.9	0.3	<0.1	52	0.91
987672	Rock	3.29	0.1	17.2	6.6	95	<0.1	5.7	8.1	824	3.70	10.6	<0.1	<0.5	0.7	52	0.3	<0.1	<0.1	41	2.81
987673	Rock	5.41	0.3	23.0	6.1	78	<0.1	6.2	9.8	834	4.01	7.3	0.2	0.6	0.9	68	<0.1	0.1	<0.1	34	0.67
987674	Rock	5.61	0.2	22.2	11.8	161	0.3	6.3	9.5	767	4.20	3.3	<0.1	2.1	0.9	20	0.3	<0.1	0.2	55	0.86
987675	Rock	7.31	0.2	30.2	6.9	84	<0.1	5.8	10.7	841	4.53	5.8	0.1	3.1	1.1	17	0.3	<0.1	<0.1	54	0.67
987676	Rock	5.06	0.4	31.0	6.1	84	<0.1	6.9	11.4	1450	4.30	7.7	0.1	1.2	1.1	32	0.3	0.2	<0.1	56	0.72
987677	Rock	6.71	0.3	26.2	5.2	101	<0.1	7.8	12.2	860	4.70	7.7	0.1	0.9	1.1	30	0.3	0.1	<0.1	65	0.46
987678	Rock	4.92	0.2	26.2	5.0	87	<0.1	7.3	11.3	801	4.44	5.8	0.2	<0.5	1.2	29	0.2	0.1	<0.1	57	0.37
987679	Rock	5.61	0.2	28.7	6.3	93	<0.1	7.8	12.2	837	4.49	6.7	0.2	<0.5	1.0	24	0.3	0.2	<0.1	58	0.34

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.

# CERTIFICATE OF ANALYSIS

SMI13000064.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	P	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	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.1	0.05	1	0.5	0.2	
987650	Rock	0.038	3	10	0.07	1220	<0.001	12	0.81	0.004	0.14	<0.1	0.99	13.7	<0.1	<0.05	3	<0.5	<0.2
987651	Rock	0.023	3	7	0.49	523	0.002	13	0.79	0.022	0.15	<0.1	0.33	12.1	<0.1	0.17	3	<0.5	<0.2
987652	Rock	0.006	<1	7	0.04	254	<0.001	7	0.58	0.002	0.06	<0.1	0.86	13.1	<0.1	0.05	1	0.6	<0.2
987653	Rock	0.013	3	7	0.30	404	<0.001	12	0.72	0.024	0.13	<0.1	0.25	12.7	<0.1	0.14	2	<0.5	<0.2
987654	Rock	0.017	4	6	0.28	510	0.001	13	0.64	0.027	0.14	<0.1	0.04	10.7	<0.1	0.19	2	0.7	<0.2
987655	Rock	0.014	3	6	0.44	387	<0.001	19	0.67	0.034	0.18	<0.1	0.02	9.8	<0.1	0.22	3	<0.5	<0.2
987656	Rock	0.016	4	6	0.23	372	<0.001	16	0.84	0.023	0.18	<0.1	0.02	9.9	<0.1	0.15	3	<0.5	<0.2
987657	Rock	0.016	4	7	0.21	432	<0.001	11	0.69	0.027	0.15	<0.1	0.01	10.3	<0.1	0.16	2	0.9	<0.2
987658	Rock	0.005	5	3	0.32	326	0.005	12	0.61	0.008	0.16	<0.1	0.04	9.4	<0.1	<0.05	1	<0.5	<0.2
987659	Rock	0.690	39	4	0.46	803	0.012	25	1.37	0.026	0.36	0.3	0.11	9.5	<0.1	<0.05	4	<0.5	<0.2
987660	Rock	0.004	7	3	0.27	187	0.007	11	0.68	0.013	0.21	<0.1	0.07	8.9	<0.1	<0.05	2	<0.5	<0.2
987661	Rock	0.006	4	2	0.08	202	0.007	6	0.42	0.005	0.07	<0.1	0.13	7.6	<0.1	<0.05	1	<0.5	<0.2
987662	Rock	0.002	4	2	0.06	153	0.006	9	0.47	0.003	0.11	<0.1	0.21	7.0	<0.1	<0.05	1	<0.5	<0.2
987663	Rock	0.011	5	3	0.12	172	0.007	7	0.52	0.006	0.12	<0.1	0.11	9.0	<0.1	<0.05	1	<0.5	<0.2
987664	Rock	0.016	4	5	0.18	325	0.017	8	0.71	0.011	0.11	<0.1	0.17	9.3	<0.1	<0.05	2	<0.5	<0.2
987665	Rock	0.005	3	2	0.07	146	0.003	7	0.44	0.006	0.07	<0.1	0.28	6.5	<0.1	<0.05	1	<0.5	<0.2
987666	Rock	0.003	4	3	0.09	591	0.009	13	0.53	0.004	0.15	<0.1	0.02	11.1	<0.1	<0.05	2	<0.5	<0.2
987667	Rock	0.160	14	10	0.39	97	0.002	8	0.70	0.036	0.06	0.4	0.28	13.4	<0.1	0.22	3	0.6	<0.2
987668	Rock	0.065	10	8	0.23	332	0.004	12	0.83	0.034	0.18	<0.1	0.01	9.0	<0.1	0.15	3	<0.5	<0.2
987669	Rock	0.050	5	8	0.18	298	0.003	10	0.85	0.024	0.13	<0.1	0.03	15.1	<0.1	0.09	2	<0.5	<0.2
987670	Rock	0.057	7	5	0.17	284	0.002	10	1.02	0.020	0.18	<0.1	0.02	11.1	<0.1	<0.05	3	<0.5	<0.2
987671	Rock	0.006	1	6	0.39	48	0.001	8	0.58	0.006	0.09	<0.1	0.38	11.5	<0.1	0.23	2	<0.5	<0.2
987672	Rock	0.023	6	4	0.24	447	0.002	9	0.56	0.026	0.14	<0.1	0.29	8.4	<0.1	0.12	2	<0.5	<0.2
987673	Rock	0.044	11	6	0.63	581	0.002	5	1.79	0.036	0.18	<0.1	0.19	9.0	<0.1	0.09	5	<0.5	<0.2
987674	Rock	0.038	6	7	0.27	38	0.003	7	0.60	0.034	0.11	<0.1	0.08	11.2	0.1	0.09	2	<0.5	<0.2
987675	Rock	0.049	9	7	0.19	54	0.006	8	0.65	0.045	0.17	<0.1	0.04	9.9	<0.1	0.11	3	<0.5	<0.2
987676	Rock	0.087	15	8	0.55	150	0.016	7	1.45	0.043	0.20	0.2	<0.01	9.3	<0.1	<0.05	6	<0.5	<0.2
987677	Rock	0.059	11	11	0.87	168	0.028	6	1.81	0.047	0.19	<0.1	<0.01	9.6	<0.1	<0.05	8	<0.5	<0.2
987678	Rock	0.050	10	11	0.97	115	0.023	5	2.00	0.125	0.23	<0.1	<0.01	7.7	<0.1	<0.05	8	<0.5	<0.2
987679	Rock	0.052	10	11	1.00	189	0.021	4	1.87	0.051	0.21	<0.1	<0.01	8.3	<0.1	<0.05	8	<0.5	<0.2



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

Project: SIVI  
 Report Date: July 15, 2013

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Part: 1 of 1

# CERTIFICATE OF ANALYSIS

SMI13000064.1

Method	Analyte	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
987680	Rock	7.46	0.1	13.1	3.4	44	<0.1	2.2	4.2	395	1.85	6.3	0.5	<0.5	0.7	62	<0.1	0.1	<0.1	27	1.15
987681	Rock	6.69	0.6	19.6	4.8	51	<0.1	2.8	5.8	439	2.11	7.9	0.5	1.0	0.7	65	0.1	0.2	<0.1	34	1.04
987682	Rock	6.59	0.6	25.1	7.1	69	<0.1	6.1	9.9	781	4.06	8.3	0.7	<0.5	1.0	203	0.1	0.2	<0.1	59	0.79
987683	Rock	4.24	0.2	24.8	6.3	73	<0.1	6.0	10.6	643	4.06	6.2	0.8	<0.5	1.1	272	<0.1	0.2	0.1	52	0.81
987684	Rock	5.62	0.1	24.4	8.0	68	<0.1	6.1	11.1	593	3.71	6.3	0.9	<0.5	1.0	115	<0.1	0.1	<0.1	45	0.85
987685	Rock	7.60	0.2	21.9	6.0	65	<0.1	6.8	9.8	625	3.99	5.6	0.7	3.6	0.9	61	<0.1	0.2	<0.1	45	0.80
987686	Rock	4.18	0.1	22.4	8.3	192	1.4	6.6	10.3	689	3.89	9.9	0.1	1.6	0.7	64	0.5	<0.1	<0.1	39	2.19
987687	Rock	3.33	0.2	29.5	3.7	52	<0.1	11.2	19.4	1625	3.35	7.2	0.1	2.6	0.7	174	<0.1	0.1	<0.1	54	8.24
987688	Rock	4.45	0.2	21.0	7.4	76	<0.1	6.0	8.8	599	3.59	10.1	0.1	3.4	0.9	56	0.1	0.2	<0.1	28	0.87
987689	Rock	4.38	0.2	14.2	9.1	190	0.3	4.7	7.1	817	3.20	10.1	0.1	0.9	0.5	80	0.5	0.3	<0.1	34	2.09
987750	Rock	5.94	0.2	42.6	25.2	422	2.4	6.7	12.4	1066	4.09	26.5	0.2	2.6	0.3	53	2.2	1.5	<0.1	81	2.06
987751	Rock	5.69	0.3	42.9	33.7	480	2.1	5.3	10.4	903	4.05	18.6	0.4	1.5	0.2	30	2.6	1.6	<0.1	74	1.04
987752	Rock	7.14	0.2	199.6	64.2	946	20.2	6.8	14.5	1206	4.35	52.7	0.6	<0.5	0.3	51	13.1	6.3	<0.1	92	5.14
987753	Rock	5.17	0.6	101.4	55.7	710	12.0	6.5	11.3	1038	4.53	56.0	0.6	2.8	0.4	36	4.8	3.9	<0.1	73	1.37
987754	Rock	3.84	0.4	18.6	20.7	373	1.3	3.4	4.9	1120	3.28	14.6	0.2	3.4	0.5	65	1.9	0.5	<0.1	34	4.87
987755	Rock	5.76	1.1	24.2	17.9	295	0.4	8.9	9.6	835	4.25	38.0	0.3	<0.5	0.4	39	2.4	0.6	<0.1	71	1.07
987756	Rock	6.69	0.2	23.7	34.7	337	1.3	2.8	6.3	557	2.19	17.3	0.1	1.4	0.4	40	1.7	0.5	<0.1	34	2.77
987757	Rock	2.40	0.6	18.7	68.1	352	0.3	6.4	9.4	1330	4.83	26.4	0.2	3.5	0.5	60	2.3	1.1	<0.1	60	0.94

# CERTIFICATE OF ANALYSIS

SMI13000064.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	P	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	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.1	0.05	1	0.5	0.2	
987680	Rock	0.040	8	4	0.39	43	0.162	2	2.66	0.503	0.20	0.2	<0.01	6.5	<0.1	<0.05	5	<0.5	<0.2
987681	Rock	0.041	7	5	0.42	79	0.165	1	2.58	0.319	0.19	0.1	<0.01	7.6	<0.1	0.11	5	<0.5	<0.2
987682	Rock	0.048	11	9	0.86	158	0.278	4	2.40	0.113	0.17	<0.1	<0.01	10.1	0.1	0.11	7	<0.5	<0.2
987683	Rock	0.054	11	8	0.93	200	0.300	6	2.92	0.060	0.20	0.1	<0.01	10.4	0.1	<0.05	7	<0.5	<0.2
987684	Rock	0.034	14	7	0.82	111	0.294	6	2.85	0.062	0.22	<0.1	<0.01	10.7	<0.1	<0.05	7	<0.5	<0.2
987685	Rock	0.034	11	8	0.91	62	0.225	4	2.66	0.065	0.19	<0.1	<0.01	9.2	<0.1	<0.05	7	<0.5	<0.2
987686	Rock	0.018	5	7	0.50	381	0.001	15	0.73	0.053	0.16	<0.1	0.21	9.2	0.1	0.23	2	<0.5	<0.2
987687	Rock	0.040	6	16	0.66	329	<0.001	14	1.25	0.088	0.23	<0.1	0.01	9.4	0.1	0.21	3	<0.5	<0.2
987688	Rock	0.022	6	5	0.22	460	<0.001	15	0.73	0.036	0.15	<0.1	0.03	8.2	0.2	0.29	3	<0.5	<0.2
987689	Rock	0.018	7	6	0.66	309	0.002	8	0.57	0.035	0.13	<0.1	0.04	7.5	0.1	0.23	2	<0.5	<0.2
987750	Rock	0.012	2	9	0.52	43	0.002	4	0.49	0.036	0.06	<0.1	0.21	11.2	0.1	0.27	2	<0.5	<0.2
987751	Rock	0.005	1	7	0.19	110	0.002	7	0.76	0.004	0.04	<0.1	0.12	13.6	<0.1	0.15	2	<0.5	<0.2
987752	Rock	0.004	1	10	0.17	47	0.002	5	0.69	0.009	0.02	<0.1	0.54	14.0	0.1	0.09	2	<0.5	<0.2
987753	Rock	0.010	3	8	0.29	50	0.002	7	0.69	0.006	0.04	<0.1	0.15	14.0	0.1	0.31	2	<0.5	<0.2
987754	Rock	0.018	6	4	0.38	69	0.004	6	0.68	0.013	0.06	<0.1	0.30	10.4	<0.1	0.09	2	<0.5	<0.2
987755	Rock	0.032	5	11	0.34	129	0.003	5	0.64	0.043	0.04	<0.1	0.14	14.6	0.2	0.34	2	<0.5	<0.2
987756	Rock	0.015	6	3	0.35	28	0.001	8	0.59	0.014	0.02	<0.1	0.05	7.8	<0.1	0.15	1	<0.5	<0.2
987757	Rock	0.050	7	10	0.39	46	0.002	8	0.81	0.033	0.06	<0.1	0.14	12.8	0.1	0.17	3	<0.5	<0.2

## QUALITY CONTROL REPORT

SMI13000064.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
987658	Rock	6.21	0.2	15.4	16.0	165	<0.1	3.0	7.3	584	2.41	6.9	0.1	<0.5	0.5	67	0.8	0.5	<0.1	36	2.86
REP 987658	QC		0.2	14.1	15.2	163	<0.1	2.6	7.4	550	2.24	6.4	0.1	<0.5	0.4	65	0.6	0.5	<0.1	35	2.66
987665	Rock	4.38	0.5	3.1	15.6	523	<0.1	2.7	4.2	775	1.92	8.1	<0.1	<0.5	0.3	26	2.3	1.0	<0.1	19	0.76
REP 987665	QC		0.3	3.4	16.8	529	<0.1	2.8	4.5	792	1.94	9.0	<0.1	<0.5	0.3	28	2.5	1.0	<0.1	19	0.78
987757	Rock	2.40	0.6	18.7	68.1	352	0.3	6.4	9.4	1330	4.83	26.4	0.2	3.5	0.5	60	2.3	1.1	<0.1	60	0.94
REP 987757	QC		0.6	20.0	70.0	342	0.4	6.3	9.4	1329	4.81	25.1	0.2	<0.5	0.4	58	2.3	1.0	<0.1	61	0.94
Core Reject Duplicates																					
987655	Rock	5.90	0.1	18.8	11.5	156	0.2	4.7	8.8	772	3.85	4.8	0.2	<0.5	0.6	105	0.4	<0.1	<0.1	40	1.71
DUP 987655	QC		<0.1	19.5	11.6	156	0.2	4.9	9.0	808	4.01	4.6	0.2	<0.5	0.6	106	0.4	<0.1	<0.1	41	1.75
987689	Rock	4.38	0.2	14.2	9.1	190	0.3	4.7	7.1	817	3.20	10.1	0.1	0.9	0.5	80	0.5	0.3	<0.1	34	2.09
DUP 987689	QC		0.2	15.2	9.3	185	0.3	4.2	7.5	814	3.23	11.0	0.2	2.0	0.6	81	0.5	0.3	<0.1	33	2.09
Reference Materials																					
STD DS9	Standard		13.6	105.7	133.0	319	1.7	39.2	7.5	573	2.31	26.6	2.9	101.8	7.2	77	2.4	6.1	5.8	39	0.72
STD DS9	Standard		13.2	102.9	125.6	315	1.9	39.1	7.1	579	2.37	25.6	2.7	118.7	6.2	71	2.3	5.9	6.3	40	0.72
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1-SMI	Prep Blank		<0.1	3.2	2.4	46	<0.1	3.9	3.9	556	1.93	<0.5	1.2	1.7	4.7	56	<0.1	<0.1	0.2	37	0.42
G1-SMI	Prep Blank		<0.1	2.1	2.9	45	<0.1	3.5	3.9	556	1.85	<0.5	1.4	<0.5	4.5	66	<0.1	<0.1	0.1	35	0.68



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

Project: SIVI  
 Report Date: July 15, 2013

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Part: 2 of 1

# QUALITY CONTROL REPORT

SMI13000064.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	P	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	0.001	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																			
987658	Rock	0.005	5	3	0.32	326	0.005	12	0.61	0.008	0.16	<0.1	0.04	9.4	<0.1	<0.05	1	<0.5	<0.2
REP 987658	QC	0.005	5	3	0.30	316	0.004	14	0.55	0.008	0.16	<0.1	0.05	9.0	<0.1	<0.05	1	<0.5	<0.2
987665	Rock	0.005	3	2	0.07	146	0.003	7	0.44	0.006	0.07	<0.1	0.28	6.5	<0.1	<0.05	1	<0.5	<0.2
REP 987665	QC	0.005	3	2	0.08	149	0.003	5	0.45	0.006	0.07	<0.1	0.27	6.6	<0.1	<0.05	1	<0.5	<0.2
987757	Rock	0.050	7	10	0.39	46	0.002	8	0.81	0.033	0.06	<0.1	0.14	12.8	0.1	0.17	3	<0.5	<0.2
REP 987757	QC	0.048	6	9	0.39	45	0.003	6	0.82	0.033	0.06	<0.1	0.14	12.6	0.1	0.17	2	<0.5	<0.2
Core Reject Duplicates																			
987655	Rock	0.014	3	6	0.44	387	<0.001	19	0.67	0.034	0.18	<0.1	0.02	9.8	<0.1	0.22	3	<0.5	<0.2
DUP 987655	QC	0.014	3	6	0.46	387	0.001	14	0.61	0.032	0.16	<0.1	0.03	10.1	<0.1	0.23	2	<0.5	<0.2
987689	Rock	0.018	7	6	0.66	309	0.002	8	0.57	0.035	0.13	<0.1	0.04	7.5	0.1	0.23	2	<0.5	<0.2
DUP 987689	QC	0.017	7	7	0.66	329	0.002	9	0.62	0.034	0.14	<0.1	0.03	7.2	0.1	0.23	2	<0.5	<0.2
Reference Materials																			
STD DS9	Standard	0.085	15	124	0.61	286	0.111	3	0.96	0.092	0.41	3.0	0.20	2.3	5.3	0.16	4	5.6	5.6
STD DS9	Standard	0.085	13	115	0.60	296	0.108	3	0.94	0.087	0.41	2.9	0.21	2.3	5.0	0.18	5	4.6	4.4
STD DS9 Expected		0.0819	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	<0.001	<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	<0.001	<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	0.069	10	7	0.55	225	0.115	2	0.96	0.098	0.51	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	0.072	9	6	0.65	214	0.109	2	1.01	0.116	0.51	<0.1	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2





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Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

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

Submitted By: Ted Oliver  
Receiving Lab: Canada-Smithers  
Received: July 02, 2013  
Report Date: July 08, 2013  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

SMI13000065.1

### CLIENT JOB INFORMATION

Project: SIVI  
Shipment ID: 13S02  
P.O. Number: SIVI\_SSN13S01\_Jul0213  
Number of Samples: 38

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
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: Amarc Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC: ahldata

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	38	Dry at 60C			SMI
SS80	38	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	38	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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Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

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

Project: SIVI  
Report Date: July 08, 2013

Page: 2 of 3

Part: 1 of 1

# CERTIFICATE OF ANALYSIS

SMI13000065.1

Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P		
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001		
987690	Soil	0.8	8.2	9.4	80	0.1	6.8	4.3	314	2.37	4.2	0.2	0.6	0.3	50	0.8	0.4	0.6	60	0.39	0.062		
987691	Soil	0.7	24.8	8.4	82	0.1	19.7	12.0	750	3.58	10.4	0.4	0.8	1.3	93	0.2	0.5	0.2	57	1.47	0.089		
987692	Soil	0.7	24.8	9.1	83	0.1	18.8	11.7	883	3.65	10.3	0.4	<0.5	1.3	88	0.2	0.6	0.2	58	1.49	0.110		
987693	Soil	0.7	12.4	9.4	154	0.1	11.4	8.8	467	3.50	11.1	0.4	0.5	0.9	26	0.2	0.4	0.2	58	0.35	0.068		
987694	Soil	0.8	14.1	9.5	154	0.3	17.8	8.7	297	3.97	14.3	0.4	0.9	1.1	26	0.2	0.4	0.1	62	0.15	0.114		
987695	Soil	0.7	26.6	8.4	85	0.2	17.3	12.4	887	3.84	11.1	0.4	<0.5	1.4	108	0.2	0.5	<0.1	67	1.83	0.109		
987728	Soil	0.6	56.1	16.2	280	3.3	12.9	12.8	1511	3.99	12.1	0.4	<0.5	0.5	43	1.3	0.5	<0.1	60	0.56	0.055		
987729	Soil	0.7	59.8	17.1	313	3.4	13.7	13.6	1625	4.06	12.7	0.4	2.0	0.6	49	1.9	0.5	<0.1	62	0.68	0.057		
987730	Soil	0.7	50.3	11.7	141	1.0	14.9	11.6	953	4.35	10.0	0.5	<0.5	1.3	50	0.2	0.5	<0.1	56	0.51	0.041		
987731	Soil	0.7	54.8	14.7	199	2.7	13.4	13.0	1170	4.10	10.1	0.6	1.5	0.8	53	0.5	0.4	<0.1	57	0.60	0.045		
987732	Soil	0.5	26.6	9.8	115	0.1	17.5	12.8	936	3.51	12.0	0.4	<0.5	1.1	75	0.5	0.6	<0.1	54	1.35	0.081		
987733	Soil	0.9	28.5	9.6	94	0.1	21.8	14.1	888	3.89	12.0	0.3	0.8	1.4	79	0.2	0.7	<0.1	58	0.89	0.082		
987734	Soil	0.7	21.1	14.1	313	<0.1	14.4	12.1	1017	3.71	10.3	0.5	0.8	1.3	56	1.3	0.6	<0.1	57	0.51	0.065		
987735	Soil	0.6	10.8	8.8	230	0.1	11.4	6.1	345	3.69	10.7	0.3	<0.5	0.6	20	1.6	0.6	<0.1	56	0.17	0.144		
987736	Soil	0.7	34.2	18.7	240	0.6	15.6	12.0	4203	3.69	15.3	0.4	<0.5	1.2	150	1.0	0.6	<0.1	71	1.87	0.292		
987737	Soil	1.1	17.4	10.7	170	0.6	14.2	9.4	536	4.10	11.8	0.4	0.6	0.9	24	0.4	0.6	0.6	65	0.15	0.150		
987738	Soil	0.6	35.7	21.7	602	11.2	16.6	10.6	536	5.26	11.8	0.4	1.6	0.9	16	1.5	0.5	0.2	64	0.14	0.120		
987739	Soil	0.9	12.5	7.9	90	0.6	11.6	7.5	432	3.43	9.3	0.3	1.9	0.7	27	0.4	0.4	0.1	57	0.18	0.117		
987740	Soil	0.8	15.0	8.1	160	1.2	11.9	7.7	388	4.14	10.4	0.3	<0.5	1.0	19	0.6	0.4	<0.1	56	0.11	0.072		
987741	Soil	0.7	16.2	7.3	81	0.5	14.5	9.6	355	3.33	10.5	0.3	<0.5	0.8	29	0.4	0.6	<0.1	54	0.16	0.075		
987742	Soil	0.6	16.4	8.4	73	0.5	12.8	8.4	283	3.49	10.3	0.4	<0.5	0.8	23	0.3	0.5	<0.1	52	0.16	0.061		
987743	Soil	0.6	105.7	25.1	270	7.7	12.8	10.5	871	5.20	18.5	0.7	1.6	1.7	52	0.5	0.4	0.1	48	0.72	0.070		
987744	Soil	0.3	14.9	5.1	94	0.3	6.5	7.5	372	4.38	6.0	0.5	<0.5	0.7	22	0.2	0.1	<0.1	53	0.18	0.109		
987745	Soil	1.1	94.9	6.0	148	1.1	5.5	7.0	380	4.96	44.7	0.9	1.2	1.1	178	0.3	0.2	0.6	51	0.33	0.248		
987746	Soil	0.9	13.4	7.4	91	0.4	12.4	8.6	278	3.65	10.0	0.3	1.4	0.8	23	0.2	0.4	<0.1	56	0.12	0.045		
987747	Soil	0.4	21.1	8.4	91	0.2	10.6	12.5	1097	3.89	9.1	0.3	2.2	1.2	91	0.2	0.4	<0.1	47	0.84	0.073		
987748	Soil	0.8	17.2	18.4	280	0.4	11.3	9.6	285	4.87	10.7	0.3	<0.5	0.9	13	0.5	0.4	<0.1	61	0.08	0.067		
987749	Soil	1.2	30.4	5.6	89	0.5	17.7	22.4	2101	5.95	8.9	0.3	0.9	1.1	73	0.3	0.3	<0.1	84	0.72	0.069		
987758	Soil	1.1	18.4	13.3	122	0.6	12.9	12.1	861	4.48	18.9	0.5	<0.5	1.3	32	0.4	0.6	<0.1	70	0.27	0.306		
987759	Soil	1.0	23.4	13.5	97	0.3	14.2	14.5	1284	4.05	15.6	0.5	2.1	1.5	58	0.4	0.7	<0.1	65	0.44	0.151		



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

Project: SIVI  
 Report Date: July 08, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000065.1

Method Analyte Unit MDL	1DX15	1DX15	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	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
987690	Soil	4	13	0.17	133	0.101	3	0.73	0.008	0.05	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
987691	Soil	10	17	0.72	162	0.085	6	1.51	0.066	0.08	<0.1	0.05	6.7	<0.1	0.15	4	<0.5	<0.2
987692	Soil	11	16	0.67	155	0.098	4	1.50	0.057	0.07	<0.1	0.07	6.5	<0.1	0.14	5	<0.5	<0.2
987693	Soil	9	14	0.37	141	0.058	1	2.12	0.010	0.03	<0.1	0.07	3.9	<0.1	<0.05	6	<0.5	<0.2
987694	Soil	5	18	0.46	149	0.066	3	3.16	0.011	0.03	<0.1	0.09	5.5	<0.1	<0.05	6	<0.5	<0.2
987695	Soil	12	16	0.84	188	0.099	6	1.82	0.044	0.10	<0.1	0.05	7.1	<0.1	0.17	5	<0.5	<0.2
987728	Soil	12	13	0.38	382	0.031	3	1.73	0.010	0.06	<0.1	0.37	10.4	0.1	0.06	5	<0.5	<0.2
987729	Soil	12	13	0.41	344	0.035	3	1.63	0.013	0.06	<0.1	0.40	11.7	0.1	<0.05	4	0.8	<0.2
987730	Soil	14	16	0.53	243	0.047	4	1.89	0.015	0.07	<0.1	0.19	14.5	<0.1	<0.05	5	<0.5	<0.2
987731	Soil	15	14	0.46	278	0.040	4	1.80	0.015	0.07	0.1	0.33	13.7	<0.1	<0.05	4	0.6	<0.2
987732	Soil	11	14	0.59	317	0.056	5	1.52	0.028	0.10	<0.1	0.07	8.4	<0.1	<0.05	4	<0.5	<0.2
987733	Soil	11	19	0.72	224	0.065	4	1.81	0.036	0.11	<0.1	0.06	7.6	<0.1	<0.05	5	<0.5	<0.2
987734	Soil	14	15	0.50	474	0.088	3	1.58	0.020	0.06	<0.1	0.08	9.4	<0.1	<0.05	4	<0.5	<0.2
987735	Soil	5	13	0.35	242	0.050	2	1.80	0.007	0.04	<0.1	0.04	3.7	<0.1	<0.05	6	<0.5	<0.2
987736	Soil	11	16	0.54	445	0.080	15	2.56	0.060	0.45	<0.1	0.05	7.5	0.1	<0.05	6	<0.5	<0.2
987737	Soil	6	15	0.42	151	0.066	3	2.65	0.009	0.04	<0.1	0.08	5.1	0.1	<0.05	6	0.7	<0.2
987738	Soil	4	17	0.39	209	0.019	1	3.69	0.005	0.05	<0.1	0.30	7.8	<0.1	<0.05	9	<0.5	<0.2
987739	Soil	6	13	0.33	133	0.057	2	1.94	0.007	0.04	<0.1	0.07	3.5	<0.1	<0.05	5	0.6	<0.2
987740	Soil	5	13	0.35	123	0.048	3	2.40	0.009	0.03	<0.1	0.20	6.1	<0.1	<0.05	5	<0.5	<0.2
987741	Soil	6	14	0.39	167	0.080	2	2.31	0.010	0.06	<0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
987742	Soil	6	13	0.38	140	0.062	3	2.59	0.008	0.04	<0.1	0.07	4.6	<0.1	<0.05	5	0.5	<0.2
987743	Soil	19	13	0.36	294	0.010	4	2.14	0.012	0.07	0.1	0.41	12.3	<0.1	<0.05	4	0.6	<0.2
987744	Soil	4	8	0.66	85	0.107	2	4.05	0.009	0.07	<0.1	0.04	6.9	<0.1	<0.05	10	<0.5	<0.2
987745	Soil	8	9	0.35	239	0.136	3	4.78	0.009	0.08	0.3	0.09	7.7	0.2	<0.05	9	0.7	<0.2
987746	Soil	5	13	0.30	157	0.053	2	2.36	0.009	0.04	<0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
987747	Soil	12	12	0.32	298	0.044	6	1.16	0.027	0.07	<0.1	0.06	9.5	0.1	<0.05	3	<0.5	<0.2
987748	Soil	4	13	0.26	107	0.041	2	2.53	0.007	0.04	0.1	0.06	5.4	<0.1	<0.05	5	<0.5	<0.2
987749	Soil	10	29	0.39	320	0.006	9	1.67	0.023	0.09	<0.1	0.12	18.5	0.1	<0.05	5	<0.5	<0.2
987758	Soil	7	16	0.40	154	0.059	2	3.08	0.010	0.06	0.1	0.08	5.3	<0.1	<0.05	7	0.5	<0.2
987759	Soil	13	15	0.43	170	0.084	2	2.11	0.018	0.06	<0.1	0.08	7.2	0.1	<0.05	5	<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.



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

Project: SIVI  
 Report Date: July 08, 2013

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Part: 1 of 1

# CERTIFICATE OF ANALYSIS

SMI13000065.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
987760	Soil	0.7	21.7	9.6	83	0.2	18.0	13.4	1048	3.48	10.7	0.4	0.8	1.2	74	0.4	0.6	<0.1	56	0.69	0.097
987761	Soil	1.0	15.6	12.3	124	0.3	13.3	9.7	798	4.04	15.2	0.4	<0.5	1.2	25	0.6	0.6	<0.1	65	0.17	0.181
987762	Soil	0.9	17.0	19.9	194	7.1	11.2	9.8	894	3.84	15.1	0.4	2.0	1.2	22	0.6	0.6	<0.1	62	0.16	0.248
987763	Soil	1.0	21.2	22.7	186	2.7	13.1	10.1	669	4.24	21.2	0.4	0.9	1.2	21	0.6	0.7	<0.1	66	0.13	0.205
987764	Soil	1.0	13.2	16.1	197	0.9	12.2	9.0	860	4.73	16.8	0.4	1.4	1.1	26	1.2	0.5	<0.1	72	0.15	0.142
987765	Soil	0.8	25.0	18.2	97	0.2	22.2	16.5	1246	3.50	16.1	0.4	1.6	1.3	69	0.5	0.7	<0.1	56	1.02	0.091
993946	Soil	0.7	12.8	7.2	83	0.1	15.2	8.2	281	3.17	9.6	0.3	1.2	0.7	19	0.2	0.4	0.3	48	0.14	0.113
993947	Soil	0.6	15.2	9.1	130	0.8	12.8	7.0	293	3.72	8.0	0.3	85.7	0.7	20	0.4	0.5	0.2	61	0.22	0.111



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

Project: SIVI  
 Report Date: July 08, 2013

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Part: 2 of 1

# CERTIFICATE OF ANALYSIS

SMI13000065.1

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
		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
987760	Soil	12	14	0.50	139	0.092	3	1.48	0.029	0.07	<0.1	0.05	6.5	0.1	<0.05	4	<0.5	<0.2
987761	Soil	6	16	0.40	122	0.065	2	2.94	0.008	0.05	0.1	0.05	4.7	<0.1	<0.05	6	0.7	<0.2
987762	Soil	6	16	0.36	137	0.044	3	2.62	0.008	0.06	<0.1	0.09	4.8	0.1	<0.05	7	<0.5	<0.2
987763	Soil	6	16	0.37	150	0.039	3	2.82	0.008	0.04	<0.1	0.11	5.5	0.1	<0.05	8	0.6	<0.2
987764	Soil	5	15	0.42	129	0.060	2	2.97	0.010	0.05	0.1	0.10	5.5	0.1	<0.05	8	<0.5	<0.2
987765	Soil	11	16	0.53	154	0.080	2	1.61	0.031	0.08	<0.1	0.06	7.2	0.1	<0.05	5	<0.5	<0.2
993946	Soil	5	13	0.34	120	0.055	2	2.26	0.007	0.04	<0.1	0.05	3.3	<0.1	<0.05	4	<0.5	<0.2
993947	Soil	5	16	0.37	145	0.047	4	1.99	0.008	0.04	<0.1	0.14	4.8	<0.1	<0.05	5	<0.5	<0.2

## QUALITY CONTROL REPORT

SMI13000065.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
987736	Soil	0.7	34.2	18.7	240	0.6	15.6	12.0	4203	3.69	15.3	0.4	<0.5	1.2	150	1.0	0.6	<0.1	71	1.87	0.292
REP 987736	QC	0.8	34.4	18.4	231	0.6	16.2	12.1	4051	3.72	15.3	0.4	<0.5	1.1	153	1.1	0.7	<0.1	71	1.87	0.276
993947	Soil	0.6	15.2	9.1	130	0.8	12.8	7.0	293	3.72	8.0	0.3	85.7	0.7	20	0.4	0.5	0.2	61	0.22	0.111
REP 993947	QC	0.6	14.7	9.3	129	0.9	12.6	7.4	295	3.62	7.9	0.3	0.6	0.7	20	0.5	0.3	0.2	62	0.22	0.103
Reference Materials																					
STD DS11	Standard	13.3	134.6	129.3	322	1.8	74.3	12.6	946	3.06	38.3	2.4	113.0	7.4	61	1.8	7.8	9.3	46	0.94	0.062
STD DS11	Standard	12.7	138.7	131.9	301	1.8	76.9	12.8	954	3.08	38.7	2.3	73.6	7.5	58	1.8	7.7	9.7	47	0.89	0.060
STD DS9	Standard	12.1	92.7	118.9	286	1.7	37.0	6.8	518	2.26	22.5	2.6	106.4	6.4	68	2.1	5.0	5.1	36	0.64	0.070
STD DS9	Standard	12.8	98.2	122.9	298	1.7	37.2	6.7	528	2.24	23.0	2.6	110.1	6.2	65	2.2	5.3	5.2	38	0.62	0.073
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	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	0.03	<0.5	<0.1	<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	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

Project: SIVI  
 Report Date: July 08, 2013

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Part: 2 of 1

# QUALITY CONTROL REPORT

SMI13000065.1

Method	Analyte	1DX15	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	
Pulp Duplicates																		
987736	Soil	11	16	0.54	445	0.080	15	2.56	0.060	0.45	<0.1	0.05	7.5	0.1	<0.05	6	<0.5	<0.2
REP 987736	QC	11	16	0.52	442	0.079	15	2.43	0.064	0.46	<0.1	0.04	7.2	0.2	<0.05	6	<0.5	<0.2
993947	Soil	5	16	0.37	145	0.047	4	1.99	0.008	0.04	<0.1	0.14	4.8	<0.1	<0.05	5	<0.5	<0.2
REP 993947	QC	5	16	0.36	145	0.048	3	1.97	0.007	0.03	<0.1	0.19	4.6	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS11	Standard	18	55	0.79	345	0.085	6	1.06	0.056	0.34	2.6	0.25	3.0	4.4	0.26	5	1.4	4.9
STD DS11	Standard	17	56	0.76	353	0.086	7	1.04	0.052	0.36	3.0	0.26	2.7	4.4	0.24	5	2.1	4.3
STD DS9	Standard	14	107	0.56	274	0.103	2	0.88	0.071	0.36	2.7	0.19	2.3	5.0	0.13	4	5.4	4.9
STD DS9	Standard	13	108	0.60	273	0.106	2	0.91	0.078	0.36	2.7	0.20	2.2	4.9	0.11	4	4.9	4.5
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



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Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: Amarc Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Submitted By: ahldata
Receiving Lab: Canada-Smithers
Received: August 10, 2013
Report Date: August 29, 2013
Page: 1 of 6

CERTIFICATE OF ANALYSIS

SMI13000167.2

CLIENT JOB INFORMATION

Project: SIVI
Shipment ID: 13S02
P.O. Number: SIVI\_SSN13S02\_Aug0913
Number of Samples: 130

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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: Amarc Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Procedure Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include procedures like 'Dry at 60C', 'SS80', '1DX2', and '7TD1'.

ADDITIONAL COMMENTS

Version 2 : 7TD-Pb included.



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.



# CERTIFICATE OF ANALYSIS

SMI13000167.2

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
988300	Soil	1.0	18.6	27.3	90	0.2	9.8	5.4	536	3.05	26.4	0.4	0.6	<0.1	13	0.2	2.1	0.7	61	0.05	0.102
988301	Soil	1.3	27.3	68.9	189	0.2	6.2	12.1	1845	4.44	79.5	0.9	3.0	0.3	16	0.6	4.7	0.9	51	0.09	0.224
988302	Soil	1.4	37.1	64.8	188	0.2	6.5	7.8	645	4.95	111.6	0.6	4.6	0.6	8	0.6	3.0	1.1	52	0.03	0.138
988303	Soil	1.5	33.8	57.4	177	0.2	5.9	7.1	794	3.84	106.1	0.4	46.6	0.4	12	0.3	2.7	1.2	56	0.05	0.144
988304	Soil	1.5	35.8	69.3	190	0.3	5.9	8.1	570	5.26	120.9	0.5	6.6	0.7	7	0.5	3.6	1.4	48	0.02	0.184
988305	Soil	2.2	37.4	68.7	218	0.5	6.4	7.3	752	4.25	116.6	0.8	7.3	1.0	8	0.6	3.4	1.2	44	0.03	0.194
988306	Soil	1.4	26.8	51.3	210	0.4	6.1	5.7	619	3.22	67.7	1.5	4.2	1.0	38	0.5	2.2	1.0	44	0.34	0.182
988307	Soil	1.7	38.6	80.1	216	0.3	6.5	7.7	541	4.68	134.6	0.4	15.1	1.2	7	0.2	4.6	1.5	49	0.03	0.117
988308	Soil	1.6	38.4	85.1	208	0.3	5.4	6.5	509	3.97	127.3	0.5	9.4	1.2	7	0.2	4.0	1.3	42	0.02	0.108
988309	Soil	1.5	28.9	50.5	180	0.2	5.0	6.4	815	3.98	111.7	0.6	5.6	0.3	8	0.5	3.2	1.0	45	0.03	0.157
988310	Soil	1.7	11.5	32.5	198	0.4	2.8	2.8	443	2.32	110.1	1.7	6.3	0.3	17	0.7	5.1	0.8	29	0.18	0.158
988311	Soil	2.4	13.6	75.5	283	0.5	6.1	7.2	1610	3.24	29.0	3.2	1.6	0.9	15	1.1	1.9	1.5	30	0.12	0.190
988312	Soil	2.6	14.4	54.4	215	0.3	5.2	5.3	1162	3.79	47.7	2.1	43.8	0.3	10	1.1	3.2	1.2	34	0.06	0.151
988313	Soil	1.5	17.9	23.9	123	0.2	6.3	4.5	296	2.51	56.4	0.9	3.3	0.4	8	0.4	1.7	0.6	36	0.05	0.124
988314	Soil	2.3	35.0	50.1	178	0.1	6.3	7.1	506	4.41	106.8	0.8	6.9	0.6	7	0.5	3.4	1.0	44	0.03	0.157
988315	Soil	2.6	28.5	77.3	283	0.2	5.8	4.7	412	4.07	260.0	2.0	19.9	1.0	10	0.7	13.9	0.9	39	0.05	0.163
988316	Soil	0.9	8.9	19.6	81	0.2	2.3	2.9	575	1.44	38.2	0.9	7.4	0.3	10	0.2	3.1	0.4	22	0.04	0.114
988317	Soil	2.0	21.5	41.2	162	0.3	4.3	5.9	1101	3.08	106.3	1.0	14.3	0.1	10	0.7	6.0	1.0	41	0.03	0.166
988318	Soil	1.2	12.6	30.3	93	0.5	2.9	2.5	255	2.40	187.4	0.8	10.3	0.3	6	0.3	8.9	0.8	33	0.03	0.120
988319	Soil	1.2	19.6	30.3	115	0.3	3.2	3.7	292	2.33	126.0	0.6	5.0	0.6	7	0.3	3.9	0.7	32	0.02	0.142
988320	Soil	1.4	14.2	34.9	109	0.2	3.6	4.9	992	2.74	61.3	0.5	<0.5	<0.1	11	0.3	2.2	0.8	40	0.03	0.121
988321	Soil	1.6	30.4	62.7	195	0.3	8.0	9.0	862	3.47	125.2	0.9	14.5	0.8	10	0.5	3.7	0.7	41	0.06	0.161
988322	Soil	1.6	10.6	24.2	42	1.5	2.3	1.6	209	1.15	49.8	0.8	17.1	0.2	14	0.1	1.1	0.8	25	0.02	0.099
988323	Soil	3.1	39.2	136.2	173	4.0	5.6	5.4	830	3.98	102.7	3.0	10.5	0.4	9	1.3	2.9	1.0	29	0.03	0.255
988324	Soil	1.2	13.8	43.5	90	1.7	2.0	1.9	228	1.37	42.2	0.9	7.2	1.1	9	0.3	1.3	0.7	23	0.02	0.129
988325	Soil	0.8	7.8	18.5	64	0.4	1.7	1.5	192	1.01	36.9	0.8	10.9	<0.1	7	0.3	1.2	0.5	20	0.02	0.116
988326	Soil	0.9	8.0	14.8	76	0.6	2.0	2.0	541	1.06	28.8	1.2	0.6	0.1	8	0.4	1.2	0.5	20	0.02	0.135
988327	Soil	1.2	18.5	47.2	194	0.4	3.2	3.6	488	2.18	98.1	1.1	2.8	0.3	6	0.3	2.0	0.8	29	0.01	0.135
988328	Soil	1.0	9.1	16.5	59	0.4	1.5	1.5	259	0.90	15.4	1.0	2.2	0.8	9	0.3	0.5	0.3	15	0.02	0.141
988329	Soil	1.3	12.4	30.3	137	0.2	3.2	3.3	829	1.90	48.6	1.0	2.9	0.1	10	0.4	1.4	0.7	37	0.03	0.121



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 29, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000167.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7TD
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb
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	0.02	
988300	Soil	11	26	0.17	101	0.008	<1	1.21	0.008	0.05	0.1	0.04	0.4	0.1	<0.05	7	<0.5	<0.2	
988301	Soil	10	8	0.21	130	0.004	<1	1.45	0.007	0.08	0.1	0.06	1.0	0.1	0.05	6	<0.5	0.2	
988302	Soil	8	8	0.22	68	0.004	<1	1.65	0.006	0.05	<0.1	0.05	2.2	0.1	<0.05	6	<0.5	0.5	
988303	Soil	8	8	0.14	89	0.004	<1	1.37	0.008	0.06	<0.1	0.05	1.7	0.2	<0.05	6	<0.5	0.5	
988304	Soil	8	9	0.26	62	0.005	<1	1.81	0.007	0.06	<0.1	0.06	2.1	<0.1	<0.05	6	0.7	0.5	
988305	Soil	9	9	0.29	71	0.004	<1	1.80	0.011	0.06	0.1	0.08	2.9	0.1	<0.05	6	<0.5	0.4	
988306	Soil	10	9	0.35	131	0.002	1	2.04	0.010	0.08	<0.1	0.03	3.4	0.2	<0.05	6	<0.5	0.4	
988307	Soil	8	9	0.34	66	0.002	<1	2.07	0.008	0.06	<0.1	0.04	4.1	0.2	<0.05	5	<0.5	0.5	
988308	Soil	9	8	0.32	66	0.011	<1	1.93	0.008	0.07	<0.1	0.06	3.1	0.2	<0.05	5	0.8	0.4	
988309	Soil	9	8	0.18	55	0.005	<1	1.42	0.006	0.06	0.1	0.06	1.3	0.1	<0.05	7	<0.5	0.3	
988310	Soil	10	5	0.10	70	0.003	<1	1.13	0.007	0.06	0.1	0.03	0.5	0.3	0.06	5	<0.5	<0.2	
988311	Soil	13	6	0.06	94	0.003	<1	0.89	0.005	0.06	0.1	0.04	0.7	0.2	0.06	3	<0.5	<0.2	
988312	Soil	14	9	0.18	62	0.009	<1	1.84	0.008	0.05	0.3	0.08	0.4	0.2	0.06	13	0.5	0.4	
988313	Soil	11	11	0.30	48	0.003	<1	2.06	0.006	0.05	0.1	0.05	1.0	0.1	<0.05	7	<0.5	<0.2	
988314	Soil	12	11	0.35	46	0.005	<1	2.20	0.007	0.05	0.2	0.04	1.6	0.1	<0.05	10	0.7	0.2	
988315	Soil	10	9	0.22	60	0.003	<1	1.57	0.008	0.08	0.1	0.03	1.9	0.2	<0.05	5	<0.5	0.3	
988316	Soil	11	4	0.07	90	0.003	<1	0.74	0.005	0.07	<0.1	0.04	0.5	0.2	<0.05	4	<0.5	<0.2	
988317	Soil	11	6	0.08	108	0.005	<1	1.08	0.006	0.06	0.1	0.05	0.4	0.2	<0.05	7	0.6	<0.2	
988318	Soil	11	6	0.21	51	0.003	<1	1.32	0.005	0.06	0.1	0.04	0.8	0.2	<0.05	6	<0.5	<0.2	
988319	Soil	10	7	0.17	49	0.002	<1	1.59	0.006	0.06	<0.1	0.06	1.3	0.2	<0.05	5	<0.5	0.3	
988320	Soil	12	7	0.10	86	0.005	<1	1.21	0.007	0.06	<0.1	0.03	0.4	0.2	<0.05	8	<0.5	<0.2	
988321	Soil	9	10	0.29	59	0.004	<1	1.57	0.007	0.06	0.2	0.06	2.0	0.2	<0.05	5	<0.5	0.3	
988322	Soil	12	6	0.09	50	0.004	<1	1.16	0.006	0.05	0.1	0.07	0.3	0.2	<0.05	8	0.5	<0.2	
988323	Soil	12	9	0.16	70	0.006	<1	2.46	0.008	0.08	0.2	0.19	0.7	0.3	0.11	10	1.4	0.2	
988324	Soil	10	5	0.11	103	0.001	<1	1.63	0.009	0.09	<0.1	0.09	2.1	0.4	<0.05	6	<0.5	<0.2	
988325	Soil	11	4	0.08	56	<0.001	<1	1.04	0.005	0.06	<0.1	0.04	<0.1	0.2	<0.05	6	<0.5	<0.2	
988326	Soil	10	4	0.05	70	0.001	<1	1.04	0.005	0.06	<0.1	0.03	0.2	0.3	<0.05	4	<0.5	<0.2	
988327	Soil	9	4	0.06	61	0.001	<1	0.98	0.006	0.06	<0.1	0.04	0.4	0.3	<0.05	4	<0.5	0.3	
988328	Soil	11	4	0.05	51	0.002	<1	0.98	0.006	0.07	<0.1	0.03	0.8	0.2	<0.05	4	<0.5	<0.2	
988329	Soil	11	9	0.08	87	0.005	<1	1.00	0.007	0.06	<0.1	0.03	0.2	0.3	<0.05	6	<0.5	<0.2	

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

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# CERTIFICATE OF ANALYSIS

SMI13000167.2

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
988330	Soil		0.7	4.6	30.4	54	0.2	1.6	1.0	100	0.84	40.8	0.7	2.5	0.5	9	0.3	0.9	0.6	18	0.03	0.135
988331	Soil		1.2	7.0	68.4	107	0.8	1.9	1.5	154	1.27	140.8	1.3	8.0	0.4	8	0.5	1.4	0.6	23	0.04	0.133
988332	Soil		1.6	10.6	42.4	190	0.5	3.7	3.7	626	2.06	81.4	0.8	1.8	0.2	10	0.6	1.8	0.7	38	0.05	0.124
988333	Soil		1.0	8.4	39.2	81	1.0	3.9	2.2	161	1.38	107.7	0.7	5.1	<0.1	9	0.3	1.9	0.8	31	0.03	0.132
988334	Soil		1.6	21.4	76.5	221	0.5	6.3	4.5	333	3.46	110.6	0.9	25.5	0.5	8	0.6	2.6	1.3	47	0.02	0.180
988335	Soil		1.1	11.3	50.5	154	0.3	4.0	2.8	218	1.87	76.5	0.8	14.4	0.2	24	0.5	2.1	0.9	38	0.25	0.142
988336	Soil		0.7	5.5	21.5	66	0.1	1.6	1.9	381	0.90	10.9	0.4	27.6	0.1	16	0.5	1.0	0.7	16	0.10	0.123
988337	Soil		1.3	13.8	77.0	164	0.3	5.4	3.9	306	2.32	105.7	0.7	6.7	0.1	9	0.6	3.2	1.0	35	0.04	0.130
988338	Soil		1.5	10.6	83.3	352	0.9	7.3	4.6	452	2.82	72.5	0.9	8.2	0.7	25	1.1	1.7	0.6	34	0.25	0.123
988339	Soil		1.6	8.5	59.5	192	0.5	3.2	2.3	248	2.15	76.5	1.0	5.8	0.9	26	0.4	1.6	0.9	34	0.28	0.119
988340	Soil		3.0	11.1	69.6	124	0.5	4.4	3.2	213	1.95	80.0	0.8	10.0	0.6	9	0.3	2.3	0.7	35	0.03	0.112
988341	Soil		1.3	13.9	232.3	612	1.0	10.8	4.7	294	3.20	130.7	2.4	14.9	0.9	16	1.0	2.4	1.1	37	0.09	0.177
988342	Soil		1.1	18.7	128.1	670	1.0	11.1	5.4	451	3.31	357.3	2.2	11.2	1.3	34	2.5	4.8	1.0	37	0.24	0.170
988343	Soil		1.6	21.1	231.4	469	1.1	9.2	4.9	342	3.86	97.8	1.3	9.2	1.0	13	1.4	7.2	1.5	38	0.05	0.135
988344	Soil		1.5	22.2	159.9	804	0.8	12.9	7.2	605	3.88	73.9	7.4	9.2	1.1	53	1.2	4.6	1.0	38	0.45	0.156
988345	Soil		1.5	21.7	196.9	235	0.7	7.7	5.0	324	3.53	209.7	0.8	21.8	0.9	12	0.3	17.8	0.6	47	0.07	0.118
988346	Soil		1.6	18.8	386.3	474	0.3	7.0	5.1	692	4.08	186.5	1.2	7.5	0.5	11	0.6	4.8	0.5	41	0.06	0.134
988347	Soil		1.9	19.5	371.5	295	1.4	13.9	6.5	460	3.77	35.3	1.2	9.3	0.2	14	0.7	1.1	0.2	45	0.09	0.142
988348	Soil		1.6	28.7	66.1	116	0.2	10.1	7.4	548	5.23	42.2	0.8	7.3	0.3	10	1.3	2.2	0.4	50	0.05	0.220
988349	Soil		1.4	22.8	54.6	136	0.9	5.1	6.0	468	4.04	32.3	0.6	5.1	0.6	8	0.5	1.2	0.4	50	0.03	0.168
988350	Soil		1.0	15.7	18.2	79	0.6	9.5	5.7	639	2.66	13.3	0.5	2.9	0.2	10	0.5	0.7	0.2	50	0.02	0.125
988351	Soil		1.1	21.6	36.1	106	0.9	8.7	7.1	633	4.38	23.0	0.5	3.5	0.2	13	0.8	0.9	0.2	52	0.04	0.152
988352	Soil		1.5	18.7	44.1	108	0.4	4.8	5.3	589	3.66	28.5	0.5	5.8	0.2	9	0.4	1.2	0.3	48	0.03	0.141
988353	Soil		2.3	30.7	295.0	416	0.7	6.5	12.9	2981	6.07	80.2	0.8	6.9	0.3	19	1.1	2.2	0.6	55	0.09	0.210
988354	Soil		1.3	24.6	34.2	183	0.2	5.6	10.7	1325	4.64	33.0	0.5	2.2	0.4	29	0.9	0.9	0.3	54	0.27	0.230
988355	Soil		1.4	32.3	63.6	254	1.1	10.5	13.3	1085	4.94	36.8	1.4	11.8	1.0	35	0.8	1.3	0.2	52	0.37	0.132
988356	Soil		0.5	20.2	58.4	236	0.9	8.5	9.8	335	2.99	19.5	0.7	8.8	1.1	39	0.7	0.3	0.1	52	0.42	0.156
988357	Soil		2.2	8.9	14.5	63	0.1	4.9	3.1	148	2.30	19.5	1.3	2.3	0.6	12	0.1	0.5	0.1	40	0.05	0.103
988358	Soil		4.3	44.1	44.7	184	1.8	10.2	9.9	1194	3.87	32.0	12.0	12.6	2.6	63	0.6	1.2	0.2	53	0.51	0.230
988359	Soil		1.8	17.3	27.2	80	0.2	5.9	5.8	503	4.31	22.0	0.8	1.5	0.1	15	0.3	0.9	0.2	64	0.07	0.117

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7TD	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
988330	Soil	10	4	0.05	54	0.002	<1	1.06	0.007	0.07	<0.1	0.03	0.8	0.3	<0.05	5	<0.5	<0.2	
988331	Soil	10	4	0.06	59	0.001	<1	1.46	0.006	0.05	<0.1	0.06	0.6	0.3	<0.05	6	<0.5	<0.2	
988332	Soil	10	7	0.11	75	0.004	<1	1.28	0.006	0.07	<0.1	0.04	0.4	0.2	<0.05	7	<0.5	<0.2	
988333	Soil	9	11	0.11	80	0.002	<1	1.42	0.006	0.06	<0.1	0.08	0.3	0.2	<0.05	7	<0.5	<0.2	
988334	Soil	7	11	0.16	58	0.005	<1	1.89	0.006	0.06	<0.1	0.07	1.0	0.2	<0.05	6	<0.5	0.3	
988335	Soil	9	8	0.11	112	0.003	<1	1.21	0.006	0.07	<0.1	0.03	0.5	0.3	<0.05	6	<0.5	0.3	
988336	Soil	10	4	0.05	85	0.003	2	0.64	0.006	0.08	0.1	0.03	0.4	0.1	<0.05	4	<0.5	<0.2	
988337	Soil	8	8	0.12	69	0.002	1	1.32	0.007	0.08	<0.1	0.05	0.4	0.2	<0.05	6	<0.5	0.3	
988338	Soil	8	10	0.29	140	0.002	2	1.51	0.009	0.07	0.1	0.04	2.7	0.2	<0.05	5	<0.5	<0.2	
988339	Soil	9	7	0.14	215	0.002	2	1.74	0.007	0.04	0.1	0.03	1.7	0.4	<0.05	7	<0.5	<0.2	
988340	Soil	8	8	0.14	79	0.002	2	1.93	0.006	0.06	0.1	0.05	1.4	0.3	<0.05	6	<0.5	<0.2	
988341	Soil	10	13	0.30	92	0.005	1	2.15	0.006	0.06	0.1	0.07	2.4	0.3	<0.05	6	<0.5	<0.2	
988342	Soil	9	14	0.33	188	0.003	2	2.23	0.009	0.08	0.1	0.08	3.0	0.3	<0.05	6	<0.5	<0.2	
988343	Soil	8	11	0.25	76	0.004	2	2.04	0.007	0.07	0.2	0.09	2.1	0.2	<0.05	6	<0.5	0.2	
988344	Soil	17	14	0.43	226	0.006	3	2.21	0.009	0.07	0.1	0.07	3.7	0.2	<0.05	6	0.6	0.3	
988345	Soil	7	12	0.25	62	0.004	<1	2.08	0.006	0.05	<0.1	0.07	2.7	0.3	<0.05	7	0.6	0.3	
988346	Soil	8	11	0.14	74	0.004	2	1.81	0.004	0.06	0.1	0.08	1.1	0.3	<0.05	6	<0.5	0.3	
988347	Soil	9	17	0.31	62	0.013	2	2.44	0.007	0.06	0.2	0.22	1.3	0.1	<0.05	9	<0.5	<0.2	
988348	Soil	6	13	0.27	74	0.008	2	1.81	0.006	0.04	0.1	0.19	1.8	0.1	<0.05	6	0.6	0.3	
988349	Soil	7	8	0.20	63	0.005	2	2.09	0.006	0.06	0.1	0.24	2.0	0.2	<0.05	8	<0.5	0.3	
988350	Soil	6	15	0.24	103	0.006	2	1.84	0.010	0.09	<0.1	0.09	1.4	0.2	<0.05	8	<0.5	<0.2	
988351	Soil	6	12	0.22	128	0.006	1	1.90	0.006	0.05	<0.1	0.11	1.3	0.1	<0.05	7	<0.5	0.2	
988352	Soil	7	7	0.13	67	0.005	<1	1.52	0.006	0.04	0.1	0.07	1.1	0.1	<0.05	7	<0.5	0.2	
988353	Soil	8	8	0.14	169	0.006	2	1.69	0.007	0.06	0.1	0.12	1.7	0.2	<0.05	7	0.7	0.7	
988354	Soil	8	7	0.29	302	0.006	3	1.86	0.007	0.07	<0.1	0.31	2.9	0.2	<0.05	8	<0.5	0.3	
988355	Soil	16	8	0.46	247	0.004	2	1.83	0.014	0.07	<0.1	0.37	8.2	0.1	<0.05	5	0.7	<0.2	
988356	Soil	16	11	0.56	243	0.005	2	2.38	0.014	0.06	<0.1	0.23	5.0	0.2	<0.05	7	0.8	<0.2	
988357	Soil	6	9	0.18	104	0.003	2	1.69	0.007	0.05	0.4	0.10	2.6	0.1	<0.05	6	<0.5	<0.2	
988358	Soil	101	14	0.37	433	0.003	2	3.95	0.010	0.11	0.1	0.20	15.9	0.3	<0.05	9	0.6	<0.2	
988359	Soil	8	10	0.21	134	0.006	2	2.16	0.006	0.05	<0.1	0.09	1.2	0.1	<0.05	9	<0.5	<0.2	

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 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 29, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000167.2

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
988360	Soil		4.1	20.6	311.2	307	0.6	5.9	5.4	1068	2.99	114.1	2.2	10.6	1.9	11	0.8	4.7	0.1	24	0.10	0.154
988361	Soil		3.4	16.8	159.2	203	0.6	5.6	4.4	899	2.67	87.3	2.3	68.4	1.2	16	0.5	3.8	0.1	24	0.13	0.156
988362	Soil		1.4	11.3	65.0	81	0.6	7.4	3.8	267	2.18	15.0	0.8	1.1	1.4	10	0.2	1.6	0.1	29	0.10	0.100
988363	Soil		1.5	13.7	23.9	59	0.3	5.3	4.1	426	2.20	14.3	1.0	2.2	0.2	11	0.1	1.5	0.3	41	0.06	0.146
988364	Soil		1.1	14.6	19.4	69	0.4	3.8	3.9	592	2.28	14.1	0.8	2.6	0.4	11	0.1	1.3	0.2	44	0.04	0.167
988365	Soil		0.9	8.4	12.5	41	0.2	4.1	2.7	197	1.38	7.1	0.9	2.1	0.3	14	<0.1	0.6	0.3	30	0.08	0.137
988366	Soil		1.0	13.5	11.5	56	<0.1	5.8	5.7	320	2.21	9.6	1.0	2.4	2.2	9	<0.1	1.0	0.3	35	0.08	0.141
988367	Soil		1.2	13.4	8.8	45	0.2	4.7	3.7	188	2.11	8.9	1.1	1.5	0.1	7	0.2	0.8	0.2	29	0.03	0.193
988368	Soil		1.0	9.8	6.7	42	0.1	3.9	3.1	192	1.72	5.8	0.9	1.4	<0.1	8	<0.1	1.1	0.1	28	0.03	0.132
988369	Soil		0.7	11.1	6.3	48	0.1	3.8	2.9	135	1.63	6.0	0.8	1.6	0.1	11	0.1	1.7	0.1	30	0.04	0.119
988370	Soil		1.2	13.7	32.2	80	0.3	6.3	5.8	692	2.05	23.9	1.1	3.3	0.7	9	0.1	1.9	0.1	34	0.05	0.135
988371	Soil		1.0	15.5	45.5	93	0.3	5.8	5.9	645	2.18	31.9	1.3	6.9	1.5	9	0.1	2.9	<0.1	33	0.08	0.128
988372	Soil		1.0	15.9	19.0	82	0.7	5.9	5.7	289	2.51	23.8	0.8	3.4	2.1	6	0.2	2.1	0.6	36	0.05	0.120
988373	Soil		1.0	12.8	16.6	70	0.4	3.4	3.4	236	2.07	22.0	0.7	13.7	0.9	10	0.1	1.9	0.3	37	0.04	0.116
988374	Soil		1.1	13.5	23.3	87	0.6	4.5	3.8	290	2.13	25.0	0.9	3.6	0.5	8	0.2	2.7	0.5	37	0.03	0.138
988375	Soil		1.3	12.0	42.2	80	0.3	3.8	3.0	281	1.87	20.5	0.8	1.4	0.4	10	0.2	2.6	0.3	26	0.04	0.165
988376	Soil		1.2	12.4	51.6	91	1.6	3.8	2.9	347	1.79	38.3	0.9	4.0	0.4	8	0.3	2.4	0.3	27	0.03	0.135
988377	Soil		2.7	23.9	600.9	515	0.7	6.1	9.8	3752	3.69	484.9	2.2	9.9	1.0	13	3.7	9.1	0.3	21	0.12	0.193
988378	Soil		1.6	10.7	103.0	160	0.9	3.3	3.2	477	2.11	96.0	1.0	3.2	0.3	14	0.7	2.6	0.2	28	0.13	0.119
988379	Soil		8.8	160.3	>10000	4584	93.2	9.5	10.9	5298	14.55	5687	11.5	6334	2.9	20	13.0	171.4	0.3	6	0.15	0.075
988380	Soil		8.2	110.5	6008	2412	24.4	4.6	7.6	4830	5.63	2823	2.7	1264	2.2	78	35.4	48.1	0.2	4	0.17	0.080
988381	Soil		1.1	8.7	22.4	45	0.2	2.5	2.6	147	1.94	13.0	0.8	<0.5	0.4	7	0.2	1.0	0.3	39	0.01	0.071
988382	Soil		1.1	11.3	33.5	64	0.6	3.1	2.4	138	1.74	21.1	0.7	2.3	0.9	11	0.6	0.7	0.3	37	0.07	0.105
988383	Soil		1.5	22.5	89.2	255	0.3	6.9	5.4	407	3.20	106.4	0.8	16.3	1.4	9	0.4	3.6	0.7	40	0.05	0.131
988384	Soil		1.2	13.3	71.0	213	0.3	5.1	4.3	409	2.93	91.7	0.7	5.3	0.2	12	0.3	3.2	0.6	44	0.06	0.111
988385	Soil		1.8	13.7	100.8	231	0.3	3.6	3.5	312	2.77	123.6	0.9	29.7	1.8	8	0.3	4.0	0.8	30	0.05	0.102
988386	Soil		1.3	14.3	88.3	227	0.2	3.4	3.5	397	2.52	104.1	1.2	9.5	0.8	7	0.5	3.6	0.8	26	0.02	0.132
988387	Soil		1.8	22.8	78.2	230	0.5	4.5	4.8	351	3.16	128.6	0.9	8.3	0.8	8	0.5	4.2	0.9	37	0.03	0.188
988388	Soil		1.7	24.7	159.8	331	0.4	5.4	6.1	610	4.67	164.4	1.2	18.1	2.1	8	0.5	4.8	0.9	37	0.06	0.179
988389	Soil		1.5	12.3	99.6	215	0.4	3.1	2.9	344	2.28	117.6	1.1	6.2	0.8	7	0.4	4.9	0.7	20	0.02	0.138

