

Geological Report

on the

**Ting Claims 1-132
(1-28: YD63489-YD63516;
29-56: YD122529-YD122556;
57-132: YE85101-YE85176)
And Wurst claims 1-28
(YD122501-YD122528)
(Grouped)**

at

**the Ting REE Property
(NTS Mapsheets 095C/12)
Yukon Territory**

Property Centroid: 341468 / 6715044
Camp Location: 342205 / 6715960

from

June 13 – July 12; August 4-6th, 2011

for

Harsbo Minerals Ltd.

by

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1. Introduction/Summary

The Ting Property (NTS mapsheet 095C/12; UTM Zone 10 341468 / 6715044) is located in the Watson Lake Mining District of southern Yukon, northeast of the Toobally Lakes area. It consists of 160 contiguous mineral claims. The Ting claims, also known as the Ting property, were staked to cover an alkaline intrusive unit known as the Ting Intrusion with completed work in 2010 and 2011 to assess its rare earth element potential. The Ting project is focused on rare earth element (REE) mineralization that has been described as occurring in multi-phase syenite intrusions forming an alkaline complex in metasediments. Exploration and academic studies in the late 1970's and early 1980's were focused on base-metal exploration on the property, which was never drill-tested. Rare earth minerals such as rinkite and eudialyte were discovered by C. Harrison of St. Joseph Exploration during this stage of exploration. This rare earth element mineralogy was described in his subsequent M.Sc. (1982) thesis work, where he identified the rocks as agpaites.

The fieldwork of 2011 was undertaken by Mackevoy Geosciences Ltd. for Harsbo Minerals Ltd. to re-evaluate Ting for its REE potential. Field work in 2011 was conducted by a 4-6 person crew from June 13-July 12, and August 4-6 (33 days, 137 person-days). The program was led by A. Brand (M.Sc.) and M. Burns (B.Sc., M.Sc. candidate), with support from Prof. L. Groat, B. Wilson (M.Sc.), J. Maddison (B.Sc.), and W. Harman (B.A. candidate). Logistical support was provided by D. Turner, (M.Sc., P.Geo.).

Results from this fieldwork are promising with highly favourable geology and anomalous assays for REEs. The presence of rare earth element mineralization was confirmed in additional areas on the property. Assay results of REE are between 0.11 and 0.26% TREO (up to 2231 