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 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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SMI13000167.2

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7TD
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
988360	Soil	17	7	0.14	162	0.002	2	1.56	0.004	0.08	0.1	0.04	2.3	0.3	<0.05	4	<0.5	<0.2	
988361	Soil	12	7	0.15	176	0.003	1	1.38	0.005	0.09	0.1	0.04	1.6	0.3	<0.05	4	<0.5	<0.2	
988362	Soil	11	9	0.19	83	0.005	2	1.57	0.004	0.05	<0.1	0.06	1.6	0.2	<0.05	4	<0.5	<0.2	
988363	Soil	9	7	0.10	156	0.003	2	1.52	0.005	0.05	<0.1	0.07	0.6	0.3	<0.05	6	<0.5	<0.2	
988364	Soil	7	7	0.07	115	0.006	2	1.44	0.005	0.06	0.1	0.07	1.0	0.2	<0.05	7	<0.5	<0.2	
988365	Soil	9	7	0.15	127	0.004	3	1.56	0.007	0.06	0.1	0.09	0.6	0.2	<0.05	6	<0.5	<0.2	
988366	Soil	11	7	0.17	65	0.005	2	1.56	0.007	0.06	<0.1	0.10	2.6	0.2	<0.05	4	<0.5	<0.2	
988367	Soil	7	7	0.11	65	0.002	2	2.17	0.004	0.05	<0.1	0.12	0.4	0.1	<0.05	5	0.8	<0.2	
988368	Soil	9	6	0.08	67	0.002	2	1.24	0.005	0.06	<0.1	0.08	0.3	0.2	<0.05	5	<0.5	<0.2	
988369	Soil	8	5	0.06	72	0.001	2	0.99	0.005	0.08	<0.1	0.05	0.4	0.1	<0.05	4	<0.5	<0.2	
988370	Soil	11	9	0.20	84	0.006	4	1.52	0.007	0.08	0.1	0.04	1.7	0.2	<0.05	5	<0.5	<0.2	
988371	Soil	12	7	0.18	124	0.004	3	1.55	0.007	0.07	<0.1	0.09	2.3	0.2	<0.05	5	<0.5	<0.2	
988372	Soil	8	8	0.19	79	0.004	4	2.11	0.006	0.05	0.1	0.10	3.2	0.2	<0.05	4	<0.5	<0.2	
988373	Soil	8	5	0.07	120	0.003	3	1.47	0.005	0.05	<0.1	0.05	1.3	0.2	<0.05	5	<0.5	<0.2	
988374	Soil	9	6	0.08	82	0.004	3	1.18	0.005	0.06	<0.1	0.05	0.9	0.3	<0.05	5	<0.5	<0.2	
988375	Soil	9	5	0.06	81	0.002	1	1.05	0.005	0.07	<0.1	0.06	0.6	0.2	0.06	4	<0.5	<0.2	
988376	Soil	9	5	0.07	118	0.002	1	1.10	0.005	0.07	<0.1	0.07	0.6	0.2	<0.05	4	<0.5	<0.2	
988377	Soil	11	6	0.06	157	0.003	2	1.18	0.004	0.13	<0.1	0.04	1.5	0.4	0.07	3	<0.5	0.3	
988378	Soil	9	4	0.07	121	<0.001	2	1.46	0.005	0.06	<0.1	0.05	0.5	0.3	<0.05	5	<0.5	<0.2	
988379	Soil	14	3	0.06	240	0.001	3	0.41	0.006	0.15	0.1	8.58	3.3	3.5	0.35	2	1.7	13.2	1.70
988380	Soil	13	2	0.03	212	0.002	2	0.35	0.005	0.33	<0.1	0.47	2.1	1.4	0.63	1	<0.5	0.5	
988381	Soil	8	5	0.04	84	0.003	2	1.07	0.005	0.04	<0.1	0.09	0.5	0.2	<0.05	6	<0.5	<0.2	
988382	Soil	8	6	0.09	104	0.003	3	1.49	0.005	0.05	<0.1	0.14	1.8	0.1	<0.05	6	<0.5	<0.2	
988383	Soil	8	9	0.20	71	0.005	1	2.01	0.005	0.06	0.1	0.08	2.8	0.2	<0.05	5	<0.5	<0.2	
988384	Soil	9	8	0.19	64	0.005	2	1.57	0.006	0.06	0.1	0.05	0.8	0.1	<0.05	6	0.6	<0.2	
988385	Soil	10	5	0.12	77	0.002	1	1.54	0.005	0.06	0.2	0.04	1.9	0.2	<0.05	5	0.6	<0.2	
988386	Soil	10	6	0.12	53	0.003	1	1.51	0.004	0.06	0.2	0.05	1.0	0.2	<0.05	4	<0.5	<0.2	
988387	Soil	10	6	0.10	63	0.003	2	1.40	0.006	0.06	0.1	0.04	1.3	0.2	<0.05	5	<0.5	0.2	
988388	Soil	9	8	0.19	69	0.003	1	1.96	0.006	0.08	<0.1	0.09	2.7	0.2	<0.05	5	0.8	0.2	
988389	Soil	11	5	0.11	60	0.002	3	1.49	0.005	0.09	<0.1	0.04	0.7	0.3	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
988390	Soil		1.2	14.3	111.9	209	0.5	3.2	3.4	303	2.94	109.6	0.9	30.9	0.9	6	0.3	4.2	0.8	28	0.01	0.100
988391	Soil		1.8	24.1	100.7	253	0.4	4.7	5.2	501	4.01	145.4	1.0	10.6	1.1	7	0.5	4.5	0.9	36	0.02	0.138
988392	Soil		1.5	14.9	49.4	169	0.4	3.7	4.0	1006	2.12	80.5	0.8	5.1	0.3	9	0.4	2.7	0.9	30	0.02	0.134
988393	Soil		1.7	14.8	69.2	189	0.2	3.9	3.9	488	3.09	116.6	0.9	12.0	0.3	7	0.4	3.7	0.9	34	0.02	0.184
988394	Soil		1.1	6.9	28.1	60	0.1	2.0	1.2	87	1.33	59.7	0.6	4.7	0.7	7	0.2	1.4	0.8	26	0.02	0.102
988395	Soil		1.8	22.1	111.6	295	0.4	4.6	5.5	562	3.80	163.5	1.1	30.3	1.2	10	0.6	4.8	0.9	37	0.07	0.321
988396	Soil		1.9	10.4	20.6	65	0.2	2.7	2.3	634	1.49	35.4	0.7	24.8	<0.1	11	0.1	1.1	0.6	29	0.03	0.120
988397	Soil		6.8	90.8	128.1	704	5.8	8.0	7.8	2400	3.05	248.9	37.1	38.7	3.1	50	1.6	4.0	0.7	31	0.45	0.310
988398	Soil		1.3	9.7	21.0	68	0.6	2.8	2.4	170	1.69	39.5	0.8	14.2	0.3	8	0.3	1.2	0.4	26	0.02	0.111
988399	Soil		2.0	14.4	107.8	182	0.5	4.8	3.0	224	3.48	163.4	1.3	11.7	1.8	8	0.7	3.7	0.8	33	0.04	0.184
988400	Soil		1.7	11.3	64.3	140	0.5	3.7	3.1	221	1.93	103.8	1.0	15.5	0.7	9	0.3	2.7	0.6	31	0.05	0.149
988401	Soil		1.9	42.3	101.1	698	3.0	8.8	5.4	981	2.86	166.4	14.0	15.0	2.1	67	2.0	3.1	0.7	28	0.80	0.401
988402	Soil		1.2	10.8	89.7	219	0.5	3.2	3.6	867	1.74	106.1	1.2	15.6	0.2	29	1.0	2.9	0.5	21	0.31	0.152
988403	Soil		2.0	23.4	168.6	545	1.5	5.0	4.9	1521	3.01	338.8	3.0	8.7	0.9	36	2.0	4.6	1.0	31	0.30	0.351
988404	Soil		1.0	8.3	29.8	54	0.9	1.4	2.2	241	1.32	23.0	0.8	11.2	0.1	15	0.7	0.5	0.3	22	0.14	0.163
988405	Soil		1.3	7.1	71.6	99	0.5	1.6	2.2	142	1.23	86.0	0.6	20.6	1.6	7	0.2	1.9	0.4	24	0.04	0.083
988406	Soil		1.0	7.6	22.8	65	0.1	1.9	1.9	134	1.26	44.5	0.4	11.7	0.7	8	0.2	0.9	0.2	39	0.02	0.073
988407	Soil		1.9	19.4	248.1	517	0.5	5.6	5.6	2050	3.16	253.2	3.2	2.7	0.5	38	2.3	3.0	0.7	34	0.39	0.315
988408	Soil		2.8	17.1	134.9	287	0.5	4.9	6.5	3703	2.87	252.2	1.9	6.4	0.1	22	3.5	2.3	0.5	34	0.28	0.223
988409	Soil		2.1	26.9	205.7	401	2.4	6.3	5.4	957	3.05	448.5	7.6	35.5	0.3	28	0.8	2.9	0.4	33	0.38	0.251
988410	Soil		2.0	13.6	67.5	181	1.5	3.6	2.8	407	2.03	195.4	2.3	13.7	0.1	39	0.9	1.4	0.4	37	0.51	0.162
988411	Soil		2.6	26.6	65.9	332	1.1	7.7	5.4	708	3.28	419.3	5.3	7.1	0.2	60	2.6	1.2	0.3	39	0.61	0.344
988412	Soil		2.6	30.2	117.8	839	0.8	6.9	8.3	727	3.42	178.4	3.5	16.5	1.0	60	4.6	1.7	0.3	33	0.81	0.247
988413	Soil		2.0	15.5	22.1	143	1.8	2.4	3.5	144	2.70	27.6	2.4	4.9	0.1	50	1.3	0.3	0.1	36	0.76	0.177
988414	Soil		1.4	7.0	32.4	34	0.7	1.1	1.1	43	0.96	52.3	0.5	7.4	0.6	5	0.1	0.5	0.1	21	0.02	0.074
988415	Soil		2.6	16.4	195.5	276	1.8	9.2	4.0	772	3.38	143.8	2.0	14.9	0.2	12	0.6	1.1	0.5	39	0.06	0.172
988416	Soil		2.3	66.4	3693	1143	11.1	5.9	5.3	1652	4.02	820.6	11.9	2807	1.7	65	2.9	20.0	3.6	17	1.15	0.351
988417	Soil		1.1	7.8	24.1	126	0.6	4.2	4.2	680	2.39	132.2	1.9	7.3	<0.1	13	0.3	0.6	0.3	33	0.25	0.177
988418	Soil		2.1	5.1	28.8	140	<0.1	2.2	2.6	556	1.46	320.7	0.4	7.4	1.3	5	0.2	3.3	0.1	18	0.04	0.045
988419	Soil		0.5	2.7	5.4	41	0.2	0.9	0.9	77	0.41	18.7	0.4	1.8	1.3	5	0.1	1.0	<0.1	9	0.02	0.032

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 29, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000167.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7TD
		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	0.02
988390	Soil	10	6	0.11	53	0.004	1	1.41	0.005	0.07	0.1	0.05	1.2	0.2	<0.05	4	<0.5	<0.2
988391	Soil	10	8	0.16	66	0.004	2	1.67	0.006	0.07	<0.1	0.07	1.7	0.2	<0.05	5	<0.5	0.3
988392	Soil	11	6	0.11	71	0.004	1	1.04	0.007	0.09	0.1	0.05	0.9	0.2	<0.05	5	<0.5	0.2
988393	Soil	10	7	0.10	53	0.006	2	1.27	0.005	0.06	0.1	0.05	0.5	0.1	<0.05	6	0.7	<0.2
988394	Soil	9	5	0.06	42	0.002	2	1.04	0.005	0.03	<0.1	0.07	0.9	0.2	<0.05	5	0.6	<0.2
988395	Soil	9	6	0.14	68	0.004	2	1.38	0.005	0.06	<0.1	0.07	1.7	0.2	<0.05	4	0.8	<0.2
988396	Soil	12	6	0.07	66	0.007	2	1.03	0.006	0.09	0.1	0.04	0.3	0.2	<0.05	6	<0.5	<0.2
988397	Soil	176	15	0.20	234	0.003	2	2.80	0.011	0.11	0.2	0.36	17.8	0.3	0.13	5	2.7	<0.2
988398	Soil	10	5	0.08	58	0.002	2	1.37	0.005	0.03	<0.1	0.07	0.3	0.2	<0.05	5	0.6	<0.2
988399	Soil	8	8	0.15	75	0.003	1	1.57	0.005	0.06	0.2	0.15	2.1	0.2	<0.05	5	<0.5	<0.2
988400	Soil	9	6	0.08	73	0.003	1	1.11	0.005	0.06	0.1	0.06	1.0	0.2	<0.05	5	0.5	<0.2
988401	Soil	48	14	0.27	229	0.004	3	2.49	0.010	0.14	<0.1	0.08	6.2	0.1	0.13	4	1.2	<0.2
988402	Soil	11	4	0.08	112	0.003	2	0.80	0.005	0.12	0.1	0.03	0.6	0.2	<0.05	4	<0.5	<0.2
988403	Soil	9	8	0.15	170	0.004	4	1.81	0.015	0.21	0.2	0.07	3.7	0.2	0.10	5	0.6	<0.2
988404	Soil	8	4	0.12	76	0.001	2	1.29	0.005	0.06	<0.1	0.10	0.3	0.2	0.06	5	<0.5	<0.2
988405	Soil	13	3	0.05	68	0.001	2	1.18	0.004	0.06	0.1	0.05	1.0	0.3	<0.05	5	0.6	<0.2
988406	Soil	10	4	0.06	73	0.002	<1	1.10	0.004	0.04	<0.1	0.03	1.9	0.2	<0.05	7	<0.5	<0.2
988407	Soil	15	7	0.16	195	0.006	2	1.60	0.008	0.12	<0.1	0.05	1.5	0.2	0.10	6	<0.5	<0.2
988408	Soil	8	6	0.08	164	0.002	1	1.00	0.005	0.10	0.1	0.06	0.3	0.1	0.12	5	<0.5	<0.2
988409	Soil	35	9	0.20	139	0.002	1	2.28	0.007	0.06	0.1	0.18	1.2	0.2	0.15	5	<0.5	<0.2
988410	Soil	11	6	0.15	157	0.002	1	1.59	0.007	0.07	0.1	0.09	0.4	0.3	0.10	7	0.5	<0.2
988411	Soil	18	11	0.28	228	0.004	2	2.47	0.007	0.06	<0.1	0.22	0.9	0.1	0.19	6	<0.5	<0.2
988412	Soil	15	8	0.25	124	0.003	2	1.70	0.013	0.06	<0.1	0.09	2.7	0.1	0.18	5	<0.5	<0.2
988413	Soil	10	5	0.07	88	0.002	1	1.60	0.003	0.03	<0.1	0.17	0.6	<0.1	0.13	7	<0.5	<0.2
988414	Soil	8	3	0.02	47	0.002	<1	1.33	0.004	0.03	<0.1	0.05	0.5	0.3	<0.05	5	<0.5	<0.2
988415	Soil	13	15	0.26	72	0.008	1	2.38	0.007	0.06	0.2	0.09	0.5	0.3	0.14	13	0.5	<0.2
988416	Soil	32	7	0.15	378	0.003	2	1.25	0.006	0.09	0.1	1.17	4.8	0.2	0.36	3	<0.5	<0.2
988417	Soil	9	6	0.19	114	<0.001	<1	1.53	0.005	0.07	0.1	0.10	0.2	0.2	0.09	7	<0.5	<0.2
988418	Soil	11	2	0.02	60	<0.001	<1	0.79	0.002	0.05	0.1	0.02	0.5	0.3	<0.05	3	<0.5	<0.2
988419	Soil	15	2	0.01	38	<0.001	1	0.97	0.005	0.03	<0.1	0.02	0.4	0.2	<0.05	3	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

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# CERTIFICATE OF ANALYSIS

SMI13000167.2

	Method	1DX15																				
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
988420	Soil	2.9	19.9	75.0	239	0.2	3.6	3.5	422	1.89	150.8	0.6	10.4	0.9	6	0.2	5.3	0.2	27	0.03	0.088	
988421	Soil	2.1	21.1	197.3	242	0.4	3.3	3.3	258	1.99	120.2	1.0	17.4	<0.1	11	0.5	3.7	0.3	30	0.20	0.114	
988422	Soil	3.0	43.2	350.5	610	0.6	8.1	11.0	1384	4.13	429.7	13.6	16.4	0.8	34	2.8	5.2	0.8	35	0.41	0.209	
988423	Soil	1.6	22.7	289.0	644	1.0	6.0	6.3	797	2.91	307.2	8.0	13.2	1.1	57	1.5	4.9	0.4	25	0.69	0.185	
988424	Soil	2.0	13.6	26.7	86	1.3	3.6	2.7	177	2.17	24.2	0.7	3.9	<0.1	11	0.6	0.6	0.3	36	0.07	0.092	
988425	Soil	1.5	19.5	47.6	141	0.5	3.9	4.1	288	2.45	45.6	0.4	2.7	<0.1	6	0.4	1.5	0.4	58	0.02	0.095	
988426	Soil	1.8	33.4	85.0	238	0.3	6.6	9.7	1057	4.27	67.6	0.5	5.9	0.2	11	0.6	1.7	0.6	52	0.10	0.177	
988427	Soil	1.4	16.9	25.6	115	0.2	5.1	5.3	365	3.12	21.1	0.6	0.7	<0.1	15	0.5	0.7	0.2	66	0.12	0.103	
988428	Soil	1.8	15.2	21.0	77	0.6	3.9	5.2	379	4.81	14.5	0.6	0.8	<0.1	7	0.5	0.4	0.3	93	0.03	0.092	
989850	Soil	9.9	49.9	51.6	119	<0.1	4.3	6.4	579	13.89	61.1	0.6	5.3	1.0	44	0.2	2.8	1.0	35	0.18	0.147	



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 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

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# CERTIFICATE OF ANALYSIS

SMI13000167.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7TD		
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
988420	Soil	12	3	0.02	63	0.001	<1	0.97	0.003	0.03	0.2	0.03	0.9	0.3	<0.05	4	<0.5	<0.2		
988421	Soil	10	4	0.03	93	<0.001	<1	0.73	0.003	0.06	0.2	0.06	0.3	0.2	0.06	4	<0.5	<0.2		
988422	Soil	10	9	0.20	142	0.002	<1	1.13	0.006	0.07	0.1	0.05	2.5	0.1	0.11	3	<0.5	0.4		
988423	Soil	18	7	0.15	237	0.003	<1	1.53	0.004	0.06	0.1	0.16	1.9	0.2	0.10	4	<0.5	<0.2		
988424	Soil	8	8	0.13	67	0.002	<1	1.53	0.005	0.05	<0.1	0.13	0.3	0.2	0.07	6	<0.5	<0.2		
988425	Soil	8	6	0.06	86	0.003	<1	1.01	0.005	0.03	<0.1	0.07	0.6	0.2	<0.05	7	<0.5	<0.2		
988426	Soil	7	8	0.16	151	0.003	1	1.35	0.006	0.05	0.1	0.16	1.3	0.2	0.07	5	<0.5	0.5		
988427	Soil	6	8	0.14	148	0.005	<1	1.45	0.006	0.05	<0.1	0.09	0.7	0.1	0.07	8	<0.5	<0.2		
988428	Soil	6	9	0.12	54	0.008	<1	2.00	0.005	0.03	0.1	0.13	1.0	<0.1	0.07	12	<0.5	<0.2		
989850	Soil	5	8	0.14	67	0.003	<1	1.03	0.004	0.05	0.1	0.03	1.5	0.1	0.07	3	0.8	0.3		

## QUALITY CONTROL REPORT

SMI13000167.2

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 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
				ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																							
988329	Soil			1.3	12.4	30.3	137	0.2	3.2	3.3	829	1.90	48.6	1.0	2.9	0.1	10	0.4	1.4	0.7	37	0.03	0.121
REP 988329	QC			1.3	12.9	32.5	136	0.2	3.8	3.3	845	1.92	49.4	0.9	<0.5	<0.1	11	0.4	1.3	0.7	38	0.03	0.123
988331	Soil			1.2	7.0	68.4	107	0.8	1.9	1.5	154	1.27	140.8	1.3	8.0	0.4	8	0.5	1.4	0.6	23	0.04	0.133
REP 988331	QC			1.2	7.7	83.8	116	0.9	2.0	1.7	181	1.39	157.8	1.3	15.1	0.4	8	0.5	1.7	0.6	25	0.04	0.134
988365	Soil			0.9	8.4	12.5	41	0.2	4.1	2.7	197	1.38	7.1	0.9	2.1	0.3	14	<0.1	0.6	0.3	30	0.08	0.137
REP 988365	QC			0.9	8.1	11.8	42	0.2	4.1	2.6	192	1.34	6.9	1.0	1.5	0.2	14	0.1	0.6	0.2	30	0.08	0.138
988367	Soil			1.2	13.4	8.8	45	0.2	4.7	3.7	188	2.11	8.9	1.1	1.5	0.1	7	0.2	0.8	0.2	29	0.03	0.193
REP 988367	QC			1.3	13.8	9.0	48	0.2	4.6	3.7	198	2.17	8.9	1.1	1.5	0.1	7	0.2	0.8	0.1	30	0.03	0.200
988379	Soil			8.8	160.3	>10000	4584	93.2	9.5	10.9	5298	14.55	5687	11.5	6334	2.9	20	13.0	171.4	0.3	6	0.15	0.075
REP 988379	QC																						
988401	Soil			1.9	42.3	101.1	698	3.0	8.8	5.4	981	2.86	166.4	14.0	15.0	2.1	67	2.0	3.1	0.7	28	0.80	0.401
REP 988401	QC			1.8	42.3	98.3	686	3.0	9.0	5.4	962	2.84	165.5	13.7	16.5	2.4	67	2.3	3.0	0.7	28	0.80	0.404
988403	Soil			2.0	23.4	168.6	545	1.5	5.0	4.9	1521	3.01	338.8	3.0	8.7	0.9	36	2.0	4.6	1.0	31	0.30	0.351
REP 988403	QC			2.1	24.0	175.2	534	1.5	4.9	5.2	1498	3.03	337.3	3.2	10.5	0.9	36	2.3	4.8	1.0	29	0.30	0.339
989850	Soil			9.9	49.9	51.6	119	<0.1	4.3	6.4	579	13.89	61.1	0.6	5.3	1.0	44	0.2	2.8	1.0	35	0.18	0.147
REP 989850	QC			10.5	51.9	52.0	126	<0.1	4.2	6.6	597	13.91	63.2	0.6	5.8	1.0	46	0.1	3.1	1.1	37	0.19	0.156
Reference Materials																							
STD CDN-ME-14	Standard																						
STD CDN-ME-9	Standard																						
STD DS9	Standard			13.1	106.0	125.8	317	1.8	37.1	7.6	574	2.33	25.2	2.9	119.7	6.6	82	2.4	6.4	6.2	40	0.74	0.078
STD DS9	Standard			12.9	97.7	127.4	293	1.7	38.3	7.0	577	2.23	24.4	3.0	112.7	7.6	81	2.4	6.3	6.7	40	0.72	0.080
STD DS9	Standard			12.9	100.6	135.0	303	1.7	37.6	7.0	594	2.28	25.5	2.9	105.5	6.7	80	2.3	6.2	6.2	40	0.71	0.077
STD DS9	Standard			13.4	114.0	125.8	319	1.8	41.2	8.0	582	2.34	25.1	2.7	109.9	5.8	66	2.5	5.8	6.4	43	0.71	0.078
STD DS9 Expected				12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
STD CDN-ME-14 Expected																							
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank			<0.1	<0.1	0.4	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<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	<0.1	<0.5	<0.1	<1	<0.1	<0.1	0.1	<2	<0.01	<0.001



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## QUALITY CONTROL REPORT

SMI13000167.2

Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7TD	
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	Pb %	
	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	0.02	
Pulp Duplicates																			
988329	Soil	11	9	0.08	87	0.005	<1	1.00	0.007	0.06	<0.1	0.03	0.2	0.3	<0.05	6	<0.5	<0.2	
REP 988329	QC	10	10	0.09	91	0.005	<1	1.06	0.008	0.07	<0.1	0.03	0.3	0.3	<0.05	6	<0.5	<0.2	
988331	Soil	10	4	0.06	59	0.001	<1	1.46	0.006	0.05	<0.1	0.06	0.6	0.3	<0.05	6	<0.5	<0.2	
REP 988331	QC	9	4	0.06	60	0.001	<1	1.49	0.006	0.05	<0.1	0.06	0.7	0.3	<0.05	6	<0.5	<0.2	
988365	Soil	9	7	0.15	127	0.004	3	1.56	0.007	0.06	0.1	0.09	0.6	0.2	<0.05	6	<0.5	<0.2	
REP 988365	QC	9	7	0.15	125	0.003	2	1.56	0.006	0.06	0.1	0.08	0.6	0.2	<0.05	7	0.5	<0.2	
988367	Soil	7	7	0.11	65	0.002	2	2.17	0.004	0.05	<0.1	0.12	0.4	0.1	<0.05	5	0.8	<0.2	
REP 988367	QC	7	7	0.12	65	0.002	2	2.32	0.004	0.05	<0.1	0.12	0.4	0.1	<0.05	5	0.5	<0.2	
988379	Soil	14	3	0.06	240	0.001	3	0.41	0.006	0.15	0.1	8.58	3.3	3.5	0.35	2	1.7	13.2	1.70
REP 988379	QC																		1.78
988401	Soil	48	14	0.27	229	0.004	3	2.49	0.010	0.14	<0.1	0.08	6.2	0.1	0.13	4	1.2	<0.2	
REP 988401	QC	48	14	0.26	233	0.004	2	2.34	0.011	0.15	0.1	0.08	7.1	0.1	0.12	4	1.2	<0.2	
988403	Soil	9	8	0.15	170	0.004	4	1.81	0.015	0.21	0.2	0.07	3.7	0.2	0.10	5	0.6	<0.2	
REP 988403	QC	9	7	0.14	174	0.004	4	1.69	0.014	0.20	0.1	0.06	3.9	0.2	0.06	6	0.7	<0.2	
989850	Soil	5	8	0.14	67	0.003	<1	1.03	0.004	0.05	0.1	0.03	1.5	0.1	0.07	3	0.8	0.3	
REP 989850	QC	5	8	0.15	68	0.004	<1	1.09	0.004	0.05	0.1	0.05	1.6	0.1	0.09	4	1.2	0.4	
Reference Materials																			
STD CDN-ME-14	Standard																		0.51
STD CDN-ME-9	Standard																		<0.02
STD DS9	Standard	16	120	0.62	312	0.128	3	0.97	0.093	0.39	3.2	0.21	2.6	5.1	0.12	5	6.0	5.4	
STD DS9	Standard	16	112	0.62	290	0.127	4	0.99	0.086	0.38	2.8	0.20	2.8	4.9	0.14	5	4.7	5.1	
STD DS9	Standard	16	115	0.60	298	0.128	2	0.95	0.087	0.38	3.0	0.20	2.7	4.8	0.12	5	5.1	4.9	
STD DS9	Standard	13	125	0.62	284	0.109	2	0.93	0.077	0.39	3.1	0.21	2.1	5.2	0.19	5	6.3	4.9	
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	
STD CDN-ME-14 Expected																			0.495
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	



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 29, 2013

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Part: 1 of 2

## QUALITY CONTROL REPORT

SMI13000167.2

		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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	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	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				



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 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
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Project: SIVI  
 Report Date: August 29, 2013

Page: 2 of 2

Part: 2 of 2

## QUALITY CONTROL REPORT

SMI13000167.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7TD		
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
		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	0.02	
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																			<0.02



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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

Submitted By: ahldata  
Receiving Lab: Canada-Smithers  
Received: August 10, 2013  
Report Date: August 24, 2013  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

SMI13000168.1

### CLIENT JOB INFORMATION

Project: SIVI  
Shipment ID: 13R04  
P.O. Number: SIVI\_SSN13R04\_AUG0913  
Number of Samples: 56

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	56	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	56	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: **Amarc 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.



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 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 24, 2013

Page: 2 of 3 Part: 1 of 2

**CERTIFICATE OF ANALYSIS**

**SMI13000168.1**

Method Analyte Unit MDL	WGHT	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	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	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
987766	Rock	3.23	0.8	9.1	81.7	138	0.2	5.0	7.1	976	2.03	1.7	1.9	2.2	5.2	92	0.8	1.6	<0.1	34	1.94
987767	Rock	3.57	0.4	12.9	70.1	197	0.3	4.4	6.7	1351	2.22	2.3	1.7	<0.5	5.1	128	1.1	3.6	0.1	33	2.28
987768	Rock	3.64	0.5	12.0	69.0	242	0.3	5.2	7.1	1374	2.02	2.3	1.7	1.0	5.3	109	1.3	2.0	0.1	28	2.12
987769	Rock	3.71	0.5	10.6	81.0	245	0.3	4.9	5.3	1482	2.07	1.5	1.4	<0.5	5.0	111	2.2	0.6	0.1	30	2.15
987770	Rock	4.61	0.5	8.4	95.1	249	0.3	4.7	6.9	1409	2.14	2.2	1.6	<0.5	4.8	94	1.6	0.6	0.1	34	1.74
987771	Rock	5.52	1.6	12.3	13.7	359	0.1	7.2	8.4	1430	2.24	18.3	2.4	1.2	5.6	70	2.2	0.4	0.4	30	1.18
987772	Rock	4.53	1.3	11.7	11.8	78	<0.1	8.3	8.2	1163	2.19	13.8	2.2	1.5	5.1	83	0.3	0.7	<0.1	17	2.31
987773	Rock	5.35	1.9	16.4	10.6	89	<0.1	7.3	7.8	670	2.17	1.8	1.8	<0.5	5.8	81	0.4	0.4	<0.1	23	1.94
987774	Rock	5.24	2.0	20.6	205.1	184	0.3	7.2	7.4	1747	2.09	6.5	2.1	1.9	4.9	100	1.4	1.2	<0.1	15	2.48
987775	Rock	5.10	0.9	5.5	14.1	112	0.2	5.8	7.0	1366	1.92	2.9	2.5	0.8	5.3	116	0.3	0.9	<0.1	19	2.48
987776	Rock	3.83	1.7	15.1	16.3	62	0.1	7.7	8.6	712	2.21	<0.5	2.7	1.0	5.4	140	<0.1	0.2	<0.1	20	2.49
987777	Rock	3.60	1.3	6.9	63.7	2243	0.3	7.3	8.7	5282	1.91	32.4	2.3	2.4	4.5	60	11.9	1.3	<0.1	11	2.22
987778	Rock	3.15	1.7	24.0	150.6	1175	1.7	6.3	6.8	9473	1.99	247.4	1.5	84.2	3.8	74	5.7	3.9	<0.1	4	3.43
989851	Rock	3.54	1.6	70.4	421.0	969	1.3	9.0	9.2	1652	2.95	2.0	2.5	12.0	5.8	48	8.0	0.6	0.4	30	1.90
989852	Rock	4.62	1.4	58.5	98.4	458	1.2	7.6	4.8	1669	2.63	13.1	2.2	16.7	5.5	35	3.0	0.4	0.9	26	1.43
989853	Rock	3.46	0.9	13.7	4.3	262	0.2	9.2	6.9	2252	2.39	3.7	1.8	5.2	4.8	50	1.3	0.3	<0.1	32	1.81
989854	Rock	4.26	1.4	5.0	5.0	81	<0.1	6.7	7.7	1290	2.21	9.0	2.2	7.6	5.5	73	0.3	0.7	<0.1	15	2.32
989855	Rock	4.25	1.1	8.6	14.2	87	0.1	8.2	8.0	1226	2.13	0.7	1.5	1.7	5.5	53	0.2	0.3	<0.1	23	1.58
989856	Rock	4.83	1.1	22.8	120.4	261	0.5	6.8	7.8	1541	2.11	8.5	2.2	1.5	4.7	51	1.8	2.3	0.4	29	1.63
989857	Rock	5.28	0.9	15.7	145.2	172	0.2	7.4	8.6	1066	2.39	9.0	2.0	1.5	4.6	39	0.7	0.6	0.1	39	1.29
989858	Rock	5.86	0.7	18.0	4.9	72	0.1	9.6	15.7	1151	4.69	11.9	0.3	<0.5	0.8	25	0.3	0.7	<0.1	54	0.74
989859	Rock	3.59	0.8	14.1	6.8	104	0.1	9.7	14.4	1332	4.93	18.1	0.1	0.6	0.9	17	0.5	0.2	<0.1	54	0.50
989860	Rock	5.45	0.9	12.4	17.7	377	0.2	5.3	7.5	1375	2.17	101.6	2.3	1.5	6.0	31	2.3	0.3	0.4	34	0.88
989861	Rock	5.98	0.8	9.0	32.3	119	0.1	7.4	7.8	1350	2.45	23.5	1.9	0.5	5.2	34	0.7	0.3	0.3	40	0.91
989862	Rock	3.94	1.4	17.0	17.1	1309	0.3	5.8	8.0	1240	2.39	120.9	2.6	3.8	5.5	34	7.2	4.1	0.8	28	0.92
989863	Rock	3.40	0.7	10.2	56.4	100	0.1	7.9	8.5	1064	2.34	6.5	1.7	<0.5	5.1	40	0.3	0.3	<0.1	42	1.27
989864	Rock	3.96	<0.1	4.4	5.6	80	<0.1	11.0	16.4	1027	5.73	9.2	0.1	<0.5	0.7	17	0.4	<0.1	<0.1	56	0.53
989865	Rock	5.00	0.8	15.9	15.3	73	0.1	3.7	9.9	1024	3.09	2.8	1.2	<0.5	2.9	37	0.5	0.3	<0.1	45	1.44
989866	Rock	5.51	1.1	11.6	14.0	79	<0.1	2.0	9.3	991	3.21	3.9	1.0	<0.5	2.6	55	0.4	0.3	<0.1	44	2.18
989867	Rock	4.80	0.5	12.0	13.3	75	<0.1	2.8	9.2	892	3.21	2.6	0.9	1.1	3.3	38	0.2	0.3	<0.1	53	1.42



**CERTIFICATE OF ANALYSIS**
**SMI13000168.1**

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
987766	Rock	0.074	15	6	0.57	88	0.001	3	1.11	0.025	0.14	<0.1	<0.01	3.8	<0.1	<0.05	5	<0.5	<0.2	
987767	Rock	0.079	16	5	0.58	64	0.002	1	1.21	0.023	0.19	<0.1	<0.01	4.2	<0.1	<0.05	5	<0.5	<0.2	
987768	Rock	0.075	16	6	0.50	70	0.001	<1	1.10	0.020	0.19	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2	
987769	Rock	0.075	16	6	0.50	80	0.001	<1	1.14	0.019	0.20	<0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2	
987770	Rock	0.073	15	7	0.56	79	0.001	1	1.17	0.026	0.18	<0.1	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2	
987771	Rock	0.082	16	8	0.54	117	0.001	<1	1.00	0.029	0.17	<0.1	<0.01	4.1	<0.1	<0.05	4	<0.5	<0.2	
987772	Rock	0.088	13	6	0.33	107	<0.001	2	0.43	0.031	0.19	<0.1	0.01	3.0	0.1	0.15	1	<0.5	<0.2	
987773	Rock	0.086	18	7	0.44	95	0.001	<1	0.81	0.038	0.16	0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2	
987774	Rock	0.081	9	4	0.41	165	<0.001	<1	0.33	0.021	0.19	<0.1	0.03	2.7	0.1	0.45	<1	<0.5	<0.2	
987775	Rock	0.084	17	6	0.35	348	0.001	2	0.58	0.029	0.20	<0.1	0.02	2.6	0.1	0.09	3	<0.5	<0.2	
987776	Rock	0.089	17	7	0.41	185	0.001	2	0.61	0.033	0.17	<0.1	0.02	2.9	<0.1	0.05	3	<0.5	<0.2	
987777	Rock	0.078	13	3	0.15	120	<0.001	3	0.36	0.015	0.25	<0.1	0.03	2.3	0.3	0.18	<1	<0.5	<0.2	
987778	Rock	0.074	10	2	0.49	84	<0.001	1	0.30	0.004	0.25	<0.1	0.02	2.4	0.3	0.50	<1	<0.5	<0.2	
989851	Rock	0.080	7	11	0.70	71	<0.001	1	1.14	0.033	0.18	0.1	0.01	2.7	0.2	0.79	4	<0.5	<0.2	
989852	Rock	0.084	10	8	0.46	118	<0.001	<1	0.76	0.018	0.17	0.2	<0.01	2.7	0.1	0.50	3	<0.5	0.2	
989853	Rock	0.084	14	11	0.63	84	0.004	<1	1.25	0.022	0.19	<0.1	<0.01	4.3	0.1	<0.05	4	<0.5	<0.2	
989854	Rock	0.084	13	4	0.16	94	<0.001	1	0.34	0.032	0.20	<0.1	0.04	4.2	<0.1	<0.05	<1	<0.5	<0.2	
989855	Rock	0.084	16	7	0.50	85	0.001	<1	0.92	0.023	0.17	<0.1	<0.01	4.7	<0.1	<0.05	4	<0.5	<0.2	
989856	Rock	0.079	14	7	0.51	100	0.001	1	1.09	0.024	0.13	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2	
989857	Rock	0.085	14	9	0.65	83	0.002	<1	1.22	0.027	0.12	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2	
989858	Rock	0.065	8	8	0.48	84	0.001	<1	1.68	0.030	0.16	<0.1	<0.01	5.7	<0.1	<0.05	4	<0.5	<0.2	
989859	Rock	0.060	10	10	0.82	54	<0.001	2	2.67	0.051	0.12	<0.1	<0.01	6.3	<0.1	<0.05	6	<0.5	<0.2	
989860	Rock	0.078	14	6	0.61	113	0.002	<1	1.16	0.028	0.14	<0.1	0.01	3.5	<0.1	0.07	5	<0.5	<0.2	
989861	Rock	0.084	15	10	0.72	89	0.002	<1	1.31	0.026	0.14	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2	
989862	Rock	0.072	13	5	0.37	127	0.001	<1	0.92	0.033	0.13	0.1	0.05	3.6	<0.1	0.16	3	<0.5	<0.2	
989863	Rock	0.086	14	11	0.74	89	0.002	<1	1.33	0.024	0.13	<0.1	<0.01	3.9	<0.1	<0.05	6	<0.5	<0.2	
989864	Rock	0.053	10	7	0.97	92	0.003	<1	3.41	0.033	0.27	<0.1	<0.01	6.8	<0.1	<0.05	7	<0.5	<0.2	
989865	Rock	0.111	16	3	0.71	109	0.005	<1	1.47	0.037	0.14	<0.1	0.01	3.5	<0.1	<0.05	7	<0.5	<0.2	
989866	Rock	0.119	16	2	0.70	79	0.004	<1	1.58	0.033	0.15	<0.1	0.01	2.9	<0.1	<0.05	8	<0.5	<0.2	
989867	Rock	0.118	11	4	0.74	61	0.079	2	1.66	0.046	0.12	0.2	0.01	3.7	<0.1	<0.05	7	<0.5	<0.2	

# CERTIFICATE OF ANALYSIS

SMI13000168.1

Method Analyte Unit MDL	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
989868	Rock	5.14	0.4	10.9	16.1	84	<0.1	2.3	9.5	895	3.25	1.5	0.9	<0.5	3.4	44	0.1	0.2	<0.1	52	1.39
989869	Rock	6.17	0.7	16.7	12.1	62	<0.1	3.1	9.8	917	3.21	2.1	1.0	4.8	3.7	38	0.2	0.1	<0.1	61	1.51
989870	Rock	5.45	1.4	16.7	5.1	63	<0.1	3.4	11.8	926	3.54	2.0	1.3	<0.5	3.6	115	<0.1	0.3	<0.1	39	2.37
989871	Rock	4.16	1.4	17.5	12.4	111	0.1	3.7	11.6	1234	3.39	9.6	1.3	2.7	3.5	63	0.3	0.6	0.1	44	2.34
989872	Rock	4.15	0.7	11.4	7.9	122	<0.1	3.1	11.4	979	3.58	4.7	1.0	2.2	3.6	53	0.3	0.3	<0.1	59	1.25
989873	Rock	6.08	0.7	13.4	4.0	75	<0.1	3.0	11.4	911	3.38	1.6	1.3	<0.5	4.0	46	0.2	0.2	<0.1	61	2.08
989874	Rock	3.13	0.8	12.0	7.6	85	<0.1	2.0	9.6	977	3.18	3.1	1.2	<0.5	4.3	75	0.1	0.2	<0.1	43	2.36
989875	Rock	3.34	10.6	261.8	7.0	116	0.4	9.9	14.4	533	4.20	5.6	0.4	8.5	1.4	35	0.4	0.5	0.2	51	0.43
989876	Rock	5.71	0.4	39.9	462.7	178	0.9	8.4	9.1	1141	3.40	34.2	0.2	0.8	1.6	22	1.0	1.4	0.4	34	0.42
989877	Rock	4.31	1.3	40.4	48.1	728	2.3	3.9	8.3	892	5.20	15.9	0.4	77.0	1.9	26	2.3	2.4	0.5	31	0.71
989878	Rock	4.57	0.6	34.9	27.6	92	0.2	9.6	10.9	925	3.40	4.6	0.3	3.0	1.6	23	0.4	0.9	0.4	32	0.70
989879	Rock	3.63	2.4	18.9	57.1	449	0.1	6.3	8.5	965	2.27	15.7	2.0	2.2	6.3	30	2.7	0.6	<0.1	14	0.81
989880	Rock	3.90	0.3	32.3	20.9	93	<0.1	13.2	16.2	889	3.87	9.8	0.3	<0.5	1.1	103	0.2	5.0	0.1	62	2.51
989881	Rock	3.82	0.2	40.8	26.4	135	0.1	16.9	18.7	806	4.36	18.2	0.2	<0.5	0.8	105	0.3	5.4	<0.1	93	2.75
989882	Rock	3.59	0.8	27.7	8.8	80	<0.1	15.4	17.9	958	4.13	24.3	0.5	<0.5	1.4	77	0.1	4.6	<0.1	61	2.90
989883	Rock	2.74	0.2	49.2	6.7	99	<0.1	15.9	14.6	977	4.60	16.4	0.2	<0.5	1.1	37	0.2	2.2	<0.1	62	0.73
989884	Rock	6.69	1.5	37.4	50.0	481	0.5	7.9	8.2	964	2.29	26.4	1.8	1.8	4.3	79	3.3	1.4	0.5	22	2.35
989885	Rock	3.59	0.4	29.1	7.2	84	<0.1	22.4	19.6	992	4.48	12.2	0.2	<0.5	1.2	28	0.1	0.5	<0.1	122	1.29
989886	Rock	3.79	0.4	20.6	10.4	86	<0.1	13.2	12.6	720	3.93	15.7	0.2	<0.5	0.8	13	0.2	0.3	<0.1	57	0.29
989887	Rock	4.07	0.2	27.2	3.8	53	<0.1	31.7	14.1	833	2.94	3.9	1.3	<0.5	3.8	52	<0.1	0.1	<0.1	67	1.28
989888	Rock	5.94	0.2	40.1	42.7	172	0.5	4.6	6.9	400	3.80	26.6	<0.1	<0.5	1.1	11	0.3	0.8	1.7	15	0.03
989889	Rock	3.51	1.5	63.3	162.0	284	1.3	4.7	6.2	372	4.60	56.8	<0.1	16.8	1.1	10	0.3	1.8	2.4	28	0.02
989890	Rock	4.83	1.5	76.4	30.6	162	0.8	3.7	6.4	240	2.91	70.3	0.2	11.2	1.2	11	0.5	6.0	1.8	11	0.02
989891	Rock	2.98	21.1	691.5	301.8	893	8.2	2.1	7.6	305	2.94	63.6	1.4	26.5	5.1	18	6.2	104.3	4.7	4	0.62
989892	Rock	2.76	6.9	257.3	21.2	75	0.4	6.2	6.2	358	2.33	38.5	2.2	12.2	3.9	76	0.4	1.8	0.6	16	0.86
989893	Rock	3.00	15.6	114.8	150.7	302	4.3	4.8	6.6	313	3.00	80.7	1.0	19.6	3.1	14	1.6	41.5	4.7	10	0.47

# CERTIFICATE OF ANALYSIS

SMI13000168.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
MDL		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
989868	Rock	0.118	9	2	0.81	58	0.110	4	1.72	0.054	0.10	0.3	0.02	3.9	<0.1	<0.05	8	<0.5	<0.2
989869	Rock	0.121	10	3	0.80	52	0.104	2	1.79	0.059	0.11	0.3	0.01	4.1	0.1	<0.05	8	<0.5	<0.2
989870	Rock	0.129	16	3	0.56	89	0.001	4	1.31	0.029	0.20	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
989871	Rock	0.125	16	4	0.67	105	0.002	5	1.64	0.043	0.24	<0.1	0.05	4.3	<0.1	<0.05	6	<0.5	<0.2
989872	Rock	0.131	17	4	0.94	110	0.003	2	1.77	0.057	0.14	<0.1	0.01	4.6	<0.1	<0.05	9	<0.5	<0.2
989873	Rock	0.119	14	5	0.89	105	0.030	5	1.69	0.059	0.14	<0.1	0.02	4.8	<0.1	<0.05	8	<0.5	<0.2
989874	Rock	0.123	16	3	0.77	107	0.003	4	1.70	0.039	0.18	<0.1	0.01	3.3	<0.1	<0.05	7	<0.5	<0.2
989875	Rock	0.078	9	9	0.49	128	0.002	4	1.71	0.116	0.23	<0.1	0.01	4.4	0.1	1.07	4	1.7	<0.2
989876	Rock	0.078	9	10	0.63	122	0.001	2	1.48	0.077	0.11	<0.1	<0.01	3.5	0.1	0.77	5	<0.5	0.4
989877	Rock	0.085	10	6	0.51	143	0.001	3	1.37	0.042	0.13	<0.1	0.18	3.7	0.2	0.87	4	0.8	1.3
989878	Rock	0.116	12	10	0.68	143	0.001	3	1.78	0.055	0.17	<0.1	<0.01	2.8	0.2	0.90	5	0.6	<0.2
989879	Rock	0.085	17	4	0.09	168	<0.001	5	0.54	0.049	0.22	<0.1	<0.01	3.7	0.1	<0.05	1	<0.5	<0.2
989880	Rock	0.055	7	12	0.68	305	<0.001	4	0.68	0.032	0.14	<0.1	0.30	6.7	<0.1	<0.05	2	<0.5	<0.2
989881	Rock	0.036	5	21	0.69	501	<0.001	7	0.91	0.028	0.14	<0.1	0.38	7.4	<0.1	0.08	3	<0.5	<0.2
989882	Rock	0.079	5	9	0.39	102	<0.001	4	0.70	0.010	0.10	<0.1	0.30	7.3	<0.1	<0.05	1	<0.5	<0.2
989883	Rock	0.080	6	11	0.16	156	<0.001	7	0.85	0.025	0.15	<0.1	0.09	6.7	<0.1	<0.05	2	<0.5	<0.2
989884	Rock	0.087	13	5	0.35	428	<0.001	4	0.53	0.039	0.19	<0.1	0.17	3.1	0.1	0.21	1	<0.5	<0.2
989885	Rock	0.107	13	33	1.52	65	0.002	4	2.68	0.037	0.08	<0.1	0.01	7.6	<0.1	<0.05	10	<0.5	<0.2
989886	Rock	0.067	12	13	0.32	146	<0.001	3	1.15	0.043	0.12	<0.1	0.03	5.5	<0.1	<0.05	4	0.6	<0.2
989887	Rock	0.105	12	69	1.59	162	0.118	13	1.82	0.101	0.09	0.2	0.01	6.6	<0.1	<0.05	10	<0.5	<0.2
989888	Rock	0.039	4	3	0.12	135	<0.001	2	0.78	0.030	0.29	<0.1	0.01	2.4	0.3	0.24	2	<0.5	0.5
989889	Rock	0.061	7	4	0.06	158	<0.001	3	0.74	0.036	0.30	<0.1	0.06	2.8	0.3	0.20	2	0.7	0.9
989890	Rock	0.026	4	2	0.08	144	0.001	3	0.66	0.024	0.34	0.1	0.04	1.7	0.3	0.59	1	1.1	0.4
989891	Rock	0.052	9	3	0.15	50	<0.001	2	0.41	0.021	0.23	<0.1	0.33	1.2	0.2	2.76	1	0.8	0.6
989892	Rock	0.081	7	4	0.24	343	0.002	4	0.57	0.025	0.22	0.3	0.07	3.8	0.1	0.45	2	<0.5	0.3
989893	Rock	0.059	6	3	0.19	52	0.002	5	0.43	0.009	0.26	0.1	0.25	1.5	0.1	2.55	1	1.6	0.7

## QUALITY CONTROL REPORT

SMI13000168.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
REP G1-SMI	QC	<0.1	1.5	2.6	48	<0.1	3.7	4.3	564	1.95	<0.5	1.2	<0.5	4.6	51	<0.1	<0.1	<0.1	36	0.43	
987769	Rock	3.71	0.5	10.6	81.0	245	0.3	4.9	5.3	1482	2.07	1.5	1.4	<0.5	5.0	111	2.2	0.6	0.1	30	2.15
REP 987769	QC		0.3	10.4	81.8	252	0.3	5.2	5.9	1487	2.08	0.9	1.5	<0.5	5.1	110	2.4	0.7	0.1	30	2.16
989881	Rock	3.82	0.2	40.8	26.4	135	0.1	16.9	18.7	806	4.36	18.2	0.2	<0.5	0.8	105	0.3	5.4	<0.1	93	2.75
REP 989881	QC		0.2	40.7	25.7	132	0.1	16.1	19.0	809	4.38	17.6	0.2	<0.5	0.7	108	0.2	5.5	<0.1	92	2.76
989893	Rock	3.00	15.6	114.8	150.7	302	4.3	4.8	6.6	313	3.00	80.7	1.0	19.6	3.1	14	1.6	41.5	4.7	10	0.47
REP 989893	QC		15.8	114.0	148.2	301	4.2	4.3	7.1	314	3.02	78.4	1.0	19.1	3.3	14	1.5	40.0	4.7	10	0.45
Core Reject Duplicates																					
989869	Rock	6.17	0.7	16.7	12.1	62	<0.1	3.1	9.8	917	3.21	2.1	1.0	4.8	3.7	38	0.2	0.1	<0.1	61	1.51
DUP 989869	QC	6.17	0.6	15.7	12.2	64	<0.1	2.9	9.8	917	3.18	2.0	0.9	2.5	3.7	36	0.2	0.1	<0.1	59	1.46
Reference Materials																					
STD DS9	Standard		12.2	107.5	129.2	306	1.8	38.3	7.7	583	2.28	25.1	2.9	113.3	6.7	71	2.4	5.7	7.3	39	0.72
STD DS9	Standard		12.7	104.2	133.0	312	1.7	39.1	7.7	589	2.38	25.6	3.0	123.7	7.2	77	2.4	6.1	7.3	41	0.74
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1-SMI	Prep Blank		0.1	1.8	2.3	43	<0.1	3.4	4.1	551	1.88	<0.5	1.2	2.9	4.5	50	<0.1	<0.1	<0.1	34	0.38
G1-SMI	Prep Blank																				
G1-SMI	Prep Blank		0.1	1.5	2.6	48	<0.1	3.5	4.2	571	1.97	<0.5	1.3	1.8	4.8	54	<0.1	<0.1	<0.1	36	0.43

## QUALITY CONTROL REPORT

SMI13000168.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	P	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	0.001	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	0.076	9	9	0.56	223	0.111	<1	0.92	0.073	0.49	<0.1	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
987769	Rock	0.075	16	6	0.50	80	0.001	<1	1.14	0.019	0.20	<0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
REP 987769	QC	0.079	16	6	0.51	81	0.001	<1	1.14	0.019	0.20	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
989881	Rock	0.036	5	21	0.69	501	<0.001	7	0.91	0.028	0.14	<0.1	0.38	7.4	<0.1	0.08	3	<0.5	<0.2
REP 989881	QC	0.036	5	22	0.70	508	<0.001	6	0.90	0.028	0.14	<0.1	0.40	7.6	<0.1	0.08	3	<0.5	0.3
989893	Rock	0.059	6	3	0.19	52	0.002	5	0.43	0.009	0.26	0.1	0.25	1.5	0.1	2.55	1	1.6	0.7
REP 989893	QC	0.060	6	3	0.18	53	0.002	4	0.43	0.009	0.26	0.1	0.21	1.4	0.2	2.55	1	0.8	0.9
Core Reject Duplicates																			
989869	Rock	0.121	10	3	0.80	52	0.104	2	1.79	0.059	0.11	0.3	0.01	4.1	0.1	<0.05	8	<0.5	<0.2
DUP 989869	QC	0.120	9	4	0.78	50	0.101	2	1.77	0.055	0.11	0.3	0.01	3.7	<0.1	<0.05	8	<0.5	<0.2
Reference Materials																			
STD DS9	Standard	0.079	13	120	0.62	288	0.108	4	0.96	0.083	0.39	3.0	0.21	2.5	5.4	0.17	4	5.9	5.0
STD DS9	Standard	0.083	15	122	0.62	303	0.115	<1	0.97	0.085	0.40	3.1	0.22	2.9	5.3	0.17	5	5.4	5.6
STD DS9 Expected		0.0819	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	<0.001	<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	<0.001	<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	0.077	8	8	0.56	220	0.105	1	0.88	0.063	0.47	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank																		
G1-SMI	Prep Blank	0.080	9	8	0.57	227	0.115	2	0.93	0.073	0.49	<0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2



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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

Submitted By: ahldata  
Receiving Lab: Canada-Smithers  
Received: August 14, 2013  
Report Date: August 31, 2013  
Page: 1 of 9

## CERTIFICATE OF ANALYSIS

SMI13000183.1

### CLIENT JOB INFORMATION

Project: SIVI  
Shipment ID: 13S03  
P.O. Number: SIVI\_SSN13S03\_Aug1313  
Number of Samples: 223

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
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.

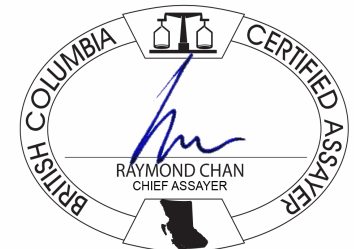
Invoice To: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	223	Dry at 60C sieve 100g to -80 mesh			SMI
Dry at 60C	223	Dry at 60C			SMI
1DX15	223	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

SMI13000183.1

Table with 21 columns (Method, Analyte, Unit, MDL, and 19 analytes: Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P) and 21 rows of data for various soil samples (988429-988458).



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**Project:** SIVI  
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**CERTIFICATE OF ANALYSIS**

**SMI13000183.1**

Method	Analyte	1DX15																
		La	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	ppm
Unit	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.01	0.05	1	0.5	1
988429	Soil	8	4	0.07	67	0.001	1	1.42	0.003	0.04	0.2	0.13	0.2	0.2	<0.05	4	<0.5	<1
988430	Soil	8	3	0.09	135	0.003	<1	0.76	0.004	0.06	0.1	0.04	0.5	<0.1	<0.05	3	<0.5	<1
988431	Soil	15	6	0.10	47	0.008	<1	1.34	0.009	0.05	0.3	0.07	0.2	0.2	<0.05	16	<0.5	<1
988432	Soil	9	4	0.06	77	0.003	2	0.85	0.004	0.07	0.1	0.05	0.2	0.2	<0.05	6	<0.5	<1
988433	Soil	7	4	0.08	111	0.002	1	0.78	0.004	0.07	<0.1	0.04	<0.1	<0.1	<0.05	4	<0.5	<1
988434	Soil	7	4	0.05	72	0.003	1	0.69	0.004	0.04	<0.1	0.10	0.4	0.2	<0.05	4	<0.5	<1
988435	Soil	7	4	0.10	92	0.002	2	1.34	0.005	0.05	<0.1	0.11	0.4	0.2	<0.05	5	<0.5	<1
988436	Soil	8	3	0.03	65	0.002	1	0.67	0.004	0.06	<0.1	0.03	0.2	0.2	<0.05	4	<0.5	<1
988437	Soil	6	4	0.12	167	0.002	2	1.38	0.005	0.06	<0.1	1.55	0.2	0.1	<0.05	7	<0.5	<1
988438	Soil	7	5	0.09	69	0.002	2	0.99	0.005	0.05	0.1	0.04	0.4	0.1	<0.05	5	<0.5	<1
988439	Soil	6	6	0.11	93	0.004	<1	1.31	0.005	0.04	0.1	0.07	0.5	0.1	<0.05	6	<0.5	<1
988440	Soil	7	7	0.09	81	0.003	<1	1.28	0.004	0.04	<0.1	0.05	0.4	0.1	<0.05	7	<0.5	<1
988441	Soil	8	6	0.10	57	0.004	1	1.47	0.004	0.03	0.1	0.07	0.4	0.1	<0.05	6	<0.5	<1
988442	Soil	8	8	0.23	39	0.005	2	1.62	0.004	0.03	<0.1	0.08	2.9	<0.1	<0.05	3	<0.5	<1
988443	Soil	11	5	0.11	36	0.002	2	1.09	0.002	0.04	<0.1	0.04	1.3	0.1	<0.05	2	<0.5	<1
988444	Soil	71	8	0.14	143	0.004	1	1.28	0.005	0.06	0.1	0.08	4.4	0.1	<0.05	3	<0.5	<1
988445	Soil	8	4	0.06	105	0.003	<1	0.66	0.004	0.09	0.1	0.03	0.3	0.1	<0.05	3	<0.5	<1
988446	Soil	9	6	0.14	135	0.002	1	0.98	0.005	0.08	<0.1	0.06	1.6	0.1	<0.05	2	<0.5	<1
988447	Soil	8	5	0.03	108	0.002	2	0.61	0.004	0.06	<0.1	0.03	0.5	0.1	<0.05	2	<0.5	<1
988448	Soil	69	10	0.20	206	0.006	3	2.14	0.008	0.09	0.1	0.24	5.2	<0.1	<0.05	3	<0.5	<1
988449	Soil	8	6	0.08	99	0.005	1	1.06	0.005	0.04	0.1	0.07	0.7	0.1	<0.05	7	<0.5	<1
988450	Soil	42	5	0.11	279	0.003	2	1.44	0.005	0.06	0.1	0.06	0.5	0.2	<0.05	5	<0.5	<1
988451	Soil	10	5	0.11	122	0.002	2	1.07	0.005	0.07	0.1	0.05	0.5	0.1	<0.05	4	<0.5	<1
988452	Soil	8	4	0.06	75	0.002	2	1.62	0.005	0.04	<0.1	0.09	0.9	0.2	<0.05	4	<0.5	<1
988453	Soil	19	5	0.08	111	0.002	2	1.62	0.006	0.05	0.2	0.07	0.6	0.2	<0.05	4	<0.5	<1
988454	Soil	8	4	0.04	60	0.003	1	1.07	0.004	0.03	<0.1	0.06	0.7	0.2	<0.05	5	<0.5	<1
988455	Soil	8	6	0.11	84	0.003	1	1.14	0.005	0.06	0.1	0.06	1.1	0.1	<0.05	4	<0.5	<1
988456	Soil	22	12	0.23	189	0.004	3	1.72	0.007	0.10	0.1	0.14	4.1	0.2	<0.05	4	<0.5	<1
988457	Soil	12	8	0.23	127	0.003	2	1.35	0.006	0.07	<0.1	0.06	2.7	0.1	<0.05	4	<0.5	<1
988458	Soil	35	13	0.22	259	0.008	2	1.99	0.007	0.10	0.1	0.20	4.4	0.2	<0.05	5	<0.5	<1

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**Client:** Amarc Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Project:** SIVI  
**Report Date:** August 31, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000183.1

	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
988459	Soil	1.3	17.1	73.6	191	1.7	6.0	5.0	777	2.58	76.6	6.9	7.3	1.6	48	0.5	1.1	0.3	38	0.69	0.265
988460	Soil	0.4	5.2	34.0	58	0.3	1.3	0.7	71	0.56	12.4	0.8	1.8	0.9	18	0.4	0.3	0.1	16	0.20	0.073
988461	Soil	1.2	14.9	57.4	196	0.4	5.1	7.3	1151	2.38	62.1	1.1	3.6	0.7	15	1.3	1.3	0.2	32	0.26	0.191
988462	Soil	1.2	25.0	113.0	294	2.6	7.0	6.7	1357	3.03	181.8	6.9	20.4	1.7	31	0.8	2.3	0.2	34	0.60	0.262
988463	Soil	0.5	9.8	47.3	169	0.4	3.0	2.1	268	1.37	62.7	1.3	7.3	0.7	9	0.7	0.8	0.2	23	0.08	0.149
988464	Soil	1.2	9.6	37.6	78	0.2	3.1	2.9	374	1.70	61.1	0.7	26.9	0.3	7	0.2	1.4	0.2	31	0.03	0.102
988465	Soil	1.0	15.8	112.3	167	0.3	5.1	5.1	1212	2.64	98.1	0.8	15.5	0.7	7	0.7	2.3	0.4	40	0.02	0.175
988466	Soil	1.2	21.4	113.6	188	1.0	4.3	3.9	546	2.96	105.3	0.7	10.2	0.3	7	0.8	2.8	0.6	34	0.03	0.151
988467	Soil	0.9	10.7	76.3	148	1.0	3.4	3.7	1021	2.02	89.5	0.8	47.6	0.4	6	0.6	1.8	0.2	24	0.02	0.159
988468	Soil	1.5	28.4	116.9	286	1.0	6.2	5.5	538	3.98	128.5	0.7	22.3	1.0	7	0.7	4.7	0.7	40	0.04	0.192
988469	Soil	0.8	12.5	36.3	77	0.4	3.3	4.0	1065	1.90	21.7	0.6	2.1	0.3	6	0.3	1.0	0.2	36	0.02	0.118
988470	Soil	0.7	19.9	934.8	391	3.5	5.7	5.3	3233	3.74	940.0	1.2	1213	0.3	16	1.4	13.2	0.3	38	0.08	0.147
988471	Soil	0.9	12.5	23.4	68	0.1	3.5	3.7	319	2.41	19.3	0.8	1.1	0.3	9	0.3	0.8	0.2	46	0.04	0.134
988472	Soil	0.9	12.8	74.3	369	0.5	6.1	8.7	1295	2.59	144.6	7.4	7.9	1.7	19	0.7	1.0	0.4	33	0.19	0.199
988473	Soil	0.5	5.3	29.4	41	0.4	1.7	1.3	82	0.86	14.1	0.3	<0.5	0.2	6	0.1	0.5	<0.1	24	0.01	0.059
988474	Soil	1.5	18.8	146.0	169	0.9	5.2	6.0	1160	3.28	75.6	0.9	4.6	0.3	11	0.5	2.3	0.2	49	0.06	0.232
988475	Soil	1.5	44.2	97.9	240	1.9	18.5	10.6	1148	3.48	53.6	2.9	9.8	1.2	90	1.3	2.4	<0.1	55	0.82	0.175
988476	Soil	1.3	32.2	132.3	442	1.8	11.9	10.3	1470	3.14	70.0	16.4	9.4	1.0	71	2.0	2.1	0.1	49	0.72	0.167
988477	Soil	2.3	35.0	987.6	959	4.3	9.7	7.8	3337	3.15	183.8	8.9	36.9	1.2	73	5.3	3.2	0.3	38	0.69	0.141
988478	Soil	1.2	18.7	141.8	210	0.3	4.9	5.4	1036	3.09	180.6	0.9	6.5	0.9	8	0.2	5.7	0.1	43	0.06	0.114
988479	Soil	1.1	35.2	126.9	630	1.9	8.6	11.3	1670	3.41	382.4	5.9	8.9	0.9	46	1.7	7.2	0.2	48	0.61	0.263
988480	Soil	1.1	38.0	57.7	401	2.3	9.5	14.1	2207	3.96	201.1	13.3	8.4	1.0	55	1.0	9.0	0.2	49	0.78	0.282
988481	Soil	1.2	16.9	19.8	142	0.4	7.5	5.3	913	3.43	86.9	1.7	1.3	0.5	25	0.4	3.0	0.2	48	0.23	0.189
988482	Soil	1.5	22.5	47.1	200	0.3	6.6	6.5	1275	3.69	115.1	1.1	2.3	1.4	10	0.3	4.9	0.2	55	0.04	0.126
988483	Soil	0.8	20.4	29.1	208	0.3	12.9	6.8	526	3.28	116.2	1.7	<0.5	0.6	27	0.4	4.2	0.2	54	0.18	0.182
988484	Soil	1.3	11.2	35.4	109	0.5	3.5	5.1	3523	1.85	18.5	0.7	9.2	0.4	18	0.4	0.6	0.2	34	0.09	0.156
988485	Soil	1.0	12.8	29.0	153	0.6	4.7	3.8	887	2.22	30.0	1.2	15.1	1.0	15	0.4	1.0	0.1	40	0.10	0.131
988486	Soil	1.1	11.4	21.7	68	0.1	3.1	3.0	389	2.08	24.2	0.5	<0.5	0.1	12	0.2	0.8	0.2	48	0.05	0.115
988487	Soil	2.4	20.5	53.8	221	0.3	4.8	7.0	2180	2.95	52.7	4.2	1.4	0.4	34	0.9	1.4	0.3	43	0.29	0.189
988488	Soil	2.1	27.1	33.6	140	1.3	5.7	7.1	1624	3.26	31.0	3.6	1.6	1.5	57	0.6	0.7	0.2	48	0.78	0.224

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Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client:

**Amarc Resources Ltd.**

15th Floor - 1040 West Georgia Street

Vancouver BC V6E 4H1 CANADA

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August 31, 2013

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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
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
988459	Soil	17	8	0.22	124	0.007	1	1.77	0.006	0.07	0.1	0.09	3.7	0.1	<0.05	5	<0.5	<1
988460	Soil	13	3	0.06	163	0.002	1	1.21	0.005	0.04	<0.1	0.03	1.1	0.2	<0.05	4	<0.5	<1
988461	Soil	8	6	0.12	134	0.005	1	1.17	0.005	0.08	<0.1	0.09	1.3	0.1	<0.05	3	<0.5	<1
988462	Soil	27	9	0.23	145	0.005	3	1.90	0.006	0.10	<0.1	0.15	4.6	0.2	<0.05	5	<0.5	<1
988463	Soil	15	5	0.11	150	0.003	2	1.29	0.005	0.07	<0.1	0.08	1.5	0.2	<0.05	4	<0.5	<1
988464	Soil	8	5	0.06	81	0.002	2	1.17	0.004	0.05	0.1	0.07	0.7	0.2	<0.05	5	<0.5	<1
988465	Soil	9	7	0.07	171	0.004	<1	1.47	0.007	0.06	0.1	0.05	1.1	0.2	<0.05	5	<0.5	<1
988466	Soil	11	8	0.09	69	0.004	1	1.12	0.005	0.07	0.1	0.07	0.5	0.2	<0.05	5	<0.5	<1
988467	Soil	9	4	0.04	104	0.004	<1	0.95	0.003	0.08	<0.1	0.06	0.7	0.2	<0.05	3	<0.5	<1
988468	Soil	9	9	0.16	84	0.004	<1	1.44	0.005	0.05	0.1	0.11	1.9	0.1	<0.05	4	<0.5	<1
988469	Soil	8	5	0.04	117	0.003	2	0.94	0.005	0.06	<0.1	0.06	0.7	0.2	<0.05	5	<0.5	<1
988470	Soil	10	9	0.10	172	0.004	<1	1.37	0.006	0.08	<0.1	0.12	1.1	0.2	<0.05	6	<0.5	<1
988471	Soil	7	7	0.08	87	0.006	1	1.21	0.006	0.05	<0.1	0.05	0.9	0.1	<0.05	5	<0.5	<1
988472	Soil	13	9	0.17	132	0.004	1	1.92	0.007	0.10	<0.1	0.07	4.0	0.2	<0.05	5	<0.5	<1
988473	Soil	7	4	0.04	53	0.003	2	0.90	0.006	0.05	<0.1	0.03	0.6	0.2	<0.05	6	<0.5	<1
988474	Soil	9	8	0.12	86	0.007	2	1.59	0.006	0.08	0.1	0.11	1.0	0.2	<0.05	6	<0.5	<1
988475	Soil	29	17	0.44	539	0.006	6	2.74	0.012	0.19	0.1	0.23	7.2	0.3	<0.05	6	0.6	<1
988476	Soil	19	13	0.31	301	0.006	3	1.83	0.011	0.11	<0.1	0.13	4.2	0.2	<0.05	5	<0.5	<1
988477	Soil	36	11	0.16	361	0.003	1	1.69	0.007	0.10	<0.1	0.16	2.9	0.3	<0.05	5	<0.5	<1
988478	Soil	10	6	0.07	168	0.003	2	1.44	0.005	0.10	<0.1	0.05	1.8	0.3	<0.05	5	<0.5	<1
988479	Soil	25	9	0.29	154	0.007	2	2.15	0.009	0.11	<0.1	0.09	4.2	0.2	<0.05	5	<0.5	<1
988480	Soil	25	10	0.34	210	0.008	3	1.97	0.013	0.12	<0.1	0.14	4.7	0.1	<0.05	5	<0.5	<1
988481	Soil	13	9	0.18	233	0.005	2	1.91	0.005	0.09	0.3	0.07	1.4	0.2	<0.05	6	<0.5	<1
988482	Soil	11	9	0.20	277	0.003	1	2.39	0.006	0.11	<0.1	0.05	3.0	0.3	<0.05	8	<0.5	<1
988483	Soil	9	15	0.32	399	0.005	2	2.45	0.008	0.11	<0.1	0.07	3.0	0.2	<0.05	7	<0.5	<1
988484	Soil	9	6	0.08	251	0.004	<1	1.46	0.006	0.09	<0.1	0.05	0.9	0.2	<0.05	6	<0.5	<1
988485	Soil	13	7	0.15	171	0.002	<1	2.26	0.005	0.09	0.1	0.05	1.7	0.2	<0.05	6	<0.5	<1
988486	Soil	8	5	0.07	115	0.004	<1	1.32	0.005	0.04	<0.1	0.07	0.8	0.2	<0.05	8	<0.5	<1
988487	Soil	17	7	0.09	350	0.005	1	1.59	0.007	0.10	0.1	0.08	1.8	0.2	<0.05	7	<0.5	<1
988488	Soil	38	9	0.23	314	0.006	1	2.56	0.009	0.08	0.1	0.10	5.9	0.2	<0.05	8	<0.5	<1

## CERTIFICATE OF ANALYSIS

SMI13000183.1

	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
988489	Soil	1.7	14.3	10.4	49	0.2	3.6	5.2	269	2.97	13.6	0.4	<0.5	0.1	8	0.2	0.4	0.1	62	0.03	0.134
988490	Soil	1.4	7.9	8.7	50	0.1	2.0	3.9	458	1.89	8.8	0.5	1.5	0.3	9	<0.1	0.4	0.1	43	0.11	0.113
988491	Soil	1.3	10.1	12.0	48	0.1	2.6	3.1	284	2.21	10.0	0.4	<0.5	0.1	9	0.2	0.3	0.1	54	0.05	0.106
988492	Soil	1.6	14.0	20.7	59	0.2	5.6	4.0	227	4.16	20.0	0.4	<0.5	<0.1	9	0.2	0.5	0.1	64	0.04	0.128
988493	Soil	1.9	12.5	16.3	69	<0.1	3.3	4.7	229	3.25	20.2	0.6	2.1	0.3	7	<0.1	0.9	0.1	47	0.05	0.144
988494	Soil	1.4	12.8	17.8	59	0.2	3.0	4.1	749	2.84	17.7	0.6	<0.5	0.1	9	0.1	0.8	0.4	48	0.03	0.100
988495	Soil	1.9	49.2	45.4	278	2.9	8.6	8.0	1322	3.82	76.1	8.7	14.9	1.1	41	1.5	2.1	0.3	40	0.56	0.209
988496	Soil	1.8	18.2	25.3	140	1.0	4.4	3.3	1508	1.80	35.9	2.5	2.7	0.9	37	0.3	1.2	0.2	31	0.46	0.142
988497	Soil	1.2	29.3	70.4	241	1.7	8.6	9.0	1275	3.43	125.4	2.2	82.7	2.4	12	0.4	4.3	0.2	33	0.15	0.134
988498	Soil	1.1	17.4	53.7	140	1.1	5.1	5.2	1508	2.16	67.4	1.3	27.0	0.5	22	0.8	1.6	0.2	29	0.18	0.141
988499	Soil	1.3	16.9	55.6	210	0.8	5.4	5.2	1162	2.61	74.6	2.0	104.3	1.0	24	0.8	2.2	0.2	34	0.25	0.216
988870	Soil	2.4	48.0	982.5	1274	3.3	10.4	14.4	1432	5.11	481.3	2.2	103.2	1.3	14	2.1	7.1	1.4	41	0.15	0.127
988871	Soil	2.2	45.3	70.7	577	1.5	8.8	6.4	628	3.67	64.1	4.7	8.1	0.5	50	3.6	2.0	0.5	37	0.58	0.180
988872	Soil	1.7	20.5	69.9	278	0.9	6.0	6.9	674	5.10	46.7	0.9	13.1	0.2	13	1.0	1.3	0.4	57	0.11	0.180
988873	Soil	1.8	23.1	86.8	262	0.6	6.2	6.0	697	4.20	54.4	0.8	4.3	0.1	14	1.0	3.3	0.5	49	0.17	0.178
988874	Soil	1.8	25.3	79.6	144	1.0	3.4	5.8	378	4.71	34.5	0.7	3.7	0.2	11	1.0	2.5	0.4	53	0.02	0.148
988875	Soil	1.4	15.0	42.2	85	0.4	4.2	5.3	576	2.70	19.2	0.6	2.6	0.1	15	0.9	1.0	0.3	52	0.05	0.157
988876	Soil	1.2	14.0	13.0	82	0.5	2.8	5.3	486	2.94	11.6	0.5	0.7	<0.1	20	0.4	0.5	0.2	48	0.11	0.159
988877	Soil	2.3	34.8	151.5	507	0.6	6.8	9.6	2047	4.33	122.0	2.0	5.0	0.3	29	2.4	4.8	0.7	36	0.22	0.279
988878	Soil	1.9	42.1	106.9	307	0.4	4.8	6.0	386	4.14	202.0	0.6	13.4	0.1	12	0.6	7.3	0.9	42	0.07	0.177
988879	Soil	2.6	21.1	102.7	316	1.0	3.6	4.8	224	3.75	119.6	1.4	5.8	0.3	20	2.0	2.5	0.4	47	0.15	0.149
988880	Soil	1.3	8.3	30.1	23	0.4	1.6	1.5	158	1.58	10.0	0.6	3.4	<0.1	7	0.2	0.3	0.3	25	0.03	0.139
988881	Soil	1.5	18.5	110.4	250	0.7	3.9	4.5	312	2.50	91.5	0.8	12.4	0.2	8	0.8	2.2	0.4	43	0.04	0.128
988882	Soil	1.6	16.4	113.8	250	1.3	4.9	4.6	465	3.26	89.9	2.3	8.0	0.2	20	1.0	1.8	0.4	42	0.17	0.200
988883	Soil	1.5	24.8	420.3	692	2.1	9.5	7.0	521	3.90	217.9	4.9	23.1	1.3	26	1.7	4.6	0.4	43	0.34	0.206
988884	Soil	1.4	18.3	58.4	367	2.5	7.0	6.0	356	3.55	127.1	2.6	15.9	0.5	26	0.6	1.7	0.3	44	0.32	0.172
988885	Soil	2.1	25.4	84.9	693	0.6	6.0	7.1	616	3.20	145.7	1.3	11.3	<0.1	37	3.5	2.2	0.6	54	0.44	0.198
988886	Soil	2.0	16.7	43.8	65	0.4	3.7	3.8	221	3.33	22.4	1.1	5.0	0.2	9	0.3	0.5	0.3	36	0.04	0.153
988887	Soil	4.0	18.8	160.6	235	3.8	7.0	3.7	448	2.91	70.5	3.4	6.0	<0.1	11	0.8	1.1	0.3	34	0.05	0.204
988888	Soil	1.3	10.0	107.8	264	0.2	4.1	2.9	323	1.85	148.0	1.0	29.9	0.6	20	0.6	2.6	0.5	27	0.21	0.131



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

**Project:** SIVI  
**Report Date:** August 31, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000183.1

Method Analyte	1DX15																	
	La ppm MDL	Cr ppm MDL	Mg % MDL	Ba ppm MDL	Ti % MDL	B ppm MDL	Al % MDL	Na % MDL	K % MDL	W ppm MDL	Hg ppm MDL	Sc ppm MDL	Tl ppm MDL	S % MDL	Ga ppm MDL	Se ppm MDL	Te ppm MDL	
988489	Soil	6	7	0.13	109	0.004	<1	1.65	0.005	0.04	<0.1	0.33	0.9	0.1	<0.05	9	0.6	<1
988490	Soil	7	4	0.08	119	0.004	<1	1.38	0.004	0.11	<0.1	0.07	1.0	0.1	<0.05	7	<0.5	<1
988491	Soil	6	5	0.08	111	0.004	1	1.32	0.005	0.04	<0.1	0.07	0.7	0.2	<0.05	9	<0.5	<1
988492	Soil	6	10	0.16	62	0.007	2	1.79	0.005	0.05	<0.1	0.11	1.1	0.1	<0.05	8	<0.5	<1
988493	Soil	6	5	0.10	80	0.005	<1	1.40	0.004	0.05	0.1	0.05	1.3	0.1	<0.05	7	<0.5	<1
988494	Soil	9	6	0.08	94	0.005	<1	1.34	0.006	0.05	<0.1	0.04	0.5	0.2	<0.05	8	<0.5	<1
988495	Soil	59	12	0.27	192	0.007	1	2.36	0.009	0.09	0.2	0.22	6.3	0.1	<0.05	7	<0.5	<1
988496	Soil	23	7	0.10	242	0.004	<1	1.69	0.006	0.07	<0.1	0.07	3.2	0.2	<0.05	5	0.5	<1
988497	Soil	19	11	0.20	140	0.003	2	2.15	0.007	0.12	<0.1	0.20	4.1	0.2	<0.05	4	<0.5	<1
988498	Soil	14	7	0.13	137	0.004	1	1.52	0.005	0.13	<0.1	0.07	1.2	0.2	<0.05	5	<0.5	<1
988499	Soil	12	7	0.15	274	0.003	2	1.87	0.007	0.12	<0.1	0.06	2.5	0.2	<0.05	5	<0.5	<1
988870	Soil	14	11	0.36	85	0.003	<1	2.35	0.009	0.09	<0.1	0.55	5.7	0.2	<0.05	6	<0.5	<1
988871	Soil	19	11	0.39	287	0.009	2	1.59	0.008	0.05	<0.1	0.11	4.4	<0.1	<0.05	6	<0.5	<1
988872	Soil	7	9	0.19	90	0.006	2	1.85	0.006	0.04	0.1	0.13	1.6	0.1	<0.05	7	0.6	<1
988873	Soil	7	8	0.13	111	0.004	1	1.42	0.005	0.05	0.2	0.09	0.8	0.1	<0.05	7	<0.5	<1
988874	Soil	7	6	0.14	129	0.004	2	1.89	0.005	0.04	<0.1	0.21	0.9	0.1	<0.05	9	<0.5	<1
988875	Soil	6	6	0.07	131	0.004	2	1.45	0.009	0.04	<0.1	0.11	0.4	0.2	<0.05	8	<0.5	<1
988876	Soil	6	4	0.11	178	0.003	2	1.60	0.007	0.05	<0.1	0.17	0.4	0.2	<0.05	8	<0.5	<1
988877	Soil	7	8	0.17	243	0.004	<1	1.71	0.009	0.12	0.1	0.08	1.3	0.2	<0.05	6	<0.5	<1
988878	Soil	8	5	0.04	66	0.003	<1	0.80	0.005	0.07	0.1	0.03	0.6	0.1	<0.05	4	<0.5	<1
988879	Soil	8	7	0.13	114	0.003	<1	2.00	0.005	0.04	0.1	0.16	1.3	<0.1	0.06	8	<0.5	<1
988880	Soil	5	4	0.07	65	0.001	<1	1.92	0.003	0.04	0.1	0.19	0.2	0.2	0.05	8	<0.5	<1
988881	Soil	7	6	0.21	88	0.001	<1	1.96	0.005	0.06	0.1	0.16	0.8	0.2	<0.05	7	<0.5	<1
988882	Soil	10	7	0.27	166	0.002	<1	2.33	0.007	0.05	0.1	0.16	0.8	0.2	0.06	7	<0.5	<1
988883	Soil	17	10	0.28	165	0.003	1	2.45	0.009	0.07	<0.1	0.23	4.1	0.2	<0.05	5	<0.5	<1
988884	Soil	10	8	0.30	118	0.003	2	2.60	0.007	0.05	<0.1	0.45	2.6	0.4	<0.05	8	<0.5	<1
988885	Soil	7	7	0.37	148	0.004	<1	1.54	0.014	0.07	<0.1	0.17	1.5	0.3	0.09	6	<0.5	<1
988886	Soil	8	7	0.21	70	0.002	1	3.48	0.004	0.03	0.1	0.71	0.7	0.2	<0.05	8	0.8	<1
988887	Soil	9	11	0.19	72	0.002	2	2.97	0.005	0.06	0.1	0.37	0.3	0.2	0.07	8	0.8	<1
988888	Soil	10	5	0.10	168	0.002	<1	1.22	0.005	0.07	0.1	0.04	0.9	0.2	<0.05	4	<0.5	<1

# CERTIFICATE OF ANALYSIS

SMI13000183.1

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 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
				ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
988889	Soil			1.6	18.3	194.8	382	0.8	4.4	3.5	339	2.53	240.5	1.4	7.2	0.2	16	0.9	4.9	0.6	35	0.18	0.133
988890	Soil			1.8	14.3	231.9	387	0.9	5.1	7.9	1619	2.65	458.6	1.2	9.9	0.2	14	1.3	20.3	1.4	30	0.09	0.159
988891	Soil			1.9	19.8	160.2	332	2.4	5.3	4.3	482	3.49	214.0	1.2	18.4	0.3	8	1.2	4.6	0.8	33	0.04	0.191
988892	Soil			2.0	16.4	147.7	238	0.3	4.7	3.3	202	3.14	198.0	0.8	30.4	1.0	6	0.5	4.5	0.9	40	0.03	0.138
990000	Soil			1.1	13.1	38.8	88	0.2	3.1	3.2	419	2.06	55.3	0.6	11.7	0.2	5	0.3	1.6	0.2	34	0.02	0.093
990001	Soil			1.4	21.1	36.7	147	0.3	7.6	6.1	547	3.25	70.4	0.9	9.4	1.2	7	0.2	2.8	0.2	43	0.05	0.132
990002	Soil			0.3	5.3	12.4	22	0.2	1.2	0.8	83	0.53	10.5	0.4	15.7	0.5	5	<0.1	0.3	0.1	17	0.02	0.083
990003	Soil			0.9	9.8	21.8	80	0.5	3.7	2.5	676	1.41	24.9	0.9	5.8	<0.1	9	0.3	0.8	0.2	31	0.05	0.124
990004	Soil			1.3	12.2	25.2	88	0.2	3.6	3.8	496	2.25	47.2	0.6	3.8	0.2	14	0.2	1.7	0.2	41	0.15	0.090
990005	Soil			0.8	12.8	30.4	195	0.2	6.1	4.8	461	2.32	60.0	0.9	11.0	1.1	25	0.4	2.2	0.2	36	0.37	0.113
990006	Soil			1.8	52.4	57.8	287	7.4	8.8	4.8	1820	2.17	94.2	26.8	22.9	1.2	80	2.4	1.6	0.2	27	1.11	0.367
990007	Soil			1.0	19.2	22.8	205	1.9	8.3	4.6	384	2.57	56.6	8.5	17.0	1.0	36	0.3	1.4	0.2	38	0.49	0.142
990008	Soil			1.1	9.2	15.9	73	0.4	5.0	3.1	186	1.39	23.7	0.7	13.4	0.1	11	0.2	0.9	0.2	31	0.06	0.085
990009	Soil			1.6	16.7	32.9	67	0.6	4.4	2.5	309	1.54	24.6	1.3	3.1	<0.1	9	0.2	0.7	0.2	33	0.04	0.130
990010	Soil			1.9	19.3	35.0	174	0.3	12.4	6.1	483	2.87	41.3	2.9	1.6	0.5	33	0.3	1.4	0.2	41	0.38	0.118
990011	Soil			1.4	34.5	64.1	199	2.7	8.8	5.6	1671	1.78	60.7	17.2	18.2	0.6	88	1.2	2.2	0.1	24	1.28	0.320
990012	Soil			1.2	21.3	59.3	183	0.2	9.6	9.1	963	2.94	93.5	2.4	8.8	1.2	25	0.3	3.7	0.2	40	0.31	0.053
990013	Soil			1.2	34.6	55.0	241	1.0	7.6	10.1	2178	3.03	55.3	4.6	1.5	1.0	65	0.6	2.4	1.2	36	0.83	0.193
990014	Soil			1.1	15.4	41.0	148	0.3	5.3	4.8	794	1.96	55.9	0.9	3.4	0.3	18	0.7	1.7	0.2	34	0.18	0.118
990015	Soil			1.0	17.8	38.1	216	0.4	6.4	5.5	637	2.23	90.6	1.6	13.3	2.5	6	0.6	3.0	0.2	21	0.09	0.079
990016	Soil			1.2	21.8	71.1	230	0.6	6.3	7.9	781	3.16	125.9	0.9	135.8	1.8	7	0.6	4.7	0.2	43	0.07	0.127
990017	Soil			1.0	18.9	45.4	194	0.3	6.6	5.6	422	2.40	88.7	1.1	7.6	0.8	9	0.4	3.4	0.2	30	0.14	0.089
990018	Soil			1.7	30.0	68.4	200	0.7	5.3	6.5	987	3.65	147.5	1.5	5.7	0.3	10	0.8	4.6	0.3	48	0.08	0.157
990019	Soil			1.3	28.4	88.4	378	1.8	9.4	9.4	1063	3.35	167.6	5.2	44.9	2.3	30	0.7	5.2	0.4	38	0.41	0.092
990020	Soil			1.0	11.9	40.1	94	0.2	3.2	4.5	647	2.46	45.1	1.2	0.8	0.3	68	0.7	1.0	0.2	43	0.81	0.108
990021	Soil			0.4	13.0	23.2	101	0.5	3.7	2.9	160	1.39	22.4	2.8	3.5	0.8	48	0.4	0.8	0.1	27	0.58	0.088
990022	Soil			1.2	29.1	25.2	117	0.3	20.1	13.2	839	3.22	63.6	0.6	4.0	0.2	31	0.4	3.1	0.2	53	0.30	0.082
990023	Soil			1.9	25.9	37.1	112	0.4	10.8	9.5	727	3.21	65.4	0.8	1.6	0.4	25	0.5	2.9	0.2	54	0.25	0.109
990024	Soil			1.7	28.9	28.8	121	1.0	11.3	7.7	471	3.65	88.3	0.6	2.7	0.4	9	0.5	4.3	0.2	57	0.06	0.104
990025	Soil			2.5	21.1	45.4	120	0.3	6.9	6.5	665	3.95	93.6	0.9	2.9	0.2	9	0.5	3.5	0.2	60	0.04	0.095



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Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** Amarc Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

**Project:** SIVI  
**Report Date:** August 31, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000183.1

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	0.1	0.05	1	0.5	1	
988889	Soil	9	5	0.09	96	0.001	<1	1.35	0.004	0.07	0.1	0.06	0.5	0.2	<0.05	7	<0.5	<1
988890	Soil	9	6	0.04	112	0.002	<1	0.86	0.004	0.09	0.1	0.04	0.5	0.3	<0.05	5	<0.5	<1
988891	Soil	9	8	0.12	59	0.003	<1	1.45	0.005	0.07	0.1	0.09	0.6	0.2	<0.05	6	<0.5	<1
988892	Soil	9	7	0.11	62	0.002	<1	1.67	0.004	0.06	0.1	0.07	1.5	0.2	<0.05	7	<0.5	<1
990000	Soil	10	5	0.05	87	0.002	<1	1.13	0.004	0.06	<0.1	0.05	0.5	0.2	<0.05	5	<0.5	<1
990001	Soil	9	9	0.20	82	0.003	<1	1.94	0.005	0.09	<0.1	0.07	2.4	0.2	<0.05	6	<0.5	<1
990002	Soil	9	3	0.03	59	0.002	<1	1.01	0.004	0.04	<0.1	0.04	0.6	0.3	<0.05	5	<0.5	<1
990003	Soil	10	6	0.10	181	0.001	<1	1.50	0.004	0.09	<0.1	0.06	0.3	0.2	<0.05	6	<0.5	<1
990004	Soil	9	5	0.08	124	0.003	<1	1.25	0.004	0.05	<0.1	0.05	0.8	0.2	<0.05	6	<0.5	<1
990005	Soil	11	8	0.25	228	0.003	<1	1.57	0.006	0.07	<0.1	0.05	2.4	0.2	<0.05	5	<0.5	<1
990006	Soil	64	9	0.17	304	0.005	2	2.49	0.006	0.10	<0.1	0.28	4.8	0.2	0.13	5	1.1	<1
990007	Soil	24	11	0.27	195	0.004	<1	2.06	0.006	0.08	<0.1	0.17	3.2	0.1	<0.05	6	<0.5	<1
990008	Soil	10	7	0.18	156	0.001	<1	1.68	0.004	0.06	0.1	0.06	0.3	0.2	<0.05	6	<0.5	<1
990009	Soil	8	9	0.12	133	<0.001	<1	2.28	0.005	0.09	0.1	0.10	0.3	0.3	<0.05	7	<0.5	<1
990010	Soil	11	13	0.33	244	0.006	1	1.97	0.006	0.07	0.1	0.08	2.0	0.1	<0.05	6	<0.5	<1
990011	Soil	49	11	0.23	215	0.007	2	1.88	0.008	0.10	0.1	0.16	3.1	0.1	0.12	3	<0.5	<1
990012	Soil	14	10	0.29	163	0.007	1	1.28	0.006	0.07	<0.1	0.06	3.2	<0.1	<0.05	4	<0.5	<1
990013	Soil	23	10	0.18	400	0.005	2	1.83	0.006	0.08	0.2	0.08	3.2	0.1	<0.05	6	<0.5	<1
990014	Soil	9	7	0.08	330	0.003	<1	1.20	0.004	0.07	0.1	0.09	1.0	0.1	<0.05	4	<0.5	<1
990015	Soil	13	6	0.15	58	0.001	<1	0.98	0.003	0.07	<0.1	0.05	1.9	<0.1	<0.05	2	<0.5	<1
990016	Soil	11	8	0.20	101	0.003	<1	1.85	0.005	0.10	<0.1	0.08	3.1	0.2	<0.05	5	<0.5	<1
990017	Soil	10	6	0.11	78	0.003	2	0.76	0.004	0.06	<0.1	0.05	1.3	0.1	<0.05	3	<0.5	<1
990018	Soil	12	9	0.15	118	0.005	2	1.84	0.005	0.07	0.1	0.15	1.4	0.1	<0.05	7	<0.5	<1
990019	Soil	18	10	0.25	192	0.003	1	1.42	0.007	0.11	0.1	0.10	4.2	0.1	<0.05	3	<0.5	<1
990020	Soil	7	5	0.10	143	0.003	1	1.17	0.005	0.06	0.1	0.08	1.0	0.1	<0.05	6	<0.5	<1
990021	Soil	12	5	0.16	201	0.002	<1	1.32	0.007	0.05	<0.1	0.09	2.5	0.2	<0.05	4	0.6	<1
990022	Soil	8	17	0.34	190	0.007	3	1.57	0.010	0.08	<0.1	0.11	2.2	0.1	<0.05	5	<0.5	<1
990023	Soil	11	13	0.21	220	0.004	2	1.85	0.006	0.09	0.1	0.09	1.8	0.2	<0.05	7	<0.5	<1
990024	Soil	7	15	0.23	98	0.004	2	2.17	0.007	0.06	0.1	0.12	1.7	0.2	<0.05	7	<0.5	<1
990025	Soil	7	11	0.13	111	0.004	2	1.93	0.005	0.06	0.1	0.09	1.0	0.2	<0.05	8	<0.5	<1



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 31, 2013

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %	
990026	Soil	1.8	29.0	42.1	242	0.5	11.1	10.3	910	3.97	158.2	3.5	4.6	0.9	31	0.6	6.5	0.2	64	0.28	0.203
990027	Soil	1.7	17.7	22.6	90	0.3	6.2	6.7	897	2.78	38.3	0.8	0.9	<0.1	26	0.4	1.3	0.3	62	0.25	0.112
990028	Soil	1.8	22.8	32.0	102	0.8	6.0	5.6	336	3.34	81.3	0.6	3.1	<0.1	10	0.4	3.6	0.2	66	0.05	0.114
990029	Soil	1.6	24.0	61.4	148	0.2	5.2	6.4	590	3.57	135.3	0.6	8.1	<0.1	10	0.6	6.2	0.3	68	0.08	0.100
990030	Soil	3.2	27.1	38.5	277	0.4	10.5	10.0	712	4.45	150.4	1.3	8.8	1.3	8	0.4	3.1	0.5	55	0.08	0.131
990031	Soil	1.4	18.6	25.7	117	0.4	5.4	5.4	325	3.53	111.3	0.6	9.0	0.7	7	0.2	3.4	0.2	62	0.06	0.080
990032	Soil	2.5	28.5	62.8	189	1.7	4.6	5.6	846	3.27	135.7	0.9	9.2	0.9	8	0.6	6.9	0.3	43	0.08	0.114
990033	Soil	2.1	19.2	50.0	123	1.5	3.8	4.6	843	2.68	69.8	0.7	15.2	0.3	7	0.4	4.5	0.2	40	0.03	0.099
990034	Soil	1.6	31.2	59.2	174	0.7	8.7	9.1	1514	2.68	70.9	1.4	20.5	2.5	6	0.4	4.7	<0.1	28	0.10	0.095
990035	Soil	1.8	16.8	55.5	105	0.7	3.6	5.1	1228	2.49	52.0	0.6	4.6	0.1	12	0.2	3.0	0.2	45	0.12	0.101
990036	Soil	1.8	10.2	32.6	69	0.8	3.2	3.1	235	2.41	42.0	0.5	3.6	0.5	6	0.2	2.4	0.2	45	0.04	0.064
990037	Soil	1.9	21.3	49.2	117	1.1	4.1	5.8	1168	2.86	54.0	0.8	2.8	0.9	9	0.4	3.2	0.2	44	0.05	0.096
990038	Soil	1.9	31.7	58.2	268	2.1	12.1	12.4	1065	4.48	78.6	5.0	21.9	1.5	48	0.6	3.5	0.2	65	0.59	0.106
990039	Soil	1.9	24.7	44.5	135	1.0	7.6	6.7	557	3.84	55.4	0.9	2.8	0.8	25	0.6	2.3	0.2	58	0.19	0.098
990040	Soil	1.7	30.6	57.7	174	0.7	9.2	11.1	1078	3.94	62.0	0.8	17.6	0.7	15	0.7	3.1	0.2	51	0.13	0.079
990041	Soil	1.4	22.4	49.8	150	0.3	6.9	7.1	654	3.15	59.8	0.5	4.1	0.5	13	0.4	1.9	0.2	45	0.09	0.076
990042	Soil	2.2	40.9	85.9	216	0.4	12.1	12.6	1001	4.76	185.0	0.8	12.0	2.0	10	0.4	9.4	0.2	63	0.05	0.046
990043	Soil	3.0	42.3	52.1	242	1.3	16.3	14.5	1057	4.45	85.7	10.7	16.4	0.9	49	0.8	3.3	0.2	64	0.60	0.112
990044	Soil	2.7	30.6	45.7	134	0.3	7.9	11.1	1268	6.85	85.9	1.1	4.8	0.9	8	0.5	3.2	0.3	79	0.06	0.332
990045	Soil	2.9	28.9	71.1	195	0.3	4.7	6.1	430	3.86	84.6	0.8	11.8	1.1	8	0.2	3.0	0.3	52	0.05	0.128
990046	Soil	2.0	27.0	70.9	210	0.8	6.8	9.3	1194	4.12	86.3	0.9	140.2	1.9	7	0.5	2.4	0.3	44	0.08	0.142
990047	Soil	1.7	20.2	44.3	129	0.8	4.8	6.6	975	3.70	71.2	0.5	10.8	0.1	10	0.2	2.9	0.3	53	0.10	0.158
990048	Soil	2.2	20.7	43.7	141	1.1	5.5	6.1	541	4.45	71.0	0.7	5.2	0.7	6	0.4	2.4	0.3	52	0.03	0.087
990049	Soil	1.8	15.6	31.6	90	0.2	3.9	4.4	325	3.96	61.6	0.6	3.8	1.0	5	0.1	2.5	0.2	58	0.02	0.112
990050	Soil	1.8	16.5	23.7	103	0.3	5.2	4.8	277	2.74	31.8	0.7	5.3	1.2	6	0.2	1.1	0.2	39	0.03	0.119
990051	Soil	1.3	14.6	22.6	54	0.2	3.5	3.1	191	1.98	31.9	0.6	5.8	0.9	6	0.1	1.3	0.2	38	0.02	0.079
990052	Soil	1.5	21.9	24.4	99	0.4	6.2	5.3	261	2.77	59.3	0.6	2.1	0.2	14	0.4	2.6	0.2	50	0.09	0.092
990053	Soil	1.7	18.2	24.3	99	0.3	5.4	5.5	483	3.11	52.3	0.5	3.3	0.5	9	0.2	2.0	0.2	53	0.03	0.084
990054	Soil	2.5	22.2	42.6	182	0.4	10.2	8.7	825	4.39	69.0	1.0	5.5	0.9	20	0.4	2.2	0.3	55	0.24	0.112
990055	Soil	1.4	27.4	36.9	211	1.0	7.5	8.4	985	3.06	43.1	8.5	7.1	1.4	65	0.8	1.5	0.2	38	1.14	0.153

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Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

Project: SIVI  
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# CERTIFICATE OF ANALYSIS

# SMI13000183.1

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	1	
990026	Soil	16	14	0.34	311	0.004	4	2.66	0.012	0.09	0.1	0.13	4.9	0.2	<0.05	7	<0.5	<1
990027	Soil	10	11	0.18	274	0.005	2	1.82	0.007	0.07	0.2	0.08	0.7	0.1	<0.05	8	<0.5	<1
990028	Soil	7	10	0.16	129	0.004	2	1.72	0.007	0.05	0.1	0.14	0.5	0.2	<0.05	8	<0.5	<1
990029	Soil	8	9	0.12	133	0.003	2	1.50	0.006	0.06	<0.1	0.08	0.6	0.3	<0.05	8	<0.5	<1
990030	Soil	10	12	0.23	233	0.003	2	3.14	0.007	0.09	0.1	0.10	3.0	0.2	<0.05	8	<0.5	<1
990031	Soil	11	8	0.16	115	0.005	2	1.84	0.005	0.08	0.1	0.05	2.0	0.3	<0.05	8	<0.5	<1
990032	Soil	10	8	0.13	189	0.001	2	2.44	0.005	0.09	0.1	0.12	1.4	0.3	<0.05	7	<0.5	<1
990033	Soil	11	6	0.09	120	0.002	1	1.76	0.005	0.07	0.1	0.07	0.5	0.3	<0.05	7	<0.5	<1
990034	Soil	13	7	0.16	253	0.002	2	2.00	0.005	0.10	<0.1	0.09	2.0	0.2	<0.05	3	<0.5	<1
990035	Soil	10	6	0.07	204	0.003	2	1.24	0.004	0.11	0.1	0.07	0.4	0.3	<0.05	6	<0.5	<1
990036	Soil	9	6	0.07	77	0.004	1	1.49	0.004	0.04	0.1	0.08	1.0	0.3	<0.05	6	<0.5	<1
990037	Soil	10	7	0.07	140	0.003	2	1.64	0.005	0.07	0.1	0.12	1.2	0.3	<0.05	6	<0.5	<1
990038	Soil	17	15	0.44	294	0.007	2	2.05	0.014	0.11	<0.1	0.15	6.3	0.2	<0.05	6	<0.5	<1
990039	Soil	10	11	0.19	274	0.003	2	2.22	0.007	0.09	0.1	0.11	2.2	0.2	<0.05	8	<0.5	<1
990040	Soil	9	11	0.27	171	0.005	2	1.77	0.008	0.07	<0.1	0.06	2.8	0.2	<0.05	5	<0.5	<1
990041	Soil	9	9	0.16	168	0.003	1	1.45	0.006	0.08	<0.1	0.07	1.9	0.2	<0.05	5	<0.5	<1
990042	Soil	9	14	0.34	188	0.003	2	3.50	0.007	0.09	<0.1	0.09	4.6	0.3	<0.05	7	<0.5	<1
990043	Soil	20	16	0.43	297	0.012	2	2.89	0.013	0.10	0.1	0.18	6.2	0.1	<0.05	6	<0.5	<1
990044	Soil	9	13	0.20	145	0.014	2	3.06	0.005	0.07	0.2	0.12	2.9	0.2	<0.05	12	<0.5	<1
990045	Soil	11	8	0.10	107	0.003	<1	1.92	0.005	0.06	0.1	0.06	2.3	0.2	<0.05	7	<0.5	<1
990046	Soil	10	10	0.20	89	0.004	<1	2.86	0.006	0.06	0.1	0.11	2.9	0.2	<0.05	6	<0.5	<1
990047	Soil	10	7	0.11	111	0.005	1	1.42	0.005	0.07	0.1	0.06	0.8	0.3	<0.05	7	<0.5	<1
990048	Soil	9	9	0.16	97	0.005	1	1.91	0.005	0.05	0.2	0.08	1.9	0.2	<0.05	7	<0.5	<1
990049	Soil	8	8	0.12	56	0.003	<1	1.95	0.004	0.04	0.2	0.07	2.1	0.2	<0.05	8	<0.5	<1
990050	Soil	10	8	0.21	88	0.003	<1	2.31	0.006	0.07	0.1	0.06	2.2	0.2	<0.05	8	<0.5	<1
990051	Soil	9	8	0.13	80	0.003	<1	2.16	0.005	0.06	<0.1	0.06	1.8	0.2	<0.05	8	<0.5	<1
990052	Soil	9	9	0.20	157	0.004	<1	1.88	0.006	0.06	0.1	0.06	0.8	0.2	<0.05	7	<0.5	<1
990053	Soil	10	8	0.13	139	0.004	<1	1.83	0.005	0.06	0.2	0.06	1.5	0.2	<0.05	7	<0.5	<1
990054	Soil	9	14	0.30	259	0.004	1	2.26	0.007	0.10	0.2	0.05	2.4	0.2	<0.05	7	<0.5	<1
990055	Soil	33	9	0.26	548	0.002	1	2.50	0.008	0.10	0.1	0.10	4.3	0.2	0.06	5	<0.5	<1

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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	U	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
990056	Soil	2.0	21.4	30.4	173	0.6	6.7	7.5	432	3.87	80.1	0.7	79.2	0.8	25	0.3	2.9	0.2	69	0.28	0.094
990057	Soil	2.5	24.5	39.6	191	0.5	6.7	8.8	1072	3.69	58.4	4.1	5.2	1.3	23	0.4	1.8	0.3	57	0.31	0.102
990058	Soil	2.0	27.1	47.0	197	0.8	7.0	9.2	2372	3.60	80.3	1.5	18.2	0.8	27	0.7	3.4	0.3	54	0.26	0.187
990059	Soil	1.4	19.0	26.6	96	0.5	5.5	6.2	614	3.19	66.0	0.3	9.3	<0.1	8	0.2	3.4	0.2	58	0.05	0.149
990060	Soil	2.2	34.9	36.9	151	0.8	8.3	10.2	657	4.05	137.9	0.7	9.8	1.9	10	0.5	7.3	0.2	54	0.11	0.134
990061	Soil	1.7	28.6	40.4	152	0.9	12.1	9.1	541	3.65	130.5	0.8	104.1	1.3	9	0.4	7.9	0.2	52	0.10	0.103
990062	Soil	1.1	16.9	35.4	140	0.3	5.0	6.2	707	2.87	59.2	0.8	9.6	0.9	14	0.6	2.5	0.2	35	0.20	0.143
990063	Soil	1.3	10.2	25.0	78	0.4	3.5	3.5	593	2.33	36.2	0.4	97.2	<0.1	8	0.2	1.3	0.2	48	0.06	0.065
990064	Soil	1.0	11.5	25.3	92	0.2	3.6	4.0	341	2.94	39.6	0.4	14.8	0.6	6	0.2	1.6	0.2	45	0.05	0.183
990065	Soil	1.1	10.7	24.4	81	0.2	4.6	3.6	330	2.65	36.7	0.4	6.2	1.0	7	0.2	1.4	0.2	43	0.06	0.108
990066	Soil	3.4	37.1	51.6	214	0.6	13.4	12.3	2916	4.14	51.3	2.2	2.2	1.5	38	0.8	1.3	0.3	61	0.48	0.168
990067	Soil	2.5	19.1	58.4	171	0.2	8.8	10.8	963	3.34	47.2	3.7	12.7	1.7	33	0.3	2.1	0.2	46	0.53	0.052
990068	Soil	7.4	15.4	25.6	86	0.1	5.0	5.5	382	3.79	39.0	0.6	2.4	0.9	17	0.3	1.7	0.3	68	0.23	0.067
990069	Soil	3.4	17.4	12.3	100	0.2	7.7	5.8	285	5.01	26.1	0.6	<0.5	1.0	18	0.3	0.9	0.2	78	0.17	0.109
990070	Soil	2.8	19.9	44.2	151	0.4	7.3	8.9	1073	3.39	53.9	5.8	5.4	2.2	20	0.6	1.7	0.2	50	0.24	0.072
990071	Soil	1.9	14.6	25.4	98	0.2	6.8	5.4	298	3.14	42.7	0.6	6.2	1.4	9	0.2	2.3	0.2	51	0.07	0.090
990072	Soil	2.5	19.6	36.0	164	0.5	9.1	7.3	953	2.94	34.0	1.7	2.7	0.5	19	0.4	1.2	0.2	46	0.20	0.136
990073	Soil	1.1	10.7	19.0	54	0.1	4.4	2.8	253	2.29	31.4	0.5	36.9	0.8	7	0.1	1.2	0.2	50	0.03	0.100
990074	Soil	2.2	12.9	24.5	121	0.2	8.1	5.4	286	2.96	39.6	0.6	23.8	1.3	9	0.2	1.1	0.1	48	0.06	0.067
990075	Soil	1.1	9.5	15.2	106	0.2	7.1	4.3	298	2.48	20.8	0.5	4.5	0.9	16	0.2	0.8	0.2	46	0.13	0.077
990076	Soil	1.6	7.7	18.9	65	0.1	3.8	3.6	185	2.70	28.6	0.4	5.9	1.2	8	<0.1	1.0	0.2	57	0.04	0.081
990077	Soil	1.3	10.2	23.2	70	0.5	3.5	3.4	223	2.76	42.3	0.4	6.6	0.2	9	0.2	1.6	0.2	51	0.05	0.102
990078	Soil	1.3	10.8	28.8	68	0.5	4.7	4.0	304	3.12	50.8	0.5	2.0	1.3	7	0.2	1.8	0.2	55	0.03	0.167
990079	Soil	1.1	14.4	18.8	79	0.4	4.3	3.7	242	2.99	56.5	0.4	4.4	<0.1	10	0.2	2.4	0.2	59	0.08	0.146
990080	Soil	0.9	21.6	31.2	153	0.5	11.5	9.9	687	3.44	67.5	6.2	10.3	1.3	47	0.3	2.6	0.3	57	0.48	0.046
990081	Soil	1.3	16.8	21.7	86	0.5	5.8	5.2	295	3.01	42.9	0.4	5.8	0.3	12	0.3	2.3	0.3	57	0.09	0.110
990082	Soil	2.5	43.9	72.2	378	2.8	12.1	10.9	2702	3.83	77.7	10.3	13.5	2.1	64	2.0	1.8	0.8	57	0.87	0.162
990083	Soil	1.5	21.2	18.9	115	0.3	8.1	7.3	278	4.19	49.3	0.5	6.8	1.5	7	0.2	2.0	0.2	56	0.06	0.097
990084	Soil	1.5	13.4	24.1	121	0.5	5.9	5.3	244	3.39	42.7	0.4	1.8	1.1	8	0.3	1.9	0.2	63	0.04	0.075
990085	Soil	1.3	15.5	41.3	142	0.3	4.0	4.9	258	3.59	95.6	0.4	8.5	1.3	6	0.3	5.1	0.4	55	0.03	0.153



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Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

Project: SIVI  
Report Date: August 31, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000183.1

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	1	
990056	Soil	9	11	0.24	381	0.004	2	2.35	0.008	0.08	<0.1	0.04	3.0	0.2	<0.05	9	<0.5	<1
990057	Soil	25	12	0.23	393	0.004	1	2.54	0.007	0.07	<0.1	0.05	4.3	0.2	<0.05	8	<0.5	<1
990058	Soil	8	10	0.14	308	0.004	2	1.96	0.006	0.12	0.1	0.06	2.9	0.2	<0.05	8	<0.5	<1
990059	Soil	6	8	0.16	109	0.005	1	1.63	0.005	0.07	0.1	0.05	1.0	0.1	<0.05	8	<0.5	<1
990060	Soil	7	10	0.28	129	0.006	4	3.68	0.006	0.05	0.1	0.13	4.9	0.2	<0.05	6	<0.5	<1
990061	Soil	10	13	0.27	95	0.009	3	2.46	0.005	0.06	0.2	0.17	4.4	0.1	<0.05	5	<0.5	<1
990062	Soil	8	6	0.17	166	0.003	1	1.13	0.005	0.09	0.1	0.07	1.5	0.1	<0.05	4	<0.5	<1
990063	Soil	8	7	0.07	105	0.004	2	1.07	0.004	0.06	0.1	0.05	0.5	0.2	<0.05	6	<0.5	<1
990064	Soil	7	5	0.11	108	0.004	2	1.29	0.004	0.05	0.1	0.07	1.5	0.1	<0.05	6	<0.5	<1
990065	Soil	7	7	0.14	77	0.004	<1	1.45	0.004	0.05	0.1	0.05	2.1	0.2	<0.05	6	<0.5	<1
990066	Soil	21	17	0.30	324	0.004	3	3.13	0.007	0.11	0.1	0.10	5.7	0.3	<0.05	9	0.6	<1
990067	Soil	12	10	0.34	294	0.003	2	1.71	0.007	0.07	<0.1	0.06	4.8	0.2	<0.05	5	<0.5	<1
990068	Soil	7	9	0.15	155	0.005	<1	2.00	0.005	0.06	0.1	0.05	2.6	0.1	<0.05	9	<0.5	<1
990069	Soil	6	11	0.24	129	0.007	2	2.16	0.005	0.05	0.2	0.07	3.0	<0.1	<0.05	10	<0.5	<1
990070	Soil	23	10	0.17	187	0.004	1	2.22	0.007	0.07	0.2	0.10	4.8	0.1	<0.05	7	<0.5	<1
990071	Soil	7	9	0.22	111	0.004	2	2.25	0.005	0.06	0.2	0.07	2.9	0.1	<0.05	6	<0.5	<1
990072	Soil	13	11	0.24	199	0.003	1	2.73	0.007	0.09	0.1	0.07	1.4	0.2	<0.05	7	<0.5	<1
990073	Soil	7	7	0.13	68	0.004	<1	1.73	0.005	0.05	0.1	0.04	1.8	0.2	<0.05	7	<0.5	<1
990074	Soil	8	10	0.24	111	0.004	<1	2.36	0.005	0.07	0.1	0.06	2.7	0.2	<0.05	8	<0.5	<1
990075	Soil	7	9	0.23	122	0.006	1	1.88	0.006	0.06	0.2	0.04	2.3	0.1	<0.05	8	<0.5	<1
990076	Soil	8	6	0.15	74	0.005	<1	1.86	0.005	0.04	0.2	0.04	2.0	0.1	<0.05	8	<0.5	<1
990077	Soil	7	6	0.10	89	0.005	<1	1.32	0.005	0.05	0.2	0.05	1.1	0.2	<0.05	6	<0.5	<1
990078	Soil	7	8	0.11	85	0.005	2	1.88	0.006	0.04	0.2	0.06	2.2	0.1	<0.05	7	<0.5	<1
990079	Soil	6	7	0.11	81	0.004	<1	1.50	0.005	0.04	0.1	0.09	0.8	0.2	<0.05	7	<0.5	<1
990080	Soil	11	13	0.36	325	0.015	2	1.63	0.011	0.08	<0.1	0.08	5.8	<0.1	<0.05	5	<0.5	<1
990081	Soil	8	8	0.13	208	0.004	<1	1.75	0.005	0.06	0.1	0.07	1.7	0.1	<0.05	7	<0.5	<1
990082	Soil	41	13	0.30	655	0.002	2	3.89	0.008	0.12	<0.1	0.20	12.6	0.3	<0.05	8	0.8	<1
990083	Soil	6	10	0.22	102	0.005	2	3.27	0.006	0.06	0.1	0.12	4.7	0.1	<0.05	7	<0.5	<1
990084	Soil	6	8	0.17	92	0.005	<1	2.05	0.005	0.05	0.1	0.07	3.3	0.1	<0.05	7	<0.5	<1
990085	Soil	10	6	0.11	95	0.002	2	1.79	0.005	0.05	0.3	0.06	2.4	0.2	<0.05	7	<0.5	<1

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.



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 31, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000183.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
990086	Soil	2.4	21.0	36.4	191	0.5	5.6	5.4	301	3.53	41.3	0.9	41.0	2.2	6	0.5	1.8	0.3	43	0.04	0.092
990087	Soil	1.4	17.3	37.1	117	0.6	5.3	5.9	277	4.32	74.6	0.5	8.4	1.3	8	0.4	3.4	0.3	64	0.05	0.154
990088	Soil	1.4	16.9	23.3	136	0.6	7.1	7.2	544	3.31	41.7	0.6	2.6	0.7	21	0.3	1.7	0.2	58	0.15	0.089
990089	Soil	0.8	14.8	24.2	86	0.3	10.6	11.0	727	2.92	32.7	0.8	5.4	1.2	32	0.3	1.7	0.1	50	0.41	0.068
990090	Soil	1.0	19.8	21.3	76	0.3	6.3	5.3	223	3.42	39.9	0.4	2.9	0.9	9	0.3	1.8	0.2	59	0.05	0.083
990091	Soil	1.3	20.0	24.2	118	0.2	8.0	7.8	367	3.72	47.8	0.6	5.7	1.8	10	0.2	2.1	0.2	60	0.08	0.084
990092	Soil	1.2	17.7	31.8	109	0.4	5.3	6.5	1567	2.74	41.8	0.5	2.3	0.1	19	0.4	1.9	0.2	51	0.17	0.111
990093	Soil	2.2	19.4	35.3	148	0.6	8.9	7.5	325	4.35	49.1	0.5	3.0	1.2	38	0.4	1.9	0.2	60	0.38	0.060
990094	Soil	1.6	13.7	25.2	93	1.3	4.3	4.0	220	3.03	53.2	0.4	3.0	0.7	15	0.3	2.3	0.2	59	0.09	0.078
990095	Soil	2.1	29.4	42.5	135	1.2	6.4	8.1	505	4.49	103.3	0.7	1.7	1.8	6	0.4	3.9	0.2	65	0.07	0.229
990096	Soil	2.3	31.5	69.7	159	0.3	7.0	9.8	666	4.64	113.6	0.9	18.5	1.9	9	0.4	5.1	0.3	58	0.09	0.121
990097	Soil	2.2	26.7	53.9	175	0.4	6.5	7.7	537	6.13	133.9	0.8	12.6	1.4	35	0.5	4.8	0.3	64	0.37	0.122
990098	Soil	1.4	11.7	23.0	58	0.4	3.1	4.0	525	1.84	24.5	0.3	2.5	<0.1	8	0.2	1.5	0.2	46	0.06	0.092
990099	Soil	2.5	16.0	26.1	97	0.1	5.0	6.2	375	3.62	28.8	0.5	<0.5	1.4	6	0.1	1.4	0.2	54	0.03	0.078
990100	Soil	1.6	13.4	22.2	63	0.7	3.4	3.9	227	3.21	42.1	0.3	3.1	0.3	7	0.1	2.3	0.2	67	0.03	0.124
990101	Soil	1.7	20.7	22.8	111	0.4	6.6	7.1	325	4.64	44.3	0.6	0.6	0.9	7	0.2	1.9	0.2	64	0.04	0.157
990102	Soil	1.7	27.2	32.5	113	0.4	5.7	5.6	461	3.61	37.2	0.6	0.8	0.6	22	0.5	1.2	0.2	65	0.22	0.124
990103	Soil	1.2	31.5	40.2	173	1.2	7.9	7.1	747	3.24	37.5	2.8	2.4	0.9	69	1.2	1.6	0.2	47	0.99	0.187
990104	Soil	1.9	27.8	60.6	198	0.3	10.4	10.8	555	4.40	74.2	1.2	23.6	1.8	11	0.3	3.0	0.2	55	0.07	0.067
990105	Soil	1.8	23.4	53.6	127	0.3	7.8	12.4	590	4.54	129.7	1.7	4.2	0.8	47	0.6	3.0	0.2	52	0.58	0.110
990106	Soil	3.1	30.5	35.3	78	0.5	4.6	6.2	246	4.56	46.2	1.2	1.0	1.0	17	0.5	2.0	0.2	50	0.13	0.094
990107	Soil	2.0	58.1	41.9	127	2.2	9.3	10.2	2025	3.46	68.9	8.3	5.2	0.9	108	1.4	2.8	0.2	52	1.31	0.214
990108	Soil	3.4	49.0	47.8	130	0.9	5.9	6.4	732	4.11	66.2	6.3	5.2	1.1	17	0.5	1.7	0.3	60	0.15	0.222
990109	Soil	1.7	17.6	40.9	133	0.5	5.2	5.6	484	4.22	77.3	0.4	1.8	1.0	14	0.2	2.5	0.2	64	0.11	0.165
990110	Soil	1.5	14.5	17.7	63	1.0	3.1	3.9	148	2.42	46.7	0.3	5.2	0.6	14	0.2	3.1	0.2	60	0.10	0.047
990111	Soil	1.2	31.7	31.5	116	0.8	6.9	7.9	360	3.50	93.5	0.5	4.7	1.4	15	0.4	3.9	0.2	48	0.17	0.124
990112	Soil	2.0	21.3	36.8	130	0.3	6.6	9.3	1192	3.27	48.2	2.1	0.8	1.1	20	0.4	1.8	0.2	51	0.20	0.073
990113	Soil	1.3	16.0	34.9	86	0.6	4.5	5.5	664	3.79	68.4	0.4	54.7	0.7	8	0.5	2.5	0.3	55	0.05	0.259
990114	Soil	1.6	15.9	29.6	105	0.3	5.4	4.9	251	4.32	82.9	0.5	1.3	1.2	8	0.2	2.5	0.2	57	0.06	0.118
990115	Soil	1.6	21.3	20.3	149	0.4	8.5	8.2	454	4.82	29.6	0.6	0.6	1.0	12	0.3	1.2	0.3	82	0.09	0.149



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Acme Analytical Laboratories (Vancouver) Ltd.

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PHONE (604) 253-3158

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SMI13000183.1

Method Analyte	Unit	1DX15	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
MDL	MDL	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
		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	1	
990086	Soil	14	9	0.14	120	0.010	1	3.05	0.011	0.06	0.4	0.13	3.5	0.2	<0.05	11	<0.5	<1
990087	Soil	7	8	0.17	121	0.005	1	1.95	0.005	0.05	0.2	0.10	3.4	0.1	<0.05	7	<0.5	<1
990088	Soil	8	9	0.24	267	0.004	2	2.13	0.007	0.06	0.1	0.09	3.3	0.1	<0.05	7	<0.5	<1
990089	Soil	11	11	0.33	214	0.019	<1	1.46	0.010	0.06	<0.1	0.08	5.5	<0.1	<0.05	4	<0.5	<1
990090	Soil	6	9	0.18	104	0.006	1	1.98	0.006	0.04	<0.1	0.10	3.4	0.1	<0.05	6	<0.5	<1
990091	Soil	7	9	0.23	133	0.005	3	2.27	0.006	0.07	0.1	0.08	3.9	0.1	<0.05	7	<0.5	<1
990092	Soil	6	6	0.10	218	0.004	2	1.28	0.005	0.10	<0.1	0.08	1.3	0.1	<0.05	5	<0.5	<1
990093	Soil	8	11	0.23	225	0.003	1	2.07	0.006	0.05	0.1	0.06	3.7	0.1	<0.05	7	<0.5	<1
990094	Soil	7	7	0.13	153	0.004	1	1.54	0.005	0.04	0.1	0.07	2.2	0.1	<0.05	7	<0.5	<1
990095	Soil	7	10	0.19	116	0.006	2	3.51	0.006	0.04	0.3	0.18	4.2	0.1	<0.05	7	<0.5	<1
990096	Soil	9	10	0.23	115	0.004	2	3.33	0.006	0.06	0.1	0.15	4.5	0.2	<0.05	6	<0.5	<1
990097	Soil	8	9	0.21	156	0.004	2	2.27	0.005	0.07	0.1	0.08	3.5	0.1	<0.05	9	<0.5	<1
990098	Soil	8	5	0.06	123	0.004	<1	0.99	0.005	0.05	0.1	0.04	0.5	0.2	<0.05	5	<0.5	<1
990099	Soil	8	7	0.17	117	0.003	2	3.00	0.007	0.05	0.2	0.06	2.9	0.1	<0.05	8	<0.5	<1
990100	Soil	8	6	0.09	64	0.004	1	1.62	0.004	0.04	0.1	0.05	1.4	0.2	<0.05	8	<0.5	<1
990101	Soil	6	10	0.24	79	0.003	2	2.55	0.005	0.07	0.1	0.10	3.8	0.1	<0.05	7	<0.5	<1
990102	Soil	8	9	0.17	240	0.003	<1	2.18	0.006	0.08	0.1	0.05	2.9	0.2	<0.05	9	<0.5	<1
990103	Soil	20	9	0.27	642	0.003	2	2.43	0.008	0.08	<0.1	0.11	5.3	0.1	<0.05	6	0.7	<1
990104	Soil	9	10	0.27	252	0.002	2	2.97	0.006	0.07	0.2	0.06	4.7	0.2	<0.05	6	<0.5	<1
990105	Soil	11	9	0.23	301	0.004	1	2.60	0.006	0.04	0.1	0.12	3.4	0.1	<0.05	5	<0.5	<1
990106	Soil	9	6	0.10	191	0.001	1	1.79	0.004	0.07	0.2	0.08	2.8	0.1	<0.05	5	<0.5	<1
990107	Soil	47	11	0.25	644	0.007	5	2.20	0.008	0.09	0.1	0.20	8.1	0.2	<0.05	6	2.5	<1
990108	Soil	13	10	0.10	304	0.003	2	1.89	0.005	0.10	0.2	0.06	4.5	0.2	<0.05	7	<0.5	<1
990109	Soil	7	7	0.15	101	0.004	1	1.94	0.005	0.06	0.2	0.07	2.7	0.1	<0.05	7	<0.5	<1
990110	Soil	8	5	0.06	109	0.006	2	1.16	0.005	0.03	0.2	0.04	1.8	0.1	<0.05	6	<0.5	<1
990111	Soil	6	7	0.22	164	0.005	2	2.42	0.006	0.05	0.1	0.12	3.6	0.1	<0.05	5	<0.5	<1
990112	Soil	14	9	0.23	436	0.002	2	2.03	0.006	0.06	0.1	0.06	4.7	0.1	<0.05	6	<0.5	<1
990113	Soil	6	8	0.14	106	0.004	1	1.71	0.006	0.06	0.1	0.08	2.1	0.2	<0.05	7	<0.5	<1
990114	Soil	7	8	0.15	104	0.005	1	2.29	0.005	0.05	0.1	0.12	2.6	0.1	<0.05	7	<0.5	<1
990115	Soil	9	12	0.28	129	0.013	<1	2.79	0.007	0.07	0.3	0.05	3.9	0.2	<0.05	11	<0.5	<1



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

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# CERTIFICATE OF ANALYSIS

SMI13000183.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
990116	Soil	1.2	19.0	28.9	142	0.3	7.1	6.4	348	3.75	57.7	0.5	2.3	1.3	12	0.2	2.4	0.2	59	0.07	0.087
990117	Soil	1.4	15.8	20.9	88	0.3	4.1	6.5	642	3.79	25.9	0.5	1.7	0.9	15	0.3	1.1	0.2	70	0.09	0.104
990118	Soil	2.1	25.4	26.6	75	0.4	4.9	8.3	293	2.91	28.7	0.8	0.5	1.1	28	0.4	1.3	0.2	59	0.34	0.046
990119	Soil	4.6	19.7	44.4	131	0.2	5.3	5.7	261	4.09	97.1	0.6	5.8	1.9	23	0.2	3.1	0.3	58	0.17	0.038
990120	Soil	3.1	12.7	14.7	60	0.1	3.0	4.6	244	2.63	25.6	0.3	<0.5	0.2	14	0.2	1.3	0.2	56	0.13	0.097
990121	Soil	1.0	9.2	12.2	59	<0.1	3.1	4.0	173	2.93	14.4	0.4	12.8	1.3	13	<0.1	0.8	0.2	59	0.10	0.120
990122	Soil	1.3	8.7	15.7	61	0.1	3.3	3.2	148	2.31	36.6	0.3	5.5	0.9	8	0.2	1.5	0.2	47	0.04	0.095
990123	Soil	1.6	15.2	26.6	123	0.5	5.7	5.7	291	3.94	48.8	0.4	6.1	1.6	6	0.5	2.1	0.2	49	0.03	0.081
990124	Soil	1.7	16.7	22.0	94	0.3	5.1	6.7	239	4.48	40.2	0.5	1.1	1.6	11	0.2	1.9	0.2	53	0.10	0.100
990125	Soil	2.9	24.5	41.2	149	0.6	7.8	10.6	1131	3.43	71.2	5.9	6.5	1.1	46	0.6	3.6	0.2	48	0.71	0.091
990126	Soil	1.3	17.7	23.9	121	0.4	6.1	8.0	446	3.31	40.6	0.5	72.8	0.9	18	0.4	1.9	0.2	45	0.24	0.054
990127	Soil	1.4	18.6	27.6	107	0.4	6.7	7.4	335	3.39	51.3	0.5	4.6	1.4	8	0.2	2.4	0.1	44	0.09	0.096
990128	Soil	1.4	8.6	17.4	66	0.1	3.0	3.3	148	2.32	30.7	0.3	3.5	0.8	8	0.1	1.7	0.2	40	0.08	0.108



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

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# CERTIFICATE OF ANALYSIS

SMI13000183.1

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	1	
990116	Soil	7	9	0.21	132	0.003	<1	2.15	0.006	0.06	0.1	0.04	3.1	0.2	<0.05	7	<0.5	<1
990117	Soil	9	7	0.13	123	0.007	<1	2.13	0.006	0.06	0.2	0.07	2.4	0.2	<0.05	9	<0.5	<1
990118	Soil	25	7	0.14	217	0.003	<1	2.25	0.007	0.05	0.2	0.04	3.3	0.1	<0.05	7	<0.5	<1
990119	Soil	7	8	0.18	181	0.004	2	1.96	0.005	0.05	0.1	0.09	3.2	0.2	<0.05	6	<0.5	<1
990120	Soil	6	4	0.07	128	0.006	<1	1.06	0.004	0.07	0.2	0.05	1.5	<0.1	<0.05	6	<0.5	<1
990121	Soil	7	5	0.16	59	0.011	<1	1.96	0.008	0.04	0.2	0.05	2.3	<0.1	<0.05	10	<0.5	<1
990122	Soil	7	5	0.09	107	0.006	<1	1.07	0.005	0.04	0.1	0.05	1.6	0.1	<0.05	6	<0.5	<1
990123	Soil	7	9	0.21	113	0.003	<1	2.10	0.005	0.04	0.1	0.11	2.7	0.1	<0.05	6	<0.5	<1
990124	Soil	7	7	0.23	94	0.003	<1	2.25	0.005	0.04	0.2	0.06	2.9	0.1	<0.05	6	<0.5	<1
990125	Soil	16	8	0.26	236	0.003	<1	1.70	0.007	0.06	0.1	0.09	4.2	0.2	<0.05	5	0.6	<1
990126	Soil	9	7	0.30	142	0.003	<1	1.42	0.005	0.05	0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<1
990127	Soil	7	7	0.28	107	0.004	1	2.00	0.005	0.05	0.1	0.06	3.0	0.1	<0.05	5	<0.5	<1
990128	Soil	7	4	0.07	79	0.004	<1	1.14	0.004	0.04	0.2	0.02	1.5	0.1	<0.05	5	<0.5	<1



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

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# QUALITY CONTROL REPORT

## SMI13000183.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
988440	Soil	1.2	12.2	20.8	108	0.3	3.1	3.7	550	2.61	39.0	0.5	67.1	<0.1	7	0.4	1.1	0.3	45	0.02	0.128
REP 988440	QC	1.1	11.5	20.3	107	0.2	3.5	3.7	546	2.63	37.3	0.5	2.2	<0.1	7	0.4	1.1	0.3	47	0.02	0.128
988443	Soil	2.1	14.1	102.6	221	0.3	4.1	4.6	648	2.88	143.6	0.9	252.6	2.0	4	0.4	3.5	0.2	17	0.07	0.113
REP 988443	QC	1.9	14.4	99.6	212	0.2	3.9	4.7	614	2.88	135.2	0.9	41.9	2.0	4	0.3	3.5	0.2	16	0.07	0.115
988476	Soil	1.3	32.2	132.3	442	1.8	11.9	10.3	1470	3.14	70.0	16.4	9.4	1.0	71	2.0	2.1	0.1	49	0.72	0.167
REP 988476	QC	1.5	32.7	131.8	440	1.8	12.1	10.7	1456	3.14	70.4	16.5	8.8	1.0	74	2.1	1.9	0.1	49	0.67	0.170
988479	Soil	1.1	35.2	126.9	630	1.9	8.6	11.3	1670	3.41	382.4	5.9	8.9	0.9	46	1.7	7.2	0.2	48	0.61	0.263
REP 988479	QC	1.3	33.9	131.1	635	1.9	8.1	10.8	1667	3.41	386.8	6.1	8.9	0.9	47	1.8	7.4	0.2	47	0.59	0.268
988878	Soil	1.9	42.1	106.9	307	0.4	4.8	6.0	386	4.14	202.0	0.6	13.4	0.1	12	0.6	7.3	0.9	42	0.07	0.177
REP 988878	QC	2.6	42.6	110.5	309	0.4	7.1	5.8	421	4.24	207.7	0.6	8.1	<0.1	12	0.7	7.7	0.9	45	0.07	0.194
990007	Soil	1.0	19.2	22.8	205	1.9	8.3	4.6	384	2.57	56.6	8.5	17.0	1.0	36	0.3	1.4	0.2	38	0.49	0.142
REP 990007	QC	0.9	19.1	22.7	204	1.9	8.3	4.7	380	2.58	54.4	8.5	24.3	1.0	34	0.3	1.5	0.2	36	0.48	0.137
990010	Soil	1.9	19.3	35.0	174	0.3	12.4	6.1	483	2.87	41.3	2.9	1.6	0.5	33	0.3	1.4	0.2	41	0.38	0.118
REP 990010	QC	1.8	18.4	34.1	173	0.3	12.3	6.2	477	2.91	42.1	2.8	32.7	0.4	34	0.3	1.3	0.2	42	0.40	0.115
990043	Soil	3.0	42.3	52.1	242	1.3	16.3	14.5	1057	4.45	85.7	10.7	16.4	0.9	49	0.8	3.3	0.2	64	0.60	0.112
REP 990043	QC	3.0	41.7	52.1	238	1.3	15.6	14.5	1067	4.36	87.0	10.6	22.1	0.9	50	0.7	3.1	0.2	64	0.61	0.107
990046	Soil	2.0	27.0	70.9	210	0.8	6.8	9.3	1194	4.12	86.3	0.9	140.2	1.9	7	0.5	2.4	0.3	44	0.08	0.142
REP 990046	QC	2.2	27.1	70.0	207	0.7	7.0	9.3	1162	4.06	83.4	0.9	5.7	1.8	7	0.4	2.3	0.3	44	0.08	0.136
990079	Soil	1.1	14.4	18.8	79	0.4	4.3	3.7	242	2.99	56.5	0.4	4.4	<0.1	10	0.2	2.4	0.2	59	0.08	0.146
REP 990079	QC	1.2	15.2	19.6	80	0.4	3.9	3.6	244	2.99	56.4	0.4	15.1	0.1	10	0.3	2.4	0.2	59	0.08	0.150
990083	Soil	1.5	21.2	18.9	115	0.3	8.1	7.3	278	4.19	49.3	0.5	6.8	1.5	7	0.2	2.0	0.2	56	0.06	0.097
REP 990083	QC	1.6	21.0	19.0	113	0.2	7.6	7.4	272	4.25	48.9	0.5	6.5	1.5	8	0.3	2.0	0.2	59	0.06	0.098
990118	Soil	2.1	25.4	26.6	75	0.4	4.9	8.3	293	2.91	28.7	0.8	0.5	1.1	28	0.4	1.3	0.2	59	0.34	0.046
REP 990118	QC	2.0	24.9	26.8	72	0.3	4.4	7.8	298	2.86	27.2	0.7	39.0	1.1	27	0.5	1.3	0.2	59	0.35	0.047
990119	Soil	4.6	19.7	44.4	131	0.2	5.3	5.7	261	4.09	97.1	0.6	5.8	1.9	23	0.2	3.1	0.3	58	0.17	0.038
REP 990119	QC	4.6	20.6	45.0	135	0.2	5.6	6.0	277	4.34	99.6	0.6	6.1	1.9	23	0.2	3.2	0.3	58	0.17	0.040
Reference Materials																					
STD DS9	Standard	14.0	110.3	124.5	333	1.9	42.1	7.5	614	2.49	27.7	2.7	134.2	6.5	73	2.5	5.9	6.3	41	0.78	0.089

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.



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

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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	1	
Pulp Duplicates																		
988440	Soil	7	7	0.09	81	0.003	<1	1.28	0.004	0.04	<0.1	0.05	0.4	0.1	<0.05	7	<0.5	<1
REP 988440	QC	7	6	0.09	83	0.004	2	1.28	0.005	0.04	<0.1	0.04	0.5	0.1	<0.05	6	<0.5	<1
988443	Soil	11	5	0.11	36	0.002	2	1.09	0.002	0.04	<0.1	0.04	1.3	0.1	<0.05	2	<0.5	<1
REP 988443	QC	10	6	0.10	36	0.002	1	0.99	0.002	0.04	<0.1	0.05	1.3	<0.1	<0.05	2	<0.5	<1
988476	Soil	19	13	0.31	301	0.006	3	1.83	0.011	0.11	<0.1	0.13	4.2	0.2	<0.05	5	<0.5	<1
REP 988476	QC	18	14	0.32	297	0.006	3	1.91	0.011	0.11	<0.1	0.14	4.4	0.2	<0.05	5	<0.5	<1
988479	Soil	25	9	0.29	154	0.007	2	2.15	0.009	0.11	<0.1	0.09	4.2	0.2	<0.05	5	<0.5	<1
REP 988479	QC	26	9	0.29	159	0.008	3	2.24	0.009	0.11	0.1	0.09	4.3	0.2	<0.05	6	<0.5	<1
988878	Soil	8	5	0.04	66	0.003	<1	0.80	0.005	0.07	0.1	0.03	0.6	0.1	<0.05	4	<0.5	<1
REP 988878	QC	9	6	0.05	66	0.004	2	0.92	0.006	0.08	0.1	0.11	1.1	0.2	<0.05	5	<0.5	<1
990007	Soil	24	11	0.27	195	0.004	<1	2.06	0.006	0.08	<0.1	0.17	3.2	0.1	<0.05	6	<0.5	<1
REP 990007	QC	25	10	0.27	195	0.004	<1	2.04	0.005	0.08	<0.1	0.15	3.0	0.1	<0.05	6	<0.5	<1
990010	Soil	11	13	0.33	244	0.006	1	1.97	0.006	0.07	0.1	0.08	2.0	0.1	<0.05	6	<0.5	<1
REP 990010	QC	11	12	0.33	238	0.006	1	1.98	0.007	0.08	<0.1	0.05	2.0	0.1	<0.05	6	<0.5	<1
990043	Soil	20	16	0.43	297	0.012	2	2.89	0.013	0.10	0.1	0.18	6.2	0.1	<0.05	6	<0.5	<1
REP 990043	QC	20	16	0.43	305	0.012	3	2.82	0.012	0.10	<0.1	0.20	6.0	0.1	<0.05	6	0.8	<1
990046	Soil	10	10	0.20	89	0.004	<1	2.86	0.006	0.06	0.1	0.11	2.9	0.2	<0.05	6	<0.5	<1
REP 990046	QC	10	10	0.20	87	0.004	1	2.82	0.006	0.06	0.1	0.11	2.8	0.2	<0.05	5	<0.5	<1
990079	Soil	6	7	0.11	81	0.004	<1	1.50	0.005	0.04	0.1	0.09	0.8	0.2	<0.05	7	<0.5	<1
REP 990079	QC	6	7	0.11	81	0.004	1	1.48	0.005	0.04	0.1	0.09	0.7	0.2	<0.05	7	<0.5	<1
990083	Soil	6	10	0.22	102	0.005	2	3.27	0.006	0.06	0.1	0.12	4.7	0.1	<0.05	7	<0.5	<1
REP 990083	QC	6	10	0.22	104	0.005	2	3.22	0.006	0.07	0.1	0.09	4.4	0.1	<0.05	7	<0.5	<1
990118	Soil	25	7	0.14	217	0.003	<1	2.25	0.007	0.05	0.2	0.04	3.3	0.1	<0.05	7	<0.5	<1
REP 990118	QC	26	7	0.14	218	0.003	<1	2.23	0.007	0.05	0.1	0.04	3.4	0.1	<0.05	7	<0.5	<1
990119	Soil	7	8	0.18	181	0.004	2	1.96	0.005	0.05	0.1	0.09	3.2	0.2	<0.05	6	<0.5	<1
REP 990119	QC	7	8	0.19	184	0.004	2	2.09	0.005	0.05	0.1	0.11	3.4	0.1	<0.05	7	<0.5	<1
Reference Materials																		
STD DS9	Standard	15	120	0.63	305	0.115	3	1.00	0.089	0.42	3.1	0.22	2.8	5.4	0.15	5	6.1	5





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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 31, 2013

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# QUALITY CONTROL REPORT

SMI13000183.1

		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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS9	Standard	12.1	107.4	127.8	315	1.8	39.3	7.2	545	2.23	26.9	2.5	113.4	5.9	66	2.3	5.6	6.2	38	0.69	0.084
STD DS9	Standard	12.0	104.8	125.9	307	1.8	36.8	7.0	560	2.25	26.0	2.4	117.2	5.9	68	2.4	5.6	6.3	37	0.74	0.080
STD DS9	Standard	15.5	122.9	123.4	313	1.8	45.3	8.9	645	2.52	25.8	2.9	117.8	6.9	74	2.6	5.6	6.3	46	0.81	0.081
STD DS9	Standard	12.8	104.0	119.4	302	1.8	39.2	7.2	546	2.19	25.0	2.6	118.1	6.5	77	2.2	5.8	6.2	39	0.67	0.080
STD DS9	Standard	13.6	109.2	127.2	317	1.9	40.4	7.7	592	2.36	24.9	2.9	121.1	7.1	83	2.5	5.9	6.3	44	0.74	0.081
STD DS9	Standard	14.1	105.4	129.3	305	1.8	39.8	7.2	560	2.24	25.7	3.0	107.5	6.0	74	2.3	6.1	6.5	40	0.68	0.083
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	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	<0.1	<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	<0.1	<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	<0.1	<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	0.6	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 31, 2013

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Part: 2 of 2

# QUALITY CONTROL REPORT

SMI13000183.1

		1DX15	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
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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	1
STD DS9	Standard	13	112	0.61	299	0.102	3	0.93	0.082	0.39	3.0	0.19	2.4	5.4	0.12	5	4.9	5
STD DS9	Standard	12	112	0.59	307	0.103	2	0.90	0.082	0.40	3.2	0.21	2.6	5.4	0.12	5	6.2	5
STD DS9	Standard	18	138	0.69	321	0.138	3	1.10	0.089	0.40	3.1	0.22	2.8	5.3	0.12	5	5.1	6
STD DS9	Standard	14	120	0.59	287	0.111	3	0.89	0.081	0.38	2.7	0.22	2.6	5.1	0.07	4	5.3	5
STD DS9	Standard	17	121	0.64	318	0.129	3	1.02	0.090	0.40	2.8	0.19	3.1	5.1	0.08	5	4.9	5
STD DS9	Standard	14	116	0.62	299	0.109	2	0.90	0.078	0.38	2.9	0.22	2.2	5.5	0.08	4	4.3	5
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	<1
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	<1
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	<1
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	<1
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	<1
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	<1
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	<1



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Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

Submitted By: ahrdata  
Receiving Lab: Canada-Smithers  
Received: August 14, 2013  
Report Date: August 31, 2013  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

SMI13000184.1

### CLIENT JOB INFORMATION

Project: SIVI  
Shipment ID: 13R05  
P.O. Number: SIVI\_SSN13R05\_Aug13  
Number of Samples: 25

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure 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
1DX2	25	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: **Amarc 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.



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 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 31, 2013

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Part: 1 of 2

# CERTIFICATE OF ANALYSIS

SMI13000184.1

Method	Analyte	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
989894	Rock	4.08	5.3	40.8	6.4	59	0.1	2.3	7.6	489	3.15	4.0	1.0	4.4	3.0	42	0.4	0.4	<0.1	48	0.86
989895	Rock	4.33	1.1	8.8	10.3	51	<0.1	5.0	6.9	701	1.92	1.7	1.7	1.2	4.2	79	<0.1	0.5	<0.1	14	2.89
989896	Rock	3.78	0.9	9.7	10.1	62	0.3	4.9	6.1	1693	1.95	14.8	2.0	3.0	4.8	33	0.2	1.4	<0.1	11	1.77
989897	Rock	4.66	0.7	6.8	6.1	44	<0.1	4.8	7.0	702	1.92	1.2	2.1	<0.5	5.0	86	0.1	0.6	<0.1	24	1.42
989898	Rock	3.53	0.1	0.7	6.8	63	<0.1	5.4	6.6	1988	1.76	5.9	1.9	1.0	4.9	27	<0.1	0.4	<0.1	9	1.63
989899	Rock	3.56	1.0	8.0	126.9	330	0.4	4.8	5.7	2820	1.93	58.2	2.3	18.8	4.6	60	1.7	1.3	<0.1	7	2.21
989950	Rock	3.52	1.5	14.1	306.7	619	0.9	5.7	6.5	1672	2.22	83.5	2.1	37.2	4.1	57	3.9	1.6	<0.1	9	1.62
989951	Rock	3.19	1.5	18.8	863.7	1153	1.2	5.4	6.2	1764	2.39	299.2	2.1	71.0	4.2	57	6.5	2.0	0.2	8	1.83
989952	Rock	4.03	1.6	40.7	1429	1242	3.1	4.5	5.8	1175	2.42	156.1	1.8	43.2	3.9	41	8.5	10.2	0.1	6	1.30
989953	Rock	5.79	1.5	38.3	3644	5490	5.9	9.1	9.6	1600	3.41	110.2	1.9	392.0	3.1	109	34.8	4.9	1.1	17	1.89
989954	Rock	6.85	2.3	60.8	1337	5982	4.5	4.2	4.9	830	3.17	481.1	1.4	103.6	3.6	17	37.7	5.6	1.5	4	0.44
989955	Rock	4.18	1.6	17.9	25.9	85	0.4	2.8	13.1	2007	3.78	15.3	0.5	3.7	1.1	127	0.3	1.9	<0.1	32	3.49
989956	Rock	3.39	1.3	22.7	8.1	59	0.2	8.4	11.5	1230	4.52	10.3	0.1	1.9	0.7	51	0.1	0.7	<0.1	46	1.79
989957	Rock	3.85	1.4	19.1	42.9	116	0.2	3.2	14.0	2196	4.17	18.6	0.3	3.4	0.8	101	0.5	0.4	<0.1	40	3.40
989958	Rock	3.80	1.6	17.0	88.2	121	0.3	2.7	13.0	2023	3.89	19.5	0.3	4.1	0.9	93	0.7	2.9	<0.1	38	3.35
989959	Rock	4.90	1.9	24.9	2741	582	7.5	4.5	4.5	1227	2.30	1227	1.5	152.9	4.0	18	4.6	589.8	1.7	7	0.60
989960	Rock	5.09	1.2	23.0	404.6	1243	1.6	6.4	5.4	1249	2.27	59.0	1.4	20.6	3.8	23	13.2	12.0	2.1	7	0.67
989961	Rock	3.81	2.1	21.1	1034	454	2.9	5.2	6.1	1525	2.11	136.3	1.4	31.9	3.9	37	3.4	21.4	1.0	8	1.18
989962	Rock	4.34	1.7	13.7	13.5	69	0.1	5.7	8.0	990	2.16	8.7	2.0	1.9	5.4	34	0.2	0.7	<0.1	13	1.13
989963	Rock	6.22	1.4	29.8	710.1	1043	1.9	4.0	5.6	3549	2.34	105.8	2.2	6.3	5.2	19	6.6	4.1	0.3	7	0.97
989964	Rock	4.11	1.5	17.8	14.9	358	0.3	6.7	6.7	971	2.15	13.0	3.0	5.5	5.1	50	2.4	1.8	0.3	14	1.49
989965	Rock	2.30	1.0	9.9	12.1	76	<0.1	8.2	7.6	853	2.09	2.1	1.7	<0.5	4.5	36	0.2	0.3	<0.1	31	0.90
987779	Rock	2.66	0.7	4.3	15.5	416	<0.1	6.7	7.9	1155	2.13	8.6	2.3	<0.5	5.7	51	1.8	0.6	<0.1	28	1.54
987780	Rock	4.20	1.4	42.9	6.2	61	0.2	10.0	20.6	1014	4.64	2.2	0.7	<0.5	1.5	148	<0.1	0.7	<0.1	144	3.03
987781	Rock	3.26	0.4	10.6	3.4	60	<0.1	1.7	9.8	830	3.21	0.7	0.8	<0.5	3.4	67	<0.1	<0.1	<0.1	56	1.96



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 31, 2013

Page: 2 of 2

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

SMI13000184.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	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		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
989894	Rock	0.094	12	3	0.69	147	0.037	5	1.42	0.092	0.21	0.2	0.02	3.4	0.1	0.47	6	0.9	<0.2
989895	Rock	0.084	19	3	0.13	345	0.001	6	0.55	0.020	0.24	<0.1	<0.01	3.1	0.1	<0.05	1	<0.5	<0.2
989896	Rock	0.075	16	3	0.06	288	<0.001	6	0.46	0.025	0.24	<0.1	<0.01	2.0	0.2	0.13	<1	<0.5	<0.2
989897	Rock	0.079	18	4	0.19	339	0.002	4	0.50	0.050	0.22	<0.1	<0.01	3.0	0.2	<0.05	1	<0.5	<0.2
989898	Rock	0.081	18	2	0.13	246	0.001	3	0.37	0.021	0.26	<0.1	0.03	2.4	0.2	<0.05	<1	<0.5	<0.2
989899	Rock	0.077	15	3	0.24	184	<0.001	2	0.40	0.021	0.26	<0.1	<0.01	2.1	0.2	0.17	<1	<0.5	<0.2
989950	Rock	0.074	12	3	0.18	155	0.001	3	0.40	0.025	0.25	<0.1	<0.01	2.3	0.2	0.41	<1	<0.5	<0.2
989951	Rock	0.074	10	3	0.26	184	0.001	2	0.42	0.011	0.27	<0.1	<0.01	2.2	0.2	0.75	1	<0.5	<0.2
989952	Rock	0.060	7	3	0.16	109	<0.001	3	0.40	0.008	0.29	<0.1	0.01	1.5	0.2	1.46	<1	<0.5	<0.2
989953	Rock	0.088	9	6	0.53	87	0.001	4	0.43	0.013	0.24	<0.1	0.04	3.4	0.2	1.93	1	<0.5	0.2
989954	Rock	0.051	6	3	0.10	85	<0.001	3	0.41	0.005	0.30	0.1	0.07	0.9	0.3	2.11	1	<0.5	0.6
989955	Rock	0.164	13	1	0.88	128	0.002	3	1.02	0.029	0.24	<0.1	0.01	3.2	0.2	0.22	3	<0.5	<0.2
989956	Rock	0.079	8	7	0.62	131	0.001	3	1.66	0.047	0.17	<0.1	<0.01	7.7	<0.1	0.22	4	<0.5	<0.2
989957	Rock	0.163	10	1	0.98	148	0.002	4	1.71	0.045	0.21	<0.1	<0.01	4.0	0.2	0.58	5	<0.5	<0.2
989958	Rock	0.162	10	1	1.11	156	0.002	3	1.78	0.045	0.23	<0.1	<0.01	3.6	0.2	0.45	5	<0.5	<0.2
989959	Rock	0.068	9	3	0.04	162	<0.001	3	0.40	0.008	0.25	<0.1	0.04	1.9	0.3	0.69	1	<0.5	0.5
989960	Rock	0.073	11	3	0.08	173	<0.001	2	0.45	0.008	0.29	<0.1	0.02	1.6	0.2	0.60	<1	<0.5	1.0
989961	Rock	0.070	10	3	0.10	263	<0.001	6	0.42	0.012	0.28	0.2	0.04	1.7	0.2	0.49	1	<0.5	0.4
989962	Rock	0.080	16	3	0.08	145	0.001	7	0.48	0.042	0.24	<0.1	<0.01	2.7	0.1	<0.05	<1	<0.5	<0.2
989963	Rock	0.074	12	2	0.04	276	<0.001	2	0.34	0.005	0.28	<0.1	0.02	1.8	0.2	0.14	<1	<0.5	<0.2
989964	Rock	0.069	11	3	0.21	151	<0.001	2	0.44	0.027	0.20	<0.1	0.01	2.0	0.1	0.67	1	<0.5	0.3
989965	Rock	0.076	16	11	0.62	75	0.002	1	1.09	0.042	0.20	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
987779	Rock	0.085	19	7	0.36	377	0.002	2	0.74	0.038	0.23	<0.1	<0.01	2.7	0.2	<0.05	3	<0.5	<0.2
987780	Rock	0.179	12	18	1.94	207	0.102	3	2.80	0.156	0.14	0.1	<0.01	11.0	<0.1	0.25	10	<0.5	<0.2
987781	Rock	0.122	10	3	0.80	66	0.157	5	2.50	0.072	0.16	0.4	<0.01	3.3	<0.1	<0.05	10	<0.5	<0.2

## QUALITY CONTROL REPORT

SMI13000184.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
REP G1-SMI	QC	<0.1	2.0	3.3	46	<0.1	3.4	4.2	558	1.87	<0.5	1.3	1.0	4.4	57	<0.1	<0.1	<0.1	36	0.55	
989951	Rock	3.19	1.5	18.8	863.7	1153	1.2	5.4	6.2	1764	2.39	299.2	2.1	71.0	4.2	57	6.5	2.0	0.2	8	1.83
REP 989951	QC		1.5	18.3	866.8	1128	1.1	4.7	5.7	1722	2.34	298.7	2.1	74.0	3.9	59	6.8	2.2	0.2	7	1.78
Core Reject Duplicates																					
989897	Rock	4.66	0.7	6.8	6.1	44	<0.1	4.8	7.0	702	1.92	1.2	2.1	<0.5	5.0	86	0.1	0.6	<0.1	24	1.42
DUP 989897	QC		0.6	6.5	6.0	45	<0.1	4.8	7.1	719	1.95	1.1	2.0	<0.5	4.9	78	0.1	0.7	<0.1	24	1.39
Reference Materials																					
STD DS9	Standard		12.1	101.9	122.3	301	1.7	40.9	7.5	578	2.27	24.1	2.6	109.2	5.8	67	2.3	6.0	6.0	42	0.73
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
BLK	Blank		<0.1	<0.1	0.3	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1-SMI	Prep Blank																				
G1-SMI	Prep Blank		0.1	1.9	3.0	43	<0.1	3.6	4.0	559	1.88	<0.5	1.2	0.7	4.3	66	<0.1	<0.1	<0.1	36	0.47
G1-SMI	Prep Blank		<0.1	2.1	3.2	44	<0.1	3.2	3.7	558	1.74	<0.5	1.2	0.6	3.9	56	<0.1	<0.1	<0.1	35	0.54



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 31, 2013

Page: 1 of 1

Part: 2 of 2

# QUALITY CONTROL REPORT

SMI13000184.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	P	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	0.001	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	0.076	9	7	0.58	243	0.113	<1	0.98	0.095	0.50	<0.1	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2
989951	Rock	0.074	10	3	0.26	184	0.001	2	0.42	0.011	0.27	<0.1	<0.01	2.2	0.2	0.75	1	<0.5	<0.2
REP 989951	QC	0.073	9	3	0.25	174	<0.001	3	0.39	0.010	0.26	<0.1	<0.01	1.7	0.2	0.75	<1	<0.5	<0.2
Core Reject Duplicates																			
989897	Rock	0.079	18	4	0.19	339	0.002	4	0.50	0.050	0.22	<0.1	<0.01	3.0	0.2	<0.05	1	<0.5	<0.2
DUP 989897	QC	0.082	19	4	0.17	314	0.002	6	0.47	0.045	0.21	<0.1	<0.01	3.3	0.1	<0.05	1	<0.5	<0.2
Reference Materials																			
STD DS9	Standard	0.079	14	119	0.59	291	0.115	2	0.92	0.081	0.40	3.1	0.18	2.6	4.9	0.17	4	4.8	5.1
STD DS9 Expected		0.0819	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	<0.001	<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	0.073	9	7	0.54	238	0.118	<1	1.01	0.121	0.54	<0.1	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	0.072	9	6	0.58	244	0.109	<1	0.98	0.094	0.50	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2



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Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

Submitted By: Ted Oliver  
Receiving Lab: Canada-Smithers  
Received: August 20, 2013  
Report Date: September 06, 2013  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

SMI13000217.1

### CLIENT JOB INFORMATION

Project: SIVI  
Shipment ID: 13R06  
P.O. Number: SIVI\_SSN13R06\_AUG19  
Number of Samples: 51

### 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: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
CANADA

CC: Eric Titley

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
1DX2	51	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DIS-RJT	51	Warehouse handling / Disposition of reject			SMI
R200-250	51	Crush, split and pulverize 250 g rock to 200 mesh			SMI

### 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.



# CERTIFICATE OF ANALYSIS

SMI13000217.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
987782	Rock	0.2	36.8	4.9	68	<0.1	10.2	13.0	931	3.62	<0.5	0.7	0.7	2.5	46	0.1	0.3	<0.1	76	0.95	0.101
987783	Rock	0.5	21.7	3.6	52	<0.1	3.5	12.9	844	3.72	0.6	0.9	<0.5	3.7	54	<0.1	<0.1	<0.1	73	1.52	0.131
987784	Rock	0.9	11.3	3.6	55	<0.1	2.1	11.1	945	3.47	1.0	1.4	0.5	4.0	61	<0.1	<0.1	<0.1	53	1.81	0.131
987785	Rock	0.3	13.9	5.5	47	<0.1	8.2	8.9	598	2.30	1.3	1.6	<0.5	4.6	49	<0.1	0.3	0.2	43	1.56	0.086
987786	Rock	0.4	10.2	2.6	92	<0.1	8.2	15.4	780	5.28	19.0	0.2	<0.5	0.5	62	0.1	0.4	<0.1	76	2.16	0.104
987787	Rock	0.4	35.4	1.2	61	<0.1	45.4	28.4	1499	5.89	0.8	0.2	<0.5	0.7	81	0.1	<0.1	<0.1	134	2.87	0.209
987788	Rock	0.3	44.7	1.3	71	<0.1	64.1	28.9	1202	4.94	3.7	0.1	<0.5	0.5	92	0.2	<0.1	<0.1	131	1.92	0.179
987789	Rock	0.8	48.4	1.1	69	<0.1	79.1	31.7	857	5.35	1.1	0.3	<0.5	0.8	86	<0.1	<0.1	<0.1	103	1.96	0.215
987790	Rock	0.2	30.5	1.8	80	<0.1	94.9	37.6	1059	6.08	1.2	0.1	<0.5	0.4	109	<0.1	<0.1	<0.1	130	3.28	0.135
988250	Rock	0.8	15.1	8.2	89	0.1	9.9	12.5	768	3.55	17.1	0.1	6.1	0.8	39	0.8	0.4	0.3	40	0.15	0.024
988251	Rock	3.7	107.2	2.4	58	0.1	10.0	17.9	737	4.06	1.5	0.2	17.3	1.0	52	<0.1	0.1	0.3	44	0.58	0.047
988252	Rock	1.2	26.8	5.3	115	0.1	10.5	18.2	1295	4.64	2.8	0.5	<0.5	1.8	83	0.4	0.2	<0.1	110	1.93	0.166
988258	Rock	0.5	76.1	16.0	32	1.2	1.4	2.2	369	0.93	59.0	9.6	<0.5	23.3	25	0.2	5.8	0.3	<2	0.44	0.027
988259	Rock	0.3	33.3	1.0	82	<0.1	21.6	31.5	1459	6.22	2.7	0.1	<0.5	0.5	74	0.1	<0.1	<0.1	149	1.62	0.221
988893	Rock	5.0	21.0	6.3	79	0.2	6.7	10.6	356	3.77	19.2	0.2	<0.5	0.6	131	0.2	0.6	0.2	92	1.83	0.136
988894	Rock	1.3	46.4	3.6	30	0.3	7.2	13.5	211	3.62	412.9	<0.1	19.0	0.3	276	0.1	0.8	0.3	55	2.73	0.091
988895	Rock	1.7	42.0	3.5	47	0.2	6.7	13.2	370	4.05	104.4	0.1	21.3	0.3	210	0.1	0.8	0.5	82	2.48	0.116
989966	Drill Core	31.7	754.1	57.6	98	0.6	6.8	9.7	547	2.81	6.9	1.9	31.8	5.1	662	0.6	1.1	0.7	20	2.35	0.090
989967	Drill Core	107.7	666.5	3.5	45	0.5	11.1	11.9	355	2.79	1.8	2.4	19.4	5.6	182	0.2	<0.1	0.3	51	1.15	0.092
989968	Drill Core	82.7	1418	5.2	48	1.1	11.7	11.7	295	2.86	7.1	2.3	82.4	6.4	94	0.2	8.3	0.6	38	1.24	0.089
989969	Drill Core	39.2	1253	12.6	47	1.1	8.3	12.8	431	2.89	34.9	1.7	44.2	4.5	248	0.2	4.0	1.0	15	2.42	0.077
989970	Rock	50.5	883.7	6.7	95	0.8	7.6	7.8	265	2.52	10.7	1.5	35.2	5.1	27	0.7	0.6	0.6	17	0.44	0.067
989971	Rock	27.1	901.3	24.4	222	0.6	8.2	7.6	310	2.59	6.2	1.6	24.2	4.7	44	1.9	2.2	0.7	21	0.71	0.071
989972	Rock	36.3	784.2	5.2	91	0.3	8.1	9.5	275	2.60	1.8	1.6	37.2	5.9	36	0.6	0.2	0.2	47	0.61	0.098
989973	Rock	74.2	1183	3.6	82	0.8	12.1	18.8	813	4.30	4.0	0.5	54.3	1.4	19	0.5	0.2	0.3	83	0.49	0.064
989974	Rock	59.0	582.5	38.1	66	0.7	6.8	10.6	304	2.64	30.3	1.3	29.4	3.2	69	0.7	1.9	0.7	18	1.28	0.073
989975	Rock	18.6	153.3	38.0	90	0.5	5.5	8.1	289	3.53	12.1	0.8	11.2	3.0	25	0.5	3.1	1.1	21	0.58	0.072
989976	Rock	2.5	77.8	168.4	308	0.5	7.9	11.8	295	3.60	7.1	1.1	4.6	4.4	25	1.7	1.9	0.6	20	0.90	0.083
989977	Rock	0.6	35.7	36.8	104	0.3	6.8	4.5	583	3.46	4.5	0.3	6.6	1.3	14	0.8	0.5	0.2	33	0.16	0.040
989978	Rock	2.4	59.2	9.6	44	0.2	4.3	3.7	252	1.06	3.0	4.2	<0.5	17.2	16	0.5	0.2	0.9	21	0.48	0.065

# CERTIFICATE OF ANALYSIS

SMI13000217.1

Method Analyte Unit MDL		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	WGHT
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Wgt
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	kg
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
987782	Rock	18	16	1.51	557	0.007	1	1.98	0.132	0.11	0.2	<0.01	6.0	<0.1	0.05	12	<0.5	<0.2	2.66
987783	Rock	12	5	1.10	208	0.105	5	1.83	0.085	0.13	<0.1	<0.01	4.4	<0.1	<0.05	9	<0.5	<0.2	2.96
987784	Rock	13	3	0.94	254	0.068	4	1.70	0.066	0.11	0.2	<0.01	3.8	<0.1	<0.05	9	<0.5	<0.2	3.04
987785	Rock	15	11	0.79	251	0.041	3	1.08	0.055	0.15	<0.1	<0.01	3.7	<0.1	<0.05	6	<0.5	<0.2	3.12
987786	Rock	6	24	1.46	42	0.005	2	2.84	0.094	0.08	<0.1	<0.01	9.8	<0.1	0.12	10	<0.5	<0.2	2.64
987787	Rock	16	68	2.42	47	0.291	4	3.79	0.226	0.02	<0.1	<0.01	14.6	<0.1	<0.05	11	<0.5	<0.2	3.51
987788	Rock	15	80	2.45	54	0.330	3	3.06	0.158	0.04	<0.1	0.03	9.6	<0.1	<0.05	10	<0.5	<0.2	3.17
987789	Rock	14	99	2.35	42	0.406	6	3.74	0.164	0.02	<0.1	<0.01	8.6	<0.1	<0.05	10	<0.5	<0.2	4.10
987790	Rock	10	135	3.22	88	0.182	3	3.85	0.084	0.08	<0.1	<0.01	12.4	<0.1	<0.05	12	<0.5	<0.2	3.12
988250	Rock	9	6	0.48	243	0.005	6	2.42	0.075	0.37	<0.1	<0.01	5.2	0.2	0.20	4	<0.5	<0.2	4.20
988251	Rock	4	7	0.85	121	0.009	1	2.88	0.197	0.36	<0.1	<0.01	4.4	0.2	1.28	6	<0.5	<0.2	3.34
988252	Rock	11	14	1.86	173	0.109	2	2.90	0.196	0.08	0.1	<0.01	9.6	<0.1	0.18	11	<0.5	<0.2	2.88
988258	Rock	12	3	0.03	72	<0.001	7	0.40	0.015	0.23	<0.1	<0.01	0.6	0.1	0.14	<1	<0.5	<0.2	2.53
988259	Rock	16	23	2.37	87	0.195	4	2.95	0.106	0.10	<0.1	<0.01	12.8	<0.1	<0.05	10	<0.5	<0.2	2.40
988893	Rock	3	17	0.82	139	0.168	2	3.30	0.317	0.65	0.2	<0.01	11.8	0.2	1.17	8	<0.5	<0.2	3.51
988894	Rock	2	15	0.48	79	0.099	3	4.98	0.693	0.28	0.2	<0.01	7.6	0.2	1.39	10	<0.5	0.2	3.65
988895	Rock	2	12	0.75	213	0.160	3	4.64	0.588	0.66	0.3	<0.01	13.4	0.4	0.90	12	<0.5	<0.2	3.02
989966	Drill Core	9	4	0.72	80	0.001	5	0.49	0.030	0.26	0.2	0.05	3.6	0.1	1.37	1	<0.5	0.2	8.89
989967	Drill Core	11	16	1.04	117	0.075	3	1.31	0.073	0.17	0.3	<0.01	4.5	<0.1	1.18	6	0.9	<0.2	2.81
989968	Drill Core	13	15	0.90	106	0.019	3	1.12	0.061	0.23	0.2	0.05	3.6	0.1	1.30	5	1.0	<0.2	2.19
989969	Drill Core	7	4	0.66	68	<0.001	6	0.43	0.026	0.27	0.2	0.14	2.8	0.2	1.53	1	1.1	0.2	4.12
989970	Rock	11	5	0.33	97	0.003	3	0.82	0.050	0.34	0.1	0.05	2.5	0.2	1.03	3	0.9	<0.2	6.86
989971	Rock	11	5	0.31	143	0.002	3	0.67	0.029	0.22	0.1	0.05	3.3	0.1	0.65	2	0.7	<0.2	5.99
989972	Rock	14	8	0.80	280	0.050	3	1.09	0.056	0.29	0.1	<0.01	4.9	0.2	0.47	5	<0.5	<0.2	5.10
989973	Rock	7	15	0.57	113	0.021	3	1.17	0.074	0.46	<0.1	0.01	5.8	0.2	1.06	4	0.8	<0.2	5.91
989974	Rock	6	4	0.37	68	0.001	3	0.61	0.038	0.28	0.1	0.06	3.6	0.2	1.20	2	1.4	0.2	7.98
989975	Rock	7	4	0.39	77	0.002	2	1.04	0.049	0.39	<0.1	0.03	2.2	0.3	1.60	2	2.4	0.3	10.40
989976	Rock	7	5	0.54	50	0.002	2	0.96	0.059	0.28	<0.1	0.05	2.1	0.2	3.00	3	1.7	0.5	5.04
989977	Rock	8	7	0.79	82	0.004	2	2.34	0.124	0.28	<0.1	<0.01	3.8	0.2	0.19	5	<0.5	<0.2	2.62
989978	Rock	13	8	0.24	84	0.055	2	0.55	0.066	0.27	0.4	<0.01	2.0	0.1	0.07	2	<0.5	0.4	2.81



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 06, 2013

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Part: 1 of 2

# CERTIFICATE OF ANALYSIS

SMI13000217.1

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	U	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	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
989979	Rock	5.6	239.0	19.3	69	0.8	8.5	13.9	494	3.71	8.8	0.8	1.6	1.1	89	0.6	0.3	4.2	79	1.22	0.060
989980	Rock	11.1	323.0	3.2	204	0.8	6.4	4.8	187	1.27	1.9	3.3	<0.5	10.8	51	1.7	0.5	0.5	29	0.56	0.108
989981	Rock	1.7	36.2	4.8	79	0.1	7.3	15.7	598	4.08	4.9	0.1	<0.5	1.0	105	0.2	0.2	0.1	91	1.67	0.105
989982	Rock	1.2	17.1	4.6	68	<0.1	7.5	10.9	419	4.35	15.5	0.1	2.6	0.4	204	<0.1	0.8	0.1	64	2.96	0.057
989983	Rock	1.4	73.7	3.3	45	0.2	6.3	31.2	301	4.57	>10000	0.9	653.7	4.1	71	0.3	16.6	5.7	55	1.02	0.102
989984	Rock	9.4	158.5	14.3	87	0.4	7.8	18.8	244	4.28	92.0	0.1	4.4	0.5	87	0.8	13.2	0.2	72	1.58	0.069
989985	Rock	4.6	89.4	2.9	25	0.2	1.5	6.9	151	1.93	31.9	0.6	5.3	3.3	61	0.1	1.7	0.2	19	1.12	0.051
989986	Rock	1.2	77.5	3.2	31	0.2	7.4	15.9	266	4.46	17.6	<0.1	4.5	0.5	87	<0.1	1.0	0.5	83	1.27	0.054
989987	Rock	1.5	47.9	2.9	87	0.1	5.2	5.6	495	1.61	9.1	0.2	3.2	0.8	98	0.9	0.9	0.2	59	2.28	0.031
989988	Rock	13.9	298.9	6.5	46	0.6	2.6	18.3	251	4.80	2.8	1.0	12.5	3.9	54	0.2	0.5	0.3	59	1.02	0.128
989989	Rock	2.1	55.8	2.3	29	0.1	7.2	13.6	406	3.58	11.7	0.2	4.2	0.7	80	<0.1	0.6	0.2	48	2.64	0.037
989990	Rock	9.4	57.3	3.1	46	0.1	6.5	12.8	487	3.89	8.3	0.3	3.8	1.0	35	<0.1	0.7	0.2	67	1.33	0.065
989991	Rock	2.7	24.8	41.1	139	0.5	2.3	7.9	1478	4.12	1101	0.8	18.3	3.2	129	1.2	12.7	0.1	37	3.66	0.117
989992	Rock	0.7	27.9	4.4	96	0.1	9.3	12.8	595	4.63	15.3	0.1	0.6	0.4	59	0.1	0.6	<0.1	72	0.94	0.044
989993	Rock	1.1	35.0	2.7	85	0.1	8.5	10.5	534	4.76	5.3	<0.1	<0.5	0.3	42	<0.1	0.6	<0.1	51	0.41	0.067
989994	Rock	1.4	34.1	4.8	71	<0.1	8.6	16.5	707	5.01	0.6	0.3	<0.5	1.0	74	<0.1	0.2	0.2	85	0.71	0.073
989995	Rock	0.9	21.4	3.8	41	<0.1	17.3	11.4	546	2.58	2.2	1.4	<0.5	3.5	92	<0.1	<0.1	<0.1	37	3.21	0.113
989996	Rock	0.3	25.7	6.3	47	<0.1	24.1	11.6	488	2.66	1.7	2.1	<0.5	4.6	59	<0.1	0.3	<0.1	68	1.14	0.108
989997	Rock	1.5	36.5	3.7	38	0.3	7.8	15.0	253	2.84	560.8	0.3	253.2	0.3	166	<0.1	0.7	4.0	53	2.34	0.209
989998	Rock	2.2	52.6	14.3	96	0.3	6.9	12.3	336	3.87	83.3	0.2	8.9	0.7	169	0.8	1.3	0.2	77	1.94	0.118
989999	Rock	3.3	62.9	20.0	162	0.5	11.7	11.3	767	4.27	4.3	0.2	10.4	1.1	49	0.8	1.0	0.1	57	1.04	0.056

# CERTIFICATE OF ANALYSIS

SMI13000217.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	WGHT
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Wgt
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	kg
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
989979	Rock	3	14	0.91	148	0.115	3	3.01	0.322	0.66	3.6	<0.01	10.6	0.5	1.04	7	0.6	1.1	2.33
989980	Rock	16	11	0.36	156	0.094	2	0.68	0.105	0.31	31.7	<0.01	1.6	0.1	0.10	3	<0.5	0.3	2.74
989981	Rock	3	13	0.59	205	0.082	2	3.93	0.261	0.39	<0.1	<0.01	8.1	0.2	0.21	9	<0.5	<0.2	2.79
989982	Rock	2	16	0.70	72	0.026	3	6.78	0.807	0.12	<0.1	<0.01	8.5	<0.1	1.03	12	<0.5	<0.2	3.38
989983	Rock	6	8	0.74	91	0.049	2	2.26	0.225	0.55	0.1	<0.01	3.6	0.3	1.43	7	0.9	0.2	3.46
989984	Rock	2	11	0.82	68	0.058	5	3.17	0.408	0.39	0.3	<0.01	8.6	0.3	1.91	8	0.7	<0.2	3.39
989985	Rock	5	5	0.35	54	0.027	2	1.47	0.216	0.18	<0.1	<0.01	2.3	<0.1	0.67	4	0.7	<0.2	3.75
989986	Rock	2	11	0.96	119	0.078	3	3.45	0.363	0.57	<0.1	<0.01	8.8	0.4	1.30	8	0.9	<0.2	4.03
989987	Rock	2	12	0.36	35	0.063	3	3.29	0.557	0.28	0.9	<0.01	6.5	0.2	0.30	7	<0.5	<0.2	3.23
989988	Rock	6	4	0.88	62	0.107	3	1.87	0.158	0.37	0.3	<0.01	4.4	0.2	2.02	8	0.8	<0.2	2.87
989989	Rock	3	9	0.55	97	0.042	4	2.90	0.325	0.35	0.1	<0.01	5.5	0.2	1.14	6	<0.5	<0.2	4.98
989990	Rock	4	10	1.04	69	0.095	3	2.10	0.111	0.33	0.1	<0.01	6.7	0.2	0.78	7	<0.5	<0.2	3.34
989991	Rock	7	3	0.71	92	0.015	5	3.83	0.354	0.20	<0.1	<0.01	3.3	0.1	0.25	8	<0.5	<0.2	3.99
989992	Rock	2	18	1.03	49	0.126	2	2.60	0.119	0.09	<0.1	0.01	7.3	<0.1	0.53	8	0.7	<0.2	3.20
989993	Rock	2	16	0.99	56	0.005	1	2.68	0.131	0.10	<0.1	<0.01	4.7	<0.1	0.97	8	0.6	<0.2	2.55
989994	Rock	9	13	1.16	164	0.162	<1	3.40	0.119	0.11	0.2	0.02	7.8	<0.1	0.19	8	0.5	<0.2	2.65
989995	Rock	11	17	0.66	352	<0.001	3	1.02	0.039	0.21	<0.1	<0.01	6.6	<0.1	<0.05	3	<0.5	<0.2	3.76
989996	Rock	15	42	1.04	107	0.170	5	1.96	0.113	0.13	0.4	0.03	5.5	<0.1	<0.05	9	<0.5	<0.2	3.35
989997	Rock	4	17	0.35	123	0.129	5	3.25	0.504	0.30	0.3	<0.01	7.3	0.1	0.55	8	0.6	0.4	4.49
989998	Rock	3	10	0.66	149	0.095	3	4.29	0.444	0.46	0.2	<0.01	9.0	0.2	1.11	9	0.8	<0.2	6.20
989999	Rock	4	13	0.81	55	0.059	3	2.10	0.163	0.23	<0.1	0.01	5.7	0.1	1.47	6	1.2	<0.2	5.38

## QUALITY CONTROL REPORT

SMI13000217.1

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	U	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
987787	Rock	0.4	35.4	1.2	61	<0.1	45.4	28.4	1499	5.89	0.8	0.2	<0.5	0.7	81	0.1	<0.1	<0.1	134	2.87	0.209
REP 987787	QC	0.4	35.9	1.2	62	<0.1	45.3	29.3	1498	5.97	0.9	0.2	<0.5	0.7	82	0.1	<0.1	<0.1	137	2.89	0.205
989977	Rock	0.6	35.7	36.8	104	0.3	6.8	4.5	583	3.46	4.5	0.3	6.6	1.3	14	0.8	0.5	0.2	33	0.16	0.040
REP 989977	QC	0.8	36.0	36.0	104	0.2	6.8	4.4	573	3.41	4.9	0.3	5.9	1.3	14	0.7	0.5	0.2	33	0.17	0.042
989990	Rock	9.4	57.3	3.1	46	0.1	6.5	12.8	487	3.89	8.3	0.3	3.8	1.0	35	<0.1	0.7	0.2	67	1.33	0.065
REP 989990	QC	8.9	54.6	2.8	44	0.1	6.9	12.3	482	3.81	8.1	0.3	2.0	0.9	33	0.1	0.7	0.2	65	1.31	0.062
989993	Rock	1.1	35.0	2.7	85	0.1	8.5	10.5	534	4.76	5.3	<0.1	<0.5	0.3	42	<0.1	0.6	<0.1	51	0.41	0.067
REP 989993	QC	1.1	33.6	2.9	82	0.1	8.6	10.1	530	4.69	5.6	<0.1	<0.5	0.3	45	0.1	0.6	<0.1	51	0.40	0.070
Core Reject Duplicates																					
989970	Rock	50.5	883.7	6.7	95	0.8	7.6	7.8	265	2.52	10.7	1.5	35.2	5.1	27	0.7	0.6	0.6	17	0.44	0.067
DUP 989970	QC	50.0	885.8	6.5	95	0.8	7.1	7.8	257	2.45	10.0	1.5	34.5	5.0	26	0.8	0.6	0.6	17	0.45	0.066
Reference Materials																					
STD DS9	Standard	12.4	110.4	131.2	313	1.8	41.5	7.9	587	2.35	25.1	2.7	122.5	6.7	68	2.7	5.9	7.0	40	0.72	0.085
STD DS9	Standard	13.9	110.3	126.8	305	1.8	38.6	7.6	587	2.35	24.8	2.8	97.8	6.7	76	2.4	5.4	6.1	41	0.77	0.079
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	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	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	0.2	1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-SMI	Prep Blank	0.1	2.4	3.2	52	<0.1	4.1	4.6	553	2.00	<0.5	1.4	1.6	5.4	61	<0.1	<0.1	<0.1	35	0.49	0.081
G1-SMI	Prep Blank	<0.1	2.2	3.0	51	<0.1	3.9	4.3	533	1.86	<0.5	1.4	<0.5	5.1	58	<0.1	<0.1	<0.1	34	0.47	0.077

## QUALITY CONTROL REPORT

SMI13000217.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	WGHT
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Wgt
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	kg
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	0.01	
Pulp Duplicates																			
987787	Rock	16	68	2.42	47	0.291	4	3.79	0.226	0.02	<0.1	<0.01	14.6	<0.1	<0.05	11	<0.5	<0.2	3.51
REP 987787	QC	16	69	2.41	46	0.309	4	3.78	0.228	0.02	<0.1	<0.01	14.1	<0.1	<0.05	11	<0.5	<0.2	
989977	Rock	8	7	0.79	82	0.004	2	2.34	0.124	0.28	<0.1	<0.01	3.8	0.2	0.19	5	<0.5	<0.2	2.62
REP 989977	QC	8	7	0.77	76	0.005	2	2.31	0.127	0.28	<0.1	<0.01	3.6	0.1	0.18	5	<0.5	<0.2	
989990	Rock	4	10	1.04	69	0.095	3	2.10	0.111	0.33	0.1	<0.01	6.7	0.2	0.78	7	<0.5	<0.2	3.34
REP 989990	QC	4	10	1.02	67	0.084	4	2.05	0.106	0.32	0.1	<0.01	6.2	0.2	0.76	7	<0.5	<0.2	
989993	Rock	2	16	0.99	56	0.005	1	2.68	0.131	0.10	<0.1	<0.01	4.7	<0.1	0.97	8	0.6	<0.2	2.55
REP 989993	QC	2	16	0.97	57	0.005	1	2.63	0.130	0.10	<0.1	<0.01	4.8	<0.1	0.96	8	<0.5	<0.2	
Core Reject Duplicates																			
989970	Rock	11	5	0.33	97	0.003	3	0.82	0.050	0.34	0.1	0.05	2.5	0.2	1.03	3	0.9	<0.2	6.86
DUP 989970	QC	11	5	0.32	94	0.003	2	0.77	0.047	0.31	<0.1	0.03	2.5	0.2	0.98	3	1.0	<0.2	
Reference Materials																			
STD DS9	Standard	13	122	0.62	286	0.106	3	0.97	0.088	0.41	3.0	0.22	2.6	5.2	0.16	4	4.7	5.0	
STD DS9	Standard	15	118	0.62	292	0.116	3	0.99	0.090	0.41	3.2	0.18	2.7	4.9	0.17	5	4.9	5.4	
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	10	9	0.57	242	0.122	1	1.02	0.107	0.52	<0.1	<0.01	2.7	0.3	<0.05	5	<0.5	<0.2	
G1-SMI	Prep Blank	9	9	0.55	222	0.110	1	0.99	0.106	0.51	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2	



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Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

Submitted By: Ted Oliver  
Receiving Lab: Canada-Smithers  
Received: August 20, 2013  
Report Date: August 30, 2013  
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## CERTIFICATE OF ANALYSIS

SMI13000218.1

### CLIENT JOB INFORMATION

Project: SIVI  
Shipment ID: 13S04  
P.O. Number: SIVI\_SSN13S04\_Aug1913  
Number of Samples: 373

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
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: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	373	Dry at 60C			SMI
SS80	373	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	373	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: SIVI  
 Report Date: August 30, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000218.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001
988896	Soil		1.4	18.6	21.9	112	0.2	7.9	9.5	588	3.81	39.4	0.2	3.5	0.8	26	0.2	3.7	0.4	45	0.36	0.075
988897	Soil		1.5	23.5	21.1	120	0.7	8.8	8.7	634	3.78	41.8	0.3	1.9	0.7	34	0.4	3.4	0.3	42	0.44	0.106
988898	Soil		1.3	27.6	22.6	134	0.4	10.7	13.3	925	3.71	38.6	0.3	1.7	0.7	39	0.9	3.6	0.2	41	0.46	0.112
988950	Soil		2.6	19.0	11.3	64	0.3	8.3	4.8	406	3.65	13.3	0.6	<0.5	0.1	23	0.4	0.4	0.2	49	0.17	0.303
988951	Soil		1.7	6.5	7.1	17	0.2	3.4	1.4	97	1.73	7.6	0.2	<0.5	<0.1	7	0.1	0.2	0.2	42	0.01	0.074
988952	Soil		2.1	15.3	8.0	90	0.1	9.0	7.7	579	3.60	9.8	0.6	2.6	0.4	33	0.2	0.3	0.1	51	0.26	0.114
988953	Soil		11.0	19.6	9.6	84	0.1	12.3	13.9	1354	4.23	15.5	5.3	<0.5	0.9	115	0.4	0.4	<0.1	49	0.53	0.051
988954	Soil		1.4	19.2	10.3	46	0.1	5.2	4.2	233	4.28	12.2	0.4	0.8	<0.1	7	0.2	0.4	0.1	61	0.02	0.134
988955	Soil		0.9	13.7	5.9	61	0.2	5.1	4.6	516	2.65	8.4	0.3	<0.5	0.2	21	0.2	0.3	0.4	46	0.11	0.148
988956	Soil		1.4	21.8	7.9	55	0.1	6.5	5.7	520	3.44	11.2	0.6	<0.5	<0.1	15	0.5	0.4	0.1	49	0.08	0.118
988957	Soil		1.2	62.2	21.5	313	0.6	9.2	7.2	259	3.94	21.5	1.1	2.0	0.6	52	0.9	0.8	0.3	49	0.29	0.109
988958	Soil		1.2	22.0	6.7	298	0.2	9.4	5.6	324	2.84	8.7	0.6	<0.5	0.2	53	0.9	0.3	0.1	48	0.40	0.109
988959	Soil		2.0	28.6	21.9	89	1.0	5.5	4.4	303	4.09	24.3	0.7	0.6	0.3	8	0.4	1.0	0.7	53	0.02	0.158
988960	Soil		2.3	24.7	15.3	51	1.4	5.0	3.4	228	2.56	12.4	0.5	0.6	<0.1	8	0.1	0.7	0.5	47	0.03	0.161
988961	Soil		1.9	500.6	117.8	198	15.1	7.8	8.4	389	4.42	19.6	9.0	29.5	0.5	23	0.7	7.7	2.7	38	0.09	0.232
988962	Soil		1.1	30.2	16.4	113	0.8	8.7	5.7	267	3.23	18.6	0.9	11.0	0.3	28	0.2	1.0	0.4	47	0.10	0.114
988963	Soil		1.7	108.5	14.5	109	0.8	8.4	5.6	254	3.39	27.3	1.0	0.6	0.2	16	0.2	2.4	0.4	44	0.09	0.060
988964	Soil		10.5	271.9	38.5	461	0.2	16.1	11.8	915	4.82	31.6	2.0	1.9	0.7	55	0.9	4.5	0.5	45	0.26	0.154
988965	Soil		5.1	116.2	27.4	219	0.6	7.5	7.3	369	4.49	65.5	1.1	7.8	0.5	9	0.4	7.4	1.0	39	0.04	0.116
988966	Soil		5.7	83.1	33.3	157	1.0	5.4	6.1	413	3.32	29.5	3.3	4.4	0.6	11	0.4	3.4	0.9	35	0.03	0.150
988967	Soil		4.1	117.1	42.2	97	0.6	5.6	4.9	348	6.11	48.1	1.5	29.2	1.0	24	1.2	4.0	1.8	38	0.16	0.145
988968	Soil		3.7	58.1	107.7	440	1.4	11.9	9.8	439	6.91	85.4	1.7	19.4	1.5	36	1.3	3.2	2.4	39	0.18	0.092
988969	Soil		2.9	235.6	204.4	673	0.7	36.1	44.3	2300	6.29	85.2	2.5	23.7	2.4	26	2.4	3.2	1.7	35	0.14	0.200
988970	Soil		4.2	169.2	1114	401	9.2	37.1	24.5	1354	7.48	93.4	2.0	120.7	0.6	49	1.3	38.7	8.3	75	0.20	0.207
988971	Soil		1.6	27.7	35.4	138	0.5	7.2	6.9	415	4.78	65.8	0.6	4.4	0.7	7	0.4	2.3	0.9	46	0.02	0.122
988972	Soil		1.1	29.0	47.1	129	0.2	8.3	6.8	408	3.89	51.3	0.4	5.9	0.3	7	0.2	1.6	0.6	47	0.02	0.099
988973	Soil		2.2	38.1	55.7	183	0.4	7.7	8.4	693	4.67	86.2	0.6	5.8	0.7	6	0.4	2.1	1.0	43	0.02	0.136
988974	Soil		1.6	75.5	103.2	114	1.6	14.1	11.5	574	4.78	42.4	1.0	37.0	1.0	9	0.4	3.3	1.0	47	0.05	0.117
988975	Soil		1.7	31.2	42.3	127	0.1	11.4	7.4	414	3.65	42.2	0.4	5.9	0.3	10	0.4	2.1	0.5	44	0.05	0.081
988976	Soil		1.5	27.1	40.2	112	0.2	11.5	5.8	543	3.71	64.6	0.7	3.5	<0.1	15	0.4	1.6	0.9	43	0.10	0.111

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
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 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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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
		La	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	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
988896	Soil	7	11	0.44	110	0.005	4	1.88	0.012	0.06	0.1	0.05	5.2	<0.1	<0.05	5	0.5	<0.2
988897	Soil	10	10	0.48	114	0.005	3	2.06	0.012	0.09	0.1	0.06	6.2	<0.1	<0.05	6	0.6	<0.2
988898	Soil	12	10	0.45	128	0.005	3	1.95	0.014	0.09	0.1	0.10	6.7	<0.1	<0.05	5	1.0	<0.2
988950	Soil	5	12	0.25	109	0.008	2	2.45	0.006	0.05	<0.1	0.10	0.8	<0.1	0.09	7	<0.5	<0.2
988951	Soil	6	6	0.07	43	0.004	1	1.09	0.005	0.04	0.1	0.05	0.5	0.1	<0.05	8	<0.5	<0.2
988952	Soil	7	12	0.37	200	0.003	1	1.90	0.009	0.08	<0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2
988953	Soil	8	15	0.49	492	0.004	2	2.20	0.014	0.05	<0.1	0.05	7.0	0.2	<0.05	6	1.5	<0.2
988954	Soil	4	10	0.20	52	0.004	2	1.96	0.006	0.04	<0.1	0.09	1.3	<0.1	<0.05	9	<0.5	<0.2
988955	Soil	5	8	0.21	128	0.003	1	1.86	0.007	0.09	<0.1	0.05	2.0	0.1	<0.05	7	<0.5	<0.2
988956	Soil	6	11	0.23	86	0.006	2	2.06	0.007	0.04	<0.1	0.06	0.8	<0.1	0.05	7	<0.5	<0.2
988957	Soil	10	12	0.36	153	0.005	2	2.16	0.009	0.06	0.1	0.09	4.7	0.1	<0.05	6	0.6	<0.2
988958	Soil	6	12	0.41	158	0.007	2	2.13	0.009	0.08	<0.1	0.05	2.4	<0.1	<0.05	7	<0.5	<0.2
988959	Soil	7	12	0.22	53	0.006	1	2.57	0.005	0.06	0.1	0.10	1.8	0.1	0.06	9	<0.5	<0.2
988960	Soil	6	10	0.19	51	0.005	1	2.08	0.006	0.05	<0.1	0.13	1.2	0.1	<0.05	8	0.8	<0.2
988961	Soil	30	13	0.25	91	0.006	1	2.78	0.008	0.07	0.2	2.16	3.1	0.3	0.12	7	1.7	0.2
988962	Soil	8	11	0.34	98	0.006	1	2.33	0.007	0.07	<0.1	0.09	2.7	0.1	<0.05	7	<0.5	<0.2
988963	Soil	11	10	0.36	110	0.009	2	2.20	0.008	0.06	<0.1	0.11	3.2	0.1	<0.05	6	0.6	<0.2
988964	Soil	8	11	0.37	164	0.006	3	2.48	0.008	0.08	<0.1	0.05	3.3	0.2	<0.05	7	1.3	<0.2
988965	Soil	7	9	0.27	66	0.006	2	2.09	0.006	0.06	<0.1	0.12	2.7	0.1	<0.05	5	0.9	0.3
988966	Soil	16	8	0.20	85	0.005	1	2.09	0.007	0.09	<0.1	0.12	3.7	0.2	0.06	6	0.7	<0.2
988967	Soil	6	9	0.20	46	0.008	1	2.61	0.006	0.04	0.1	0.18	2.1	<0.1	0.08	7	1.7	0.7
988968	Soil	11	12	0.35	145	0.003	2	1.96	0.008	0.08	0.1	0.15	5.3	<0.1	<0.05	5	1.1	0.6
988969	Soil	13	15	0.28	76	0.006	2	3.45	0.007	0.07	0.1	0.13	5.9	0.2	0.09	5	2.1	0.4
988970	Soil	20	55	0.74	174	0.029	2	2.41	0.029	0.09	<0.1	0.32	4.1	0.1	0.11	5	2.1	1.4
988971	Soil	8	11	0.30	67	0.004	2	2.46	0.006	0.08	0.1	0.06	2.8	0.2	<0.05	7	<0.5	0.4
988972	Soil	7	12	0.31	50	0.007	1	2.22	0.005	0.06	0.1	0.05	2.0	0.1	<0.05	7	<0.5	<0.2
988973	Soil	8	13	0.29	55	0.006	<1	2.67	0.005	0.05	0.2	0.08	2.2	0.1	<0.05	8	0.7	0.4
988974	Soil	8	15	0.31	53	0.007	1	2.28	0.005	0.04	0.1	0.09	3.2	0.1	<0.05	6	0.7	0.4
988975	Soil	7	14	0.30	50	0.008	1	2.00	0.005	0.05	<0.1	0.07	2.4	0.1	<0.05	5	<0.5	0.3
988976	Soil	8	15	0.25	82	0.006	<1	1.64	0.005	0.06	0.1	0.05	0.7	0.1	<0.05	8	0.5	0.4

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 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
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# CERTIFICATE OF ANALYSIS

SMI13000218.1

Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	
	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
988977	Soil	2.6	95.7	2064	543	9.0	5.4	10.8	1758	6.44	1715	2.3	195.3	1.3	10	1.2	14.4	5.0	29	0.04	0.279
988978	Soil	1.0	15.4	38.3	63	0.3	6.9	3.2	173	2.64	45.6	0.6	<0.5	0.1	10	0.2	0.9	0.4	43	0.04	0.070
988979	Soil	1.7	17.9	43.4	144	0.5	4.9	3.3	210	2.71	76.4	1.1	7.1	0.8	9	0.4	1.3	1.3	34	0.06	0.102
988980	Soil	2.5	55.4	243.3	444	2.1	4.0	5.3	470	5.59	471.5	1.2	3262	0.5	6	0.4	6.5	3.2	39	0.01	0.200
988981	Soil	0.9	19.9	113.6	168	0.5	2.7	2.1	218	2.45	237.0	1.1	<0.5	0.6	6	0.5	2.5	1.8	33	0.03	0.144
988982	Soil	1.4	57.2	159.0	417	1.4	5.4	6.0	415	4.85	221.3	2.1	60.9	2.6	5	0.7	4.2	2.0	33	0.02	0.184
988983	Soil	2.2	50.0	95.3	366	1.5	7.7	8.2	1121	5.02	144.2	2.5	10.2	0.7	8	0.9	3.4	1.9	44	0.03	0.181
988984	Soil	1.8	40.0	82.3	349	0.6	4.9	4.7	558	3.62	186.3	1.9	4.5	0.4	7	0.9	4.6	1.6	37	0.02	0.157
988985	Soil	1.6	16.7	53.0	174	0.5	3.6	2.5	468	2.56	84.8	0.9	8.1	0.2	7	0.5	2.0	1.5	31	0.01	0.139
988986	Soil	2.2	12.4	9.4	46	0.2	4.5	4.0	227	2.62	32.2	0.2	3.6	0.2	6	0.1	3.1	0.3	94	0.03	0.025
988987	Soil	1.7	18.0	12.4	84	0.7	7.0	5.5	435	3.09	27.4	0.5	1.8	0.3	31	0.3	2.0	0.2	46	0.34	0.080
988988	Soil	2.7	27.6	13.6	118	1.0	9.4	6.8	1014	3.45	29.1	0.7	3.2	0.6	44	0.4	1.7	0.2	47	0.48	0.147
988989	Soil	1.5	19.7	13.1	64	1.3	6.7	6.2	476	4.41	36.3	0.3	3.7	0.3	22	0.3	2.2	0.2	64	0.27	0.077
988990	Soil	2.7	32.9	15.5	85	2.0	7.9	14.6	3509	3.75	39.3	1.6	4.8	0.8	28	1.2	1.6	0.2	35	0.34	0.135
988991	Soil	2.7	34.0	22.2	129	1.2	15.0	13.7	1664	4.02	46.9	3.8	4.2	0.9	108	1.5	1.6	0.2	41	1.46	0.129
988992	Soil	2.4	21.8	26.3	205	0.5	13.6	13.2	3085	4.11	42.3	0.5	4.4	0.8	75	0.7	2.3	0.3	53	0.89	0.142
988993	Soil	1.8	28.1	21.1	131	1.7	10.8	10.0	1617	3.50	31.7	0.8	3.7	0.6	37	0.5	3.2	0.1	46	0.36	0.136
988994	Soil	1.8	25.9	23.9	61	0.4	4.9	4.1	257	6.64	45.2	0.3	2.8	0.5	7	0.3	3.8	0.2	69	0.04	0.111
988995	Soil	1.8	16.3	28.4	55	0.3	5.5	3.8	236	6.37	38.0	0.4	1.2	0.8	7	0.7	3.4	0.2	57	0.04	0.048
988996	Soil	1.3	16.2	20.2	51	0.3	4.7	3.0	148	4.03	29.4	0.3	3.9	0.8	7	0.4	2.3	0.2	43	0.06	0.053
988997	Soil	2.2	18.3	26.0	104	0.7	6.4	5.0	442	4.03	44.1	0.4	2.8	0.4	51	0.3	3.6	0.2	59	0.65	0.102
988998	Soil	1.3	11.2	11.9	32	0.2	3.2	2.2	98	2.88	21.3	0.3	2.1	0.4	9	0.2	1.4	0.3	44	0.04	0.048
988999	Soil	2.7	17.8	25.0	142	0.7	9.3	13.2	1673	4.49	44.6	0.5	2.0	0.7	99	0.8	2.4	0.2	54	0.72	0.101
990129	Soil	1.7	10.8	41.5	145	0.1	4.5	3.4	258	2.03	76.2	0.7	17.3	0.9	10	0.3	2.0	0.3	35	0.06	0.093
990130	Soil	2.5	10.3	39.7	125	0.1	3.2	5.7	1054	2.32	36.4	1.1	3.6	1.4	45	0.5	0.7	0.2	35	0.55	0.164
990131	Soil	2.6	18.0	9.3	59	<0.1	5.3	16.4	1016	5.59	13.3	2.4	<0.5	2.8	52	0.1	1.5	<0.1	23	0.64	0.160
990132	Soil	2.7	14.2	37.7	137	0.2	4.6	10.6	1251	3.74	30.0	1.7	116.3	2.0	39	0.4	1.1	0.1	36	0.56	0.179
990133	Soil	2.1	27.8	49.1	184	<0.1	7.3	14.5	1315	4.02	40.2	1.8	4.9	2.1	13	0.4	2.7	0.2	44	0.22	0.142
990134	Soil	2.3	12.4	85.0	214	0.1	5.3	6.2	733	4.39	93.2	0.9	5.6	1.7	5	0.3	2.7	0.4	43	0.03	0.093
990135	Soil	1.9	15.5	24.8	103	<0.1	3.8	5.7	525	3.06	37.8	0.5	4.5	0.6	10	0.3	1.5	0.3	52	0.06	0.113

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000218.1

Method	Analyte	1DX15	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	
988977	Soil	10	6	0.08	70	0.003	<1	1.08	0.005	0.06	0.2	0.22	2.1	0.5	0.11	3	1.2	3.0
988978	Soil	6	12	0.18	41	0.007	<1	1.76	0.004	0.03	<0.1	0.07	1.0	0.1	<0.05	7	<0.5	<0.2
988979	Soil	7	8	0.18	50	0.003	<1	1.54	0.004	0.04	<0.1	0.05	1.7	0.2	<0.05	5	<0.5	0.5
988980	Soil	12	6	0.03	33	0.004	<1	0.88	0.003	0.04	0.1	0.05	1.2	0.2	<0.05	4	<0.5	1.3
988981	Soil	9	6	0.15	43	0.002	<1	1.27	0.005	0.06	<0.1	0.03	0.9	0.2	<0.05	5	<0.5	0.5
988982	Soil	8	6	0.16	40	0.001	<1	1.55	0.005	0.05	0.1	0.06	2.5	0.2	<0.05	3	<0.5	1.2
988983	Soil	10	9	0.18	57	0.004	2	1.55	0.005	0.04	<0.1	0.10	1.3	0.2	<0.05	5	<0.5	1.0
988984	Soil	10	8	0.14	53	0.003	3	1.31	0.005	0.05	0.2	0.06	0.7	0.2	<0.05	7	0.9	0.4
988985	Soil	11	6	0.08	54	0.003	1	1.02	0.006	0.06	0.2	0.05	0.2	0.2	<0.05	10	0.6	0.3
988986	Soil	7	7	0.07	40	0.008	2	1.20	0.006	0.03	0.2	0.02	3.1	<0.1	<0.05	10	<0.5	<0.2
988987	Soil	8	10	0.26	113	0.005	2	1.75	0.010	0.06	0.1	0.05	3.7	<0.1	<0.05	7	0.9	<0.2
988988	Soil	8	13	0.32	173	0.003	3	2.59	0.011	0.08	0.2	0.10	4.5	0.1	<0.05	7	<0.5	<0.2
988989	Soil	7	11	0.34	86	0.010	1	1.89	0.009	0.05	0.2	0.07	3.3	<0.1	<0.05	9	0.6	<0.2
988990	Soil	24	12	0.25	119	0.003	1	2.84	0.010	0.06	0.2	0.26	8.5	0.1	<0.05	5	0.9	<0.2
988991	Soil	23	13	0.43	204	0.002	<1	2.96	0.016	0.07	0.2	0.21	10.6	0.2	<0.05	6	1.4	<0.2
988992	Soil	11	15	0.36	252	0.003	3	2.77	0.013	0.09	0.1	0.07	7.2	0.2	<0.05	8	<0.5	<0.2
988993	Soil	12	15	0.42	150	0.004	3	2.84	0.011	0.08	0.2	0.15	6.1	0.2	<0.05	7	0.6	<0.2
988994	Soil	5	13	0.20	56	0.011	3	1.75	0.007	0.04	0.2	0.11	4.0	<0.1	<0.05	9	<0.5	<0.2
988995	Soil	6	13	0.22	74	0.010	3	2.27	0.006	0.04	0.2	0.13	4.3	<0.1	<0.05	9	<0.5	<0.2
988996	Soil	5	12	0.20	65	0.005	2	3.37	0.006	0.03	0.2	0.16	4.4	<0.1	<0.05	6	1.0	<0.2
988997	Soil	7	10	0.25	146	0.005	3	2.16	0.010	0.06	0.1	0.07	4.7	<0.1	<0.05	8	<0.5	<0.2
988998	Soil	5	8	0.12	64	0.005	3	1.36	0.006	0.03	0.2	0.10	2.4	<0.1	<0.05	8	<0.5	<0.2
988999	Soil	12	13	0.38	214	0.002	3	2.64	0.012	0.09	0.1	0.06	7.1	0.1	<0.05	7	<0.5	<0.2
990129	Soil	9	6	0.14	94	0.003	2	1.38	0.004	0.05	0.2	0.75	1.5	0.2	<0.05	5	<0.5	<0.2
990130	Soil	12	5	0.21	217	0.002	2	1.77	0.005	0.09	<0.1	0.04	2.3	0.2	<0.05	6	0.5	<0.2
990131	Soil	20	2	0.17	609	<0.001	3	1.20	0.005	0.12	0.2	0.04	7.9	0.2	<0.05	3	<0.5	<0.2
990132	Soil	16	5	0.31	187	0.002	2	1.75	0.005	0.14	0.1	0.05	4.7	0.1	<0.05	6	1.0	<0.2
990133	Soil	17	7	0.44	129	0.002	1	1.60	0.006	0.08	0.2	0.04	4.4	0.1	<0.05	5	<0.5	<0.2
990134	Soil	10	9	0.24	67	0.005	1	1.95	0.006	0.05	0.2	0.07	2.0	0.2	<0.05	8	<0.5	<0.2
990135	Soil	8	6	0.09	137	0.003	2	1.55	0.006	0.05	0.1	0.03	1.7	0.1	<0.05	7	0.7	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
990136	Soil	3.1	32.5	20.9	134	0.3	6.0	12.3	668	5.00	41.9	0.5	3.2	0.8	12	0.3	8.4	0.4	49	0.07	0.117
990137	Soil	2.0	30.8	67.6	285	0.7	9.0	14.5	967	3.83	66.6	1.9	10.6	1.9	43	0.7	3.2	0.4	41	0.41	0.077
990138	Soil	1.8	32.8	36.1	178	0.2	6.9	10.6	647	4.79	64.9	0.7	5.6	1.5	7	0.5	2.5	0.3	48	0.03	0.151
990139	Soil	4.7	41.7	55.0	333	1.5	9.3	12.0	667	5.82	114.7	1.9	9.7	1.8	29	0.7	2.9	0.7	56	0.32	0.095
990140	Soil	1.8	35.6	39.9	289	0.4	9.0	9.8	557	5.06	85.3	0.9	3.6	1.8	16	0.6	2.8	0.5	53	0.08	0.097
990141	Soil	1.8	12.8	25.7	110	0.1	4.1	4.7	300	3.33	42.9	0.4	3.5	0.7	15	0.4	1.7	0.4	58	0.08	0.072
990142	Soil	2.3	37.4	16.6	73	0.4	7.9	10.2	460	7.75	30.1	3.1	1.8	1.6	32	0.5	1.3	0.3	85	0.24	0.138
990143	Soil	1.4	17.4	19.1	74	<0.1	4.2	6.0	246	3.27	23.5	0.4	2.1	1.2	9	<0.1	2.7	0.2	51	0.06	0.103
990144	Soil	1.7	33.9	88.3	144	0.2	9.1	16.8	1299	4.34	52.6	2.1	5.5	1.6	51	0.4	3.6	0.2	44	0.53	0.111
990145	Soil	1.4	10.3	11.0	45	<0.1	2.3	4.0	211	2.56	9.0	0.3	1.2	0.9	7	<0.1	1.3	0.1	50	0.06	0.089
990146	Soil	2.5	23.9	29.0	132	0.2	6.3	12.2	1550	3.68	25.9	3.3	3.5	2.4	62	0.3	1.5	0.2	47	0.68	0.075
990147	Soil	2.4	11.9	17.3	93	0.2	7.0	5.9	274	3.34	21.7	0.8	3.2	1.7	42	0.2	0.8	0.1	45	0.34	0.076
990148	Soil	1.9	16.3	29.7	137	0.2	5.6	6.3	446	4.48	33.5	0.6	<0.5	1.4	11	0.3	1.2	0.2	63	0.07	0.098
990149	Soil	1.4	8.4	22.6	68	0.2	3.7	4.1	281	2.39	15.8	0.4	2.2	0.6	12	0.1	1.0	0.2	40	0.07	0.083
990150	Soil	3.1	7.7	25.4	90	0.1	3.2	4.1	263	2.47	29.1	0.4	3.7	0.5	17	<0.1	0.9	0.2	43	0.18	0.069
990151	Soil	3.9	19.6	52.5	148	0.5	7.8	13.4	1033	3.07	40.3	3.4	1.9	1.3	64	0.8	2.0	0.2	40	0.77	0.051
990152	Soil	1.6	16.3	18.1	118	0.2	4.8	6.7	687	4.28	17.6	0.3	<0.5	1.0	14	0.2	0.8	0.2	52	0.12	0.115
990153	Soil	1.8	9.7	16.1	64	0.2	2.8	4.1	233	2.59	16.5	0.5	<0.5	0.9	12	<0.1	1.0	0.2	38	0.11	0.111
990154	Soil	2.1	18.1	14.4	99	<0.1	3.9	8.6	410	4.63	15.2	1.0	0.8	1.7	11	0.2	1.7	0.1	53	0.10	0.202
990155	Soil	1.9	12.9	42.8	135	0.1	4.7	5.5	362	3.15	55.6	0.8	20.6	2.1	10	<0.1	1.7	0.1	39	0.11	0.063
990156	Soil	3.1	10.4	18.0	76	0.1	3.4	7.6	735	3.12	14.6	0.8	0.7	1.4	14	<0.1	0.7	0.1	41	0.22	0.109
990157	Soil	2.3	14.5	25.8	90	0.2	4.0	7.9	1352	2.91	16.9	1.3	2.6	1.4	36	0.2	0.6	0.1	41	0.53	0.168
990158	Soil	1.0	5.4	18.2	78	0.1	3.0	2.6	220	1.58	27.9	0.5	6.9	1.0	8	0.1	0.8	0.1	28	0.06	0.076
990159	Soil	1.6	14.7	30.3	137	0.7	8.0	6.0	1131	4.51	51.9	0.7	3.4	0.8	14	0.5	2.1	0.2	55	0.09	0.247
990160	Soil	2.6	39.1	24.6	100	1.5	10.1	5.4	737	2.69	42.3	1.5	3.7	0.2	72	0.8	2.0	0.2	50	0.97	0.090
990161	Soil	3.4	30.6	27.0	202	1.0	14.0	12.9	1515	3.33	65.0	13.5	1.1	0.5	121	1.1	3.2	0.2	60	1.60	0.124
990162	Soil	2.8	21.7	23.9	122	0.2	16.8	12.4	482	3.76	44.7	1.2	5.0	1.4	47	0.2	2.1	0.1	59	0.39	0.033
990163	Soil	2.3	16.0	16.9	136	0.2	13.3	8.4	435	3.61	35.5	0.5	2.1	0.9	42	0.2	1.7	0.1	58	0.41	0.054
990164	Soil	3.2	24.8	19.8	84	0.3	7.2	5.3	447	4.72	37.8	0.5	2.0	0.8	19	0.1	1.9	0.2	76	0.14	0.055
990165	Soil	1.3	8.0	9.4	67	0.1	5.3	3.7	233	2.15	14.8	0.3	2.2	0.1	19	0.2	1.2	0.2	48	0.16	0.050

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 PHONE (604) 253-3158

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Method	Analyte	1DX15	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	
990136	Soil	9	6	0.14	101	<0.001	2	1.88	0.005	0.07	0.5	0.05	4.6	0.1	<0.05	5	<0.5	<0.2
990137	Soil	15	9	0.43	151	0.002	2	1.95	0.011	0.08	<0.1	0.08	6.9	0.1	<0.05	4	0.6	<0.2
990138	Soil	10	7	0.32	93	0.001	2	2.63	0.006	0.06	0.2	0.07	4.3	0.1	<0.05	6	0.8	<0.2
990139	Soil	20	10	0.28	166	0.002	2	2.63	0.007	0.07	0.1	0.12	5.7	0.1	<0.05	7	0.7	0.3
990140	Soil	13	10	0.38	158	0.002	<1	2.64	0.008	0.08	0.1	0.06	5.0	0.1	<0.05	7	<0.5	0.4
990141	Soil	7	6	0.09	128	0.004	1	1.45	0.007	0.04	0.2	0.03	2.1	0.1	<0.05	7	<0.5	<0.2
990142	Soil	23	14	0.25	185	0.004	3	2.81	0.008	0.04	0.3	0.13	5.2	<0.1	<0.05	9	1.4	<0.2
990143	Soil	10	6	0.12	101	0.002	3	1.37	0.006	0.05	0.2	0.02	2.4	0.2	<0.05	6	<0.5	0.3
990144	Soil	22	10	0.37	178	0.002	2	1.81	0.008	0.05	0.2	0.08	5.0	0.1	<0.05	4	1.7	<0.2
990145	Soil	8	4	0.08	58	0.002	2	1.30	0.005	0.06	0.2	0.05	1.7	<0.1	<0.05	6	<0.5	<0.2
990146	Soil	22	12	0.26	248	0.001	1	2.45	0.010	0.09	0.2	0.06	7.9	0.2	<0.05	6	0.7	<0.2
990147	Soil	7	8	0.20	150	0.002	2	2.69	0.007	0.03	0.1	0.14	3.1	0.1	<0.05	7	<0.5	<0.2
990148	Soil	9	9	0.20	179	0.003	4	2.21	0.006	0.07	0.1	0.08	3.2	0.1	<0.05	8	0.7	<0.2
990149	Soil	7	5	0.09	149	0.003	4	1.10	0.005	0.06	0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
990150	Soil	7	4	0.08	90	0.003	6	1.06	0.004	0.06	0.1	0.03	1.8	0.1	<0.05	5	0.8	<0.2
990151	Soil	12	8	0.20	261	0.001	6	1.50	0.008	0.08	0.1	0.08	4.9	0.2	<0.05	4	1.1	<0.2
990152	Soil	9	9	0.22	145	0.001	5	2.19	0.006	0.08	0.2	0.03	3.1	0.1	<0.05	7	1.2	<0.2
990153	Soil	6	4	0.08	96	0.003	3	1.12	0.004	0.07	0.2	0.03	1.5	<0.1	<0.05	6	1.2	<0.2
990154	Soil	7	5	0.35	137	0.004	4	1.97	0.006	0.05	0.2	0.03	3.3	0.1	<0.05	7	0.6	<0.2
990155	Soil	10	5	0.22	163	0.002	4	1.72	0.005	0.06	0.1	0.02	2.4	0.1	<0.05	5	<0.5	<0.2
990156	Soil	9	5	0.28	241	0.001	3	1.84	0.005	0.12	0.1	0.04	2.2	0.1	<0.05	7	<0.5	<0.2
990157	Soil	15	6	0.36	358	0.002	4	2.04	0.005	0.12	0.2	0.05	3.1	0.2	<0.05	6	0.8	<0.2
990158	Soil	8	4	0.12	90	0.002	4	1.37	0.004	0.06	<0.1	0.03	1.1	0.2	<0.05	5	<0.5	<0.2
990159	Soil	7	13	0.20	137	0.010	5	2.08	0.005	0.04	0.2	0.12	2.5	<0.1	<0.05	6	0.9	<0.2
990160	Soil	15	12	0.15	228	0.005	3	1.32	0.006	0.08	0.2	0.11	1.8	0.1	<0.05	5	0.6	<0.2
990161	Soil	13	18	0.50	307	0.026	7	1.82	0.018	0.16	<0.1	0.15	6.5	0.1	0.10	6	2.4	<0.2
990162	Soil	11	17	0.35	185	0.004	2	2.08	0.007	0.06	0.1	0.07	5.1	0.2	<0.05	6	<0.5	<0.2
990163	Soil	6	17	0.30	146	0.006	4	1.77	0.007	0.04	0.1	0.10	3.6	<0.1	<0.05	7	<0.5	<0.2
990164	Soil	7	13	0.16	157	0.006	4	1.70	0.005	0.05	0.1	0.06	2.8	0.1	<0.05	8	<0.5	<0.2
990165	Soil	7	8	0.10	101	0.008	3	1.03	0.006	0.05	0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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# CERTIFICATE OF ANALYSIS

# SMI13000218.1

	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	1	0.1	0.1	2	0.01
990166	Soil	2.2	11.4	16.8	105	0.2	7.0	6.7	377	3.44	32.6	0.5	<0.5	0.9	48	0.4	1.3	0.2	57	0.46	0.048
990167	Soil	2.4	12.5	13.1	73	0.2	5.3	7.0	393	3.72	21.3	0.6	1.3	1.1	41	<0.1	1.9	0.1	61	0.39	0.057
990168	Soil	2.1	12.4	13.3	125	0.2	8.5	5.7	340	4.12	33.8	0.3	2.7	0.9	11	0.2	1.9	0.2	68	0.10	0.179
990169	Soil	1.3	17.3	83.9	413	1.0	8.0	6.4	652	3.31	78.7	1.0	8.1	0.2	21	1.9	2.2	0.2	49	0.18	0.207
990170	Soil	1.4	19.9	108.4	507	4.3	6.9	6.2	746	3.08	137.8	14.1	6.6	0.8	114	2.3	2.5	0.2	43	0.99	0.237
990171	Soil	1.4	23.6	82.8	362	3.2	8.2	7.6	753	3.20	149.2	25.7	13.4	1.1	85	1.3	2.8	0.2	43	0.72	0.152
990172	Soil	1.5	14.7	37.1	221	0.7	6.5	6.2	905	3.06	103.4	3.2	3.0	0.3	68	0.8	1.4	0.2	46	0.61	0.228
990173	Soil	0.8	21.6	27.3	203	1.4	8.4	7.5	722	3.22	57.7	8.5	6.5	0.8	64	0.5	1.8	0.2	46	0.86	0.208
990174	Soil	0.9	14.7	16.3	105	0.3	7.3	6.7	430	3.00	26.7	0.7	1.4	0.2	33	0.4	1.0	0.2	52	0.31	0.140
990175	Soil	1.1	15.9	18.4	98	0.3	8.0	7.0	532	2.90	31.1	1.1	2.0	0.6	41	0.2	1.3	0.2	48	0.36	0.142
990176	Soil	1.7	19.0	24.0	207	0.4	10.7	7.7	676	3.12	122.4	4.6	1.8	0.4	66	1.0	3.7	0.3	51	0.49	0.208
990177	Soil	1.6	35.0	36.1	156	1.2	11.4	11.0	1099	3.38	161.2	15.0	2.0	1.1	86	1.0	4.8	0.2	49	0.82	0.269
990178	Soil	0.7	18.2	16.1	110	0.4	7.0	4.2	346	2.28	52.7	0.9	1.9	<0.1	15	0.4	2.0	0.2	48	0.09	0.123
990179	Soil	1.1	19.1	22.8	256	0.4	11.5	6.7	520	2.96	97.0	2.8	3.3	0.6	55	0.6	3.7	0.2	48	0.61	0.214
990180	Soil	8.3	31.0	67.2	283	3.5	11.4	10.1	988	3.91	201.4	22.0	9.2	1.3	75	0.8	7.9	0.3	54	0.42	0.136
990181	Soil	1.2	13.5	17.1	101	0.8	6.4	4.7	443	3.20	39.3	0.4	2.4	0.2	17	0.3	2.0	0.2	56	0.12	0.122
990182	Soil	1.7	23.2	34.4	128	0.2	7.3	6.9	660	3.20	185.3	1.3	1.6	0.3	37	0.5	4.6	0.3	57	0.33	0.133
990183	Soil	1.9	34.4	34.3	174	0.4	9.2	11.0	669	4.12	104.4	3.6	2.8	1.1	48	0.4	5.0	0.2	69	0.26	0.077
990184	Soil	1.3	16.2	19.8	107	0.4	6.5	5.0	351	2.69	28.6	1.2	0.7	0.9	30	0.2	2.4	0.2	47	0.29	0.098
990185	Soil	1.8	25.0	41.3	127	0.7	10.4	8.4	758	3.78	44.7	2.5	3.6	1.6	43	0.2	3.5	0.3	57	0.46	0.110
990186	Soil	1.7	12.3	19.0	67	0.2	6.6	4.4	190	2.76	26.3	0.6	1.8	1.0	10	<0.1	2.3	0.2	54	0.05	0.062
990187	Soil	3.6	14.5	28.7	62	0.1	4.2	3.5	372	2.31	13.3	0.7	3.9	1.1	10	<0.1	2.1	0.2	41	0.06	0.074
990188	Soil	2.6	22.4	18.0	87	0.3	10.6	6.4	244	3.98	95.0	0.6	3.2	0.7	9	0.3	2.5	0.3	70	0.04	0.098
990189	Soil	1.3	14.8	18.4	53	0.2	4.9	3.3	128	2.37	36.7	0.3	5.3	<0.1	5	0.1	2.0	0.3	83	0.02	0.060
990190	Soil	1.6	24.4	21.3	107	0.5	9.5	10.5	397	4.19	63.2	0.5	7.6	1.0	22	0.3	3.4	0.3	64	0.22	0.100
990191	Soil	1.8	23.4	19.7	101	1.0	8.1	7.1	265	4.72	62.5	0.7	7.8	1.4	20	0.4	4.0	0.8	67	0.16	0.138
990192	Soil	2.1	22.6	18.4	104	0.4	7.5	7.2	315	4.52	34.3	0.5	<0.5	0.9	20	0.2	1.6	0.2	81	0.11	0.092
990193	Soil	1.4	36.5	20.2	92	0.3	10.5	11.3	589	3.86	39.7	1.3	1.6	1.1	51	0.5	2.5	0.2	60	0.54	0.054
990194	Soil	1.9	36.9	21.5	85	0.5	7.8	9.5	316	3.86	64.6	3.6	4.5	1.3	44	0.7	2.6	0.2	62	0.45	0.051
990195	Soil	3.5	30.8	24.1	95	1.0	10.5	15.4	2654	3.16	46.6	4.5	4.0	0.8	110	0.8	1.4	0.2	59	1.00	0.110

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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

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# CERTIFICATE OF ANALYSIS

SMI13000218.1

Method	Analyte	1DX15	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	
990166	Soil	7	11	0.20	183	0.004	5	1.61	0.006	0.06	0.1	0.05	3.0	<0.1	<0.05	6	1.2	<0.2
990167	Soil	11	8	0.22	204	0.003	3	1.87	0.006	0.06	0.1	0.07	3.1	0.1	<0.05	9	0.7	<0.2
990168	Soil	7	14	0.23	131	0.007	4	1.76	0.006	0.05	0.2	0.05	3.1	<0.1	<0.05	8	<0.5	<0.2
990169	Soil	8	9	0.27	107	0.005	2	1.81	0.006	0.07	<0.1	0.08	1.3	0.1	0.06	5	0.6	<0.2
990170	Soil	9	9	0.36	261	0.010	4	1.73	0.008	0.09	0.1	0.11	3.6	0.1	0.10	5	<0.5	<0.2
990171	Soil	23	11	0.37	259	0.010	4	1.65	0.012	0.08	<0.1	0.17	4.4	0.1	0.07	5	0.9	0.2
990172	Soil	9	9	0.29	239	0.006	3	1.64	0.008	0.08	0.1	0.05	1.5	0.1	0.09	6	0.5	<0.2
990173	Soil	18	10	0.34	410	0.008	5	1.76	0.010	0.08	0.1	0.11	4.6	0.2	0.08	4	1.0	<0.2
990174	Soil	6	9	0.32	266	0.006	3	1.80	0.007	0.06	<0.1	0.04	1.6	0.1	<0.05	7	<0.5	<0.2
990175	Soil	10	9	0.33	391	0.005	4	2.09	0.008	0.05	<0.1	0.08	2.3	0.2	<0.05	6	1.1	<0.2
990176	Soil	11	12	0.33	432	0.006	4	2.08	0.007	0.07	<0.1	0.07	2.3	0.1	<0.05	7	0.6	<0.2
990177	Soil	29	12	0.34	615	0.007	5	2.48	0.009	0.09	0.1	0.10	5.8	0.2	<0.05	6	1.0	0.2
990178	Soil	7	9	0.18	199	0.003	2	1.81	0.006	0.06	<0.1	0.08	0.6	0.1	<0.05	8	1.1	<0.2
990179	Soil	10	12	0.39	412	0.004	3	2.12	0.008	0.08	<0.1	0.07	2.9	0.1	<0.05	6	1.4	<0.2
990180	Soil	15	13	0.38	465	0.006	4	2.49	0.009	0.08	<0.1	0.17	4.7	0.2	<0.05	6	1.5	<0.2
990181	Soil	6	8	0.17	220	0.007	2	1.52	0.006	0.06	0.1	0.07	1.5	0.2	<0.05	7	1.0	<0.2
990182	Soil	8	10	0.16	548	0.004	2	1.52	0.007	0.07	0.2	0.07	1.5	0.2	<0.05	6	<0.5	<0.2
990183	Soil	12	13	0.29	634	0.005	3	2.40	0.008	0.06	<0.1	0.05	5.4	0.1	<0.05	8	<0.5	<0.2
990184	Soil	13	9	0.18	679	0.002	2	2.13	0.006	0.06	0.1	0.07	2.4	0.1	<0.05	6	<0.5	0.2
990185	Soil	13	12	0.35	640	0.003	2	2.77	0.007	0.08	0.2	0.09	4.4	0.1	<0.05	7	0.7	<0.2
990186	Soil	8	11	0.15	151	0.004	<1	1.76	0.006	0.04	0.1	0.04	2.2	0.1	<0.05	8	0.9	0.3
990187	Soil	10	6	0.06	321	0.002	<1	1.74	0.004	0.08	0.1	0.05	1.1	0.2	<0.05	5	<0.5	<0.2
990188	Soil	7	15	0.26	119	0.004	3	2.73	0.005	0.05	0.1	0.09	3.6	0.2	<0.05	8	<0.5	0.2
990189	Soil	5	10	0.06	85	0.006	<1	1.44	0.003	0.03	0.1	0.04	0.8	0.2	<0.05	7	<0.5	<0.2
990190	Soil	7	10	0.33	161	0.005	2	2.79	0.007	0.06	0.1	0.12	4.6	0.1	<0.05	6	<0.5	<0.2
990191	Soil	11	10	0.23	180	0.005	<1	3.07	0.007	0.05	0.1	0.13	4.3	0.1	<0.05	8	1.0	0.5
990192	Soil	6	12	0.22	281	0.005	2	2.29	0.008	0.06	0.1	0.10	4.2	<0.1	<0.05	8	<0.5	<0.2
990193	Soil	9	10	0.32	386	0.006	2	1.84	0.011	0.07	<0.1	0.11	6.3	<0.1	<0.05	5	<0.5	<0.2
990194	Soil	15	10	0.24	463	0.003	2	2.25	0.009	0.04	<0.1	0.12	6.0	<0.1	<0.05	6	<0.5	<0.2
990195	Soil	14	12	0.31	706	0.004	2	2.23	0.008	0.07	<0.1	0.12	5.1	0.2	<0.05	7	0.7	0.3

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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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
990196	Soil		2.4	19.7	17.9	100	0.4	10.3	8.8	931	2.82	23.8	2.1	3.1	0.7	94	0.6	1.4	0.2	58	0.94	0.066
990197	Soil		4.2	42.2	79.5	114	0.3	3.2	3.0	283	1.12	12.2	0.7	66.2	0.1	13	0.4	0.3	0.5	35	0.11	0.098
990198	Soil		4.0	31.1	8.4	17	0.3	2.6	1.9	102	0.98	4.6	0.5	7.6	<0.1	7	<0.1	0.5	0.5	21	0.01	0.110
990199	Soil		3.4	29.0	18.5	57	0.7	8.1	3.5	220	2.39	10.6	1.0	2.0	0.1	9	<0.1	0.9	0.4	43	0.02	0.093
990200	Soil		20.6	47.9	6.9	15	0.3	2.1	1.3	48	1.73	15.5	0.3	17.5	0.1	9	<0.1	8.6	0.6	41	0.02	0.063
990201	Soil		27.5	1084	83.5	213	1.9	20.7	90.9	2024	13.52	149.5	13.4	129.6	4.6	12	0.5	36.4	4.8	26	0.02	0.251
990202	Soil		1.8	34.9	37.9	78	0.2	9.8	6.9	413	6.43	18.0	0.6	9.7	0.9	5	<0.1	0.9	0.5	56	0.02	0.119
990203	Soil		2.4	94.8	60.9	47	0.5	10.1	6.5	323	10.66	48.0	0.9	12.8	1.5	15	<0.1	2.1	0.5	63	0.01	0.186
990204	Soil		1.6	205.5	22.9	75	1.0	8.3	7.9	319	5.28	13.7	0.9	3.5	1.2	7	<0.1	0.8	0.3	49	0.02	0.142
990205	Soil		11.4	125.8	48.2	150	0.6	10.1	54.6	1907	7.33	19.0	1.3	2.9	1.0	10	0.4	0.8	0.3	42	0.05	0.147
990206	Soil		0.7	8.4	8.0	46	0.3	12.9	4.4	138	2.26	6.8	0.5	1.1	<0.1	11	0.3	0.3	0.2	40	0.04	0.071
990207	Soil		1.7	17.5	11.5	55	0.2	15.1	5.1	204	2.27	11.4	0.6	2.9	0.1	11	0.4	0.4	0.1	41	0.06	0.088
990208	Soil		1.4	33.7	54.3	134	0.3	10.7	5.9	245	4.64	58.8	1.1	10.7	0.5	10	0.4	1.4	0.7	41	0.05	0.151
990209	Soil		1.7	9.5	16.8	118	<0.1	8.9	4.5	344	2.97	20.9	0.4	0.5	0.3	19	0.6	0.6	0.7	42	0.19	0.108
990210	Soil		2.7	26.9	65.7	146	0.2	10.4	13.3	1117	6.65	93.8	0.9	9.9	0.2	10	0.6	1.9	0.8	47	0.06	0.178
990211	Soil		1.9	17.9	13.6	58	0.2	5.4	3.7	376	2.55	18.0	1.1	1.0	<0.1	9	0.3	0.7	0.4	40	0.03	0.109
990212	Soil		1.2	11.1	15.3	77	0.2	6.7	3.8	441	4.34	14.4	0.3	<0.5	<0.1	5	0.3	0.6	0.7	47	0.02	0.080
990213	Soil		1.9	125.6	120.3	303	1.9	16.2	9.1	498	4.31	174.0	2.0	19.8	0.7	12	0.7	20.7	2.5	41	0.06	0.166
990214	Soil		1.6	87.6	197.6	140	1.1	4.4	2.4	233	4.61	195.3	0.5	71.3	<0.1	9	0.2	9.6	4.6	59	0.02	0.145
990215	Soil		2.9	141.6	1580	336	8.0	9.8	17.3	988	7.03	588.8	0.7	451.9	1.1	15	0.5	16.3	6.9	50	0.03	0.203
990216	Soil		2.3	50.8	142.0	175	0.6	10.2	9.2	647	5.81	89.6	0.5	12.1	1.0	6	0.2	3.6	1.1	49	0.03	0.137
990217	Soil		1.7	27.5	41.1	97	0.2	9.5	6.0	307	3.79	34.6	0.7	6.4	0.3	7	0.2	1.4	0.8	45	0.02	0.124
990218	Soil		1.1	26.7	37.4	142	0.4	11.2	7.2	509	3.60	38.7	0.5	3.5	0.2	8	0.3	1.7	0.8	44	0.02	0.088
990219	Soil		4.8	81.1	128.1	231	0.7	8.6	9.2	565	5.90	150.6	0.9	18.5	1.6	5	0.4	4.9	1.3	41	0.03	0.107
990220	Soil		6.1	19.6	31.9	69	1.1	4.1	3.7	152	3.07	38.2	0.7	5.0	<0.1	7	0.2	2.5	0.6	41	0.03	0.126
990221	Soil		3.1	21.8	20.8	105	0.5	4.7	5.5	179	3.30	47.7	1.2	4.2	0.3	5	0.2	1.9	0.8	33	0.02	0.122
990222	Soil		1.6	17.7	18.4	75	0.2	2.7	3.7	73	1.72	29.0	0.4	6.1	0.1	5	<0.1	0.8	0.6	26	0.01	0.100
990223	Soil		5.1	48.4	28.6	78	0.5	5.6	3.9	685	4.41	19.8	1.2	11.7	0.1	13	0.1	1.6	1.0	29	0.02	0.237
990224	Soil		4.3	57.1	58.8	154	0.9	3.9	4.4	263	5.06	90.5	0.5	10.9	0.4	4	0.3	3.9	1.4	42	0.02	0.171
990225	Soil		3.5	39.9	31.6	132	2.3	5.8	4.0	202	3.38	44.4	0.9	14.7	0.3	7	0.4	2.3	1.3	39	0.04	0.103

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000218.1

Method	Analyte	1DX15	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	
990196	Soil	11	14	0.33	481	0.005	2	2.15	0.008	0.06	<0.1	0.07	4.6	0.1	<0.05	6	<0.5	<0.2
990197	Soil	8	6	0.06	77	<0.001	<1	1.34	0.005	0.03	0.1	0.04	0.4	0.3	<0.05	6	<0.5	<0.2
990198	Soil	10	6	0.06	48	<0.001	1	1.17	0.005	0.05	<0.1	0.06	0.3	0.3	<0.05	5	<0.5	<0.2
990199	Soil	6	15	0.17	50	0.004	<1	1.70	0.004	0.04	0.1	0.08	0.8	0.1	<0.05	6	<0.5	<0.2
990200	Soil	7	7	0.06	39	0.003	<1	0.84	0.004	0.04	1.4	0.03	0.7	0.2	<0.05	7	<0.5	<0.2
990201	Soil	9	8	0.12	92	0.005	1	3.38	0.005	0.07	0.2	0.25	9.0	0.3	<0.05	3	3.2	2.9
990202	Soil	4	16	0.31	58	0.002	<1	2.78	0.007	0.05	<0.1	0.09	3.9	0.1	<0.05	7	1.0	0.3
990203	Soil	5	18	0.24	137	0.007	<1	2.11	0.007	0.05	0.1	0.17	4.0	0.1	<0.05	7	1.0	<0.2
990204	Soil	12	12	0.18	52	0.004	<1	2.33	0.006	0.06	<0.1	0.14	4.0	0.2	<0.05	7	<0.5	0.5
990205	Soil	11	14	0.18	55	0.008	1	2.95	0.006	0.05	0.1	0.04	2.3	0.2	<0.05	6	2.3	<0.2
990206	Soil	6	17	0.24	79	0.006	2	2.04	0.005	0.04	0.1	0.05	0.7	0.1	<0.05	6	0.7	<0.2
990207	Soil	5	17	0.29	74	0.004	2	1.97	0.005	0.04	0.2	0.09	0.9	0.1	<0.05	5	0.9	<0.2
990208	Soil	10	14	0.24	54	0.008	1	2.87	0.004	0.03	0.1	0.09	2.8	<0.1	<0.05	5	1.1	<0.2
990209	Soil	6	11	0.31	89	0.004	2	1.68	0.007	0.06	0.1	0.03	1.3	0.2	<0.05	6	<0.5	<0.2
990210	Soil	7	15	0.24	52	0.008	2	2.57	0.005	0.04	0.1	0.06	1.1	<0.1	<0.05	6	1.3	0.4
990211	Soil	9	10	0.14	58	0.005	2	1.64	0.005	0.04	0.2	0.06	0.4	0.1	<0.05	9	0.9	<0.2
990212	Soil	8	10	0.17	39	0.005	<1	0.91	0.004	0.06	<0.1	0.04	0.9	<0.1	<0.05	7	0.5	<0.2
990213	Soil	10	17	0.33	75	0.005	1	2.60	0.006	0.06	0.1	0.10	2.9	0.2	<0.05	5	0.7	0.8
990214	Soil	7	11	0.08	45	0.004	1	1.06	0.003	0.04	0.1	0.13	0.6	0.2	<0.05	7	1.3	2.1
990215	Soil	11	10	0.29	60	0.004	1	1.62	0.009	0.07	0.3	0.12	4.0	0.2	0.09	4	2.3	3.9
990216	Soil	9	13	0.35	47	0.004	<1	2.47	0.005	0.05	<0.1	0.11	3.2	0.1	<0.05	6	0.6	0.5
990217	Soil	7	13	0.22	49	0.005	<1	2.10	0.004	0.03	<0.1	0.07	1.6	0.1	<0.05	6	0.8	0.3
990218	Soil	7	12	0.29	62	0.007	2	2.09	0.005	0.04	0.1	0.09	1.7	0.1	<0.05	6	0.7	<0.2
990219	Soil	9	11	0.31	54	0.004	2	2.12	0.005	0.06	<0.1	0.07	4.1	0.1	<0.05	5	1.8	0.8
990220	Soil	7	8	0.06	62	0.003	2	1.54	0.003	0.04	<0.1	0.09	0.3	0.2	0.07	7	0.7	0.2
990221	Soil	12	7	0.08	40	0.002	1	1.53	0.004	0.04	0.1	0.05	0.3	0.3	0.07	5	0.8	0.2
990222	Soil	11	4	0.02	45	0.001	2	0.80	0.003	0.04	<0.1	0.04	0.3	0.2	<0.05	5	<0.5	0.4
990223	Soil	8	7	0.05	72	0.003	1	0.98	0.005	0.06	0.1	0.07	0.2	0.2	0.06	6	0.7	0.3
990224	Soil	6	9	0.13	44	0.004	1	1.72	0.003	0.04	0.1	0.09	1.2	0.2	<0.05	5	1.2	0.7
990225	Soil	9	11	0.25	59	0.003	2	2.07	0.005	0.05	<0.1	0.11	1.0	0.2	<0.05	7	0.9	0.3

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000218.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
990226	Soil		8.5	46.9	24.3	139	0.6	4.8	4.8	286	3.75	48.0	1.3	11.0	0.1	15	0.5	3.0	1.0	47	0.15	0.157
990227	Soil		4.5	60.8	36.1	135	0.3	4.3	4.7	348	4.18	71.1	0.8	9.9	0.2	5	0.3	5.3	1.4	38	0.02	0.159
990228	Soil		3.2	44.5	44.4	159	0.5	6.4	7.1	267	5.38	84.1	0.7	8.9	0.2	7	0.3	2.9	1.1	50	0.03	0.144
990229	Soil		6.9	18.0	25.7	72	0.4	5.4	9.1	2024	2.82	19.7	0.8	3.6	<0.1	14	0.3	0.9	1.1	41	0.03	0.115
990230	Soil		4.8	27.5	14.4	94	0.3	4.8	4.9	252	2.73	29.0	0.8	13.4	<0.1	6	0.4	1.0	0.9	61	0.02	0.105
990231	Soil		3.2	84.0	28.5	261	3.0	8.6	9.4	724	3.48	20.4	1.1	7.5	0.3	27	0.6	1.6	0.6	42	0.21	0.157
990232	Soil		1.6	50.0	15.9	132	0.2	9.2	7.5	421	3.37	15.6	0.6	3.1	0.3	15	0.4	1.4	0.4	51	0.10	0.077
990233	Soil		6.9	312.2	123.8	152	2.0	8.0	18.0	270	4.54	86.1	1.4	20.7	1.1	21	0.6	6.3	2.1	38	0.15	0.089
990234	Soil		5.0	54.6	50.4	157	1.0	7.9	11.8	536	5.68	28.5	0.6	2.8	0.2	8	1.0	2.6	0.6	57	0.06	0.074
990235	Soil		6.2	101.5	40.4	140	0.5	6.9	7.3	375	5.86	21.4	0.6	4.5	0.2	9	0.7	1.4	0.4	51	0.05	0.085
990236	Soil		2.8	99.8	57.7	56	1.3	4.1	3.2	359	5.46	56.4	0.5	33.4	0.1	6	0.2	32.9	3.9	51	0.03	0.165
990237	Soil		4.4	168.4	47.8	130	2.4	10.7	22.9	1383	8.30	106.5	0.5	69.3	0.7	6	0.2	83.0	6.9	52	0.04	0.136
990238	Soil		2.9	38.7	19.5	91	0.3	3.7	4.2	356	3.68	20.6	0.3	8.5	<0.1	5	0.1	1.6	0.5	56	0.02	0.105
990239	Soil		18.4	601.8	29.6	506	0.2	9.6	8.6	743	4.57	28.8	0.8	3.3	0.3	72	1.9	3.3	0.7	57	0.20	0.088
990240	Soil		37.7	354.8	53.9	279	1.5	10.8	19.6	867	6.42	58.9	1.7	37.4	1.3	22	0.8	5.8	1.2	37	0.13	0.109
990241	Soil		6.5	152.2	38.1	494	0.7	16.2	10.5	610	4.56	60.5	1.1	12.1	1.1	12	0.7	3.3	0.8	48	0.11	0.083
990242	Soil		6.1	46.1	16.1	50	0.5	4.5	4.2	290	4.13	21.9	0.8	6.6	<0.1	6	0.2	1.3	0.6	52	0.03	0.150
990243	Soil		2.4	27.9	13.5	67	0.4	6.5	4.9	386	4.45	17.9	0.5	2.3	0.1	5	0.1	0.7	0.4	54	0.03	0.149
990244	Soil		3.1	238.0	11.0	245	0.5	10.7	7.5	389	3.17	11.4	1.0	2.6	0.4	36	0.5	1.0	0.3	49	0.20	0.089
990245	Soil		2.4	482.8	13.8	62	7.8	5.5	3.6	128	2.20	9.2	8.8	14.1	0.3	13	0.4	0.6	0.3	26	0.08	0.171
990246	Soil		2.5	30.8	13.0	52	1.3	5.1	3.4	261	2.39	11.2	0.6	<0.5	<0.1	7	0.2	0.6	0.4	49	0.03	0.150
990247	Soil		2.6	39.9	18.1	115	0.7	7.7	4.3	390	2.48	17.1	0.9	2.0	<0.1	42	0.6	1.2	0.8	40	0.23	0.170
990248	Soil		1.4	23.2	15.2	64	0.9	4.1	3.3	234	2.51	12.3	0.5	1.0	<0.1	7	0.4	0.5	0.3	40	0.04	0.174
990249	Soil		1.5	55.5	12.2	133	3.2	11.8	6.6	314	3.08	14.9	1.3	4.2	0.1	17	0.2	0.6	0.3	45	0.07	0.137
990250	Soil		1.1	373.9	562.0	392	0.5	13.1	25.8	1336	4.49	40.8	3.0	8.1	1.1	10	0.8	4.4	0.9	52	0.08	0.042
990251	Soil		1.0	82.5	42.8	293	0.1	18.2	18.5	1030	4.10	38.5	0.4	5.0	1.1	7	0.3	0.9	0.3	51	0.06	0.053
990252	Soil		1.1	29.9	48.0	168	2.0	6.9	11.8	1374	4.00	21.4	0.5	2.3	0.1	6	0.4	0.8	0.4	55	0.03	0.140
990253	Soil		1.9	71.7	254.2	386	4.0	9.2	15.0	1023	7.51	312.3	0.6	57.6	0.7	9	0.5	4.5	5.9	50	0.01	0.127
990254	Soil		1.1	69.8	13.1	107	1.1	6.4	7.5	870	3.50	21.7	0.6	3.4	<0.1	7	0.4	0.5	0.4	54	0.03	0.162
990255	Soil		1.3	32.4	13.6	99	0.1	11.2	12.8	983	4.14	21.8	0.6	2.1	0.4	14	0.3	0.6	0.2	67	0.17	0.165

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 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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Method	Analyte	1DX15	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	
990226	Soil	8	9	0.13	67	0.004	1	1.75	0.006	0.05	0.2	0.06	0.6	0.2	0.06	9	0.7	0.3
990227	Soil	7	8	0.15	64	0.002	1	1.65	0.004	0.07	<0.1	0.07	0.6	0.3	<0.05	6	0.6	0.5
990228	Soil	7	10	0.13	55	0.004	1	1.90	0.004	0.03	<0.1	0.05	0.7	0.1	<0.05	7	0.9	0.5
990229	Soil	9	9	0.06	134	0.006	2	0.86	0.005	0.08	0.2	0.04	0.4	0.3	<0.05	6	0.6	<0.2
990230	Soil	9	6	0.08	49	0.002	1	1.47	0.004	0.04	0.1	0.05	0.6	0.2	<0.05	7	<0.5	0.3
990231	Soil	13	12	0.33	122	0.005	2	2.65	0.007	0.07	0.1	0.24	2.3	0.2	<0.05	6	1.3	<0.2
990232	Soil	7	13	0.37	102	0.006	2	2.40	0.007	0.08	0.1	0.05	2.8	0.1	<0.05	7	<0.5	<0.2
990233	Soil	14	14	0.27	114	0.004	3	2.27	0.009	0.09	0.1	0.22	3.2	0.1	<0.05	4	1.8	0.7
990234	Soil	5	13	0.24	53	0.013	2	2.13	0.005	0.04	0.1	0.14	2.2	<0.1	<0.05	7	1.1	0.3
990235	Soil	5	14	0.24	46	0.011	1	2.51	0.005	0.03	0.1	0.10	2.1	<0.1	<0.05	7	0.8	<0.2
990236	Soil	5	11	0.12	41	0.005	1	2.10	0.005	0.03	0.2	0.15	1.2	<0.1	<0.05	9	1.1	1.2
990237	Soil	7	12	0.24	55	0.006	1	2.17	0.006	0.05	0.2	0.35	3.2	0.2	<0.05	6	2.6	1.9
990238	Soil	5	8	0.08	40	0.004	<1	1.52	0.004	0.05	0.1	0.06	0.6	0.2	<0.05	7	0.7	0.2
990239	Soil	10	13	0.28	296	0.005	2	2.06	0.006	0.07	0.1	0.04	2.2	0.1	<0.05	8	1.1	0.3
990240	Soil	11	13	0.25	369	0.004	2	1.54	0.006	0.08	0.1	0.09	3.5	0.1	<0.05	4	2.3	0.6
990241	Soil	10	15	0.48	151	0.005	2	3.10	0.006	0.08	0.1	0.18	4.5	<0.1	<0.05	6	1.3	0.3
990242	Soil	6	10	0.12	65	0.004	1	1.90	0.005	0.04	0.1	0.12	0.8	0.1	<0.05	9	0.9	0.2
990243	Soil	5	15	0.20	53	0.005	1	2.38	0.005	0.05	<0.1	0.10	1.2	0.1	<0.05	9	0.7	<0.2
990244	Soil	8	12	0.44	161	0.005	2	2.38	0.008	0.07	<0.1	0.07	2.5	0.1	<0.05	7	0.5	<0.2
990245	Soil	40	12	0.13	61	0.003	2	3.55	0.005	0.04	0.1	1.26	1.2	0.1	0.06	5	1.4	<0.2
990246	Soil	6	12	0.16	51	0.003	1	2.05	0.005	0.06	<0.1	0.13	0.6	0.1	<0.05	8	<0.5	<0.2
990247	Soil	8	12	0.26	155	0.004	1	1.80	0.007	0.08	0.1	0.07	0.7	0.1	<0.05	6	<0.5	<0.2
990248	Soil	5	10	0.19	83	0.004	2	2.26	0.006	0.06	<0.1	0.08	0.8	0.1	<0.05	6	<0.5	<0.2
990249	Soil	10	17	0.33	97	0.002	2	3.25	0.007	0.09	0.1	0.26	1.1	0.2	<0.05	8	0.6	<0.2
990250	Soil	11	17	0.47	91	0.016	1	2.60	0.008	0.09	0.1	0.18	7.0	0.1	<0.05	6	<0.5	0.4
990251	Soil	9	13	0.45	85	0.008	2	2.79	0.008	0.10	<0.1	0.04	6.4	<0.1	<0.05	5	<0.5	<0.2
990252	Soil	8	12	0.26	61	0.007	2	2.56	0.006	0.08	0.1	0.08	1.5	0.2	<0.05	8	<0.5	0.2
990253	Soil	8	11	0.16	31	0.004	<1	1.29	0.005	0.08	0.1	0.06	9.2	0.3	<0.05	5	1.3	4.1
990254	Soil	9	12	0.21	55	0.005	1	2.12	0.005	0.07	<0.1	0.08	1.2	0.3	<0.05	7	<0.5	<0.2
990255	Soil	10	14	0.46	92	0.016	2	3.03	0.009	0.07	0.1	0.05	3.8	0.2	<0.05	7	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000218.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
990256	Soil		1.0	13.1	6.5	61	0.4	3.9	4.0	615	2.34	8.3	0.5	<0.5	<0.1	10	0.3	0.5	0.5	50	0.03	0.149
990257	Soil		1.0	24.0	9.5	57	0.2	5.6	5.7	595	3.49	11.8	0.6	0.8	0.2	11	0.1	0.5	0.2	55	0.06	0.178
990258	Soil		0.9	29.9	8.9	85	<0.1	9.6	11.1	627	3.34	13.5	1.3	7.0	1.3	10	0.1	0.4	0.2	47	0.06	0.135
990259	Soil		1.0	25.8	11.6	80	<0.1	8.7	11.5	864	3.69	13.5	0.6	1.5	1.0	12	0.1	0.5	0.1	55	0.13	0.159
990260	Soil		0.9	22.5	10.6	76	0.3	9.0	9.5	617	3.90	12.3	0.6	1.5	1.3	11	0.2	0.5	0.1	47	0.10	0.129
990261	Soil		1.0	26.2	11.5	57	0.2	7.5	8.8	527	3.97	12.7	0.7	<0.5	0.9	12	0.2	0.4	<0.1	46	0.12	0.122
990262	Soil		0.8	15.3	8.2	51	<0.1	6.9	5.6	361	2.89	8.7	0.7	1.0	<0.1	22	0.2	0.4	0.1	51	0.15	0.113
990263	Soil		0.9	15.9	9.3	61	<0.1	6.7	6.5	435	3.14	9.9	0.5	<0.5	0.1	22	0.2	0.4	0.1	56	0.14	0.110
990264	Soil		0.7	14.9	9.5	59	<0.1	7.0	6.5	459	3.13	9.3	0.5	<0.5	<0.1	16	0.1	0.3	0.1	53	0.09	0.117
990265	Soil		0.9	18.2	10.9	66	<0.1	7.8	7.1	459	3.72	12.2	0.4	0.9	0.3	7	<0.1	0.6	0.1	53	0.04	0.092
990266	Soil		1.2	15.5	14.4	86	0.4	6.5	5.4	518	4.03	18.9	0.3	0.9	<0.1	20	0.2	1.3	0.2	78	0.15	0.054
990267	Soil		1.4	14.9	13.5	53	0.3	7.1	3.7	215	4.10	19.1	0.3	3.7	0.2	13	0.3	1.7	0.2	55	0.07	0.048
990268	Soil		1.4	11.5	12.5	36	0.3	4.4	2.7	173	3.18	21.6	0.2	<0.5	0.1	6	0.2	2.3	0.2	77	0.02	0.040
990269	Soil		2.2	17.8	21.0	237	0.7	10.0	10.0	1675	4.12	142.5	0.5	1.1	0.8	30	0.6	2.6	0.1	45	0.30	0.096
990270	Soil		1.1	12.4	10.9	86	0.2	6.6	4.9	427	3.13	24.4	0.2	1.3	0.3	21	0.2	2.0	<0.1	46	0.19	0.057
990271	Soil		1.5	17.2	21.8	107	1.0	5.7	12.7	1454	3.52	31.4	0.4	1.8	0.1	25	0.5	2.3	0.2	50	0.20	0.072
990272	Soil		1.3	17.8	14.7	89	0.2	6.7	5.2	277	5.13	30.9	0.4	2.1	1.2	6	0.3	2.5	<0.1	41	0.07	0.048
990273	Soil		1.6	11.9	9.0	54	0.3	4.4	3.4	205	2.33	17.7	0.2	10.6	<0.1	13	0.2	1.6	0.2	52	0.10	0.067
990274	Soil		1.8	17.0	23.3	95	1.7	6.7	8.1	1176	4.13	28.5	0.6	0.5	0.4	42	0.5	2.3	0.1	45	0.42	0.185
990275	Soil		1.3	14.7	13.2	40	0.5	4.7	2.6	148	4.28	24.6	0.3	1.6	0.5	6	0.5	1.9	0.1	47	0.04	0.061
990276	Soil		1.7	15.4	14.1	100	0.7	7.5	5.0	314	3.48	22.2	0.4	0.9	0.6	23	0.1	2.0	0.1	47	0.20	0.097
990277	Soil		3.8	28.6	50.4	142	1.0	11.0	38.4	4965	4.13	37.1	0.8	2.2	1.0	46	1.6	3.6	0.3	48	0.42	0.181
990278	Soil		1.6	17.4	17.5	65	0.4	5.1	4.2	315	4.92	37.6	0.4	3.3	0.5	6	0.3	2.8	0.1	60	0.03	0.080
990279	Soil		1.2	21.5	19.2	100	0.3	6.9	7.8	453	3.82	38.0	0.3	1.7	0.7	11	0.2	3.4	<0.1	39	0.08	0.079
990280	Soil		1.2	11.2	13.2	35	0.3	3.4	2.0	114	3.12	27.1	0.3	2.9	<0.1	8	0.1	1.8	0.4	52	0.05	0.071
990281	Soil		1.6	21.8	22.4	92	0.5	5.9	5.7	512	4.74	49.0	0.3	2.5	0.5	7	0.2	3.6	0.2	45	0.03	0.107
990282	Soil		1.5	20.4	17.1	112	0.2	6.4	8.3	552	3.86	39.4	0.2	0.7	0.6	30	0.2	3.1	<0.1	43	0.28	0.071
990283	Soil		1.6	16.4	17.3	143	0.6	8.9	7.1	1187	3.72	35.2	0.5	1.2	0.7	40	0.3	2.3	0.1	44	0.34	0.113
990284	Soil		1.3	23.3	30.4	117	0.7	7.5	10.6	499	3.68	46.0	0.3	2.2	0.7	15	0.3	3.7	<0.1	40	0.14	0.087
990285	Soil		2.3	15.9	21.9	159	0.6	11.1	9.2	1576	3.91	37.6	0.5	1.8	0.8	27	0.5	3.1	0.1	52	0.35	0.108

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc 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
		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	
990256	Soil	5	7	0.17	100	0.005	2	1.86	0.005	0.05	<0.1	0.09	0.6	0.2	0.07	8	<0.5	<0.2
990257	Soil	8	10	0.27	90	0.009	2	2.66	0.007	0.04	0.1	0.09	2.1	0.1	<0.05	7	<0.5	<0.2
990258	Soil	9	11	0.40	113	0.007	3	3.65	0.008	0.06	<0.1	0.07	7.0	0.1	<0.05	7	<0.5	<0.2
990259	Soil	8	10	0.39	75	0.014	3	3.12	0.010	0.05	0.1	0.04	4.5	0.1	<0.05	6	0.6	<0.2
990260	Soil	7	11	0.39	88	0.014	3	4.33	0.008	0.04	0.2	0.10	4.7	<0.1	<0.05	6	<0.5	<0.2
990261	Soil	9	13	0.35	73	0.015	2	3.85	0.008	0.03	0.2	0.11	4.1	<0.1	<0.05	5	0.7	<0.2
990262	Soil	8	11	0.31	107	0.007	2	2.15	0.007	0.04	<0.1	0.06	0.6	<0.1	<0.05	8	<0.5	<0.2
990263	Soil	6	10	0.33	161	0.007	2	2.26	0.007	0.04	<0.1	0.04	1.1	0.1	<0.05	9	<0.5	<0.2
990264	Soil	6	10	0.33	94	0.009	2	2.34	0.006	0.04	<0.1	0.06	1.0	<0.1	0.05	7	<0.5	<0.2
990265	Soil	6	11	0.38	80	0.011	2	3.05	0.007	0.04	0.1	0.06	2.4	<0.1	<0.05	7	<0.5	<0.2
990266	Soil	5	12	0.16	143	0.012	2	1.16	0.007	0.04	0.1	0.04	3.0	<0.1	<0.05	8	<0.5	<0.2
990267	Soil	5	13	0.19	57	0.020	2	1.47	0.004	0.03	0.1	0.05	2.4	<0.1	<0.05	7	<0.5	<0.2
990268	Soil	5	10	0.11	45	0.009	1	1.43	0.005	0.04	0.2	0.05	2.1	<0.1	<0.05	10	<0.5	<0.2
990269	Soil	10	12	0.41	170	0.003	3	2.68	0.010	0.07	0.1	0.06	6.7	<0.1	<0.05	6	<0.5	<0.2
990270	Soil	7	10	0.38	131	0.008	2	1.76	0.009	0.05	0.1	0.05	3.4	<0.1	<0.05	6	<0.5	<0.2
990271	Soil	10	10	0.31	118	0.006	2	1.88	0.009	0.06	0.2	0.05	2.2	<0.1	<0.05	7	<0.5	<0.2
990272	Soil	5	12	0.39	67	0.008	2	3.95	0.008	0.04	0.1	0.07	6.0	<0.1	<0.05	6	<0.5	<0.2
990273	Soil	5	9	0.12	92	0.005	2	1.33	0.006	0.05	0.2	0.06	1.4	<0.1	<0.05	8	<0.5	<0.2
990274	Soil	13	10	0.30	179	0.005	2	2.43	0.011	0.08	0.3	0.10	6.6	0.1	<0.05	7	<0.5	<0.2
990275	Soil	4	10	0.19	59	0.007	3	1.96	0.007	0.03	0.2	0.11	3.4	<0.1	<0.05	7	<0.5	<0.2
990276	Soil	6	11	0.34	132	0.003	1	2.45	0.010	0.07	0.2	0.05	4.9	0.1	<0.05	7	<0.5	<0.2
990277	Soil	23	13	0.29	238	0.003	2	3.18	0.011	0.09	0.3	0.09	7.8	0.3	<0.05	8	0.5	<0.2
990278	Soil	5	11	0.19	66	0.008	1	2.14	0.005	0.03	0.2	0.07	3.4	<0.1	<0.05	8	<0.5	<0.2
990279	Soil	6	9	0.40	86	0.003	2	1.98	0.009	0.05	<0.1	0.05	5.3	<0.1	<0.05	5	<0.5	<0.2
990280	Soil	4	9	0.14	56	0.006	2	1.43	0.006	0.03	0.2	0.10	1.4	<0.1	<0.05	7	<0.5	<0.2
990281	Soil	5	10	0.31	85	0.004	2	1.94	0.008	0.05	0.1	0.07	4.6	<0.1	<0.05	6	<0.5	<0.2
990282	Soil	7	9	0.38	131	0.003	2	1.94	0.010	0.05	<0.1	0.05	5.1	<0.1	<0.05	6	<0.5	<0.2
990283	Soil	10	12	0.42	172	0.003	2	2.32	0.010	0.07	<0.1	0.06	6.9	<0.1	<0.05	6	0.6	<0.2
990284	Soil	9	9	0.37	80	0.002	2	2.11	0.010	0.06	<0.1	0.05	5.9	<0.1	<0.05	6	<0.5	<0.2
990285	Soil	9	14	0.44	180	0.005	2	2.35	0.013	0.09	0.1	0.06	7.4	0.1	<0.05	7	0.7	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
990286	Soil	1.6	17.6	14.4	49	0.4	5.2	3.1	156	4.70	24.7	0.4	1.3	0.7	7	0.6	2.2	0.2	62	0.04	0.042
990287	Soil	1.5	20.4	18.8	105	0.4	7.4	5.4	270	3.89	30.2	0.4	1.5	1.0	11	0.6	3.0	<0.1	38	0.10	0.087
990288	Soil	1.7	19.7	26.2	95	2.7	7.0	4.9	277	4.16	38.5	0.5	2.1	0.6	8	0.7	3.6	<0.1	45	0.07	0.076
990289	Soil	2.0	20.9	24.3	141	0.6	8.7	6.7	420	3.77	40.3	0.5	2.1	0.7	33	0.4	3.9	0.1	45	0.48	0.107
990290	Soil	1.3	20.8	24.6	147	0.6	8.6	6.5	831	3.69	41.0	0.4	<0.5	0.8	43	0.4	3.0	<0.1	46	0.61	0.100
990291	Soil	3.0	27.4	26.9	187	0.6	11.1	35.9	5819	7.38	106.8	0.5	1.5	1.0	43	3.0	5.2	0.2	46	0.43	0.133
990292	Soil	1.5	17.1	19.8	138	0.6	9.2	9.2	739	4.47	37.5	0.4	1.9	0.4	27	0.6	3.1	0.2	50	0.68	0.111
990293	Soil	1.4	19.4	52.7	156	1.3	9.5	11.5	814	4.55	76.4	0.3	2.8	0.5	12	0.4	7.0	0.2	49	0.17	0.134
990294	Soil	1.4	17.7	22.6	68	1.0	4.7	4.7	363	4.88	50.2	0.2	2.2	0.6	6	0.6	3.6	0.2	57	0.05	0.103
990295	Soil	1.5	19.3	23.7	86	0.7	5.7	4.5	365	4.97	49.3	0.3	2.1	0.4	7	0.6	4.8	0.2	55	0.05	0.083
990296	Soil	1.7	17.5	23.1	116	0.4	7.6	6.2	340	4.39	50.3	0.3	1.3	0.5	18	0.3	5.0	0.2	58	0.33	0.061
990297	Soil	1.6	18.6	22.5	71	0.2	5.7	3.9	170	3.75	46.1	0.3	2.1	0.8	6	0.3	4.2	0.2	55	0.05	0.039
990298	Soil	2.3	21.9	41.1	211	0.9	11.4	8.6	2043	3.74	46.5	0.7	1.3	0.7	47	0.8	3.9	0.2	54	0.65	0.113
990299	Soil	1.7	19.1	16.4	105	0.7	7.0	8.0	790	3.65	31.3	0.5	1.1	0.6	16	0.4	2.6	0.2	51	0.21	0.105
990300	Soil	1.8	18.1	13.5	92	0.3	5.6	5.5	331	3.17	35.8	0.3	1.2	0.4	25	0.3	3.0	0.2	50	0.35	0.061
990301	Soil	1.6	18.3	23.9	84	0.4	5.1	4.1	246	7.10	33.7	0.3	1.3	0.8	5	0.5	2.5	0.2	68	0.03	0.038
990302	Soil	1.6	19.7	23.3	71	0.1	6.2	4.5	264	4.93	42.6	0.3	2.3	0.5	8	0.4	3.5	0.2	53	0.05	0.054
990303	Soil	1.5	17.7	17.2	66	0.9	4.6	4.2	251	7.49	27.9	0.3	1.2	1.0	4	0.9	2.1	0.3	71	0.03	0.046
990304	Soil	1.0	20.3	18.3	76	0.3	7.6	4.6	200	5.06	25.9	0.3	1.2	0.8	4	0.3	2.2	0.1	51	0.03	0.038
990305	Soil	2.1	12.3	25.7	82	0.4	7.3	6.1	272	3.78	26.0	0.3	1.4	0.6	10	0.4	2.3	0.1	57	0.08	0.044
990306	Soil	2.1	20.5	21.3	190	0.6	11.9	13.3	3048	4.57	38.7	0.7	1.8	0.8	26	0.2	2.6	0.2	63	0.29	0.135
990307	Soil	1.5	17.8	11.3	91	1.1	13.1	6.5	597	5.03	20.1	0.4	1.5	<0.1	14	0.4	1.1	0.2	81	0.09	0.069
990308	Soil	1.3	27.3	15.5	114	0.2	11.3	6.6	360	3.94	32.0	0.6	2.4	1.0	9	0.2	2.8	0.1	52	0.10	0.074
990309	Soil	1.2	10.6	13.8	59	0.3	5.5	3.3	168	2.58	25.8	0.2	2.5	0.2	7	0.2	2.2	0.1	49	0.05	0.065
990310	Soil	1.3	17.4	12.4	111	0.4	8.1	5.2	304	3.59	36.3	0.4	2.1	0.3	9	0.3	3.2	0.1	52	0.10	0.055
990311	Soil	1.2	24.7	27.0	102	0.6	7.6	5.4	317	4.65	49.2	0.3	1.9	0.9	8	0.6	4.3	0.2	49	0.09	0.044
990312	Soil	1.4	16.2	15.1	67	0.4	6.2	4.4	205	5.26	36.0	0.2	1.6	0.7	8	0.2	2.9	0.2	99	0.04	0.037
990313	Soil	1.2	23.9	20.2	132	0.3	11.1	9.9	887	3.95	34.7	0.3	1.3	0.7	21	0.3	3.3	0.2	49	0.23	0.064
990314	Soil	1.2	20.3	28.2	82	0.5	7.1	5.2	273	4.51	38.8	0.3	4.0	1.0	6	0.4	3.8	0.1	50	0.05	0.032
990315	Soil	1.2	18.8	18.0	128	0.5	9.1	6.6	346	3.64	37.0	0.4	1.8	0.7	30	0.3	2.8	0.2	61	0.42	0.037

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000218.1

Method	Analyte	1DX15	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	
990286	Soil	4	13	0.15	50	0.014	2	2.09	0.005	0.03	0.2	0.09	4.0	<0.1	<0.05	9	<0.5	<0.2
990287	Soil	5	11	0.31	80	0.007	2	3.45	0.007	0.04	0.2	0.13	5.5	<0.1	<0.05	5	<0.5	<0.2
990288	Soil	5	13	0.31	73	0.009	2	2.41	0.007	0.04	0.1	0.12	4.0	<0.1	<0.05	5	<0.5	<0.2
990289	Soil	9	11	0.35	148	0.004	2	2.42	0.010	0.06	0.1	0.08	6.3	<0.1	<0.05	6	0.8	<0.2
990290	Soil	9	10	0.40	160	0.003	2	2.38	0.012	0.07	<0.1	0.09	7.1	<0.1	<0.05	6	<0.5	<0.2
990291	Soil	14	10	0.32	216	0.002	1	2.47	0.010	0.08	0.1	0.12	9.5	0.1	<0.05	5	1.1	<0.2
990292	Soil	8	16	0.37	119	0.002	2	2.52	0.010	0.07	0.2	0.07	6.0	<0.1	<0.05	7	<0.5	<0.2
990293	Soil	7	12	0.42	77	0.005	2	2.53	0.008	0.07	0.1	0.10	4.8	0.1	<0.05	6	<0.5	<0.2
990294	Soil	6	11	0.23	58	0.005	1	2.28	0.006	0.05	0.1	0.16	4.1	0.1	<0.05	8	<0.5	<0.2
990295	Soil	5	11	0.26	64	0.003	1	2.26	0.008	0.07	0.1	0.09	4.4	0.1	<0.05	8	<0.5	<0.2
990296	Soil	6	12	0.37	90	0.004	2	2.41	0.009	0.07	0.1	0.08	4.8	<0.1	<0.05	8	<0.5	<0.2
990297	Soil	6	13	0.28	89	0.003	2	3.03	0.009	0.05	0.1	0.09	5.1	<0.1	<0.05	9	<0.5	<0.2
990298	Soil	13	16	0.37	213	0.004	1	2.93	0.012	0.10	0.2	0.07	8.3	0.2	<0.05	8	<0.5	<0.2
990299	Soil	9	12	0.45	125	0.003	2	2.82	0.010	0.07	0.1	0.07	5.2	0.1	<0.05	7	0.6	<0.2
990300	Soil	11	9	0.23	174	0.004	1	1.84	0.009	0.07	0.1	0.03	4.3	<0.1	<0.05	7	<0.5	<0.2
990301	Soil	5	15	0.21	49	0.010	1	2.76	0.006	0.04	0.1	0.09	4.9	<0.1	<0.05	10	0.7	<0.2
990302	Soil	5	13	0.22	87	0.004	2	2.03	0.007	0.06	0.1	0.11	4.2	<0.1	<0.05	7	0.8	<0.2
990303	Soil	5	16	0.19	51	0.012	<1	3.15	0.005	0.05	0.2	0.11	5.0	<0.1	<0.05	11	0.6	<0.2
990304	Soil	5	17	0.28	70	0.004	2	3.19	0.007	0.06	0.1	0.08	6.2	<0.1	<0.05	7	0.9	<0.2
990305	Soil	6	15	0.35	87	0.004	2	2.73	0.008	0.06	0.1	0.06	4.7	<0.1	<0.05	7	<0.5	<0.2
990306	Soil	6	18	0.46	189	0.003	2	3.48	0.013	0.17	0.1	0.12	6.9	0.2	<0.05	9	<0.5	<0.2
990307	Soil	5	24	0.26	69	0.016	2	2.10	0.006	0.04	0.1	0.13	2.7	0.1	<0.05	9	<0.5	<0.2
990308	Soil	7	18	0.43	111	0.010	2	3.51	0.009	0.06	0.1	0.14	6.4	<0.1	<0.05	6	<0.5	<0.2
990309	Soil	6	12	0.27	72	0.006	2	2.02	0.008	0.06	0.1	0.07	2.5	0.1	<0.05	8	<0.5	<0.2
990310	Soil	7	13	0.47	89	0.009	2	2.38	0.009	0.07	<0.1	0.08	3.9	<0.1	<0.05	7	<0.5	<0.2
990311	Soil	6	14	0.30	81	0.012	2	2.68	0.007	0.05	0.1	0.11	5.2	<0.1	<0.05	6	<0.5	<0.2
990312	Soil	5	15	0.19	61	0.019	2	2.18	0.005	0.05	0.1	0.08	4.7	<0.1	<0.05	12	<0.5	<0.2
990313	Soil	11	12	0.46	131	0.008	2	2.23	0.013	0.07	<0.1	0.05	6.7	0.1	<0.05	6	<0.5	<0.2
990314	Soil	6	14	0.32	74	0.008	1	2.95	0.007	0.05	0.1	0.10	5.3	<0.1	<0.05	6	<0.5	<0.2
990315	Soil	7	14	0.36	122	0.008	1	2.24	0.010	0.06	0.1	0.05	5.1	<0.1	<0.05	7	<0.5	<0.2

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# CERTIFICATE OF ANALYSIS

SMI13000218.1

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 ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %
990316	Soil	1.5	13.9	10.1	57	0.3	4.7	3.9	261	3.13	24.4	0.2	1.1	0.2	9	0.1	1.9	0.2	62	0.04	0.049
990317	Soil	1.2	18.2	10.8	71	0.2	8.1	5.6	382	4.04	32.0	0.3	1.7	<0.1	13	<0.1	1.5	0.2	74	0.07	0.065
990318	Soil	0.9	15.1	11.9	48	0.2	6.3	3.6	209	4.09	15.1	0.4	1.4	<0.1	12	0.2	0.9	0.1	57	0.08	0.054
990319	Soil	1.3	21.1	18.3	71	0.4	4.9	4.7	294	3.84	41.0	0.3	1.3	<0.1	7	0.3	3.5	0.2	55	0.05	0.074
990320	Soil	1.3	15.7	18.2	108	0.3	7.3	6.8	393	3.35	27.7	0.3	1.0	0.5	25	0.3	1.9	0.2	54	0.49	0.041
990321	Soil	1.4	16.6	17.3	174	0.2	14.6	8.8	649	4.08	32.7	0.5	1.6	0.7	36	0.4	1.1	0.2	57	0.65	0.067
990322	Soil	1.1	18.8	18.1	306	0.2	9.3	7.6	561	3.48	56.1	0.4	<0.5	0.5	24	1.5	1.6	0.1	49	0.31	0.058
990323	Soil	1.2	17.0	10.4	89	0.7	11.1	5.2	373	3.66	21.8	0.4	1.6	0.1	15	0.5	1.3	0.2	57	0.11	0.066
990324	Soil	1.7	25.8	15.5	83	0.8	7.7	6.1	837	4.59	32.7	0.4	1.3	0.3	7	0.3	2.1	0.2	51	0.07	0.192
990325	Soil	1.6	15.5	15.4	56	0.3	4.5	3.7	527	4.06	32.5	0.3	1.9	0.1	7	0.2	2.3	0.2	59	0.03	0.054
990326	Soil	1.1	27.6	19.2	188	0.8	11.8	9.4	1851	3.64	53.6	0.6	3.8	0.5	39	1.2	2.1	0.2	48	0.93	0.180
990327	Soil	1.3	17.5	11.6	49	0.2	5.5	3.5	112	3.18	24.2	0.3	1.7	<0.1	10	0.3	1.9	0.2	73	0.05	0.048
990328	Soil	1.4	25.7	24.9	154	0.3	10.9	10.8	1242	4.86	58.7	0.4	1.3	0.7	18	0.3	2.9	0.2	51	0.35	0.131
990329	Soil	2.6	45.0	20.2	164	1.0	14.6	13.4	3518	4.66	35.1	0.4	2.4	0.5	37	0.9	2.5	0.2	49	1.18	0.179
990330	Soil	1.7	19.6	16.1	58	0.5	6.9	4.9	237	6.04	27.9	0.3	1.5	0.6	6	0.3	2.3	0.2	74	0.03	0.057
990331	Soil	1.7	29.9	23.5	170	0.8	15.2	12.0	1766	4.28	36.8	0.5	1.4	0.8	23	0.9	3.0	0.2	55	0.39	0.100
990332	Soil	1.3	21.8	22.3	117	0.5	11.8	12.4	1166	3.76	31.0	0.4	1.2	0.5	33	0.5	3.2	0.1	56	0.66	0.089
990333	Soil	1.2	19.8	19.8	113	0.2	10.9	9.5	687	3.80	33.2	0.4	0.7	0.4	24	0.4	3.3	0.1	52	0.34	0.082
990334	Soil	1.8	18.5	30.2	160	0.7	14.7	14.8	2493	4.06	30.7	0.5	2.4	0.6	38	1.0	2.3	0.2	66	0.41	0.141
990335	Soil	1.3	16.3	11.4	44	0.7	5.5	3.3	128	3.21	26.3	0.2	<0.5	0.3	9	0.3	2.2	0.2	83	0.04	0.041
990336	Soil	1.2	25.5	35.2	193	0.2	14.8	16.6	703	4.68	43.8	0.5	2.5	0.7	15	0.3	4.6	0.2	58	0.17	0.089
990337	Soil	0.9	12.8	8.0	60	1.0	10.6	4.3	175	2.43	8.5	0.3	0.8	<0.1	13	0.3	0.4	0.1	52	0.09	0.056
990338	Soil	1.1	28.0	15.5	106	0.2	16.4	9.8	655	4.31	25.8	0.5	<0.5	0.4	29	0.3	2.0	0.2	70	0.33	0.091
990339	Soil	1.3	30.6	14.2	93	0.2	15.9	7.9	383	5.31	21.7	0.4	0.6	0.8	15	0.3	1.1	0.1	76	0.11	0.093
990340	Soil	0.9	12.1	11.8	48	0.5	5.9	6.3	669	2.09	11.9	0.3	1.8	<0.1	44	0.5	1.1	0.2	45	0.45	0.156
990341	Soil	1.2	9.7	11.8	38	0.3	4.8	3.1	185	1.98	13.9	0.3	0.7	<0.1	24	0.4	1.6	0.2	56	0.24	0.039
990342	Soil	1.6	12.3	9.3	56	0.3	7.8	4.9	541	2.52	16.7	0.2	<0.5	<0.1	15	0.2	1.6	0.2	66	0.13	0.042
990343	Soil	1.2	15.2	16.2	54	0.6	7.5	4.7	357	2.52	17.8	0.4	5.3	<0.1	10	0.3	1.8	0.2	48	0.07	0.087
990344	Soil	1.1	15.7	9.9	57	0.4	7.7	5.1	312	3.14	18.8	0.4	3.7	0.2	13	0.2	1.4	0.2	57	0.09	0.078
990345	Soil	1.0	11.8	10.0	54	0.4	7.2	4.9	343	2.30	13.3	0.3	6.4	0.2	13	0.2	1.3	0.2	51	0.09	0.076





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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000218.1

Method	Analyte	1DX15	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	
990316	Soil	7	11	0.14	58	0.012	<1	1.54	0.006	0.04	0.2	0.06	2.6	<0.1	<0.05	9	<0.5	<0.2
990317	Soil	5	13	0.12	75	0.009	2	1.51	0.005	0.03	0.1	0.09	2.4	<0.1	<0.05	7	<0.5	<0.2
990318	Soil	4	15	0.13	87	0.011	2	1.63	0.004	0.02	0.1	0.12	2.4	<0.1	<0.05	7	0.6	<0.2
990319	Soil	7	10	0.16	73	0.006	1	1.90	0.006	0.05	0.2	0.06	2.3	0.1	<0.05	8	<0.5	<0.2
990320	Soil	8	12	0.32	113	0.008	1	2.00	0.009	0.06	0.1	0.05	4.1	<0.1	<0.05	6	<0.5	<0.2
990321	Soil	8	20	0.38	164	0.004	2	2.95	0.012	0.08	<0.1	0.07	7.2	0.1	<0.05	7	<0.5	<0.2
990322	Soil	7	12	0.25	103	0.005	1	1.81	0.009	0.06	<0.1	0.04	5.7	<0.1	<0.05	6	<0.5	<0.2
990323	Soil	6	15	0.26	109	0.014	1	1.85	0.006	0.04	0.1	0.13	3.1	0.1	<0.05	6	<0.5	<0.2
990324	Soil	7	14	0.20	78	0.006	1	2.36	0.007	0.05	0.1	0.16	3.1	0.1	<0.05	7	<0.5	<0.2
990325	Soil	7	11	0.12	58	0.008	<1	1.78	0.006	0.05	0.2	0.06	2.3	0.2	<0.05	8	<0.5	<0.2
990326	Soil	17	15	0.36	184	0.005	2	2.72	0.011	0.08	0.1	0.13	8.4	0.2	<0.05	6	<0.5	<0.2
990327	Soil	5	11	0.07	54	0.007	<1	1.33	0.005	0.03	0.1	0.07	2.0	<0.1	<0.05	8	<0.5	<0.2
990328	Soil	9	14	0.34	133	0.003	2	2.24	0.008	0.06	0.2	0.08	7.6	0.1	<0.05	5	<0.5	<0.2
990329	Soil	17	15	0.39	175	0.004	2	2.29	0.009	0.06	0.1	0.14	10.7	0.2	0.06	5	1.0	<0.2
990330	Soil	5	16	0.23	60	0.005	2	2.17	0.006	0.04	0.2	0.11	4.1	<0.1	<0.05	9	<0.5	<0.2
990331	Soil	15	16	0.44	161	0.004	2	3.14	0.011	0.07	0.2	0.11	9.0	0.1	<0.05	6	<0.5	<0.2
990332	Soil	10	16	0.46	148	0.010	2	2.18	0.013	0.06	0.1	0.06	6.8	<0.1	<0.05	5	<0.5	<0.2
990333	Soil	9	15	0.49	131	0.009	2	2.35	0.010	0.06	0.1	0.06	4.3	<0.1	<0.05	6	<0.5	<0.2
990334	Soil	9	22	0.40	368	0.006	2	3.33	0.012	0.09	0.2	0.09	7.3	0.2	<0.05	8	<0.5	<0.2
990335	Soil	6	12	0.10	55	0.017	2	1.11	0.005	0.03	0.2	0.06	2.5	<0.1	<0.05	8	<0.5	<0.2
990336	Soil	7	18	0.47	133	0.007	2	3.26	0.009	0.07	0.1	0.12	6.2	0.1	<0.05	6	<0.5	<0.2
990337	Soil	5	17	0.24	85	0.008	2	1.43	0.007	0.04	0.1	0.11	1.8	<0.1	<0.05	6	<0.5	<0.2
990338	Soil	8	22	0.50	206	0.009	3	2.91	0.009	0.07	0.2	0.07	5.4	0.1	<0.05	7	<0.5	<0.2
990339	Soil	5	24	0.32	90	0.017	3	2.12	0.005	0.04	0.1	0.09	6.1	0.1	<0.05	6	<0.5	<0.2
990340	Soil	6	12	0.26	213	0.004	<1	1.70	0.009	0.05	0.1	0.05	1.0	<0.1	<0.05	7	<0.5	<0.2
990341	Soil	7	12	0.15	106	0.008	1	1.42	0.007	0.05	0.1	0.03	1.2	0.1	<0.05	7	<0.5	<0.2
990342	Soil	5	15	0.21	72	0.007	1	1.54	0.007	0.05	0.1	0.04	1.1	0.1	<0.05	9	<0.5	<0.2
990343	Soil	7	15	0.24	97	0.003	2	2.16	0.008	0.06	0.2	0.08	1.0	0.1	<0.05	8	<0.5	<0.2
990344	Soil	6	15	0.28	100	0.005	1	1.81	0.007	0.04	0.1	0.06	1.3	<0.1	<0.05	8	<0.5	<0.2
990345	Soil	5	14	0.26	103	0.005	1	1.95	0.008	0.06	0.1	0.07	2.1	0.1	<0.05	8	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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Part: 1 of 2

# CERTIFICATE OF ANALYSIS

# SMI13000218.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
990346	Soil	4.1	51.0	26.6	284	0.7	26.6	22.1	7039	4.39	70.4	1.0	6.7	1.4	51	4.0	2.6	0.2	60	1.02	0.202
990347	Soil	1.0	31.6	18.5	163	0.2	18.7	12.9	1145	4.35	31.4	0.5	0.5	0.9	27	0.4	2.3	0.2	61	0.41	0.134
990348	Soil	1.8	23.2	15.2	96	0.5	10.6	7.8	1062	3.31	22.8	0.5	1.3	0.2	22	0.4	1.5	0.3	67	0.24	0.118
990349	Soil	1.2	21.3	12.3	105	0.3	11.6	7.4	443	4.49	23.7	0.4	1.0	0.3	14	0.3	1.5	0.2	80	0.12	0.070
990350	Soil	1.0	28.8	24.9	107	0.4	11.3	8.6	502	4.41	58.5	0.3	1.8	0.4	9	0.2	3.5	0.2	58	0.08	0.081
990351	Soil	1.5	22.4	13.9	119	1.3	10.7	8.5	667	4.17	28.9	0.6	2.0	0.3	13	0.4	1.9	0.2	66	0.10	0.095
990352	Soil	1.9	19.1	28.5	175	0.6	18.6	8.8	758	4.07	38.4	1.5	3.1	0.2	33	0.3	0.8	0.1	64	0.33	0.259
990353	Soil	1.9	11.5	15.1	62	0.7	11.9	6.4	291	3.55	18.6	0.7	23.4	0.1	21	0.2	0.7	0.1	70	0.12	0.086
990354	Soil	1.7	15.4	10.2	66	0.3	12.7	12.1	898	3.53	19.8	1.2	0.7	0.1	27	0.6	0.5	<0.1	52	0.19	0.124
990355	Soil	2.4	16.0	9.0	89	0.4	17.7	8.0	538	3.69	16.0	0.9	<0.5	<0.1	31	0.2	0.5	0.2	65	0.25	0.139
990356	Soil	0.8	17.7	24.5	68	0.2	14.5	7.1	354	3.72	18.3	0.5	<0.5	0.2	15	0.1	0.6	<0.1	58	0.09	0.095
990357	Soil	1.0	22.3	13.9	69	0.3	18.1	11.3	663	4.98	21.6	0.4	1.0	0.2	16	0.2	0.8	<0.1	65	0.15	0.129
990358	Soil	0.7	25.9	12.0	93	<0.1	23.1	16.1	1031	3.93	19.6	0.5	1.4	1.2	24	0.2	0.7	0.1	71	0.25	0.107
990359	Soil	0.9	8.3	9.0	19	0.8	3.6	1.9	60	1.09	4.6	0.4	1.3	<0.1	15	0.2	0.3	0.1	35	0.06	0.165
990360	Soil	0.5	9.3	11.2	52	0.4	9.2	4.6	130	2.13	9.0	0.5	0.9	<0.1	22	<0.1	0.3	0.1	47	0.15	0.069
990361	Soil	1.6	11.6	9.7	89	0.7	14.7	8.1	723	3.19	16.5	0.9	<0.5	<0.1	20	0.2	0.4	0.2	78	0.12	0.189
990362	Soil	1.1	9.2	7.3	80	0.3	9.7	6.2	570	2.77	6.6	0.5	0.9	<0.1	31	0.1	0.3	0.1	67	0.20	0.134
990363	Soil	0.8	12.1	8.1	42	0.2	8.4	4.9	279	2.20	7.6	0.4	<0.5	<0.1	12	0.3	0.3	0.1	44	0.04	0.093
990364	Soil	1.2	20.2	9.9	68	0.2	14.0	9.4	633	3.52	12.3	0.7	4.4	0.1	19	0.3	0.8	0.3	59	0.11	0.130
990365	Soil	1.5	19.9	10.4	113	0.2	16.4	9.4	721	3.85	13.4	0.9	1.0	0.2	20	0.3	0.7	0.3	70	0.06	0.129
990366	Soil	1.3	12.3	14.6	66	0.2	15.8	8.3	329	3.51	17.5	0.5	2.3	0.2	22	0.2	0.8	0.2	67	0.09	0.055
990367	Soil	0.6	8.3	18.6	19	0.7	5.6	1.9	74	1.25	5.9	0.4	3.4	<0.1	15	0.2	0.3	0.3	35	0.02	0.078
990368	Soil	1.0	19.0	10.3	32	1.7	7.8	3.1	125	1.47	6.4	0.5	6.8	<0.1	19	0.3	0.3	0.2	36	0.04	0.120
990369	Soil	1.1	18.3	15.0	91	0.2	15.0	7.6	456	3.05	16.7	0.7	2.2	<0.1	24	0.2	0.6	0.1	61	0.12	0.108
990370	Soil	0.9	21.2	13.5	135	2.0	14.2	8.7	484	3.48	14.1	0.5	4.2	0.1	20	0.6	0.8	<0.1	64	0.10	0.103
990371	Soil	1.3	11.7	10.1	76	0.3	11.6	5.6	304	2.51	9.1	0.7	0.8	<0.1	19	0.1	0.4	0.1	58	0.06	0.100
990372	Soil	1.1	15.8	10.3	61	0.2	11.9	6.0	316	3.20	9.9	0.4	1.4	<0.1	14	0.3	0.6	0.1	64	0.04	0.077
990373	Soil	1.2	16.3	9.1	103	<0.1	16.6	9.9	581	3.46	11.6	0.6	<0.5	0.3	40	0.2	0.7	<0.1	68	0.33	0.089
990374	Soil	0.8	23.8	11.9	82	<0.1	15.6	15.0	1074	3.50	11.9	0.5	2.1	1.4	89	0.2	0.8	<0.1	74	0.70	0.099
990375	Soil	0.8	8.5	7.7	67	0.2	7.8	4.3	288	1.96	4.3	0.6	<0.5	<0.1	24	0.1	0.2	0.2	52	0.10	0.161

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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Part: 2 of 2

# CERTIFICATE OF ANALYSIS

SMI13000218.1

Method	Analyte	1DX15	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	0.1	0.01	0.1	0.05	1	0.5	0.2
990346	Soil	15	28	0.56	469	0.002	<1	4.70	0.021	0.14	0.2	0.10	20.9	0.4	<0.05	9	0.5	<0.2
990347	Soil	14	20	0.51	245	0.005	2	3.44	0.011	0.08	0.1	0.05	9.2	0.1	<0.05	7	<0.5	<0.2
990348	Soil	22	17	0.24	147	0.007	1	2.36	0.006	0.07	0.2	0.05	3.7	0.2	<0.05	8	<0.5	<0.2
990349	Soil	6	20	0.30	142	0.015	2	2.28	0.006	0.05	0.1	0.11	4.4	0.1	<0.05	7	<0.5	<0.2
990350	Soil	7	15	0.38	76	0.010	2	2.33	0.007	0.05	0.1	0.07	4.3	0.1	<0.05	5	<0.5	<0.2
990351	Soil	10	21	0.22	164	0.010	2	3.36	0.006	0.06	0.2	0.14	4.1	0.2	<0.05	7	0.6	<0.2
990352	Soil	20	25	0.61	129	0.011	3	4.17	0.011	0.10	<0.1	0.09	4.4	0.2	0.06	8	<0.5	<0.2
990353	Soil	8	22	0.43	57	0.037	2	2.69	0.008	0.04	<0.1	0.08	3.7	<0.1	<0.05	9	<0.5	<0.2
990354	Soil	9	19	0.33	90	0.030	3	3.70	0.010	0.04	<0.1	0.14	2.8	<0.1	<0.05	6	<0.5	<0.2
990355	Soil	15	26	0.51	119	0.009	3	4.00	0.009	0.07	<0.1	0.09	1.5	0.2	<0.05	9	<0.5	<0.2
990356	Soil	5	27	0.42	67	0.023	3	3.49	0.007	0.05	<0.1	0.16	3.0	<0.1	<0.05	7	0.6	<0.2
990357	Soil	7	28	0.47	90	0.027	2	3.20	0.008	0.05	<0.1	0.12	4.2	<0.1	<0.05	7	<0.5	<0.2
990358	Soil	13	24	0.67	111	0.092	4	3.35	0.011	0.08	<0.1	0.07	7.2	<0.1	<0.05	7	<0.5	<0.2
990359	Soil	8	14	0.10	57	0.007	1	2.13	0.007	0.04	<0.1	0.15	0.4	0.2	<0.05	7	<0.5	<0.2
990360	Soil	7	16	0.27	82	0.012	2	2.41	0.010	0.05	<0.1	0.11	1.2	0.1	<0.05	8	<0.5	<0.2
990361	Soil	7	29	0.45	141	0.004	2	3.63	0.008	0.10	<0.1	0.12	1.5	0.4	<0.05	12	<0.5	<0.2
990362	Soil	7	19	0.37	199	0.006	2	2.89	0.008	0.08	<0.1	0.07	1.2	0.1	<0.05	10	<0.5	<0.2
990363	Soil	5	17	0.25	63	0.010	2	2.70	0.006	0.05	<0.1	0.09	1.0	0.1	<0.05	7	<0.5	<0.2
990364	Soil	11	20	0.42	81	0.023	4	3.08	0.008	0.04	<0.1	0.09	2.6	0.1	<0.05	8	<0.5	<0.2
990365	Soil	10	23	0.54	143	0.016	3	3.53	0.009	0.07	<0.1	0.07	2.6	0.1	<0.05	10	<0.5	<0.2
990366	Soil	8	22	0.46	73	0.035	3	2.56	0.009	0.03	<0.1	0.08	2.8	<0.1	<0.05	7	<0.5	<0.2
990367	Soil	6	16	0.13	51	0.009	1	2.03	0.005	0.03	<0.1	0.09	0.7	<0.1	<0.05	8	<0.5	<0.2
990368	Soil	6	19	0.18	64	0.010	2	2.67	0.006	0.03	<0.1	0.15	1.0	<0.1	<0.05	6	<0.5	<0.2
990369	Soil	7	22	0.50	113	0.015	2	2.81	0.011	0.06	<0.1	0.08	1.8	<0.1	<0.05	9	<0.5	<0.2
990370	Soil	7	18	0.48	104	0.019	3	3.33	0.009	0.06	<0.1	0.14	2.6	<0.1	<0.05	7	<0.5	<0.2
990371	Soil	6	19	0.40	98	0.013	2	2.40	0.009	0.06	<0.1	0.07	1.6	0.1	<0.05	9	<0.5	<0.2
990372	Soil	6	18	0.39	82	0.016	3	2.45	0.007	0.05	<0.1	0.08	1.8	<0.1	<0.05	8	<0.5	<0.2
990373	Soil	10	17	0.57	150	0.038	4	2.54	0.016	0.07	<0.1	0.05	3.9	<0.1	<0.05	7	<0.5	<0.2
990374	Soil	16	18	0.56	190	0.110	5	1.93	0.033	0.09	<0.1	0.06	7.9	<0.1	<0.05	6	<0.5	<0.2
990375	Soil	6	16	0.30	183	0.009	3	2.33	0.009	0.07	<0.1	0.08	1.4	0.1	<0.05	9	<0.5	<0.2

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# CERTIFICATE OF ANALYSIS

SMI13000218.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
990376	Soil	1.1	15.8	7.7	72	0.6	13.9	7.3	480	2.69	5.5	1.2	<0.5	0.1	38	<0.1	0.4	0.1	63	0.23	0.212
990377	Soil	1.5	18.0	8.8	139	0.6	18.0	9.0	632	3.81	9.4	1.2	0.6	0.8	25	0.2	0.4	0.1	80	0.12	0.274
990378	Soil	1.5	22.8	10.3	155	0.7	19.3	10.6	1194	4.04	10.8	1.1	<0.5	1.1	73	0.3	0.4	0.1	97	0.86	0.260
990379	Soil	1.1	15.2	9.8	54	0.1	9.5	5.1	307	3.40	10.4	0.3	<0.5	0.1	21	0.2	0.6	0.1	98	0.07	0.077
990380	Soil	0.8	22.0	10.1	71	0.6	13.7	9.1	1842	2.95	9.8	0.4	1.1	<0.1	21	0.2	0.6	0.1	71	0.07	0.135
990381	Soil	1.1	16.9	7.9	95	0.3	14.5	7.7	573	2.95	7.9	0.7	3.8	<0.1	23	0.3	0.4	0.1	62	0.09	0.112
990382	Soil	1.3	13.6	9.1	96	0.1	13.9	9.8	781	3.28	8.8	0.7	2.2	0.4	73	0.2	0.6	<0.1	70	0.66	0.118
990383	Soil	1.4	20.6	12.6	88	0.2	16.6	12.0	1098	3.78	17.0	0.5	<0.5	0.4	36	0.2	0.6	<0.1	71	0.24	0.114
990384	Soil	1.0	14.7	9.0	65	0.1	12.7	6.2	273	4.16	11.5	0.4	<0.5	0.8	12	0.1	0.6	<0.1	73	0.06	0.069
990385	Soil	1.0	15.0	8.8	60	0.1	9.1	5.6	368	3.12	8.7	0.4	1.0	<0.1	14	0.2	0.7	0.1	67	0.04	0.068
990386	Soil	1.0	16.9	8.5	59	0.3	10.9	5.8	317	3.29	11.4	0.5	<0.5	<0.1	14	0.3	0.5	<0.1	62	0.08	0.106
990387	Soil	1.2	15.0	7.6	64	0.1	10.9	6.2	447	2.85	8.8	0.3	1.0	<0.1	19	0.2	0.7	0.1	72	0.06	0.053
990388	Soil	2.2	12.8	9.5	81	0.3	9.4	5.5	507	3.03	13.7	0.4	0.7	<0.1	38	0.2	0.5	0.1	69	0.32	0.082
990389	Soil	1.4	13.9	9.7	93	0.2	11.8	7.6	766	3.46	12.8	0.5	1.0	<0.1	38	0.2	0.5	0.1	67	0.30	0.119
990390	Soil	1.7	30.9	13.4	151	1.4	20.1	15.1	2111	4.17	12.3	1.3	1.7	0.7	69	0.5	0.4	0.1	81	0.49	0.313
990391	Soil	0.8	15.5	12.8	87	0.7	15.2	6.9	398	2.66	6.8	0.6	<0.5	0.1	41	0.3	0.5	<0.1	60	0.22	0.083
990392	Soil	1.2	18.0	11.6	70	0.2	13.4	6.8	328	3.90	11.6	0.6	0.8	0.1	23	0.3	0.7	<0.1	72	0.13	0.130
990393	Soil	1.2	13.0	18.7	66	0.2	9.1	6.0	446	4.46	16.2	0.4	<0.5	0.2	17	0.3	0.9	0.2	98	0.06	0.086
990394	Soil	1.2	20.3	13.7	94	0.5	14.6	8.4	441	3.69	12.0	0.9	1.5	0.2	32	<0.1	0.7	0.2	72	0.14	0.092
990395	Soil	1.1	18.5	12.9	89	1.0	15.0	7.9	417	3.33	10.1	0.7	0.7	0.2	29	0.1	0.6	0.2	64	0.12	0.084
990396	Soil	1.1	17.9	14.0	97	0.4	18.2	13.7	1102	3.59	11.9	0.6	1.2	0.2	51	0.2	0.9	<0.1	71	0.37	0.080
990397	Soil	1.6	17.3	10.3	112	0.6	17.5	11.4	1182	3.63	10.7	0.9	1.1	0.2	50	0.3	0.6	0.1	71	0.33	0.155
990398	Soil	1.1	17.8	10.2	93	0.5	14.6	10.0	629	3.43	8.8	0.7	1.2	<0.1	34	0.2	0.6	0.1	69	0.17	0.120
990399	Soil	0.6	11.0	8.4	60	0.6	8.4	4.4	281	2.27	5.5	0.7	2.1	<0.1	22	<0.1	0.4	0.1	50	0.07	0.145
990400	Soil	1.1	14.8	22.2	59	0.8	14.6	6.6	239	2.84	14.0	0.4	1.3	<0.1	19	0.2	0.9	0.1	63	0.11	0.076
990401	Soil	1.0	15.7	10.1	75	0.7	12.3	7.7	352	3.37	9.3	0.4	0.9	0.1	15	0.2	0.6	0.1	66	0.07	0.068
990402	Soil	1.3	12.5	13.7	59	0.7	11.7	6.4	256	3.00	10.8	0.6	1.0	<0.1	18	0.1	0.5	0.1	66	0.09	0.081
990403	Soil	0.5	8.3	9.3	16	1.5	2.7	1.2	41	0.76	2.6	0.3	1.1	<0.1	11	<0.1	0.1	0.1	30	0.03	0.053
990404	Soil	1.2	16.1	11.4	59	2.8	9.3	5.8	266	3.74	10.6	0.5	<0.5	0.1	12	0.3	0.6	<0.1	61	0.08	0.071
990405	Soil	1.0	14.8	9.2	67	0.7	11.5	9.8	439	2.68	9.4	0.5	1.2	<0.1	30	0.3	0.4	<0.1	51	0.22	0.095



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000218.1

Method	Analyte	1DX15	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	
990376	Soil	11	20	0.46	173	0.005	1	3.64	0.009	0.08	<0.1	0.17	1.9	0.2	<0.05	9	<0.5	<0.2
990377	Soil	10	25	0.62	202	0.011	2	4.13	0.009	0.11	0.1	0.12	7.3	0.2	<0.05	11	<0.5	<0.2
990378	Soil	25	24	0.70	293	0.009	<1	4.36	0.014	0.12	<0.1	0.09	14.5	0.2	<0.05	10	<0.5	<0.2
990379	Soil	5	17	0.21	68	0.063	2	1.58	0.006	0.05	<0.1	0.05	2.7	<0.1	<0.05	10	<0.5	<0.2
990380	Soil	7	21	0.37	108	0.026	3	2.28	0.010	0.07	<0.1	0.04	1.6	0.2	<0.05	9	<0.5	<0.2
990381	Soil	8	18	0.49	135	0.010	3	2.71	0.010	0.07	<0.1	0.05	1.6	<0.1	<0.05	8	0.6	<0.2
990382	Soil	14	18	0.56	137	0.057	3	2.18	0.022	0.08	<0.1	0.05	5.6	<0.1	<0.05	6	<0.5	<0.2
990383	Soil	15	21	0.51	149	0.010	1	3.13	0.011	0.09	<0.1	0.06	6.0	0.1	<0.05	10	<0.5	<0.2
990384	Soil	6	21	0.38	73	0.025	2	2.77	0.008	0.04	<0.1	0.10	4.3	<0.1	<0.05	8	<0.5	<0.2
990385	Soil	6	16	0.32	76	0.029	<1	2.19	0.008	0.05	<0.1	0.08	2.4	<0.1	<0.05	9	<0.5	<0.2
990386	Soil	7	18	0.34	71	0.021	2	2.84	0.008	0.05	<0.1	0.12	2.4	<0.1	<0.05	8	<0.5	<0.2
990387	Soil	6	17	0.32	133	0.015	2	2.30	0.008	0.06	<0.1	0.04	1.8	0.1	<0.05	9	<0.5	<0.2
990388	Soil	8	15	0.40	156	0.017	1	2.01	0.010	0.06	<0.1	0.05	2.1	<0.1	<0.05	9	<0.5	<0.2
990389	Soil	6	17	0.37	145	0.011	2	2.53	0.009	0.07	<0.1	0.05	1.5	<0.1	<0.05	9	<0.5	<0.2
990390	Soil	14	25	0.64	314	0.009	2	4.22	0.009	0.13	<0.1	0.12	6.7	0.3	<0.05	11	0.8	<0.2
990391	Soil	8	20	0.51	193	0.013	2	2.77	0.012	0.06	<0.1	0.10	2.1	<0.1	<0.05	9	<0.5	<0.2
990392	Soil	8	19	0.46	134	0.032	4	2.97	0.007	0.06	<0.1	0.11	3.6	<0.1	<0.05	10	<0.5	<0.2
990393	Soil	6	18	0.33	72	0.057	2	2.44	0.008	0.04	<0.1	0.09	3.0	0.1	<0.05	12	0.6	<0.2
990394	Soil	10	19	0.57	150	0.017	3	3.60	0.010	0.07	<0.1	0.14	3.6	<0.1	<0.05	10	<0.5	<0.2
990395	Soil	8	20	0.59	120	0.020	2	3.35	0.011	0.06	<0.1	0.11	3.1	<0.1	<0.05	9	<0.5	<0.2
990396	Soil	9	19	0.63	165	0.039	3	2.52	0.016	0.07	<0.1	0.05	3.7	<0.1	<0.05	8	<0.5	<0.2
990397	Soil	9	21	0.64	185	0.013	2	3.63	0.012	0.10	<0.1	0.10	2.9	0.1	<0.05	10	0.8	<0.2
990398	Soil	8	19	0.61	166	0.013	3	3.22	0.011	0.09	<0.1	0.08	2.1	0.1	<0.05	9	<0.5	<0.2
990399	Soil	7	15	0.34	118	0.010	1	2.91	0.009	0.07	<0.1	0.09	1.6	0.1	<0.05	9	<0.5	<0.2
990400	Soil	7	25	0.42	87	0.028	2	2.74	0.008	0.04	<0.1	0.12	1.9	<0.1	<0.05	9	0.6	<0.2
990401	Soil	6	19	0.48	78	0.014	2	3.30	0.009	0.06	<0.1	0.11	2.7	0.1	<0.05	8	<0.5	<0.2
990402	Soil	5	17	0.46	89	0.018	3	2.49	0.009	0.06	<0.1	0.12	2.0	<0.1	<0.05	9	0.5	<0.2
990403	Soil	4	9	0.08	49	0.007	2	1.75	0.006	0.04	<0.1	0.09	0.4	<0.1	<0.05	8	<0.5	<0.2
990404	Soil	6	18	0.37	71	0.024	3	3.46	0.007	0.04	<0.1	0.18	2.8	<0.1	<0.05	8	0.6	<0.2
990405	Soil	9	15	0.40	103	0.012	2	2.77	0.010	0.06	<0.1	0.06	1.4	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.



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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# CERTIFICATE OF ANALYSIS

# SMI13000218.1

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 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
				ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
990406	Soil			1.2	14.9	8.5	74	0.4	10.2	6.6	586	3.72	9.0	0.5	<0.5	<0.1	16	0.3	0.4	0.1	70	0.11	0.124
990407	Soil			1.1	16.0	12.3	69	0.4	11.6	7.7	983	4.75	18.5	0.5	1.6	<0.1	15	0.3	0.6	<0.1	85	0.13	0.245
990408	Soil			1.0	18.5	7.0	70	0.2	12.3	6.7	771	3.83	9.2	0.3	0.6	<0.1	16	0.2	0.4	0.1	77	0.10	0.111
990409	Soil			0.9	11.8	7.4	62	0.2	10.2	6.2	353	3.33	8.2	0.4	0.8	<0.1	12	0.3	0.4	0.1	66	0.06	0.072
6132200 630000	Soil			1.2	18.7	13.9	99	<0.1	10.1	7.6	335	3.51	18.0	0.4	2.8	1.1	22	0.2	1.0	0.2	63	0.24	0.057
6132200 630050	Soil			1.0	21.7	14.1	140	0.3	13.4	9.4	659	3.73	23.7	0.4	0.9	0.6	28	0.3	1.4	0.2	56	0.57	0.101
6132200 630100	Soil			1.4	13.6	16.9	36	0.1	5.0	2.7	107	3.63	23.8	0.3	1.6	0.1	9	0.3	1.3	0.2	73	0.06	0.030
6132200 630250	Soil			1.0	21.4	14.3	104	<0.1	12.2	9.5	606	3.63	22.5	0.4	2.1	0.5	23	0.2	1.5	0.2	58	0.37	0.050
6132200 630300	Soil			1.1	23.3	14.7	84	0.2	12.5	6.6	277	3.77	21.8	0.4	1.7	0.9	9	0.2	1.5	0.2	54	0.07	0.043
6132200 630350	Soil			1.2	26.7	16.0	62	0.7	9.7	5.6	379	4.97	19.8	0.5	1.8	0.4	8	0.5	1.3	0.1	45	0.08	0.077
6132200 630400	Soil			1.2	13.1	11.9	40	0.4	4.7	3.0	162	2.74	19.7	0.2	1.4	<0.1	7	0.1	1.4	0.2	50	0.03	0.073
6132200 630450	Soil			1.4	36.7	13.9	118	0.2	12.4	8.7	445	4.50	30.5	0.4	2.5	0.9	8	0.3	1.9	0.2	55	0.09	0.076
6132200 630500	Soil			1.2	18.0	9.2	87	1.0	7.2	7.5	1175	4.41	22.6	0.3	0.5	0.3	7	0.3	1.1	0.2	63	0.10	0.243
6132200 630550	Soil			1.4	25.0	10.6	102	0.6	10.6	7.3	425	4.46	23.6	0.4	1.4	0.6	16	0.6	1.5	0.1	50	0.26	0.081
6132200 630600	Soil			1.3	20.7	11.6	73	0.3	6.5	9.4	1043	3.23	23.0	0.4	0.8	<0.1	23	0.2	1.5	0.2	55	0.32	0.072
6132200 630650	Soil			0.9	16.4	8.2	82	0.3	9.6	5.9	350	3.53	15.0	0.3	3.1	0.2	14	0.1	0.9	0.1	50	0.20	0.072
6132200 630700	Soil			0.8	12.1	8.3	59	0.3	6.3	3.6	208	2.16	11.8	0.4	2.9	<0.1	22	<0.1	0.7	0.1	43	0.27	0.081
6132200 630750	Soil			1.4	15.0	21.0	66	0.3	6.9	7.2	562	6.70	31.1	0.4	1.7	0.7	9	0.1	1.3	0.2	73	0.09	0.081
6132200 630800	Soil			1.6	18.6	17.1	61	0.3	7.5	8.8	482	5.46	28.7	0.3	1.2	1.1	6	<0.1	1.3	0.2	72	0.08	0.067
6132200 630850	Soil			1.3	14.1	12.2	65	0.3	8.0	5.1	280	3.71	21.9	0.2	1.2	0.6	8	0.2	1.3	0.2	73	0.07	0.035
6132200 630900	Soil			6.6	45.7	20.0	137	1.1	14.6	14.1	2002	4.32	28.8	0.8	0.7	1.0	70	1.2	1.0	0.2	62	1.16	0.092
6132200 630950	Soil			1.1	15.4	15.5	106	0.2	10.0	7.9	369	4.73	28.3	0.3	0.6	0.9	9	0.2	1.6	0.1	55	0.12	0.109
6132200 631000	Soil			1.4	26.6	7.8	129	0.2	10.9	11.8	536	3.90	16.6	0.4	0.8	0.6	32	0.2	0.7	0.1	52	0.39	0.087
6132200 631050	Soil			1.3	20.0	4.5	66	0.3	4.4	5.1	425	4.02	3.7	0.3	1.0	<0.1	35	0.2	0.3	0.1	61	0.27	0.153
6132200 631100	Soil			1.0	14.0	4.6	27	<0.1	2.2	3.0	285	2.01	2.1	0.4	0.8	<0.1	17	<0.1	0.2	0.2	30	0.14	0.161
6132200 631150	Soil			1.4	20.8	2.6	29	0.3	2.9	2.2	93	1.55	1.5	0.3	2.6	<0.1	35	<0.1	0.2	0.1	18	0.23	0.235
6132200 631200	Soil			1.9	24.8	4.8	31	0.2	3.5	2.2	254	1.43	1.8	0.4	2.7	<0.1	31	<0.1	0.2	0.2	24	0.27	0.141
6132200 631250	Soil			0.9	24.2	12.2	82	0.2	8.3	9.6	659	3.81	19.5	0.3	1.5	0.8	9	0.2	1.3	<0.1	41	0.17	0.089
6132200 631300	Soil			1.4	14.6	19.2	75	0.4	6.3	4.7	300	6.34	36.2	0.2	3.1	0.8	5	0.2	2.3	0.2	57	0.06	0.044
6132200 631350	Soil			1.1	12.5	11.6	44	0.4	5.4	3.0	176	2.78	16.9	0.2	2.4	0.1	7	0.2	0.9	0.1	38	0.04	0.045



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

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 15th Floor - 1040 West Georgia Street  
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# CERTIFICATE OF ANALYSIS

SMI13000218.1

Method	Analyte	1DX15	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	
990406	Soil	7	17	0.37	100	0.020	2	2.26	0.008	0.06	<0.1	0.11	1.7	0.1	<0.05	10	<0.5	<0.2
990407	Soil	6	22	0.40	81	0.028	2	2.62	0.009	0.04	<0.1	0.10	1.8	<0.1	<0.05	9	<0.5	<0.2
990408	Soil	4	22	0.41	78	0.009	2	2.83	0.006	0.08	<0.1	0.08	1.3	0.1	<0.05	10	<0.5	<0.2
990409	Soil	6	17	0.38	83	0.011	2	2.68	0.007	0.06	<0.1	0.08	1.4	0.1	<0.05	10	<0.5	<0.2
6132200 630000	Soil	9	17	0.29	150	0.005	1	2.56	0.009	0.06	0.1	0.06	6.0	0.1	<0.05	8	<0.5	<0.2
6132200 630050	Soil	9	16	0.45	148	0.007	2	2.31	0.010	0.07	0.1	0.06	6.0	0.1	<0.05	6	<0.5	<0.2
6132200 630100	Soil	6	14	0.13	57	0.007	1	1.70	0.005	0.04	0.1	0.05	2.0	<0.1	<0.05	9	<0.5	<0.2
6132200 630250	Soil	8	17	0.44	111	0.008	2	2.10	0.009	0.06	<0.1	0.04	4.9	<0.1	<0.05	6	<0.5	<0.2
6132200 630300	Soil	6	19	0.46	97	0.006	2	2.90	0.007	0.06	<0.1	0.09	4.8	0.1	<0.05	7	<0.5	<0.2
6132200 630350	Soil	6	21	0.25	69	0.010	3	2.82	0.005	0.04	0.1	0.20	3.9	0.1	<0.05	5	0.8	<0.2
6132200 630400	Soil	7	11	0.13	46	0.009	2	1.36	0.006	0.04	<0.1	0.06	1.4	0.1	<0.05	7	<0.5	<0.2
6132200 630450	Soil	8	15	0.45	115	0.006	1	3.33	0.009	0.09	0.1	0.09	6.1	0.1	<0.05	8	<0.5	<0.2
6132200 630500	Soil	6	13	0.34	71	0.008	2	2.19	0.007	0.05	0.1	0.10	3.3	<0.1	<0.05	7	<0.5	<0.2
6132200 630550	Soil	7	13	0.44	117	0.007	1	2.74	0.009	0.07	0.1	0.09	4.9	<0.1	<0.05	7	<0.5	<0.2
6132200 630600	Soil	8	11	0.25	116	0.005	<1	1.90	0.011	0.08	0.1	0.04	1.9	<0.1	<0.05	7	<0.5	<0.2
6132200 630650	Soil	7	13	0.53	89	0.009	2	2.30	0.009	0.07	<0.1	0.04	3.5	<0.1	<0.05	7	<0.5	<0.2
6132200 630700	Soil	6	12	0.27	95	0.004	1	1.86	0.010	0.07	0.1	0.07	1.7	0.1	<0.05	7	<0.5	<0.2
6132200 630750	Soil	5	18	0.31	90	0.037	1	2.50	0.006	0.03	0.2	0.11	4.9	<0.1	<0.05	8	0.5	<0.2
6132200 630800	Soil	5	14	0.25	66	0.028	2	3.01	0.007	0.04	0.2	0.09	5.8	<0.1	<0.05	8	0.6	<0.2
6132200 630850	Soil	6	12	0.31	83	0.015	<1	2.30	0.008	0.06	0.1	0.05	3.8	0.1	<0.05	11	<0.5	<0.2
6132200 630900	Soil	13	18	0.49	297	0.003	<1	3.65	0.016	0.11	0.1	0.13	12.4	0.2	<0.05	8	0.7	<0.2
6132200 630950	Soil	6	16	0.39	73	0.028	2	3.32	0.008	0.06	0.1	0.08	4.8	<0.1	<0.05	6	<0.5	<0.2
6132200 631000	Soil	9	12	0.44	208	0.014	<1	3.52	0.010	0.07	0.2	0.08	5.4	<0.1	<0.05	7	<0.5	<0.2
6132200 631050	Soil	4	9	0.21	292	0.027	<1	2.48	0.008	0.04	0.2	0.15	1.9	<0.1	<0.05	7	<0.5	<0.2
6132200 631100	Soil	5	7	0.07	239	0.021	<1	1.61	0.006	0.06	0.2	0.14	1.0	<0.1	<0.05	4	<0.5	<0.2
6132200 631150	Soil	4	7	0.07	185	0.003	1	2.41	0.006	0.04	0.2	0.18	0.4	0.1	0.06	3	0.6	<0.2
6132200 631200	Soil	5	7	0.07	234	0.009	<1	1.63	0.008	0.06	0.1	0.10	0.4	0.1	<0.05	4	<0.5	<0.2
6132200 631250	Soil	7	11	0.42	81	0.025	1	3.24	0.009	0.04	0.1	0.10	5.2	<0.1	<0.05	5	<0.5	<0.2
6132200 631300	Soil	5	15	0.33	40	0.026	1	2.46	0.006	0.03	0.1	0.08	4.8	<0.1	<0.05	8	<0.5	<0.2
6132200 631350	Soil	5	11	0.19	54	0.009	<1	1.73	0.007	0.04	0.1	0.08	2.0	0.1	<0.05	6	<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.



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Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

**Project:** SIVI  
**Report Date:** August 30, 2013

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**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

# SMI13000218.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
				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	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
6132200 631400	Soil			1.3	15.8	13.4	54	0.3	5.5	4.6	312	5.81	31.7	0.2	2.1	0.5	7	<0.1	1.5	0.2	79	0.09	0.118	
6132200 631450	Soil			1.2	15.0	11.2	73	0.2	6.9	5.5	263	4.44	21.9	0.2	0.7	0.5	7	0.2	1.2	0.2	56	0.08	0.063	
6132200 631500	Soil			1.1	11.8	14.1	70	0.2	6.2	4.7	258	5.22	28.3	0.3	0.8	0.9	6	0.1	1.8	0.2	77	0.05	0.036	
6132200 631550	Soil			1.6	8.4	9.6	53	0.3	4.4	3.8	220	2.64	17.3	0.2	0.7	0.6	9	<0.1	1.1	0.2	55	0.07	0.025	
6132200 631600	Soil			1.2	12.9	9.8	77	0.3	8.1	6.2	499	3.74	20.8	0.2	1.1	0.3	6	0.1	1.1	0.2	58	0.05	0.058	
6132200 631650	Soil			1.5	13.9	12.2	74	0.2	7.1	5.1	348	4.33	23.8	0.2	1.3	0.5	7	0.2	1.2	0.2	59	0.07	0.055	
6132200 631700	Soil			1.5	23.4	12.4	110	0.1	11.4	11.9	610	3.56	18.6	0.3	0.9	0.5	23	0.2	0.9	0.1	51	0.30	0.036	
6132200 631750	Soil			1.7	14.8	11.3	55	0.5	6.5	4.9	228	3.54	20.6	0.2	1.5	0.6	10	0.2	1.4	0.2	57	0.12	0.043	
6132200 631800	Soil			1.8	13.5	11.5	74	0.2	5.8	5.5	470	4.36	17.1	0.2	<0.5	0.6	10	0.1	1.0	0.2	64	0.09	0.062	
6132200 631850	Soil			2.1	13.3	10.3	69	0.3	5.3	6.0	314	3.46	12.5	0.2	0.6	0.5	19	0.1	0.7	0.2	54	0.21	0.037	
6132200 631900	Soil			1.3	15.8	10.2	64	0.3	6.6	6.0	347	4.01	20.5	0.2	0.6	0.5	8	0.3	1.3	0.1	59	0.07	0.050	
6132200 631950	Soil			1.0	16.0	10.8	92	0.2	9.0	7.2	375	3.80	17.8	0.3	1.4	0.6	10	0.2	1.1	0.2	54	0.09	0.043	
6132200 632000	Soil			0.9	13.9	8.9	69	0.3	8.3	5.3	304	3.19	16.2	0.3	2.7	0.2	12	0.2	0.9	0.2	58	0.12	0.037	





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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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Part: 2 of 2

# CERTIFICATE OF ANALYSIS

SMI13000218.1

Method	Analyte	1DX15	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	
6132200 631400	Soil	6	13	0.24	64	0.036	2	1.89	0.006	0.04	0.2	0.07	3.9	0.1	<0.05	10	<0.5	<0.2
6132200 631450	Soil	6	12	0.33	85	0.022	1	2.41	0.008	0.04	0.2	0.07	4.3	<0.1	<0.05	8	<0.5	<0.2
6132200 631500	Soil	6	15	0.25	67	0.025	2	2.35	0.007	0.04	0.2	0.08	4.5	<0.1	<0.05	9	<0.5	<0.2
6132200 631550	Soil	6	10	0.17	122	0.022	1	1.41	0.007	0.03	0.1	0.03	3.0	<0.1	<0.05	7	<0.5	<0.2
6132200 631600	Soil	6	14	0.39	75	0.011	<1	2.17	0.009	0.06	0.1	0.05	4.2	0.1	<0.05	9	<0.5	<0.2
6132200 631650	Soil	5	13	0.28	75	0.012	1	2.32	0.008	0.05	0.1	0.08	4.0	0.1	<0.05	8	<0.5	<0.2
6132200 631700	Soil	7	15	0.46	160	0.012	1	2.36	0.011	0.06	<0.1	0.03	4.6	0.1	<0.05	6	<0.5	<0.2
6132200 631750	Soil	6	13	0.20	82	0.012	<1	2.24	0.008	0.04	0.1	0.07	3.7	<0.1	<0.05	7	<0.5	<0.2
6132200 631800	Soil	6	12	0.20	107	0.018	<1	2.26	0.009	0.05	0.2	0.05	4.0	<0.1	<0.05	10	<0.5	<0.2
6132200 631850	Soil	6	10	0.16	92	0.017	<1	2.23	0.009	0.04	0.1	0.07	3.8	<0.1	<0.05	8	<0.5	<0.2
6132200 631900	Soil	6	11	0.36	85	0.022	<1	2.01	0.008	0.05	0.2	0.04	4.0	<0.1	<0.05	8	<0.5	<0.2
6132200 631950	Soil	7	14	0.40	118	0.011	<1	2.74	0.010	0.07	<0.1	0.05	5.0	0.2	<0.05	9	<0.5	<0.2
6132200 632000	Soil	6	14	0.38	97	0.008	<1	2.26	0.009	0.07	0.1	0.03	3.8	0.1	<0.05	8	<0.5	<0.2

## QUALITY CONTROL REPORT

SMI13000218.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
988955	Soil	0.9	13.7	5.9	61	0.2	5.1	4.6	516	2.65	8.4	0.3	<0.5	0.2	21	0.2	0.3	0.4	46	0.11	0.148
REP 988955	QC	1.0	13.6	5.8	59	0.2	4.9	4.4	513	2.61	8.3	0.4	0.7	0.2	20	0.2	0.3	0.2	45	0.11	0.139
988963	Soil	1.7	108.5	14.5	109	0.8	8.4	5.6	254	3.39	27.3	1.0	0.6	0.2	16	0.2	2.4	0.4	44	0.09	0.060
REP 988963	QC	1.6	108.7	14.6	109	0.7	8.3	5.6	253	3.40	27.1	1.0	1.2	0.2	16	0.2	2.4	0.3	43	0.09	0.059
988991	Soil	2.7	34.0	22.2	129	1.2	15.0	13.7	1664	4.02	46.9	3.8	4.2	0.9	108	1.5	1.6	0.2	41	1.46	0.129
REP 988991	QC	2.7	33.6	22.8	127	1.3	14.2	14.1	1675	3.98	47.2	3.9	3.9	1.0	108	1.2	1.4	0.2	40	1.44	0.129
988999	Soil	2.7	17.8	25.0	142	0.7	9.3	13.2	1673	4.49	44.6	0.5	2.0	0.7	99	0.8	2.4	0.2	54	0.72	0.101
REP 988999	QC	2.7	17.8	25.7	139	0.7	8.9	13.7	1664	4.46	43.6	0.6	3.4	0.7	105	0.6	2.5	0.2	52	0.77	0.102
990156	Soil	3.1	10.4	18.0	76	0.1	3.4	7.6	735	3.12	14.6	0.8	0.7	1.4	14	<0.1	0.7	0.1	41	0.22	0.109
REP 990156	QC	2.6	10.4	18.1	75	0.1	3.0	7.6	725	3.07	13.5	0.8	<0.5	1.4	14	0.2	0.9	<0.1	41	0.20	0.107
990164	Soil	3.2	24.8	19.8	84	0.3	7.2	5.3	447	4.72	37.8	0.5	2.0	0.8	19	0.1	1.9	0.2	76	0.14	0.055
REP 990164	QC	3.1	23.2	19.9	81	0.3	7.0	5.3	431	4.39	37.5	0.5	0.8	0.8	19	0.2	1.8	0.2	74	0.14	0.053
990192	Soil	2.1	22.6	18.4	104	0.4	7.5	7.2	315	4.52	34.3	0.5	<0.5	0.9	20	0.2	1.6	0.2	81	0.11	0.092
REP 990192	QC	2.2	22.1	19.1	106	0.5	8.2	7.3	320	4.62	34.1	0.5	2.3	0.9	20	0.2	1.7	0.2	80	0.11	0.092
990200	Soil	20.6	47.9	6.9	15	0.3	2.1	1.3	48	1.73	15.5	0.3	17.5	0.1	9	<0.1	8.6	0.6	41	0.02	0.063
REP 990200	QC	20.6	49.0	7.3	14	0.3	2.2	1.2	49	1.71	15.7	0.3	23.4	0.1	9	<0.1	8.4	0.5	38	0.03	0.063
990228	Soil	3.2	44.5	44.4	159	0.5	6.4	7.1	267	5.38	84.1	0.7	8.9	0.2	7	0.3	2.9	1.1	50	0.03	0.144
REP 990228	QC	3.2	45.2	43.4	159	0.5	6.1	7.6	262	5.44	81.0	0.7	12.4	0.2	7	0.4	3.0	1.0	48	0.03	0.147
990236	Soil	2.8	99.8	57.7	56	1.3	4.1	3.2	359	5.46	56.4	0.5	33.4	0.1	6	0.2	32.9	3.9	51	0.03	0.165
REP 990236	QC	2.5	101.2	57.1	57	1.3	4.1	3.3	343	5.54	57.9	0.5	23.3	0.2	7	0.2	34.6	4.1	54	0.03	0.162
990264	Soil	0.7	14.9	9.5	59	<0.1	7.0	6.5	459	3.13	9.3	0.5	<0.5	<0.1	16	0.1	0.3	0.1	53	0.09	0.117
REP 990264	QC	0.7	15.4	9.7	61	<0.1	7.2	6.7	466	3.25	9.9	0.5	<0.5	<0.1	16	<0.1	0.4	0.1	55	0.10	0.122
990272	Soil	1.3	17.8	14.7	89	0.2	6.7	5.2	277	5.13	30.9	0.4	2.1	1.2	6	0.3	2.5	<0.1	41	0.07	0.048
REP 990272	QC	1.2	17.8	14.8	91	0.2	6.8	5.3	281	5.03	30.5	0.4	2.0	1.1	6	0.2	2.4	<0.1	42	0.07	0.049
990300	Soil	1.8	18.1	13.5	92	0.3	5.6	5.5	331	3.17	35.8	0.3	1.2	0.4	25	0.3	3.0	0.2	50	0.35	0.061
REP 990300	QC	1.7	18.3	13.0	90	0.3	5.1	5.6	334	3.47	34.4	0.3	1.1	0.4	25	0.3	2.9	0.2	52	0.35	0.055
990308	Soil	1.3	27.3	15.5	114	0.2	11.3	6.6	360	3.94	32.0	0.6	2.4	1.0	9	0.2	2.8	0.1	52	0.10	0.074
REP 990308	QC	1.3	28.4	15.5	121	0.3	11.9	7.1	365	4.05	31.8	0.6	2.9	0.9	9	0.2	2.8	0.1	53	0.10	0.068

# QUALITY CONTROL REPORT

SMI13000218.1

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																		
988955	Soil	5	8	0.21	128	0.003	1	1.86	0.007	0.09	<0.1	0.05	2.0	0.1	<0.05	7	<0.5	<0.2
REP 988955	QC	5	8	0.20	127	0.003	<1	1.84	0.007	0.09	<0.1	0.03	1.9	0.1	<0.05	7	<0.5	<0.2
988963	Soil	11	10	0.36	110	0.009	2	2.20	0.008	0.06	<0.1	0.11	3.2	0.1	<0.05	6	0.6	<0.2
REP 988963	QC	11	10	0.36	111	0.008	2	2.20	0.008	0.06	0.1	0.11	3.2	0.1	<0.05	6	1.0	<0.2
988991	Soil	23	13	0.43	204	0.002	<1	2.96	0.016	0.07	0.2	0.21	10.6	0.2	<0.05	6	1.4	<0.2
REP 988991	QC	23	13	0.44	210	0.002	2	3.05	0.018	0.07	0.2	0.18	10.5	0.2	<0.05	5	1.2	<0.2
988999	Soil	12	13	0.38	214	0.002	3	2.64	0.012	0.09	0.1	0.06	7.1	0.1	<0.05	7	<0.5	<0.2
REP 988999	QC	12	12	0.38	213	0.002	3	2.69	0.012	0.09	0.2	0.07	6.9	0.1	<0.05	7	0.7	<0.2
990156	Soil	9	5	0.28	241	0.001	3	1.84	0.005	0.12	0.1	0.04	2.2	0.1	<0.05	7	<0.5	<0.2
REP 990156	QC	9	5	0.29	242	0.001	3	1.85	0.005	0.12	0.1	0.04	2.4	0.1	<0.05	7	<0.5	<0.2
990164	Soil	7	13	0.16	157	0.006	4	1.70	0.005	0.05	0.1	0.06	2.8	0.1	<0.05	8	<0.5	<0.2
REP 990164	QC	7	13	0.16	154	0.008	4	1.70	0.005	0.05	0.2	0.04	2.9	0.1	<0.05	8	<0.5	<0.2
990192	Soil	6	12	0.22	281	0.005	2	2.29	0.008	0.06	0.1	0.10	4.2	<0.1	<0.05	8	<0.5	<0.2
REP 990192	QC	6	12	0.23	287	0.005	3	2.37	0.007	0.06	0.1	0.07	4.1	<0.1	<0.05	8	0.7	0.2
990200	Soil	7	7	0.06	39	0.003	<1	0.84	0.004	0.04	1.4	0.03	0.7	0.2	<0.05	7	<0.5	<0.2
REP 990200	QC	7	7	0.06	39	0.003	1	0.86	0.004	0.05	1.0	0.04	0.8	0.2	<0.05	7	<0.5	<0.2
990228	Soil	7	10	0.13	55	0.004	1	1.90	0.004	0.03	<0.1	0.05	0.7	0.1	<0.05	7	0.9	0.5
REP 990228	QC	7	10	0.13	53	0.004	<1	1.91	0.004	0.03	<0.1	0.04	0.7	0.1	<0.05	7	0.8	0.5
990236	Soil	5	11	0.12	41	0.005	1	2.10	0.005	0.03	0.2	0.15	1.2	<0.1	<0.05	9	1.1	1.2
REP 990236	QC	5	11	0.13	39	0.006	2	2.07	0.005	0.03	0.2	0.14	1.2	<0.1	<0.05	8	1.2	1.1
990264	Soil	6	10	0.33	94	0.009	2	2.34	0.006	0.04	<0.1	0.06	1.0	<0.1	0.05	7	<0.5	<0.2
REP 990264	QC	6	10	0.33	95	0.009	2	2.41	0.006	0.04	<0.1	0.07	1.1	<0.1	<0.05	7	0.6	<0.2
990272	Soil	5	12	0.39	67	0.008	2	3.95	0.008	0.04	0.1	0.07	6.0	<0.1	<0.05	6	<0.5	<0.2
REP 990272	QC	5	12	0.40	66	0.008	2	3.79	0.008	0.04	0.1	0.09	5.8	<0.1	<0.05	6	<0.5	<0.2
990300	Soil	11	9	0.23	174	0.004	1	1.84	0.009	0.07	0.1	0.03	4.3	<0.1	<0.05	7	<0.5	<0.2
REP 990300	QC	11	9	0.23	179	0.005	1	1.76	0.010	0.07	0.1	0.04	4.6	<0.1	<0.05	7	<0.5	<0.2
990308	Soil	7	18	0.43	111	0.010	2	3.51	0.009	0.06	0.1	0.14	6.4	<0.1	<0.05	6	<0.5	<0.2
REP 990308	QC	7	18	0.42	110	0.009	3	3.55	0.009	0.06	0.1	0.14	6.5	0.1	<0.05	6	0.6	<0.2



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client:** Amarc Resources Ltd.  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

**Project:** SIVI  
**Report Date:** August 30, 2013

**Page:** 2 of 3

**Part:** 1 of 2

# QUALITY CONTROL REPORT

SMI13000218.1

		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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
990336	Soil	1.2	25.5	35.2	193	0.2	14.8	16.6	703	4.68	43.8	0.5	2.5	0.7	15	0.3	4.6	0.2	58	0.17	0.089
REP 990336	QC	1.2	25.5	35.5	190	0.3	15.0	16.5	731	4.71	43.7	0.5	0.9	0.7	16	0.4	4.6	0.1	58	0.17	0.091
990344	Soil	1.1	15.7	9.9	57	0.4	7.7	5.1	312	3.14	18.8	0.4	3.7	0.2	13	0.2	1.4	0.2	57	0.09	0.078
REP 990344	QC	1.2	15.2	9.7	58	0.4	7.5	5.1	313	3.25	18.5	0.4	2.1	<0.1	13	0.3	1.3	0.2	56	0.08	0.079
990372	Soil	1.1	15.8	10.3	61	0.2	11.9	6.0	316	3.20	9.9	0.4	1.4	<0.1	14	0.3	0.6	0.1	64	0.04	0.077
REP 990372	QC	1.1	14.7	10.0	56	0.2	11.4	6.0	329	3.29	9.6	0.5	1.0	<0.1	14	0.2	0.6	0.1	62	0.04	0.075
990380	Soil	0.8	22.0	10.1	71	0.6	13.7	9.1	1842	2.95	9.8	0.4	1.1	<0.1	21	0.2	0.6	0.1	71	0.07	0.135
REP 990380	QC	1.0	22.4	10.1	70	0.6	11.6	8.6	1772	2.84	9.7	0.4	1.1	<0.1	20	0.2	0.6	0.1	68	0.07	0.141
990408	Soil	1.0	18.5	7.0	70	0.2	12.3	6.7	771	3.83	9.2	0.3	0.6	<0.1	16	0.2	0.4	0.1	77	0.10	0.111
REP 990408	QC	1.0	18.5	7.2	73	0.2	11.8	7.2	789	3.77	8.7	0.3	1.5	<0.1	15	0.2	0.5	0.1	77	0.11	0.116
6132200 630400	Soil	1.2	13.1	11.9	40	0.4	4.7	3.0	162	2.74	19.7	0.2	1.4	<0.1	7	0.1	1.4	0.2	50	0.03	0.073
REP 6132200 630400	QC	1.0	13.3	11.7	39	0.3	5.2	3.0	156	2.65	19.2	0.2	1.2	0.1	7	<0.1	1.3	0.2	48	0.04	0.076
6132200 631550	Soil	1.6	8.4	9.6	53	0.3	4.4	3.8	220	2.64	17.3	0.2	0.7	0.6	9	<0.1	1.1	0.2	55	0.07	0.025
REP 6132200 631550	QC	1.6	8.8	9.6	53	0.3	4.6	3.8	226	2.64	17.1	0.2	6.1	0.5	9	<0.1	1.2	0.2	56	0.07	0.026
6132200 632000	Soil	0.9	13.9	8.9	69	0.3	8.3	5.3	304	3.19	16.2	0.3	2.7	0.2	12	0.2	0.9	0.2	58	0.12	0.037
REP 6132200 632000	QC	0.8	14.1	9.0	70	0.3	8.0	5.0	299	2.86	16.0	0.3	0.6	0.3	11	0.2	0.8	0.2	56	0.10	0.039
Reference Materials																					
STD DS9	Standard	13.9	107.5	133.6	316	1.8	41.3	7.9	616	2.43	26.4	2.9	123.2	6.7	90	2.8	6.2	7.3	44	0.76	0.085
STD DS9	Standard	12.4	101.8	126.2	303	1.8	37.8	7.4	562	2.25	25.9	2.7	126.1	6.5	73	2.2	6.5	6.3	37	0.68	0.082
STD DS9	Standard	11.9	99.8	124.8	298	1.7	36.0	6.9	544	2.19	25.2	2.8	100.7	6.4	75	2.1	6.2	6.3	36	0.66	0.077
STD DS9	Standard	13.1	109.1	130.3	321	1.9	40.7	7.4	593	2.35	27.4	2.8	121.6	6.4	83	2.5	6.7	7.2	41	0.70	0.079
STD DS9	Standard	12.5	97.7	129.2	298	1.7	37.9	6.9	558	2.18	25.0	2.8	111.9	6.1	75	2.0	6.1	7.0	39	0.68	0.080
STD DS9	Standard	14.3	107.1	124.5	308	1.8	40.2	7.2	588	2.34	25.5	2.5	118.6	5.9	69	2.3	5.3	6.2	42	0.74	0.084
STD DS9	Standard	13.0	105.4	123.4	307	1.9	39.4	7.9	592	2.40	23.9	2.5	114.7	6.2	70	2.2	5.2	6.0	43	0.74	0.077
STD DS9	Standard	12.9	100.4	117.6	291	1.7	37.9	7.2	577	2.34	24.9	2.7	113.4	7.1	70	2.2	5.1	6.0	41	0.73	0.079
STD DS9	Standard	13.3	103.8	122.7	305	1.9	40.0	7.2	602	2.33	24.4	2.6	113.8	6.3	68	2.4	5.3	5.7	43	0.74	0.079
STD DS9	Standard	12.4	103.5	124.0	313	1.9	39.0	7.2	583	2.28	25.3	2.7	111.4	5.8	73	2.6	6.4	6.7	40	0.69	0.080
STD DS9	Standard	13.6	96.2	115.2	300	1.8	39.1	7.2	582	2.26	24.4	2.5	114.8	6.3	67	2.4	5.0	6.0	41	0.74	0.075
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819

# QUALITY CONTROL REPORT

SMI13000218.1

		1DX15	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
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
990336	Soil	7	18	0.47	133	0.007	2	3.26	0.009	0.07	0.1	0.12	6.2	0.1	<0.05	6	<0.5	<0.2
REP 990336	QC	7	19	0.49	141	0.007	3	3.28	0.009	0.08	0.1	0.13	5.9	0.1	<0.05	6	<0.5	<0.2
990344	Soil	6	15	0.28	100	0.005	1	1.81	0.007	0.04	0.1	0.06	1.3	<0.1	<0.05	8	<0.5	<0.2
REP 990344	QC	6	14	0.28	100	0.005	<1	1.80	0.007	0.04	0.1	0.06	1.6	<0.1	<0.05	8	<0.5	<0.2
990372	Soil	6	18	0.39	82	0.016	3	2.45	0.007	0.05	<0.1	0.08	1.8	<0.1	<0.05	8	<0.5	<0.2
REP 990372	QC	6	18	0.38	83	0.016	3	2.46	0.007	0.05	<0.1	0.08	1.9	<0.1	<0.05	9	<0.5	<0.2
990380	Soil	7	21	0.37	108	0.026	3	2.28	0.010	0.07	<0.1	0.04	1.6	0.2	<0.05	9	<0.5	<0.2
REP 990380	QC	7	20	0.36	105	0.026	3	2.21	0.009	0.06	<0.1	0.05	1.5	0.2	<0.05	9	<0.5	<0.2
990408	Soil	4	22	0.41	78	0.009	2	2.83	0.006	0.08	<0.1	0.08	1.3	0.1	<0.05	10	<0.5	<0.2
REP 990408	QC	4	22	0.39	76	0.009	2	2.82	0.006	0.08	<0.1	0.07	1.4	0.1	<0.05	10	<0.5	<0.2
6132200 630400	Soil	7	11	0.13	46	0.009	2	1.36	0.006	0.04	<0.1	0.06	1.4	0.1	<0.05	7	<0.5	<0.2
REP 6132200 630400	QC	7	11	0.13	46	0.009	2	1.35	0.005	0.04	<0.1	0.06	1.5	0.1	<0.05	7	<0.5	<0.2
6132200 631550	Soil	6	10	0.17	122	0.022	1	1.41	0.007	0.03	0.1	0.03	3.0	<0.1	<0.05	7	<0.5	<0.2
REP 6132200 631550	QC	6	10	0.18	123	0.021	1	1.46	0.007	0.03	<0.1	0.03	3.0	<0.1	<0.05	7	<0.5	<0.2
6132200 632000	Soil	6	14	0.38	97	0.008	<1	2.26	0.009	0.07	0.1	0.03	3.8	0.1	<0.05	8	<0.5	<0.2
REP 6132200 632000	QC	6	14	0.38	96	0.007	<1	2.29	0.009	0.06	<0.1	0.03	3.8	0.1	<0.05	8	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	16	126	0.66	327	0.129	4	1.01	0.093	0.41	3.2	0.20	2.9	5.4	0.13	5	6.1	5.1
STD DS9	Standard	13	111	0.59	289	0.107	3	0.90	0.083	0.39	2.8	0.22	2.6	5.3	0.14	5	5.2	4.9
STD DS9	Standard	14	107	0.58	293	0.110	2	0.91	0.082	0.37	3.0	0.19	2.4	4.9	0.10	4	4.7	4.4
STD DS9	Standard	14	120	0.66	290	0.112	2	0.95	0.089	0.39	3.1	0.22	2.6	5.5	0.08	5	5.1	6.1
STD DS9	Standard	14	111	0.60	299	0.109	2	0.93	0.079	0.37	3.0	0.19	2.7	5.3	0.07	4	4.3	5.6
STD DS9	Standard	15	126	0.61	306	0.106	2	0.99	0.086	0.40	2.9	0.18	2.7	5.2	0.12	5	5.3	4.3
STD DS9	Standard	16	124	0.61	317	0.111	3	1.00	0.083	0.39	3.1	0.21	3.0	5.3	0.09	5	4.8	5.2
STD DS9	Standard	17	119	0.65	302	0.113	2	1.06	0.091	0.40	3.0	0.20	3.1	5.2	0.12	4	5.8	5.0
STD DS9	Standard	15	121	0.64	300	0.106	3	0.99	0.092	0.38	3.1	0.19	2.7	5.2	0.09	5	5.1	4.7
STD DS9	Standard	12	115	0.63	292	0.106	2	0.90	0.076	0.40	3.2	0.22	2.5	5.2	0.16	5	5.3	4.3
STD DS9	Standard	15	117	0.59	292	0.104	2	0.99	0.085	0.39	2.8	0.21	2.8	5.1	0.11	5	4.3	4.9
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



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: August 30, 2013

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# QUALITY CONTROL REPORT

SMI13000218.1

		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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client:** Amarc Resources Ltd.  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

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**Report Date:** August 30, 2013

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# QUALITY CONTROL REPORT

SMI13000218.1

		1DX15	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
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
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
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
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



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Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: Amarc Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Submitted By: Ted Oliver
Receiving Lab: Canada-Smithers
Received: August 22, 2013
Report Date: September 05, 2013
Page: 1 of 7

CERTIFICATE OF ANALYSIS

SMI13000230.1

CLIENT JOB INFORMATION

Project: SIVI
Shipment ID: 13S05
P.O. Number: SIVI\_SSN13S03\_Aug2213
Number of Samples: 169

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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: Amarc Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Procedure Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2 procedures.

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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Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

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# CERTIFICATE OF ANALYSIS

SMI13000230.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
988265	Soil		1.0	19.3	39.9	139	0.2	15.7	13.1	1600	4.16	20.8	1.9	<0.5	0.3	14	0.4	1.1	1.1	65	0.11	0.067
988267	Soil		1.1	21.8	131.2	146	0.2	17.0	13.2	1114	3.50	61.7	15.4	4.2	2.1	20	0.3	1.6	0.7	55	0.31	0.091
988268	Soil		1.5	21.5	25.2	115	0.1	16.6	10.5	739	3.48	31.4	4.3	37.8	0.4	14	0.2	0.9	0.6	60	0.11	0.134
988269	Soil		4.0	22.4	16.7	105	0.3	15.6	9.3	802	3.81	24.1	21.7	2.4	0.1	10	0.3	0.7	0.7	57	0.05	0.240
988270	Soil		3.8	15.5	9.1	164	0.5	17.5	8.7	666	3.53	35.2	39.6	4.3	0.3	20	0.3	1.4	0.5	59	0.18	0.220
988271	Soil		5.8	18.1	25.6	202	0.8	17.0	7.4	396	3.63	75.7	55.6	1.0	<0.1	30	0.7	1.6	0.6	58	0.39	0.178
988272	Soil		3.7	32.9	16.5	505	1.4	24.5	12.2	964	4.20	56.8	74.7	7.3	0.3	43	2.6	1.5	0.5	66	0.23	0.190
988273	Soil		2.0	12.2	45.9	680	0.5	14.1	7.2	509	3.05	163.3	57.0	<0.5	0.2	31	3.1	2.2	0.4	50	0.33	0.111
988274	Soil		1.3	15.8	9.0	68	<0.1	9.1	5.7	455	3.89	16.1	0.7	0.6	<0.1	12	0.1	0.5	0.3	60	0.04	0.110
988275	Soil		1.6	14.6	9.9	55	0.1	7.6	4.4	317	3.00	12.0	0.7	<0.5	<0.1	13	0.2	0.4	0.4	64	0.03	0.077
988276	Soil		1.5	18.5	10.7	77	0.5	14.1	6.5	328	3.09	18.9	2.5	1.7	<0.1	16	0.5	0.5	0.4	47	0.12	0.171
988277	Soil		1.4	16.3	10.3	71	0.2	11.1	5.6	385	3.00	16.6	0.8	<0.5	<0.1	16	0.3	0.5	0.4	62	0.07	0.113
988278	Soil		1.6	20.3	11.6	174	0.8	15.0	6.5	316	3.00	60.1	3.2	0.9	0.1	20	0.3	0.7	0.3	53	0.07	0.138
988279	Soil		1.5	9.6	23.8	53	0.3	6.8	4.3	302	2.43	16.9	0.8	<0.5	<0.1	28	0.5	0.5	0.4	57	0.29	0.078
988280	Soil		1.2	19.0	11.9	75	0.3	11.6	7.3	617	3.98	22.3	0.4	<0.5	<0.1	13	0.7	0.5	0.3	72	0.09	0.110
988281	Soil		1.3	15.9	7.8	86	1.0	15.1	6.8	357	3.21	12.7	0.8	<0.5	<0.1	48	0.2	0.4	0.2	52	0.29	0.128
988282	Soil		1.7	17.9	37.6	85	0.6	12.4	7.6	747	5.19	16.6	0.5	<0.5	<0.1	16	1.1	0.4	0.4	84	0.08	0.096
988283	Soil		0.9	15.0	15.7	75	0.3	11.7	6.9	695	3.74	48.1	0.2	<0.5	<0.1	11	0.2	0.7	0.4	94	0.06	0.086
988284	Soil		1.4	21.6	20.2	141	0.1	11.7	7.0	966	3.47	71.2	0.4	<0.5	<0.1	15	0.5	0.8	0.8	76	0.04	0.103
988288	Soil		1.1	21.7	12.3	109	0.1	12.2	8.7	1970	3.50	15.3	0.4	<0.5	<0.1	21	0.5	0.5	0.3	66	0.11	0.149
988289	Soil		1.2	13.3	10.0	58	0.1	9.9	5.0	192	2.82	12.9	0.4	<0.5	<0.1	17	0.3	0.4	0.2	57	0.08	0.069
988290	Soil		1.6	20.6	18.2	211	0.8	18.6	13.2	1083	3.36	41.0	8.7	<0.5	0.4	55	0.5	0.5	0.2	58	0.49	0.193
988291	Soil		0.8	12.2	9.1	97	0.3	10.9	7.0	412	3.00	12.9	0.5	<0.5	<0.1	70	0.5	0.4	0.2	51	0.57	0.079
988292	Soil		1.6	10.4	11.3	120	0.2	10.1	7.8	1641	3.38	24.9	1.0	<0.5	<0.1	47	0.2	0.4	0.8	53	0.44	0.143
988293	Soil		1.3	12.3	11.3	49	0.2	7.9	4.6	162	2.74	9.5	0.5	<0.5	<0.1	19	0.2	0.4	0.4	52	0.09	0.070
988294	Soil		1.9	13.1	10.0	142	0.3	19.7	11.0	740	4.77	17.7	0.9	<0.5	<0.1	70	0.6	0.4	0.2	68	0.51	0.177
988295	Soil		1.9	15.2	12.4	95	0.3	14.9	8.9	647	3.58	15.3	0.8	<0.5	0.2	87	0.3	0.4	0.2	65	0.60	0.089
988296	Soil		2.1	16.3	8.9	116	0.6	14.6	9.0	856	3.87	12.4	2.1	<0.5	0.1	48	0.3	0.4	0.3	66	0.35	0.149
988297	Soil		1.7	25.4	10.9	202	0.6	19.1	12.4	1851	4.28	22.2	2.3	<0.5	0.3	111	0.7	0.9	0.3	67	0.68	0.212
988298	Soil		1.1	16.0	9.5	69	0.2	9.8	6.0	255	2.86	7.8	0.4	<0.5	<0.1	35	0.7	0.4	0.2	57	0.23	0.092

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.



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 05, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000230.1

	Method Analyte Unit MDL	1DX15	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
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
988265	Soil	7	22	0.50	112	0.026	10	2.43	0.007	0.05	<0.1	0.07	3.2	0.1	<0.05	7	<0.5	<0.2
988267	Soil	10	20	0.49	95	0.056	7	2.02	0.009	0.05	0.1	0.06	5.8	<0.1	<0.05	5	<0.5	<0.2
988268	Soil	8	21	0.52	73	0.027	4	2.45	0.008	0.07	0.1	0.07	4.0	0.1	<0.05	7	<0.5	<0.2
988269	Soil	9	24	0.40	73	0.008	8	3.65	0.004	0.06	0.1	0.08	1.9	0.2	<0.05	8	0.7	<0.2
988270	Soil	12	26	0.45	108	0.008	6	3.09	0.007	0.06	<0.1	0.07	4.0	0.2	0.10	7	0.5	<0.2
988271	Soil	12	24	0.46	112	0.010	7	3.02	0.009	0.05	0.1	0.08	1.3	0.2	<0.05	8	<0.5	<0.2
988272	Soil	22	32	0.69	232	0.004	5	4.44	0.010	0.09	0.2	0.13	3.6	0.3	<0.05	11	<0.5	<0.2
988273	Soil	11	22	0.41	147	0.009	5	2.79	0.009	0.05	<0.1	0.09	2.1	0.1	<0.05	7	<0.5	<0.2
988274	Soil	4	19	0.29	79	0.016	4	2.37	0.005	0.04	<0.1	0.06	1.4	<0.1	<0.05	7	<0.5	<0.2
988275	Soil	6	19	0.20	76	0.014	3	2.27	0.006	0.03	0.1	0.11	0.9	<0.1	<0.05	10	<0.5	<0.2
988276	Soil	11	23	0.34	97	0.011	5	3.39	0.007	0.06	0.1	0.07	1.4	0.1	0.07	8	0.8	<0.2
988277	Soil	6	23	0.31	99	0.015	5	1.96	0.007	0.05	<0.1	0.08	1.0	0.1	<0.05	8	<0.5	<0.2
988278	Soil	7	23	0.37	99	0.008	3	3.25	0.006	0.05	<0.1	0.08	1.5	0.1	<0.05	8	0.7	<0.2
988279	Soil	6	22	0.20	72	0.011	3	2.30	0.007	0.04	<0.1	0.11	0.7	0.1	<0.05	9	<0.5	<0.2
988280	Soil	5	26	0.32	86	0.011	2	2.85	0.006	0.04	0.1	0.10	1.2	<0.1	<0.05	8	<0.5	<0.2
988281	Soil	10	21	0.43	116	0.020	4	2.61	0.010	0.05	0.1	0.10	1.7	<0.1	<0.05	7	<0.5	<0.2
988282	Soil	7	27	0.31	81	0.028	3	2.74	0.006	0.03	0.1	0.05	2.1	<0.1	<0.05	11	<0.5	<0.2
988283	Soil	5	26	0.30	81	0.027	2	1.97	0.005	0.06	<0.1	0.07	2.1	<0.1	<0.05	10	<0.5	<0.2
988284	Soil	6	25	0.27	124	0.013	1	2.05	0.006	0.04	<0.1	0.04	0.9	0.1	0.07	10	<0.5	<0.2
988288	Soil	5	23	0.29	170	0.012	2	2.01	0.007	0.05	<0.1	0.05	0.8	<0.1	<0.05	8	<0.5	<0.2
988289	Soil	5	20	0.29	98	0.015	1	2.11	0.007	0.03	0.1	0.06	0.9	<0.1	0.12	8	<0.5	<0.2
988290	Soil	27	26	0.69	241	0.011	2	3.45	0.014	0.08	<0.1	0.12	5.9	0.1	<0.05	8	0.5	<0.2
988291	Soil	10	18	0.40	124	0.024	2	2.02	0.011	0.04	<0.1	0.06	2.6	<0.1	<0.05	7	<0.5	<0.2
988292	Soil	12	14	0.39	120	0.018	1	2.32	0.012	0.06	<0.1	0.04	2.1	0.1	<0.05	6	<0.5	<0.2
988293	Soil	6	18	0.26	105	0.035	2	2.34	0.008	0.03	0.1	0.12	2.0	<0.1	<0.05	7	<0.5	<0.2
988294	Soil	12	27	0.74	175	0.023	3	2.55	0.014	0.07	0.1	0.08	2.8	<0.1	<0.05	8	<0.5	<0.2
988295	Soil	13	22	0.58	202	0.022	3	2.60	0.014	0.07	0.1	0.06	4.1	0.1	<0.05	8	<0.5	<0.2
988296	Soil	19	24	0.64	198	0.015	2	3.19	0.011	0.07	0.1	0.14	2.9	0.1	<0.05	8	<0.5	<0.2
988297	Soil	24	32	0.61	261	0.016	2	3.68	0.010	0.13	0.2	0.07	6.9	0.1	<0.05	9	<0.5	<0.2
988298	Soil	8	17	0.35	172	0.016	2	2.47	0.008	0.07	<0.1	0.08	1.3	<0.1	0.07	9	<0.5	<0.2

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# CERTIFICATE OF ANALYSIS

SMI13000230.1

Method Analyte Unit MDL	1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %	
	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
988299	Soil	1.1	11.4	8.4	72	0.2	8.6	5.6	448	2.64	9.4	0.4	<0.5	<0.1	44	0.2	0.4	0.2	53	0.34	0.071
990410	Soil	1.0	20.0	10.3	85	0.2	13.8	8.6	453	4.13	16.9	0.5	<0.5	0.1	17	0.3	0.6	0.2	63	0.10	0.092
990411	Soil	1.0	14.7	18.2	101	0.3	11.3	7.0	674	3.65	28.3	0.4	<0.5	<0.1	19	0.2	0.7	0.2	64	0.12	0.092
990412	Soil	1.3	20.3	9.1	67	0.8	11.2	5.6	278	2.70	9.7	0.9	1.7	<0.1	21	0.4	0.3	0.3	44	0.10	0.120
990413	Soil	1.0	16.8	8.7	66	0.2	10.7	9.0	787	3.92	11.4	0.6	<0.5	<0.1	23	0.1	0.5	0.1	62	0.18	0.117
990414	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.
990415	Soil	0.7	12.1	14.1	95	0.3	10.2	6.4	443	2.46	7.8	0.6	0.7	<0.1	35	0.3	0.4	0.2	51	0.29	0.157
990416	Soil	1.2	14.5	16.2	140	0.5	16.7	8.6	852	3.19	10.1	1.0	2.3	0.1	40	0.2	0.3	0.2	57	0.36	0.195
990417	Soil	1.0	8.4	12.5	54	0.2	9.0	4.1	177	2.09	7.6	0.4	<0.5	<0.1	22	0.2	0.4	0.2	49	0.07	0.049
990418	Soil	1.4	11.6	12.1	104	0.2	18.5	13.6	2159	3.56	16.2	0.5	1.3	0.1	45	0.3	0.5	0.1	58	0.52	0.117
990419	Soil	1.0	14.7	15.0	66	<0.1	13.6	7.5	838	4.30	18.4	0.5	0.9	0.3	21	0.3	0.6	0.1	68	0.15	0.143
990420	Soil	1.4	9.5	14.3	39	0.6	5.1	3.2	253	1.96	5.5	0.6	1.0	<0.1	23	0.3	0.3	0.2	48	0.05	0.082
990421	Soil	1.5	10.7	13.0	95	0.4	10.8	4.9	328	2.39	9.9	0.9	0.8	<0.1	36	0.3	0.4	0.2	48	0.23	0.205
990422	Soil	2.6	20.1	17.1	119	0.6	16.5	11.3	1982	3.55	17.1	1.2	1.2	0.2	76	0.5	0.7	0.1	57	0.51	0.212
990423	Soil	2.7	11.2	13.9	66	1.2	7.6	7.5	1345	2.36	10.0	1.2	5.5	<0.1	61	0.6	0.5	0.2	53	0.36	0.238
990424	Soil	0.8	17.3	14.9	79	0.3	15.9	8.8	441	3.10	20.9	0.7	<0.5	0.3	29	0.2	0.7	0.1	58	0.21	0.098
990425	Soil	1.1	13.6	12.0	64	0.2	10.2	5.6	395	3.30	14.5	0.5	<0.5	<0.1	16	0.3	0.8	0.1	61	0.04	0.067
990426	Soil	0.8	13.8	22.6	116	0.4	8.9	4.9	321	2.88	24.8	0.5	2.8	0.1	24	0.4	0.4	0.2	55	0.09	0.099
990427	Soil	9.3	33.6	14.5	389	1.9	14.2	22.6	6687	3.91	15.7	3.7	5.7	0.7	56	8.4	0.8	0.2	32	0.87	0.432
990428	Soil	0.8	10.9	14.6	60	0.2	11.0	4.9	391	2.57	18.4	0.4	<0.5	<0.1	17	<0.1	0.5	0.2	56	0.05	0.095
990429	Soil	1.7	16.8	13.7	83	0.4	15.7	7.4	414	3.55	20.1	0.7	1.7	<0.1	38	0.5	0.6	<0.1	61	0.39	0.079
990430	Soil	1.8	28.3	281.6	776	2.7	17.8	8.5	327	3.75	56.9	16.4	53.1	1.2	14	1.1	2.0	0.2	62	0.14	0.099
990431	Soil	1.2	18.7	16.3	97	0.7	13.1	8.4	489	3.86	18.3	0.6	2.5	0.1	18	0.4	0.7	<0.1	62	0.07	0.096
990432	Soil	1.0	11.0	8.6	54	0.3	9.5	4.6	381	2.54	7.8	0.5	<0.5	<0.1	10	0.1	0.3	0.1	49	0.05	0.098
990433	Soil	1.5	16.9	136.4	208	0.4	16.4	10.2	1060	3.36	129.7	3.7	9.0	0.3	18	0.3	1.5	0.4	59	0.11	0.162
990434	Soil	0.8	17.1	12.9	82	0.1	15.9	9.4	532	3.55	16.2	0.5	2.2	0.3	22	0.2	0.7	<0.1	64	0.13	0.083
990435	Soil	1.9	11.1	12.7	76	0.2	8.1	5.3	1046	3.22	11.7	0.7	1.7	<0.1	14	0.2	0.4	0.2	57	0.05	0.165
990436	Soil	1.6	7.5	9.5	104	0.4	9.2	3.8	266	2.19	7.9	0.7	0.5	<0.1	41	0.3	0.3	0.1	46	0.63	0.155
990437	Soil	2.1	18.8	18.4	270	0.4	20.3	11.2	2997	3.63	15.9	0.8	1.5	0.2	56	1.7	0.6	0.1	56	0.71	0.247
990438	Soil	0.9	25.5	13.7	129	<0.1	22.0	16.2	1114	4.27	24.4	0.6	2.5	0.7	25	0.3	0.9	<0.1	71	0.18	0.153



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 05, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000230.1

Method	Analyte	1DX15	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	
988299	Soil	9	18	0.39	134	0.020	<1	2.14	0.009	0.05	<0.1	0.06	1.4	<0.1	<0.05	7	<0.5	<0.2
990410	Soil	6	22	0.47	93	0.022	2	3.42	0.007	0.05	0.1	0.08	2.6	0.1	<0.05	7	<0.5	<0.2
990411	Soil	5	22	0.38	98	0.018	3	2.32	0.008	0.06	<0.1	0.07	1.2	0.1	<0.05	9	<0.5	<0.2
990412	Soil	8	21	0.29	136	0.005	1	2.94	0.008	0.06	0.1	0.15	1.0	<0.1	<0.05	7	<0.5	<0.2
990413	Soil	9	19	0.39	115	0.031	2	2.74	0.009	0.05	0.2	0.08	2.3	<0.1	<0.05	7	<0.5	<0.2
990414	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.
990415	Soil	13	15	0.41	108	0.018	<1	2.14	0.009	0.07	<0.1	0.10	1.6	<0.1	0.07	7	0.6	<0.2
990416	Soil	12	19	0.52	183	0.011	<1	3.04	0.011	0.08	<0.1	0.07	2.0	0.1	<0.05	7	<0.5	<0.2
990417	Soil	7	13	0.29	105	0.019	<1	1.99	0.009	0.04	<0.1	0.06	0.9	<0.1	<0.05	8	<0.5	<0.2
990418	Soil	9	19	0.49	119	0.028	<1	2.16	0.014	0.05	<0.1	0.03	2.9	<0.1	<0.05	6	<0.5	<0.2
990419	Soil	7	20	0.42	70	0.058	<1	2.20	0.009	0.04	<0.1	0.09	2.8	<0.1	<0.05	7	<0.5	<0.2
990420	Soil	7	14	0.20	85	0.035	<1	2.12	0.009	0.04	<0.1	0.08	1.0	<0.1	<0.05	10	<0.5	<0.2
990421	Soil	10	16	0.36	106	0.011	<1	2.51	0.010	0.07	<0.1	0.03	1.2	0.2	<0.05	8	0.6	<0.2
990422	Soil	18	20	0.49	149	0.013	<1	3.47	0.010	0.08	<0.1	0.12	2.2	0.2	<0.05	7	0.7	<0.2
990423	Soil	10	14	0.25	107	0.008	<1	2.65	0.011	0.07	<0.1	0.12	0.6	0.2	0.06	6	<0.5	<0.2
990424	Soil	13	20	0.57	88	0.053	<1	2.67	0.011	0.05	0.1	0.07	4.8	<0.1	<0.05	6	<0.5	<0.2
990425	Soil	6	16	0.32	81	0.029	<1	2.64	0.007	0.05	<0.1	0.06	1.9	0.1	<0.05	8	0.7	<0.2
990426	Soil	6	16	0.32	95	0.016	<1	2.95	0.008	0.04	<0.1	0.09	1.7	<0.1	<0.05	8	0.5	<0.2
990427	Soil	69	15	0.20	84	0.023	<1	4.29	0.009	0.06	0.2	0.20	5.4	0.6	0.08	8	<0.5	<0.2
990428	Soil	5	18	0.33	65	0.015	<1	2.15	0.007	0.07	<0.1	0.17	0.8	0.1	<0.05	9	0.9	<0.2
990429	Soil	8	21	0.52	75	0.025	<1	2.53	0.009	0.05	<0.1	0.06	2.1	<0.1	<0.05	7	<0.5	<0.2
990430	Soil	8	26	0.62	86	0.011	<1	3.27	0.006	0.06	<0.1	0.19	4.7	<0.1	<0.05	8	<0.5	<0.2
990431	Soil	6	18	0.49	84	0.026	<1	3.15	0.007	0.05	<0.1	0.11	3.0	<0.1	<0.05	7	<0.5	<0.2
990432	Soil	5	16	0.27	59	0.016	<1	1.82	0.006	0.05	<0.1	0.07	0.8	0.1	<0.05	7	<0.5	<0.2
990433	Soil	8	19	0.50	56	0.038	<1	2.48	0.008	0.07	<0.1	0.02	2.6	0.1	<0.05	7	0.5	<0.2
990434	Soil	7	18	0.52	86	0.040	<1	2.72	0.009	0.05	<0.1	0.05	3.7	<0.1	<0.05	7	<0.5	<0.2
990435	Soil	6	14	0.22	76	0.018	<1	2.06	0.007	0.08	<0.1	0.08	0.7	0.2	<0.05	9	0.6	<0.2
990436	Soil	9	14	0.29	131	0.010	<1	1.75	0.009	0.08	<0.1	0.04	0.9	0.1	<0.05	7	<0.5	<0.2
990437	Soil	12	21	0.57	159	0.015	<1	2.74	0.011	0.09	<0.1	0.05	3.4	0.2	<0.05	7	0.9	<0.2
990438	Soil	12	22	0.70	73	0.067	<1	2.92	0.009	0.07	<0.1	0.04	6.8	<0.1	<0.05	7	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 05, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000230.1

	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
990439	Soil	2.1	5.3	17.4	81	0.8	12.3	11.1	916	2.37	16.3	4.1	1.6	<0.1	47	0.6	0.4	0.1	57	0.48	0.113
990440	Soil	1.0	26.5	125.5	794	0.7	17.9	9.0	680	3.53	23.7	1.5	2.1	0.2	38	1.7	0.6	0.2	55	0.66	0.199
990441	Soil	6.1	26.7	48.4	576	0.6	19.3	19.4	5156	4.31	175.2	4.3	2.2	0.9	52	5.0	0.8	0.2	73	0.79	0.284
990442	Soil	4.0	19.2	18.1	113	0.5	11.4	11.7	2026	3.26	16.2	2.0	<0.5	0.1	73	1.1	1.0	0.1	65	0.44	0.269
990443	Soil	1.9	17.9	11.7	93	0.3	10.8	8.4	727	3.40	11.9	0.9	<0.5	<0.1	48	0.4	0.5	0.2	61	0.38	0.159
990444	Soil	2.7	26.6	29.8	370	0.8	18.4	29.4	5570	4.65	24.3	1.6	1.5	0.4	68	4.4	0.6	0.2	77	0.52	0.176
990445	Soil	1.3	19.1	16.5	120	0.5	14.2	15.5	2276	3.62	13.7	0.8	0.8	0.2	104	1.4	0.4	0.1	68	1.01	0.190
990446	Soil	1.4	17.2	12.0	94	0.3	9.0	7.7	635	2.85	9.5	0.7	<0.5	0.1	62	0.6	0.4	0.1	53	0.51	0.160
990447	Soil	0.6	14.9	8.2	87	0.3	10.7	7.7	417	2.63	8.8	0.5	1.2	0.2	100	0.2	0.5	<0.1	49	0.78	0.131
990448	Soil	0.9	41.8	97.1	202	0.5	47.1	27.8	2509	4.67	74.6	0.4	853.8	0.4	44	1.3	2.5	0.4	69	0.47	0.139
990449	Soil	1.0	18.9	9.9	57	0.2	10.2	6.1	315	3.76	18.1	0.4	1.9	0.3	20	0.2	0.6	0.2	62	0.14	0.149
990450	Soil	1.2	12.8	9.3	51	0.3	10.4	5.3	324	2.90	11.5	0.6	1.6	<0.1	23	0.3	0.4	<0.1	58	0.11	0.085
990451	Soil	1.3	11.2	11.2	29	0.2	4.6	3.1	172	2.78	8.4	0.5	0.5	<0.1	18	0.2	0.5	0.3	69	0.04	0.057
990452	Soil	1.1	14.4	10.9	88	0.6	12.6	7.3	399	2.57	9.3	0.8	1.1	0.1	76	0.4	0.5	0.1	48	0.63	0.159
990453	Soil	0.9	14.2	12.4	86	0.3	13.3	7.3	429	2.60	11.6	0.7	0.9	<0.1	59	0.3	0.5	0.1	53	0.45	0.091
990454	Soil	1.3	28.3	10.6	99	0.7	15.4	9.3	518	3.34	9.0	1.3	0.5	0.1	66	0.4	0.4	0.2	65	0.45	0.222
990455	Soil	1.3	15.2	9.8	88	1.0	12.4	8.2	744	2.88	9.3	0.9	0.8	<0.1	39	0.3	0.4	0.1	66	0.22	0.168
990456	Soil	1.4	17.0	12.1	91	0.6	16.3	9.9	522	3.54	10.9	0.8	1.9	0.1	44	0.2	0.4	<0.1	62	0.32	0.105
990457	Soil	0.8	14.0	9.1	63	0.4	9.9	6.1	310	2.34	6.6	0.5	0.7	<0.1	34	0.4	0.5	0.1	52	0.22	0.070
990458	Soil	0.9	14.1	8.6	75	0.3	11.3	6.6	305	3.15	9.4	0.4	<0.5	<0.1	20	0.1	0.5	<0.1	59	0.11	0.070
990459	Soil	0.5	6.6	9.2	27	0.3	4.5	2.3	107	1.23	3.8	0.4	<0.5	<0.1	15	<0.1	0.3	0.1	35	0.03	0.080
990460	Soil	0.9	14.0	8.4	46	0.4	7.2	4.1	198	1.77	4.0	0.7	0.8	<0.1	15	0.3	0.3	0.1	39	0.05	0.077
990461	Soil	0.6	14.8	7.8	52	0.2	8.6	4.8	238	2.35	7.0	0.4	5.3	<0.1	17	0.1	0.3	<0.1	51	0.09	0.081
990462	Soil	1.0	11.2	9.4	63	0.3	8.9	5.4	392	2.27	6.4	0.5	<0.5	<0.1	20	0.1	0.3	<0.1	52	0.09	0.069
990463	Soil	1.2	15.0	10.2	57	0.1	8.7	5.9	340	4.28	12.6	0.4	1.1	<0.1	21	0.6	0.5	<0.1	71	0.08	0.089
990464	Soil	1.1	16.6	9.2	142	0.4	16.3	10.4	1225	3.68	8.9	0.7	<0.5	0.2	58	0.3	0.4	<0.1	64	0.51	0.194
990465	Soil	1.0	16.9	10.7	61	0.3	13.3	9.7	799	3.55	15.6	0.5	<0.5	0.4	24	0.3	0.7	<0.1	57	0.19	0.130
990466	Soil	1.1	17.0	8.0	67	0.8	12.6	7.7	465	2.53	6.0	1.3	<0.5	0.1	26	0.1	0.4	<0.1	53	0.16	0.171
990467	Soil	0.8	10.0	8.0	82	0.1	10.0	6.0	446	2.48	5.8	0.5	<0.5	<0.1	35	0.2	0.3	<0.1	53	0.38	0.090
990468	Soil	0.6	15.4	7.2	45	0.6	6.0	3.3	110	1.95	4.1	1.0	<0.5	<0.1	32	0.3	0.2	<0.1	34	0.32	0.131

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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 05, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000230.1

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	0.1	0.05	1	0.5	0.2	
990439	Soil	6	20	0.46	126	0.007	<1	2.19	0.011	0.06	<0.1	0.07	1.0	0.3	<0.05	8	<0.5	<0.2
990440	Soil	13	21	0.53	171	0.014	<1	3.39	0.010	0.07	<0.1	0.12	2.4	0.1	<0.05	7	0.5	<0.2
990441	Soil	23	24	0.62	240	0.012	<1	3.96	0.012	0.12	<0.1	0.08	8.9	0.3	<0.05	8	<0.5	<0.2
990442	Soil	19	16	0.36	152	0.013	<1	2.91	0.012	0.11	0.2	0.06	2.1	0.2	<0.05	8	<0.5	<0.2
990443	Soil	11	16	0.33	147	0.010	3	2.65	0.009	0.08	<0.1	0.06	1.7	<0.1	<0.05	8	<0.5	<0.2
990444	Soil	12	22	0.61	208	0.013	2	3.87	0.010	0.09	0.1	0.09	3.8	0.4	<0.05	10	<0.5	<0.2
990445	Soil	11	17	0.53	241	0.010	3	2.69	0.010	0.10	0.1	0.06	3.1	0.2	<0.05	8	<0.5	<0.2
990446	Soil	17	14	0.34	137	0.016	2	2.45	0.011	0.05	<0.1	0.09	1.9	<0.1	<0.05	7	<0.5	<0.2
990447	Soil	11	13	0.50	121	0.041	4	1.98	0.012	0.06	<0.1	0.13	3.6	<0.1	<0.05	6	<0.5	<0.2
990448	Soil	12	49	1.19	106	0.030	2	2.42	0.009	0.08	<0.1	0.04	6.8	<0.1	<0.05	7	<0.5	<0.2
990449	Soil	6	15	0.35	77	0.065	<1	2.23	0.008	0.04	<0.1	0.11	3.2	<0.1	<0.05	6	<0.5	<0.2
990450	Soil	7	16	0.32	88	0.038	<1	2.14	0.010	0.03	<0.1	0.09	1.4	<0.1	<0.05	7	<0.5	<0.2
990451	Soil	6	15	0.16	71	0.049	2	1.89	0.007	0.03	<0.1	0.07	1.9	<0.1	<0.05	9	0.9	<0.2
990452	Soil	18	17	0.48	196	0.017	3	2.53	0.012	0.06	<0.1	0.08	2.0	<0.1	<0.05	7	0.7	<0.2
990453	Soil	12	16	0.49	164	0.020	1	2.22	0.011	0.06	<0.1	0.04	2.4	<0.1	<0.05	7	0.7	<0.2
990454	Soil	15	17	0.55	278	0.005	2	3.43	0.010	0.07	<0.1	0.09	1.7	0.1	<0.05	9	<0.5	<0.2
990455	Soil	10	16	0.48	179	0.009	2	2.92	0.010	0.07	<0.1	0.09	1.5	0.1	<0.05	8	0.8	<0.2
990456	Soil	13	18	0.57	152	0.015	3	2.97	0.013	0.07	<0.1	0.06	1.8	<0.1	<0.05	8	0.9	<0.2
990457	Soil	11	13	0.36	128	0.024	3	2.19	0.009	0.06	<0.1	0.07	1.7	<0.1	<0.05	7	<0.5	<0.2
990458	Soil	6	14	0.43	92	0.026	2	2.28	0.009	0.05	<0.1	0.06	2.4	<0.1	<0.05	7	<0.5	<0.2
990459	Soil	4	10	0.15	81	0.009	2	1.62	0.007	0.06	<0.1	0.04	0.4	<0.1	<0.05	7	<0.5	<0.2
990460	Soil	9	11	0.27	92	0.012	2	2.32	0.008	0.05	<0.1	0.08	0.8	0.1	<0.05	7	0.7	<0.2
990461	Soil	5	13	0.32	99	0.013	2	2.05	0.007	0.06	<0.1	0.05	0.9	<0.1	<0.05	7	0.6	<0.2
990462	Soil	6	16	0.33	118	0.017	1	2.15	0.009	0.05	<0.1	0.04	1.1	<0.1	<0.05	9	0.5	<0.2
990463	Soil	5	15	0.27	168	0.044	2	1.65	0.008	0.04	<0.1	0.10	2.0	<0.1	<0.05	8	<0.5	<0.2
990464	Soil	10	18	0.66	220	0.011	3	3.13	0.009	0.11	<0.1	0.04	3.1	0.1	<0.05	8	<0.5	<0.2
990465	Soil	8	15	0.38	103	0.056	3	3.34	0.011	0.03	0.1	0.09	4.1	<0.1	<0.05	5	<0.5	<0.2
990466	Soil	17	16	0.48	138	0.010	1	3.16	0.009	0.08	<0.1	0.14	2.3	0.1	<0.05	8	0.7	<0.2
990467	Soil	7	14	0.45	141	0.017	2	1.95	0.009	0.07	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
990468	Soil	12	11	0.21	120	0.006	2	2.86	0.010	0.05	<0.1	0.11	0.9	<0.1	<0.05	6	<0.5	<0.2

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# CERTIFICATE OF ANALYSIS

SMI13000230.1

	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
990469	Soil	0.8	15.1	10.8	62	0.2	8.8	5.7	309	3.29	10.9	0.3	<0.5	<0.1	12	0.2	0.6	<0.1	65	0.05	0.099
990470	Soil	0.9	13.4	7.4	91	0.3	12.3	6.0	315	2.64	6.2	0.7	1.1	<0.1	34	0.1	0.3	<0.1	50	0.19	0.084
990471	Soil	1.0	15.9	9.7	111	0.4	14.7	8.8	826	3.47	10.4	0.7	0.9	0.2	52	0.1	0.5	0.1	65	0.35	0.159
990472	Soil	0.8	9.9	10.9	56	0.1	9.2	4.9	254	2.13	7.5	0.3	<0.5	<0.1	25	0.1	0.4	0.1	57	0.10	0.036
990473	Soil	1.2	14.3	8.8	75	0.2	12.0	7.6	306	3.00	8.8	0.6	0.9	0.1	19	0.1	0.4	<0.1	57	0.10	0.104
990474	Soil	1.1	11.3	10.4	71	0.1	8.5	5.2	285	3.61	11.7	0.4	0.8	<0.1	17	0.3	0.4	<0.1	58	0.05	0.137
990475	Soil	0.9	9.9	10.7	52	0.2	8.4	4.2	189	1.79	5.5	0.5	<0.5	<0.1	23	0.2	0.4	0.1	41	0.08	0.066
990476	Soil	1.1	13.1	8.4	64	0.2	7.1	4.5	227	2.69	7.9	0.5	1.2	<0.1	33	0.3	0.5	<0.1	49	0.14	0.088
990477	Soil	1.1	11.7	8.9	70	0.3	13.4	8.5	805	3.75	8.4	0.4	1.7	<0.1	21	0.4	0.4	0.2	75	0.16	0.100
990478	Soil	1.4	20.4	22.2	156	0.2	15.7	11.8	1601	3.81	21.2	0.9	14.5	0.2	63	0.4	0.8	0.1	63	0.42	0.113
990479	Soil	1.1	17.2	20.7	98	0.1	15.8	10.8	426	4.28	22.8	0.5	5.3	0.4	25	0.4	0.8	0.1	67	0.12	0.080
990480	Soil	1.3	28.6	14.3	121	0.8	19.1	24.2	1693	3.61	12.1	1.2	0.7	0.1	23	0.5	0.5	0.1	54	0.16	0.145
990481	Soil	0.8	17.4	4.4	59	0.6	12.7	11.4	346	6.14	3.6	0.3	<0.5	<0.1	15	0.7	0.4	<0.1	158	0.09	0.081
990482	Soil	0.8	17.9	10.7	68	<0.1	9.6	6.8	787	3.29	13.6	0.5	129.4	<0.1	15	0.3	0.6	<0.1	56	0.07	0.142
990483	Soil	1.3	15.1	10.3	73	0.1	9.6	7.0	684	3.78	12.9	0.4	1.2	<0.1	17	0.2	0.6	0.1	62	0.08	0.109
990484	Soil	0.9	15.0	7.8	72	0.3	10.3	6.1	475	2.84	9.3	0.6	55.1	<0.1	17	0.3	0.5	0.1	51	0.05	0.112
990485	Soil	0.6	8.0	9.3	31	0.3	3.6	1.9	158	1.34	4.9	0.3	2.7	<0.1	14	0.3	0.3	0.1	35	0.02	0.064
990486	Soil	1.0	8.9	12.3	54	0.2	6.4	3.5	153	1.95	7.7	0.5	2.7	<0.1	19	0.3	0.4	0.2	44	0.09	0.080
990487	Soil	0.8	18.6	58.3	258	0.4	14.0	7.0	686	3.02	16.8	1.9	3.2	<0.1	22	1.4	0.7	0.2	51	0.32	0.154
990488	Soil	0.7	44.9	17.0	163	2.2	17.4	11.9	1672	2.77	39.6	7.4	13.6	1.2	25	1.4	1.0	0.2	44	0.66	0.261
990489	Soil	1.0	17.8	12.7	116	0.5	21.4	10.3	1152	3.38	11.3	0.7	8.3	<0.1	12	0.6	0.4	0.3	63	0.10	0.131
990490	Soil	1.2	18.2	23.3	98	0.9	13.0	13.1	1203	4.91	40.4	0.8	2.9	0.4	22	0.6	0.9	0.2	63	0.12	0.137
990491	Soil	1.4	22.0	11.8	89	0.4	12.8	6.4	490	3.20	13.5	1.1	5.1	0.2	14	0.3	0.5	0.2	46	0.06	0.134
990492	Soil	1.9	12.2	9.0	62	0.2	10.2	5.6	421	3.07	11.9	0.7	0.7	<0.1	14	0.1	0.4	0.2	53	0.04	0.123
990493	Soil	1.6	11.9	12.4	83	0.1	8.3	6.4	631	2.95	10.7	0.6	1.0	<0.1	26	0.3	0.5	0.2	64	0.07	0.085
990494	Soil	1.8	13.7	9.5	79	0.8	10.6	7.1	656	3.03	12.5	3.2	1.1	<0.1	37	0.4	0.5	0.2	59	0.27	0.133
990495	Soil	1.8	15.5	22.4	143	0.4	13.5	7.3	444	3.77	51.1	36.7	2.1	<0.1	28	0.5	1.7	0.2	59	0.22	0.115
990496	Soil	4.2	10.7	24.7	87	0.5	6.8	3.8	623	1.98	31.6	7.6	1.5	<0.1	14	0.4	0.9	0.3	41	0.05	0.167
990497	Soil	1.9	16.9	49.1	83	0.7	8.0	7.3	1798	3.66	56.6	2.1	4.6	<0.1	12	0.8	1.6	0.2	53	0.05	0.369
990498	Soil	2.2	16.1	57.1	220	0.2	17.8	11.2	1041	3.35	51.4	22.0	6.3	0.6	18	0.7	1.2	0.2	54	0.15	0.135



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 05, 2013

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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
		La	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	ppm
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
990469	Soil	6	14	0.31	87	0.031	3	2.12	0.007	0.05	0.1	0.05	2.2	<0.1	<0.05	8	0.6	<0.2
990470	Soil	9	15	0.48	193	0.015	1	2.56	0.011	0.06	<0.1	0.07	1.9	0.1	<0.05	8	<0.5	<0.2
990471	Soil	9	19	0.61	193	0.010	3	3.22	0.009	0.09	<0.1	0.05	2.9	0.1	<0.05	9	<0.5	<0.2
990472	Soil	5	13	0.34	101	0.032	3	1.83	0.010	0.05	<0.1	0.03	1.6	<0.1	<0.05	8	<0.5	<0.2
990473	Soil	10	14	0.54	95	0.023	4	2.93	0.009	0.05	<0.1	0.08	3.1	<0.1	<0.05	8	1.0	<0.2
990474	Soil	4	14	0.39	118	0.021	2	2.40	0.008	0.05	<0.1	0.10	1.8	<0.1	<0.05	9	<0.5	<0.2
990475	Soil	7	13	0.35	98	0.016	3	1.91	0.010	0.05	<0.1	0.06	0.8	<0.1	<0.05	8	<0.5	<0.2
990476	Soil	6	13	0.33	94	0.013	2	2.16	0.009	0.04	<0.1	0.10	1.0	<0.1	<0.05	7	0.6	<0.2
990477	Soil	5	19	0.40	108	0.013	1	1.90	0.007	0.06	<0.1	0.04	1.0	0.1	<0.05	9	<0.5	<0.2
990478	Soil	16	22	0.58	147	0.020	2	2.65	0.010	0.06	<0.1	0.05	3.1	0.1	<0.05	7	<0.5	<0.2
990479	Soil	7	19	0.55	103	0.041	4	2.49	0.009	0.04	0.1	0.13	4.7	<0.1	<0.05	8	<0.5	<0.2
990480	Soil	23	21	0.47	165	0.007	2	4.34	0.008	0.06	<0.1	0.16	1.4	0.1	<0.05	8	<0.5	<0.2
990481	Soil	4	21	0.95	34	0.027	2	2.63	0.008	0.02	<0.1	0.11	3.2	<0.1	<0.05	15	<0.5	<0.2
990482	Soil	6	16	0.30	117	0.015	3	1.91	0.007	0.05	<0.1	0.15	0.9	<0.1	<0.05	7	<0.5	<0.2
990483	Soil	6	14	0.31	102	0.021	2	1.80	0.007	0.04	<0.1	0.04	1.6	<0.1	<0.05	8	0.6	<0.2
990484	Soil	7	15	0.37	74	0.015	2	2.45	0.007	0.05	0.2	0.11	1.2	<0.1	<0.05	7	<0.5	<0.2
990485	Soil	5	9	0.10	68	0.012	2	1.55	0.006	0.04	<0.1	0.07	0.4	<0.1	<0.05	7	<0.5	<0.2
990486	Soil	7	13	0.24	76	0.014	3	1.96	0.008	0.04	<0.1	0.05	0.9	0.1	<0.05	9	<0.5	<0.2
990487	Soil	7	19	0.44	64	0.012	6	1.80	0.007	0.05	<0.1	0.07	1.6	<0.1	0.07	6	<0.5	<0.2
990488	Soil	69	31	0.31	77	0.022	8	5.24	0.011	0.05	0.2	0.26	8.5	<0.1	<0.05	6	<0.5	<0.2
990489	Soil	7	23	0.82	60	0.010	4	3.41	0.005	0.04	0.1	0.10	1.4	<0.1	<0.05	7	<0.5	<0.2
990490	Soil	9	21	0.38	130	0.032	6	3.96	0.008	0.04	0.1	0.14	3.7	<0.1	<0.05	7	<0.5	<0.2
990491	Soil	9	17	0.42	67	0.011	6	4.59	0.007	0.03	0.7	0.12	1.7	<0.1	<0.05	6	1.3	<0.2
990492	Soil	6	15	0.34	59	0.014	6	2.45	0.005	0.04	<0.1	0.11	1.0	0.1	<0.05	7	<0.5	<0.2
990493	Soil	5	14	0.32	93	0.023	4	2.01	0.007	0.04	<0.1	0.05	1.5	<0.1	<0.05	8	<0.5	<0.2
990494	Soil	6	16	0.38	131	0.009	2	2.38	0.007	0.07	<0.1	0.11	1.1	0.2	<0.05	8	<0.5	<0.2
990495	Soil	9	18	0.50	112	0.012	6	2.76	0.007	0.06	0.1	0.10	1.7	0.1	<0.05	8	<0.5	<0.2
990496	Soil	6	13	0.15	73	0.007	5	1.60	0.006	0.08	0.1	0.07	0.6	0.2	<0.05	6	0.6	<0.2
990497	Soil	5	15	0.23	71	0.015	5	2.26	0.005	0.05	<0.1	0.13	0.9	0.1	<0.05	8	0.7	<0.2
990498	Soil	9	20	0.63	87	0.027	3	2.41	0.007	0.05	<0.1	0.06	3.4	<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.



# CERTIFICATE OF ANALYSIS

SMI13000230.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
990499	Soil		1.4	18.7	65.0	230	0.3	16.1	9.6	672	3.46	83.0	29.7	11.1	0.8	22	0.5	1.3	0.3	62	0.18	0.112
6120800 638800	Soil		1.1	20.1	16.8	96	0.1	20.5	11.8	733	3.65	22.4	1.1	0.8	0.3	29	0.4	0.8	0.1	60	0.21	0.112
6120800 638850	Soil		2.0	75.4	31.8	128	0.3	34.7	28.1	5172	6.06	92.6	13.0	14.7	1.8	19	0.4	5.3	0.4	70	0.17	0.223
6120800 638900	Soil		1.7	18.2	14.0	92	<0.1	16.8	11.9	704	3.10	82.6	7.5	2.0	0.8	22	0.2	6.7	0.1	53	0.17	0.109
6120800 638950	Soil		2.0	16.3	54.0	162	0.6	10.4	6.5	724	2.96	177.5	7.1	29.8	0.8	13	0.1	4.9	0.6	43	0.09	0.139
6120800 639000	Soil		1.9	17.2	20.3	127	0.2	14.1	10.0	1214	2.76	73.4	9.8	1.8	0.2	21	0.4	3.3	0.1	51	0.17	0.185
6120800 639050	Soil		1.8	15.1	9.9	58	0.4	8.1	4.6	267	2.97	44.6	3.1	2.2	0.1	15	0.4	1.5	<0.1	44	0.08	0.168
6120800 639100	Soil		1.0	16.2	10.6	70	0.1	11.7	9.9	571	3.59	16.7	0.8	2.3	0.4	19	0.5	0.6	<0.1	46	0.14	0.138
6120800 639150	Soil		1.4	14.3	23.9	76	0.2	8.8	6.5	974	3.58	24.1	0.8	0.6	<0.1	12	0.3	1.2	0.3	59	0.03	0.106
6120800 639200	Soil		1.0	31.6	9.0	96	0.2	29.4	22.6	1775	6.28	48.7	0.5	1.4	0.5	23	<0.1	4.2	<0.1	53	0.34	0.208
6120800 639250	Soil		1.1	33.0	20.9	122	0.2	33.3	40.1	3464	6.57	31.6	1.1	4.1	0.8	20	0.3	3.0	0.2	59	0.39	0.292
6120800 639300	Soil		0.8	9.2	11.6	40	0.4	6.0	5.4	633	1.59	8.3	0.3	2.1	<0.1	12	0.2	0.4	0.1	35	0.07	0.093
6120800 639350	Soil		1.1	20.1	33.0	312	0.2	21.0	13.8	2251	3.57	30.6	4.0	5.5	0.6	48	0.9	1.7	0.3	53	0.56	0.209
6120800 639400	Soil		2.2	18.4	16.5	138	0.6	10.9	7.9	912	3.87	32.5	2.5	1.5	<0.1	16	0.5	0.8	0.2	57	0.11	0.184
6120800 639450	Soil		1.4	13.2	16.8	64	0.8	6.7	4.9	576	3.20	15.1	0.8	0.8	<0.1	15	0.5	0.6	0.2	59	0.06	0.097
6120800 639500	Soil		1.4	8.4	11.2	46	0.3	6.4	4.6	393	2.99	9.6	0.4	2.1	<0.1	12	0.5	0.5	0.2	62	0.06	0.093
6120800 639550	Soil		3.5	35.3	22.7	284	0.7	23.0	15.0	4392	4.10	43.5	8.9	4.0	0.5	91	1.4	1.2	0.2	73	0.99	0.263
6120800 639600	Soil		1.6	14.0	15.9	67	0.4	10.0	8.2	1296	4.50	15.3	0.6	2.5	0.2	12	0.3	0.8	0.3	96	0.06	0.104
6120800 639650	Soil		1.3	31.8	9.0	67	0.1	18.6	8.9	356	4.23	12.8	0.4	5.4	0.7	15	0.1	0.9	0.2	69	0.06	0.098
6120800 639700	Soil		0.5	7.7	8.9	31	<0.1	10.1	4.3	159	2.31	3.6	0.2	0.9	0.2	18	<0.1	0.4	0.2	65	0.04	0.062
6120800 639750	Soil		1.0	17.4	11.7	79	0.3	17.2	8.3	429	3.78	12.7	0.5	<0.5	0.1	19	0.3	0.8	0.2	69	0.11	0.081
6120800 639800	Soil		1.0	26.3	19.8	128	0.3	19.9	10.2	548	3.87	21.7	0.7	2.0	0.2	16	0.5	0.7	0.2	64	0.08	0.083
6120800 639850	Soil		1.2	12.1	10.1	66	<0.1	9.7	4.7	242	3.12	8.7	0.3	<0.5	<0.1	32	0.2	0.5	0.1	71	0.24	0.075
6120800 639900	Soil		0.9	13.7	13.8	73	<0.1	11.3	6.2	332	4.79	16.9	0.3	1.0	0.6	39	<0.1	0.6	0.1	84	0.04	0.138
6120800 639950	Soil		1.2	19.7	13.3	76	0.2	13.2	8.1	484	6.06	23.3	0.4	1.1	0.2	18	0.2	0.8	1.2	93	0.12	0.383
6120800 640000	Soil		1.1	14.8	9.8	102	0.2	12.1	7.2	717	4.25	16.2	0.4	0.7	<0.1	18	0.3	0.6	0.6	69	0.12	0.158
6120800 640050	Soil		1.3	14.8	12.6	68	0.2	9.7	6.7	695	5.43	21.5	0.4	<0.5	0.1	21	0.2	0.7	0.5	99	0.14	0.310
6120800 640100	Soil		2.8	35.0	21.9	81	1.3	11.2	12.1	2906	3.82	58.5	2.1	2.6	0.1	64	0.5	0.8	0.5	68	0.57	0.270
6120800 640150	Soil		1.7	12.7	14.5	68	0.1	10.8	6.8	723	5.91	23.5	0.3	<0.5	0.2	13	0.2	0.8	0.4	96	0.05	0.195
6121100 638700	Soil		0.8	15.6	9.2	78	0.4	10.9	6.1	293	2.28	9.9	1.2	1.7	0.1	24	0.2	0.6	0.3	48	0.17	0.138



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc 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	
		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	0.01	0.01	0.01	0.05	1	0.5	0.2	
990499	Soil	11	19	0.56	114	0.023	6	3.00	0.009	0.05	<0.1	0.07	3.8	0.1	<0.05	8	<0.5	<0.2
6120800 638800	Soil	8	20	0.58	121	0.020	4	2.78	0.009	0.05	<0.1	0.07	3.4	0.1	<0.05	6	<0.5	<0.2
6120800 638850	Soil	11	30	1.18	288	0.021	3	3.01	0.006	0.11	0.1	0.04	7.4	0.2	<0.05	8	0.7	<0.2
6120800 638900	Soil	8	15	0.48	63	0.040	1	2.61	0.009	0.04	<0.1	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
6120800 638950	Soil	6	14	0.35	67	0.011	2	2.09	0.006	0.04	0.1	0.08	1.6	0.1	<0.05	6	<0.5	<0.2
6120800 639000	Soil	8	16	0.44	60	0.025	3	2.32	0.012	0.06	<0.1	0.05	2.3	0.1	<0.05	6	<0.5	<0.2
6120800 639050	Soil	5	14	0.31	65	0.018	2	2.58	0.006	0.03	<0.1	0.10	1.7	<0.1	<0.05	5	0.9	<0.2
6120800 639100	Soil	8	16	0.31	78	0.035	<1	3.68	0.007	0.03	0.1	0.13	3.7	<0.1	<0.05	5	<0.5	<0.2
6120800 639150	Soil	5	17	0.22	85	0.012	2	1.89	0.004	0.06	<0.1	0.06	0.5	0.1	<0.05	8	<0.5	<0.2
6120800 639200	Soil	10	20	0.24	96	0.003	2	1.71	0.004	0.11	0.1	0.02	5.4	0.2	<0.05	5	<0.5	<0.2
6120800 639250	Soil	16	31	1.12	102	0.007	3	2.57	0.004	0.08	<0.1	0.03	8.0	0.2	<0.05	7	<0.5	<0.2
6120800 639300	Soil	5	10	0.15	51	0.009	<1	0.99	0.005	0.06	<0.1	0.07	0.5	0.1	<0.05	5	<0.5	<0.2
6120800 639350	Soil	8	22	0.57	172	0.014	3	2.72	0.010	0.07	<0.1	0.03	4.2	0.1	<0.05	6	<0.5	<0.2
6120800 639400	Soil	8	16	0.32	94	0.010	1	2.48	0.006	0.07	<0.1	0.06	1.6	0.1	<0.05	8	0.5	<0.2
6120800 639450	Soil	6	14	0.20	94	0.019	<1	2.16	0.006	0.04	<0.1	0.10	1.0	<0.1	<0.05	8	<0.5	<0.2
6120800 639500	Soil	7	16	0.24	63	0.015	1	1.88	0.006	0.04	<0.1	0.07	0.9	<0.1	<0.05	10	<0.5	<0.2
6120800 639550	Soil	11	27	0.53	267	0.011	4	3.35	0.009	0.13	0.2	0.08	7.1	0.2	<0.05	10	0.8	<0.2
6120800 639600	Soil	8	20	0.29	116	0.015	2	2.14	0.006	0.03	0.1	0.06	1.9	0.1	<0.05	12	<0.5	<0.2
6120800 639650	Soil	6	21	0.49	63	0.013	2	3.02	0.005	0.03	0.1	0.06	4.3	<0.1	<0.05	8	<0.5	<0.2
6120800 639700	Soil	7	22	0.26	50	0.027	1	1.41	0.005	0.02	<0.1	0.04	1.8	<0.1	<0.05	9	<0.5	<0.2
6120800 639750	Soil	6	22	0.56	82	0.033	3	2.21	0.007	0.03	0.1	0.06	2.3	<0.1	<0.05	9	<0.5	<0.2
6120800 639800	Soil	9	23	0.66	128	0.015	3	3.45	0.008	0.05	<0.1	0.04	3.0	0.1	<0.05	8	0.6	<0.2
6120800 639850	Soil	6	16	0.25	171	0.018	3	1.49	0.006	0.04	<0.1	0.03	2.3	<0.1	<0.05	9	<0.5	<0.2
6120800 639900	Soil	4	17	0.34	91	0.036	3	2.25	0.007	0.04	0.1	0.05	3.9	<0.1	<0.05	9	<0.5	<0.2
6120800 639950	Soil	5	22	0.34	161	0.049	9	2.16	0.008	0.03	0.1	0.07	3.5	<0.1	0.06	9	<0.5	<0.2
6120800 640000	Soil	7	18	0.34	153	0.030	6	1.98	0.007	0.05	<0.1	0.06	2.0	<0.1	0.06	9	<0.5	<0.2
6120800 640050	Soil	5	18	0.33	119	0.070	5	2.13	0.009	0.04	<0.1	0.11	2.6	<0.1	0.17	11	<0.5	<0.2
6120800 640100	Soil	38	19	0.31	232	0.008	6	3.54	0.008	0.05	0.1	0.24	2.0	0.2	0.20	8	<0.5	<0.2
6120800 640150	Soil	5	19	0.36	94	0.049	5	2.43	0.007	0.03	0.1	0.09	3.1	<0.1	<0.05	11	<0.5	<0.2
6121100 638700	Soil	8	15	0.36	123	0.014	4	2.34	0.007	0.04	<0.1	0.11	2.4	<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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 05, 2013

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Part: 1 of 2

# CERTIFICATE OF ANALYSIS

SMI13000230.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
				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	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
6121100 638750	Soil			0.9	16.2	13.0	108	0.2	13.2	8.2	493	4.14	21.0	0.6	2.8	<0.1	22	0.4	0.7	0.2	60	0.12	0.085	
6121100 638800	Soil			1.2	66.8	23.7	146	<0.1	18.2	10.9	572	5.53	33.3	5.5	2.0	0.2	15	0.3	1.2	0.8	88	0.06	0.091	
6121100 640350	Soil			1.3	17.6	12.5	116	0.2	18.5	11.2	891	4.30	18.0	0.6	1.3	<0.1	53	0.3	0.5	0.2	80	0.43	0.106	
6121100 640400	Soil			1.1	15.5	14.0	112	0.4	14.6	8.0	644	3.66	17.3	0.5	<0.5	0.1	28	0.2	0.6	0.2	68	0.26	0.089	
6121100 640450	Soil			1.0	15.1	12.8	86	0.2	13.9	8.1	535	3.62	16.4	0.5	3.7	0.1	27	0.2	0.7	0.2	65	0.18	0.066	
6121100 640500	Soil			1.0	18.8	8.4	94	0.3	12.8	8.2	583	3.75	11.0	0.6	<0.5	0.1	23	0.2	0.4	0.2	69	0.13	0.123	
6121100 640550	Soil			1.0	19.9	10.3	90	0.2	13.5	8.0	417	3.31	13.4	0.8	1.2	<0.1	22	0.2	0.7	0.1	60	0.13	0.103	
6121100 640600	Soil			1.0	20.4	13.4	104	<0.1	18.2	9.9	603	3.93	24.0	0.6	1.7	0.1	35	0.2	0.8	0.1	66	0.26	0.106	
6121100 640650	Soil			1.0	11.7	15.4	60	0.1	9.3	4.5	150	2.53	15.7	0.5	<0.5	<0.1	18	0.3	0.5	0.1	50	0.08	0.078	
6121100 640700	Soil			0.9	14.2	10.1	86	0.1	15.3	9.4	807	3.19	14.4	0.5	1.4	<0.1	36	0.2	0.5	<0.1	59	0.30	0.090	
6121400 640300	Soil			1.7	29.0	9.9	86	0.9	13.5	14.1	1227	3.68	13.5	1.3	2.6	<0.1	60	0.5	0.5	0.1	63	0.52	0.191	
6121400 640350	Soil			1.1	11.9	20.0	64	0.3	12.2	5.7	176	3.13	19.9	0.5	<0.5	<0.1	22	0.4	0.7	0.1	60	0.16	0.079	
6121400 640400	Soil			2.0	16.6	9.6	90	0.3	11.7	7.8	955	3.46	13.0	0.6	<0.5	<0.1	31	0.7	0.5	0.2	67	0.14	0.080	
6121400 640450	Soil			1.3	15.6	10.9	80	0.4	12.9	9.1	462	4.75	16.7	0.4	<0.5	0.2	17	0.8	0.6	<0.1	72	0.16	0.175	
6121400 640500	Soil			1.0	14.1	9.3	75	0.4	11.8	6.6	399	3.52	14.5	0.4	0.7	<0.1	23	0.4	0.5	<0.1	63	0.16	0.088	
6121400 640550	Soil			1.5	16.4	11.7	79	0.3	11.9	6.4	378	4.08	18.3	0.5	1.3	<0.1	18	0.9	0.8	<0.1	73	0.17	0.139	
6121400 640600	Soil			1.0	12.3	10.4	82	0.3	11.1	6.4	429	3.10	10.7	0.6	5.7	<0.1	42	0.2	0.4	0.2	58	0.26	0.123	
6121400 640650	Soil			1.2	16.1	11.5	74	<0.1	12.6	8.2	389	4.52	14.7	0.5	2.9	0.7	17	0.3	0.7	0.1	69	0.12	0.068	
6121400 640700	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.	



A Bureau Veritas Group Company

www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

Project: SIVI  
Report Date: September 05, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000230.1

Method	Analyte	Unit	MDL	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
				ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
6121100 638750	Soil			6	20	0.42	97	0.027	6	2.99	0.006	0.03	<0.1	0.13	2.7	<0.1	<0.05	6	0.7	<0.2
6121100 638800	Soil			10	21	0.62	110	0.023	5	3.51	0.007	0.05	0.1	0.04	3.7	0.2	<0.05	9	0.7	<0.2
6121100 640350	Soil			9	26	0.67	222	0.010	5	2.92	0.009	0.08	<0.1	0.07	2.6	0.1	<0.05	9	<0.5	<0.2
6121100 640400	Soil			8	20	0.56	177	0.011	6	3.04	0.009	0.07	<0.1	0.06	2.0	0.1	<0.05	9	<0.5	<0.2
6121100 640450	Soil			9	18	0.56	124	0.036	5	2.47	0.011	0.05	<0.1	0.10	3.2	<0.1	<0.05	7	<0.5	<0.2
6121100 640500	Soil			10	18	0.53	179	0.008	5	3.21	0.008	0.08	<0.1	0.07	2.0	0.2	<0.05	9	<0.5	<0.2
6121100 640550	Soil			11	18	0.57	155	0.012	4	3.27	0.009	0.06	<0.1	0.08	1.9	0.1	<0.05	8	<0.5	<0.2
6121100 640600	Soil			10	21	0.63	161	0.029	6	3.27	0.011	0.06	<0.1	0.10	3.6	<0.1	<0.05	8	0.9	<0.2
6121100 640650	Soil			6	17	0.30	121	0.026	6	2.35	0.008	0.03	<0.1	0.05	1.3	<0.1	<0.05	7	<0.5	<0.2
6121100 640700	Soil			9	19	0.56	164	0.035	5	2.29	0.011	0.07	<0.1	0.07	3.0	<0.1	<0.05	7	<0.5	<0.2
6121400 640300	Soil			20	20	0.40	171	0.006	5	3.78	0.008	0.08	0.1	0.16	1.1	0.2	0.10	8	0.7	<0.2
6121400 640350	Soil			8	21	0.31	127	0.021	2	2.50	0.007	0.03	<0.1	0.05	1.4	<0.1	<0.05	9	<0.5	<0.2
6121400 640400	Soil			9	18	0.37	154	0.018	4	2.48	0.009	0.05	<0.1	0.12	1.2	0.1	<0.05	9	<0.5	<0.2
6121400 640450	Soil			5	20	0.36	114	0.050	3	2.44	0.006	0.04	<0.1	0.11	3.4	<0.1	<0.05	7	<0.5	<0.2
6121400 640500	Soil			6	17	0.39	125	0.041	4	1.97	0.007	0.05	<0.1	0.09	2.6	<0.1	<0.05	7	<0.5	<0.2
6121400 640550	Soil			6	20	0.36	114	0.033	3	2.11	0.006	0.07	<0.1	0.14	1.9	<0.1	<0.05	9	0.6	<0.2
6121400 640600	Soil			10	16	0.44	196	0.014	4	2.62	0.010	0.06	0.1	0.08	1.6	<0.1	<0.05	8	0.7	<0.2
6121400 640650	Soil			8	20	0.44	105	0.057	4	3.43	0.009	0.04	0.1	0.07	4.7	<0.1	<0.05	8	<0.5	<0.2
6121400 640700	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.

# QUALITY CONTROL REPORT

SMI13000230.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
988277	Soil	1.4	16.3	10.3	71	0.2	11.1	5.6	385	3.00	16.6	0.8	<0.5	<0.1	16	0.3	0.5	0.4	62	0.07	0.113
REP 988277	QC	1.6	16.0	9.8	72	0.2	11.7	5.7	398	3.03	16.5	0.7	<0.5	<0.1	16	0.4	0.5	0.3	61	0.07	0.100
990413	Soil	1.0	16.8	8.7	66	0.2	10.7	9.0	787	3.92	11.4	0.6	<0.5	<0.1	23	0.1	0.5	0.1	62	0.18	0.117
REP 990413	QC	1.0	18.2	9.1	69	0.2	11.0	9.2	821	4.15	12.2	0.6	<0.5	<0.1	24	0.1	0.5	0.2	64	0.18	0.135
990426	Soil	0.8	13.8	22.6	116	0.4	8.9	4.9	321	2.88	24.8	0.5	2.8	0.1	24	0.4	0.4	0.2	55	0.09	0.099
REP 990426	QC	0.9	13.1	22.7	114	0.4	8.8	4.9	313	2.78	24.1	0.5	1.0	<0.1	23	0.3	0.6	0.1	53	0.09	0.094
990450	Soil	1.2	12.8	9.3	51	0.3	10.4	5.3	324	2.90	11.5	0.6	1.6	<0.1	23	0.3	0.4	<0.1	58	0.11	0.085
REP 990450	QC	1.2	12.2	9.3	53	0.3	9.8	5.4	324	2.94	11.7	0.6	<0.5	<0.1	23	0.2	0.6	0.1	60	0.11	0.083
990462	Soil	1.0	11.2	9.4	63	0.3	8.9	5.4	392	2.27	6.4	0.5	<0.5	<0.1	20	0.1	0.3	<0.1	52	0.09	0.069
REP 990462	QC	0.7	11.6	9.2	65	0.3	9.7	5.9	404	2.41	6.8	0.5	0.8	<0.1	20	0.2	0.4	<0.1	54	0.10	0.069
990486	Soil	1.0	8.9	12.3	54	0.2	6.4	3.5	153	1.95	7.7	0.5	2.7	<0.1	19	0.3	0.4	0.2	44	0.09	0.080
REP 990486	QC	1.0	9.1	12.3	51	0.2	6.2	3.3	158	1.97	7.7	0.5	0.8	<0.1	19	0.2	0.3	0.2	44	0.09	0.079
990498	Soil	2.2	16.1	57.1	220	0.2	17.8	11.2	1041	3.35	51.4	22.0	6.3	0.6	18	0.7	1.2	0.2	54	0.15	0.135
REP 990498	QC	2.3	15.9	58.1	241	0.3	18.9	11.6	1090	3.57	53.2	23.0	41.0	0.6	20	0.5	1.6	0.2	58	0.16	0.136
6120800 639650	Soil	1.3	31.8	9.0	67	0.1	18.6	8.9	356	4.23	12.8	0.4	5.4	0.7	15	0.1	0.9	0.2	69	0.06	0.098
REP 6120800 639650	QC	1.4	31.1	8.9	67	0.1	18.2	9.2	352	4.09	13.3	0.4	0.8	0.8	15	0.1	0.9	0.2	70	0.05	0.098
6120800 639750	Soil	1.0	17.4	11.7	79	0.3	17.2	8.3	429	3.78	12.7	0.5	<0.5	0.1	19	0.3	0.8	0.2	69	0.11	0.081
REP 6120800 639750	QC	0.8	17.2	10.8	79	0.3	17.1	7.9	406	3.57	12.5	0.4	<0.5	0.1	18	0.4	0.8	0.2	64	0.10	0.078
6120800 639900	Soil	0.9	13.7	13.8	73	<0.1	11.3	6.2	332	4.79	16.9	0.3	1.0	0.6	39	<0.1	0.6	0.1	84	0.04	0.138
REP 6120800 639900	QC	1.2	13.1	13.0	73	<0.1	11.2	6.1	348	4.46	17.4	0.3	0.7	0.6	40	0.1	0.7	0.1	81	0.04	0.138
6121100 640500	Soil	1.0	18.8	8.4	94	0.3	12.8	8.2	583	3.75	11.0	0.6	<0.5	0.1	23	0.2	0.4	0.2	69	0.13	0.123
REP 6121100 640500	QC	1.2	20.6	8.5	101	0.3	14.1	8.6	548	3.84	12.2	0.6	0.6	<0.1	24	0.2	0.6	0.2	70	0.14	0.118
6121400 640650	Soil	1.2	16.1	11.5	74	<0.1	12.6	8.2	389	4.52	14.7	0.5	2.9	0.7	17	0.3	0.7	0.1	69	0.12	0.068
REP 6121400 640650	QC	1.2	17.3	11.8	81	0.1	14.1	9.4	416	4.71	15.8	0.5	1.7	0.7	18	0.5	0.8	0.2	73	0.12	0.071
Reference Materials																					
STD DS9	Standard	12.2	101.1	123.4	305	1.8	39.7	7.4	536	2.16	23.2	2.7	105.4	6.2	69	2.4	6.1	6.3	40	0.66	0.079
STD DS9	Standard	12.7	99.7	119.4	298	1.8	35.6	7.0	555	2.24	25.4	2.6	117.1	5.6	64	2.4	5.3	5.1	36	0.65	0.082
STD DS9	Standard	12.9	104.9	129.2	307	2.0	39.5	7.1	564	2.25	23.9	2.7	114.8	6.5	73	2.2	6.0	6.2	40	0.69	0.080

## QUALITY CONTROL REPORT

SMI13000230.1

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																		
988277	Soil	6	23	0.31	99	0.015	5	1.96	0.007	0.05	<0.1	0.08	1.0	0.1	<0.05	8	<0.5	<0.2
REP 988277	QC	6	22	0.29	98	0.013	2	1.84	0.007	0.06	<0.1	0.05	0.8	<0.1	<0.05	9	<0.5	<0.2
990413	Soil	9	19	0.39	115	0.031	2	2.74	0.009	0.05	0.2	0.08	2.3	<0.1	<0.05	7	<0.5	<0.2
REP 990413	QC	9	20	0.43	114	0.031	1	3.12	0.010	0.05	<0.1	0.11	2.2	<0.1	0.08	7	<0.5	<0.2
990426	Soil	6	16	0.32	95	0.016	<1	2.95	0.008	0.04	<0.1	0.09	1.7	<0.1	<0.05	8	0.5	<0.2
REP 990426	QC	6	15	0.31	97	0.015	<1	2.89	0.008	0.04	<0.1	0.09	1.7	<0.1	<0.05	8	0.7	<0.2
990450	Soil	7	16	0.32	88	0.038	<1	2.14	0.010	0.03	<0.1	0.09	1.4	<0.1	<0.05	7	<0.5	<0.2
REP 990450	QC	6	16	0.30	88	0.039	<1	2.09	0.010	0.03	<0.1	0.09	1.5	<0.1	<0.05	7	<0.5	<0.2
990462	Soil	6	16	0.33	118	0.017	1	2.15	0.009	0.05	<0.1	0.04	1.1	<0.1	<0.05	9	0.5	<0.2
REP 990462	QC	7	15	0.35	120	0.028	2	2.13	0.010	0.06	<0.1	0.05	1.4	<0.1	<0.05	8	1.1	<0.2
990486	Soil	7	13	0.24	76	0.014	3	1.96	0.008	0.04	<0.1	0.05	0.9	0.1	<0.05	9	<0.5	<0.2
REP 990486	QC	7	13	0.24	76	0.013	2	1.97	0.008	0.05	0.1	0.04	0.8	0.1	<0.05	9	<0.5	<0.2
990498	Soil	9	20	0.63	87	0.027	3	2.41	0.007	0.05	<0.1	0.06	3.4	<0.1	<0.05	7	<0.5	<0.2
REP 990498	QC	9	21	0.64	92	0.029	5	2.52	0.008	0.07	<0.1	0.06	3.9	0.1	<0.05	7	<0.5	<0.2
6120800 639650	Soil	6	21	0.49	63	0.013	2	3.02	0.005	0.03	0.1	0.06	4.3	<0.1	<0.05	8	<0.5	<0.2
REP 6120800 639650	QC	6	22	0.48	64	0.012	2	3.04	0.005	0.03	0.1	0.05	4.2	<0.1	<0.05	8	<0.5	<0.2
6120800 639750	Soil	6	22	0.56	82	0.033	3	2.21	0.007	0.03	0.1	0.06	2.3	<0.1	<0.05	9	<0.5	<0.2
REP 6120800 639750	QC	6	21	0.55	81	0.031	2	2.01	0.008	0.03	0.1	0.07	2.1	<0.1	<0.05	9	<0.5	<0.2
6120800 639900	Soil	4	17	0.34	91	0.036	3	2.25	0.007	0.04	0.1	0.05	3.9	<0.1	<0.05	9	<0.5	<0.2
REP 6120800 639900	QC	5	17	0.34	91	0.034	3	2.27	0.007	0.04	0.1	0.06	4.2	<0.1	<0.05	10	<0.5	<0.2
6121100 640500	Soil	10	18	0.53	179	0.008	5	3.21	0.008	0.08	<0.1	0.07	2.0	0.2	<0.05	9	<0.5	<0.2
REP 6121100 640500	QC	11	19	0.56	179	0.012	8	3.28	0.008	0.07	<0.1	0.10	1.5	0.1	<0.05	10	<0.5	<0.2
6121400 640650	Soil	8	20	0.44	105	0.057	4	3.43	0.009	0.04	0.1	0.07	4.7	<0.1	<0.05	8	<0.5	<0.2
REP 6121400 640650	QC	9	21	0.49	109	0.083	6	3.49	0.012	0.04	0.1	0.09	5.2	<0.1	<0.05	8	<0.5	0.3
Reference Materials																		
STD DS9	Standard	13	113	0.60	282	0.105	2	0.89	0.081	0.37	3.0	0.20	2.3	5.0	0.07	4	6.0	5.2
STD DS9	Standard	12	107	0.60	281	0.089	1	0.90	0.084	0.36	3.1	0.19	2.5	5.0	0.09	4	6.1	5.1
STD DS9	Standard	13	115	0.61	270	0.104	<1	0.89	0.084	0.40	2.9	0.19	2.2	5.1	0.05	5	3.8	4.8



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 05, 2013

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Part: 1 of 2

# QUALITY CONTROL REPORT

SMI13000230.1

		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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS9	Standard	14.2	117.5	130.5	339	1.9	43.0	7.7	602	2.39	30.3	2.6	117.3	5.3	66	2.4	6.8	5.8	40	0.70	0.083
STD DS9	Standard	13.0	105.2	129.3	313	1.8	40.6	7.5	591	2.42	26.4	3.1	112.3	6.6	76	2.5	6.0	7.1	41	0.74	0.086
STD DS9	Standard	12.7	114.2	134.9	305	1.8	43.1	8.2	584	2.33	24.9	2.7	111.6	6.1	65	2.2	5.7	6.8	43	0.67	0.080
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 05, 2013

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Part: 2 of 2

# QUALITY CONTROL REPORT

SMI13000230.1

		1DX15	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
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
STD DS9	Standard	13	122	0.57	323	0.102	3	0.92	0.076	0.38	2.9	0.20	2.2	5.5	<0.05	5	4.8	4.8
STD DS9	Standard	15	120	0.64	298	0.117	3	0.97	0.090	0.40	3.1	0.17	3.1	5.1	0.14	5	4.9	5.7
STD DS9	Standard	12	129	0.60	280	0.110	3	0.91	0.080	0.40	3.0	0.20	2.7	5.2	0.14	4	5.2	4.6
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	4	<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	0.02	<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
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





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Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: Amarc Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Submitted By: Ted Oliver
Receiving Lab: Canada-Smithers
Received: August 22, 2013
Report Date: September 04, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI13000231.1

CLIENT JOB INFORMATION

Project: SIVI
Shipment ID: 13S05
P.O. Number: SIVI\_SSN13S03\_Aug2213
Number of Samples: 9

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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: Amarc Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Procedure Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2 procedures.

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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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

**Project:** SIVI  
**Report Date:** September 04, 2013

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**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

SMI13000231.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
987791	Soil	0.8	16.7	13.3	140	0.2	21.4	13.3	563	2.73	8.1	0.8	2.1	0.3	85	0.5	0.5	0.3	62	0.80	0.114
987792	Soil	1.2	28.8	35.6	270	1.0	28.5	17.3	1842	4.09	94.5	3.5	6.1	0.7	64	1.6	1.2	2.6	64	0.78	0.125
988260	Soil	1.2	15.7	17.8	239	0.2	19.2	14.6	3164	3.95	45.2	1.7	1.9	0.3	69	1.4	0.8	0.3	61	0.78	0.119
988261	Soil	1.3	21.5	16.5	147	0.2	30.5	15.0	1234	3.80	21.6	1.8	2.2	0.2	52	0.5	0.6	0.2	57	0.46	0.086
988262	Soil	1.2	15.5	15.1	120	<0.1	14.9	11.5	1649	3.15	15.1	0.6	2.7	0.3	58	0.6	0.6	0.1	58	0.53	0.105
988263	Soil	1.8	19.5	69.4	484	0.4	23.9	17.3	3601	3.86	182.4	9.2	10.1	0.6	59	4.1	2.2	0.2	52	0.82	0.133
988264	Soil	2.6	17.3	47.9	662	0.3	19.4	12.9	1943	3.45	177.7	33.3	1.6	0.2	42	7.4	2.0	0.1	58	0.49	0.097
988286	Soil	1.4	43.7	56.7	385	1.9	30.3	18.5	3199	4.48	175.8	6.1	26.7	0.5	59	2.8	2.1	2.7	58	0.76	0.134
6121192 640728	Soil	1.0	16.3	12.1	137	0.3	18.0	12.8	1449	3.39	15.3	0.8	27.4	0.1	57	0.8	0.6	0.2	61	0.54	0.106



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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 CANADA

Project: SIVI  
Report Date: September 04, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000231.1

	Method	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	0.01	0.05	1	0.5	0.2
987791	Soil	13	24	0.75	144	0.061	2	2.08	0.017	0.05	<0.1	0.05	4.9	<0.1	<0.05	6	<0.5	<0.2	
987792	Soil	12	29	0.84	115	0.049	3	1.83	0.020	0.06	<0.1	0.06	5.4	<0.1	<0.05	5	0.5	<0.2	
988260	Soil	11	20	0.64	177	0.061	3	1.98	0.016	0.06	<0.1	0.05	4.2	0.1	<0.05	6	0.8	<0.2	
988261	Soil	8	25	0.56	127	0.017	2	2.17	0.010	0.05	<0.1	0.06	4.2	<0.1	<0.05	6	<0.5	<0.2	
988262	Soil	10	17	0.53	143	0.055	3	1.75	0.018	0.06	<0.1	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2	
988263	Soil	10	27	0.74	133	0.021	3	1.59	0.014	0.07	<0.1	0.06	4.6	0.1	0.07	5	1.5	<0.2	
988264	Soil	10	20	0.56	157	0.030	2	2.16	0.012	0.06	<0.1	0.06	3.7	<0.1	<0.05	6	<0.5	<0.2	
988286	Soil	13	30	0.77	136	0.035	3	1.83	0.013	0.06	0.1	0.05	5.8	<0.1	<0.05	6	1.1	<0.2	
6121192 640728	Soil	11	19	0.56	179	0.036	3	2.28	0.012	0.06	<0.1	0.06	3.4	<0.1	<0.05	6	0.5	<0.2	



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Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

**Client: Amarc Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 04, 2013

Page: 1 of 1

Part: 1 of 2

# QUALITY CONTROL REPORT

SMI13000231.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
987791	Soil	0.8	16.7	13.3	140	0.2	21.4	13.3	563	2.73	8.1	0.8	2.1	0.3	85	0.5	0.5	0.3	62	0.80	0.114
REP 987791	QC	0.8	16.8	13.1	139	0.2	21.3	12.8	572	2.78	7.3	0.8	1.1	0.4	82	0.4	0.5	<0.1	63	0.76	0.107
Reference Materials																					
STD DS9	Standard	13.3	108.5	127.2	315	1.7	39.0	8.0	585	2.38	25.3	2.8	113.1	6.6	68	2.2	5.4	5.8	42	0.68	0.080
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	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	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

## QUALITY CONTROL REPORT

SMI13000231.1

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																		
987791	Soil	13	24	0.75	144	0.061	2	2.08	0.017	0.05	<0.1	0.05	4.9	<0.1	<0.05	6	<0.5	<0.2
REP 987791	QC	13	25	0.75	135	0.072	3	1.95	0.018	0.05	<0.1	0.05	5.1	<0.1	<0.05	6	0.7	<0.2
Reference Materials																		
STD DS9	Standard	13	124	0.59	289	0.125	2	0.93	0.076	0.36	3.1	0.21	2.4	5.2	0.11	5	5.7	5.1
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



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Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: Amarc Resources Ltd.
15th Floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Submitted By: Ted Oliver
Receiving Lab: Canada-Smithers
Received: August 22, 2013
Report Date: September 10, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI13000232.1

CLIENT JOB INFORMATION

Project: SIVI
Shipment ID: 13R07
P.O. Number: SIVI\_SSN13R07\_AUG2213
Number of Samples: 9

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Procedure Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Contains two rows of sample preparation data.

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: Amarc 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.



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 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Amarc Resources Ltd.**  
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 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 10, 2013

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# CERTIFICATE OF ANALYSIS

SMI13000232.1

Method	Analyte	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
987793	Rock	3.94	0.5	32.5	2.2	84	<0.1	84.4	31.6	1274	5.40	1.1	0.2	<0.5	0.6	168	0.3	0.3	<0.1	141	3.04
988253	Rock	3.29	2.5	46.3	160.6	17	0.5	<0.1	0.3	55	2.83	680.3	0.7	<0.5	1.2	8	<0.1	20.2	2.3	4	0.03
988254	Rock	3.92	2.3	75.0	19.9	53	1.1	0.6	3.2	790	3.06	116.4	10.6	<0.5	12.7	11	0.3	5.3	10.9	4	0.01
988255	Rock	4.60	2.6	87.5	18.2	195	0.7	1.3	2.3	123	2.74	209.1	6.2	1.4	10.9	25	1.2	17.6	10.1	7	0.02
988256	Rock	2.42	1.0	30.6	9.1	183	0.2	1.4	1.5	178	2.84	419.2	9.3	<0.5	2.8	18	3.2	82.1	0.4	20	0.01
988257	Rock	2.51	0.3	109.2	11.8	40	0.4	6.7	7.7	498	3.27	12.3	<0.1	<0.5	0.4	64	0.2	1.2	0.4	19	1.57
988266	Rock	2.17	0.5	1.3	11.9	24	0.1	1.1	0.9	299	0.55	8.1	4.5	<0.5	23.1	6	0.2	1.7	0.5	<2	0.07
988285	Rock	3.66	0.5	42.0	36.6	124	0.4	63.3	30.0	2551	5.23	59.3	<0.1	<0.5	0.5	238	0.4	1.0	<0.1	86	4.64
988287	Rock	2.81	0.5	48.3	2.2	73	0.1	94.2	34.8	1387	5.95	24.7	0.2	<0.5	0.6	163	<0.1	0.5	<0.1	164	3.16



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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

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Vancouver BC V6E 4H1 CANADA

Project: SIVI  
Report Date: September 10, 2013

Page: 2 of 2

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

SMI13000232.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	P	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	0.001	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	
987793	Rock	0.192	14	105	3.39	124	0.076	1	3.80	0.110	0.06	<0.1	<0.01	12.2	<0.1	<0.05	11	<0.5	<0.2
988253	Rock	0.045	8	<1	0.02	61	0.001	4	0.37	0.006	0.26	<0.1	0.02	1.4	0.2	<0.05	<1	<0.5	0.3
988254	Rock	0.062	6	2	0.04	48	0.001	4	0.48	0.018	0.25	<0.1	<0.01	2.1	0.4	0.10	1	<0.5	0.3
988255	Rock	0.033	9	2	0.12	36	0.001	4	0.64	0.013	0.28	0.2	0.67	2.3	0.8	0.16	2	<0.5	4.5
988256	Rock	0.039	9	3	0.23	28	0.003	4	1.11	0.008	0.28	0.2	1.90	3.4	2.2	<0.05	3	<0.5	<0.2
988257	Rock	0.034	4	4	0.88	42	0.001	6	0.69	0.035	0.23	<0.1	<0.01	6.5	0.3	0.67	2	<0.5	<0.2
988266	Rock	0.014	10	2	0.03	48	<0.001	4	0.42	0.048	0.19	0.1	0.02	0.8	0.1	<0.05	1	<0.5	<0.2
988285	Rock	0.149	11	64	2.74	38	0.001	5	2.61	0.012	0.13	<0.1	<0.01	12.0	<0.1	<0.05	6	<0.5	<0.2
988287	Rock	0.136	11	132	3.41	46	0.195	4	4.52	0.243	0.06	<0.1	<0.01	15.3	<0.1	<0.05	11	<0.5	<0.2





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 Vancouver BC V6E 4H1 CANADA

Project: SIVI  
 Report Date: September 10, 2013

Page: 1 of 1

Part: 1 of 2

# QUALITY CONTROL REPORT

SMI13000232.1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
988253	Rock	3.29	2.5	46.3	160.6	17	0.5	<0.1	0.3	55	2.83	680.3	0.7	<0.5	1.2	8	<0.1	20.2	2.3	4	0.03
REP 988253	QC		2.6	47.5	173.6	18	0.4	0.3	0.3	59	2.80	693.7	0.8	1.9	1.3	8	<0.1	18.6	2.5	4	0.03
988287	Rock	2.81	0.5	48.3	2.2	73	0.1	94.2	34.8	1387	5.95	24.7	0.2	<0.5	0.6	163	<0.1	0.5	<0.1	164	3.16
REP 988287	QC		0.5	47.8	2.2	74	0.1	97.8	34.7	1404	6.00	24.5	0.2	<0.5	0.6	158	0.1	0.5	<0.1	165	3.20
Reference Materials																					
STD DS9	Standard		13.4	104.1	137.1	307	1.8	39.3	7.0	566	2.28	25.5	2.9	104.7	6.9	72	2.5	6.0	6.9	39	0.71
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1-SMI	Prep Blank		0.6	1.7	2.7	46	<0.1	3.2	3.9	527	1.77	0.7	1.3	<0.5	5.2	51	<0.1	<0.1	<0.1	33	0.41

## QUALITY CONTROL REPORT

SMI13000232.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte		P	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		0.001	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																				
988253	Rock	0.045	8	<1	0.02	61	0.001	4	0.37	0.006	0.26	<0.1	0.02	1.4	0.2	<0.05	<1	<0.5	0.3	
REP 988253	QC	0.046	9	1	0.03	61	0.001	4	0.40	0.007	0.26	<0.1	0.01	1.4	0.2	<0.05	1	<0.5	0.3	
988287	Rock	0.136	11	132	3.41	46	0.195	4	4.52	0.243	0.06	<0.1	<0.01	15.3	<0.1	<0.05	11	<0.5	<0.2	
REP 988287	QC	0.129	11	141	3.44	47	0.214	5	4.54	0.247	0.06	<0.1	<0.01	15.8	<0.1	<0.05	11	<0.5	<0.2	
Reference Materials																				
STD DS9	Standard	0.080	15	114	0.60	309	0.115	3	0.93	0.083	0.39	3.1	0.21	2.5	5.0	0.16	4	5.7	5.0	
STD DS9 Expected		0.0819	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	<0.001	<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	0.070	9	6	0.52	232	0.113	1	0.85	0.071	0.46	<0.1	<0.01	2.3	0.3	<0.05	4	<0.5	<0.2	

## APPENDIX 6

Ea[<sup>^</sup>ES\_ b<sup>^</sup>W5aad<sup>^</sup> S<sup>^</sup>fV<sup>^</sup>

Soil Sample Coordinates  
UTM NAD83, Zone 9

Soil Sample	Easting	Northing
987705	647684.11	6118294.02
987707	647694.38	6118274.42
987710	647759.28	6118327.04
987711	647725.72	6118353.43
987713	647701	6118391
987714	647701	6118391
987715	647701	6118391
987716	647793.5	6118315.59
987718	647905.55	6118343.15
987720	647550.99	6118300.06
987721	647550.99	6118300.06
987722	647504.01	6118289.03
987724	647447.95	6118269.57
987725	647447.95	6118269.57
987726	647395.65	6118253.81
987727	647395.65	6118253.81
987690	648238.46	6118433.56
987691	648238.46	6118433.56
987692	648130.71	6118580.76
987693	648130.71	6118580.76
987694	648016.85	6118607.59
987695	648016.85	6118607.59
987728	648001.05	6117783.67
987729	648001.05	6117777.67
987730	648001.05	6117771.67
987731	648001.05	6117765.67
987732	648001.05	6117783.67
987733	648001.05	6117783.67
987734	647997.56	6117700.81
987735	647972.67	6117636.83
987736	647400.34	6118183.46
987737	647414.4	6118103.52
987738	647466.21	6118139.87
987739	647515.16	6118110.87
987740	647570.12	6118102.23
987741	647554.32	6118050.36
987742	647602.76	6118107.55
987743	647747.45	6118192.44
987744	647802.07	6118180.44
987745	647804.07	6118180.94
987746	648083.26	6118135.13
987747	648083.26	6118135.13
987748	648084.44	6118189.41
987749	648084.44	6118189.41
987758	647970.9	6118475.86
987759	647970.9	6118475.86

Soil Sample	Easting	Northing
987760	647970.9	6118476
987761	648029.5	6118480
987762	648029.5	6118486
987763	648029.5	6118492
987764	648069.3	6118519
987765	648069.3	6118519
993946	648127.9	6118173
993947	648170.8	6118200
988300	631392	6136145
988301	631448	6136159
988302	631502	6136146
988303	631549	6136149
988304	631599	6136151
988305	631649	6136150
988306	631700	6136148
988307	631750	6136149
988308	631800	6136150
988309	631850	6136150
988310	631899	6136150
988311	631951	6136150
988312	632001	6136150
988313	632052	6136148
988314	632099	6136151
988315	632153	6136150
988316	632201	6136149
988317	632250	6136151
988318	632304	6136151
988319	632350	6136151
988320	632405	6136152
988321	632458	6136142
988322	632502	6136152
988323	632552	6136149
988324	632605	6136151
988325	632651	6136148
988326	632701	6136150
988327	632750	6136153
988328	632802	6136153
988329	632843	6136156
988330	632900	6136150
988331	632946	6136154
988332	633003	6136151
988333	633051	6136152
988334	633100	6136151
988335	633148	6136153
988336	633198	6136151
988337	633251	6136150

Soil Sample Coordinates  
UTM NAD83, Zone 9

Soil Sample	Easting	Northing
988338	633301	6136154
988339	633349	6136152
988340	633398	6136154
988341	633452	6136152
988342	633503	6136150
988343	633550	6136153
988344	633599	6136150
988345	633651	6136151
988346	633707	6136150
988347	633752	6136145
988348	633802	6136153
988349	633847	6136152
988350	633899	6136152
988351	633946	6136152
988352	634001	6136150
988353	634050	6136149
988354	634095	6136148
988355	634150	6136153
988356	634192	6136142
988357	634258	6136160
988358	634300	6136149
988359	634348	6136145
988360	634397	6136155
988361	634450	6136157
988362	634650	6136147
988363	634700	6136151
988364	634747	6136152
988365	634797	6136154
988366	634851	6136154
988367	634900	6136152
988368	634950	6136151
988369	635004	6136151
988370	635000	6135852
988371	634950	6135850
988372	634900	6135851
988373	634850	6135850
988374	634801	6135851
988375	634750	6135849
988376	634702	6135849
988377	634648	6135846
988378	634609	6135842
988379	634554	6135832
988380	634501	6135823
988381	634303	6135853
988382	634252	6135850
988383	631959	6135844

Soil Sample	Easting	Northing
988384	631998	6135852
988385	632053	6135849
988386	632100	6135850
988387	632147	6135850
988388	632201	6135850
988389	632250	6135855
988390	632299	6135852
988391	632350	6135850
988392	632400	6135849
988393	632448	6135854
988394	632500	6135855
988395	632549	6135852
988396	632599	6135849
988397	632653	6135852
988398	632701	6135849
988399	632755	6135847
988400	632801	6135852
988401	632850	6135857
988402	632908	6135850
988403	632950	6135859
988404	633017	6135859
988405	633049	6135850
988406	633096	6135844
988407	633160	6135844
988408	633206	6135850
988409	633252	6135853
988410	633300	6135853
988411	633355	6135853
988412	633405	6135849
988413	633452	6135851
988414	633496	6135856
988415	633550	6135856
988416	633601	6135863
988417	633655	6135867
988418	633700	6135860
988419	633751	6135838
988420	633801	6135858
988421	633850	6135853
988422	633898	6135850
988423	633947	6135855
988424	634010	6135860
988425	634050	6135856
988426	634093	6135851
988427	634151	6135850
988428	634200	6135858
988429	632110	6135544

Soil Sample Coordinates  
UTM NAD83, Zone 9

Soil Sample	Easting	Northing
988430	632155	6135555
988431	632202	6135552
988432	632249	6135551
988433	632295	6135550
988434	632357	6135551
988435	632400	6135551
988436	632450	6135551
988437	632501	6135548
988438	632560	6135553
988439	632606	6135553
988440	632649	6135548
988441	632697	6135553
988442	632750	6135550
988443	632797	6135547
988444	632853	6135551
988445	632896	6135551
988446	632952	6135546
988447	633000	6135540
988448	633048	6135513
988449	633100	6135549
988450	633149	6135552
988451	633207	6135546
988452	633250	6135554
988453	633301	6135552
988454	633353	6135558
988455	633399	6135549
988456	633451	6135552
988457	633486	6135547
988458	633549	6135555
988459	633603	6135551
988460	633655	6135548
988461	633700	6135569
988462	633750	6135556
988463	633806	6135555
988464	633849	6135560
988465	633893	6135548
988466	633949	6135553
988467	633999	6135560
988468	634045	6135548
988469	634094	6135553
988470	634150	6135552
988471	634191	6135549
988472	634243	6135553
988473	634300	6135548
988474	634351	6135549
988475	634400	6135542

Soil Sample	Easting	Northing
988476	634454	6135548
988477	634500	6135537
988478	634556	6135254
988479	634603	6135249
988480	634649	6135255
988481	634710	6135246
988482	634750	6135253
988483	634800	6135253
988484	632254	6135252
988485	632302	6135249
988486	632355	6135248
988487	632397	6135253
988488	632449	6135251
988489	632507	6135264
988490	632556	6135250
988491	632602	6135253
988492	632650	6135256
988493	632691	6135250
988494	632755	6135253
988495	632795	6135258
988496	632848	6135249
988497	632893	6135256
988498	632954	6135246
988499	633004	6135254
988870	634250.9	6135998
988871	634202.3	6136002
988872	634159	6135997
988873	634102	6135984
988874	634052.8	6135999
988875	633994.5	6136001
988876	633947	6136008
988877	633904.2	6136004
988878	633850.6	6135998
988879	633786.7	6135991
988880	633702.1	6136001
988881	633644.8	6136005
988882	633602.5	6136001
988883	633552.7	6135998
988884	633495	6136000
988885	633447.9	6135999
988886	633399	6135998
988887	633353	6136001
988888	633302.1	6136001
988889	633252.8	6136001
988890	633201.7	6136001
988891	633149.4	6136000

Soil Sample Coordinates  
UTM NAD83, Zone 9

Soil Sample	Easting	Northing
988892	633098.77	6135992.77
990000	633052	6135252
990001	633100	6135245
990002	633147	6135248
990003	633202	6135248
990004	633249	6135250
990005	633298	6135249
990006	633353	6135251
990007	633404	6135237
990008	633450	6135241
990009	633500	6135249
990010	633552	6135250
990011	633599	6135252
990012	633641	6135253
990013	633702	6135253
990014	633745	6135261
990015	633792	6135269
990016	633849	6135253
990017	633901	6135249
990018	633956	6135260
990019	634002	6135243
990020	634055	6135263
990021	634094	6135255
990022	634143	6135265
990023	634201	6135246
990024	634250	6135247
990025	634307	6135254
990026	634357	6135244
990027	634396	6135253
990028	634450	6135254
990029	634500	6135245
990030	634497	6134953
990031	634449	6134948
990032	634400	6134946
990033	634343	6134953
990034	634291	6134955
990035	634259	6134949
990036	634201	6134950
990037	634099	6134955
990038	634060	6134951
990039	634003	6134956
990040	633953	6134948
990041	633901	6134950
990042	633857	6134956
990043	633809	6134938
990044	633744	6134959

Soil Sample	Easting	Northing
990045	633700	6134951
990046	633650	6134945
990047	633601	6134947
990048	633543	6134956
990049	633502	6134953
990050	633446	6134954
990051	633399	6134957
990052	633349	6134955
990053	633299	6134952
990054	633250	6134949
990055	633197	6134953
990056	633153	6134951
990057	633102	6134952
990058	633051	6134962
990059	632999	6134947
990060	632937	6134958
990061	632901	6134956
990062	632848	6134949
990063	632799	6134954
990064	632750	6134950
990065	632699	6134948
990066	632652	6134951
990067	632598	6134950
990068	632550	6134940
990069	632497	6134953
990070	632437	6134946
990071	632401	6134952
990072	632355	6134944
990073	632301	6134951
990074	632248	6134944
990075	632192	6134952
990076	632150	6134953
990077	632101	6134954
990078	632048	6134952
990079	631993	6134950
990080	634503	6134661
990081	634449	6134647
990082	634398	6134648
990083	634349	6134648
990084	634300	6134651
990085	634250	6134650
990086	634201	6134650
990087	634149	6134651
990088	634104	6134649
990089	634060	6134636
990090	634005	6134633

Soil Sample Coordinates  
UTM NAD83, Zone 9

Soil Sample	Easting	Northing
990091	633944	6134642
990092	633893	6134640
990093	633854	6134655
990094	633801	6134649
990095	633748	6134648
990096	633697	6134648
990097	633656	6134668
990098	633600	6134651
990099	633549	6134649
990100	633501	6134651
990101	633452	6134649
990102	633409	6134658
990103	633350	6134643
990104	633302	6134653
990105	633254	6134663
990106	633208	6134670
990107	633150	6134650
990108	633100	6134661
990109	633053	6134657
990110	633007	6134665
990111	632958	6134663
990112	632915	6134667
990113	632850	6134658
990114	632798	6134654
990115	632749	6134648
990116	632700	6134655
990117	632647	6134649
990118	632614	6134652
990119	632550	6134657
990120	632501	6134647
990121	632407	6134650
990122	632351	6134654
990123	632306	6134650
990124	632250	6134653
990125	632210	6134653
990126	632165	6134660
990127	632100	6134669
990128	632050	6134650
6132200 630000	630005.03	6132194.06
6132200 630050	630054.03	6132186.04
6132200 630100	630108.99	6132198.01
6132200 630250	630252.02	6132194.98
6132200 630300	630300.29	6132196.85
6132200 630350	630350	6132194.98
6132200 630400	630403.98	6132199.02
6132200 630450	630452.02	6132195.98

Soil Sample	Easting	Northing
6132200 630500	630501	6132196
6132200 630550	630547	6132201
6132200 630600	630597.6	6132205
6132200 630650	630655.8	6132207
6132200 630700	630687.6	6132199
6132200 630750	630755.8	6132206
6132200 630800	630812.9	6132201
6132200 630850	630856	6132443
6132200 630900	630905	6132370
6132200 630950	630955	6132394
6132200 631000	631004.7	6132370
6132200 631050	631051	6132360
6132200 631100	631105.8	6132344
6132200 631150	631153	6132306
6132200 631200	631198.9	6132313
6132200 631250	631244.2	6132250
6132200 631300	631288.6	6132255
6132200 631350	631351.7	6132270
6132200 631400	631400.7	6132248
6132200 631450	631453.7	6132240
6132200 631500	631503.5	6132227
6132200 631550	631550.8	6132225
6132200 631600	631598.6	6132225
6132200 631650	631651.5	6132224
6132200 631700	631699.9	6132218
6132200 631750	631752.6	6132211
6132200 631800	631800.7	6132209
6132200 631850	631847.3	6132207
6132200 631900	631899.7	6132206
6132200 631950	631950	6132212
6132200 632000	631997.3	6132195
988896	630993	6131899
988897	630953.3	6131900
988898	630902.4	6131909
988986	631700	6131900
988987	631649.2	6131902
988988	631603.9	6131901
988989	631549	6131899
988990	631506	6131899
988991	631447	6131904
988992	631400.2	6131899
988993	631350.7	6131902
988994	631300.7	6131897
988995	631254.4	6131889
988996	631209	6131898
988997	631149.2	6131903



Soil Sample Coordinates  
UTM NAD83, Zone 9

Soil Sample	Easting	Northing
988998	631107.71	6131912.16
988999	631050.79	6131884.86
990129	632058	6135543
990130	631995	6135551
990131	631955	6135554
990132	631901	6135554
990133	631805	6135544
990134	631745	6135548
990135	631699	6135551
990136	631661	6135534
990137	631611	6135547
990138	631556	6135551
990139	631490	6135545
990140	631448	6135548
990141	631393	6135553
990142	631399	6135260
990143	631450	6135251
990144	631503	6135247
990145	631563	6135241
990146	631599	6135250
990147	631653	6135250
990148	631701	6135255
990149	631754	6135253
990150	631800	6135250
990151	631853	6135255
990152	631897	6135247
990153	631954	6135260
990154	632002	6135251
990155	632051	6135248
990156	632098	6135238
990157	632150	6135241
990158	632201	6135235
990159	631955	6134949
990160	631904	6134956
990161	631803	6134950
990162	631685	6134947
990163	631637	6134936
990164	631600	6134950
990165	631546	6134950
990166	631500	6134954
990167	631454	6134969
990168	631413	6134959
990169	634697	6135550
990170	634751	6135551
990171	634802	6135551
990172	634851	6135554

Soil Sample	Easting	Northing
990173	634901	6135551
990174	634951	6135549
990175	635000	6135551
990176	635002	6135250
990177	634951	6135251
990178	634901	6135250
990179	634853	6135252
990180	634558	6134955
990181	634600	6134950
990182	634643	6134949
990183	634706	6134953
990184	634752	6134951
990185	634801	6134947
990186	634850	6134950
990187	634899	6134946
990188	634950	6134961
990189	635002	6134951
990190	634996	6134648
990191	634947	6134658
990192	634899	6134658
990193	634855	6134651
990194	634800	6134655
990195	634698	6134656
990196	634603	6134643
990266	630600	6131300
990267	630650	6131296
990268	630700	6131300
990269	630750	6131300
990270	630803	6131303
990271	630849	6131298
990272	630898	6131302
990273	630948	6131298
990274	631001	6131291
990275	631051	6131308
990276	631100	6131300
990277	631152	6131293
990278	631202	6131300
990279	631251	6131300
990280	631305	6131298
990281	631349	6131295
990282	631400	6131300
990283	631450	6131303
990284	631493	6131313
990285	631550	6131293
990286	631600	6131300
990287	631645	6131300

Soil Sample Coordinates  
UTM NAD83, Zone 9

Soil Sample	Easting	Northing
990288	631705	6131292
990289	631756	6131301
990290	631755	6131598
990291	631700	6131604
990292	631549	6131600
990293	631498	6131596
990294	631449	6131598
990295	631406	6131594
990296	631351	6131600
990297	631302	6131600
990298	631251	6131588
990299	631199	6131597
990300	631155	6131593
990301	631106	6131603
990302	631050	6131599
990303	631011	6131592
990304	630954	6131601
990305	630894	6131590
990306	630846	6131597
990307	630800	6131604
990308	630761	6131593
990309	630696	6131593
990310	630662	6131594
990311	630602	6131588
990312	630550	6131604
990313	630507	6131598
990314	630458	6131590
990315	630409	6131601
990316	630345	6131602
990317	630300	6131595
990318	630252	6131600
990319	630206	6131602
990320	630500	6131901
990321	630450	6131909
990322	630399	6131898
990323	630346	6131895
990324	630300	6131904
990325	630251	6131897
990326	630051	6131905
990327	630003	6131904
990328	629950	6131906
990329	629899	6131898
990330	629847	6131897
990331	629799	6131891
990332	629751	6131895
990333	629705	6131894

Soil Sample	Easting	Northing
990334	629654	6131900
990335	629600	6131902
990336	629550	6131891
990337	629501	6131902
990338	629508	6131597
990339	629553	6131601
990340	629600	6131595
990341	629650	6131598
990342	629702	6131599
990343	629748	6131600
990344	629800	6131590
990345	629849	6131595
990346	629900	6131600
990347	629950	6131592
990348	630002	6131605
990349	630042	6131602
990350	630100	6131594
990351	630142	6131602
990352	638701	6122302
990353	638745	6122283
990354	638801	6122300
990355	638852	6122300
990356	638900	6122298
990357	638954	6122301
990358	639000	6122300
990359	639050	6122368
990360	639101	6122368
990361	639155	6122322
990362	639198	6122309
990363	639249	6122297
990364	639304	6122297
990365	639349	6122300
990366	639400	6122303
990367	639443	6122300
990368	639504	6122301
990369	639551	6122297
990370	639600	6122293
990371	639647	6122301
990372	639701	6122298
990373	639854	6122298
990374	639900	6122289
990375	639952	6122295
990376	640002	6122297
990377	640052	6122292
990378	640150	6122327
990379	640201	6122298

Soil Sample Coordinates  
UTM NAD83, Zone 9

Soil Sample	Easting	Northing
990380	640250	6122300
990381	640301	6122298
990382	640352	6122308
990383	640408	6122311
990384	640450	6122309
990385	640501	6122304
990386	640554	6122305
990387	640602	6122304
990388	640651	6122305
990389	640702	6122300
990390	640702	6121999
990391	640642	6122001
990392	640599	6121993
990393	640550	6122005
990394	640499	6122005
990395	640447	6122004
990396	640401	6122003
990397	640352	6121998
990398	640300	6122002
990399	640249	6122001
990400	640201	6122000
990401	640151	6122003
990402	640107	6122005
990403	640051	6121995
990404	640005	6121995
990405	639950	6122000
990406	639890	6122000
990407	639851	6122001
990408	639797	6122004
990409	639753	6122009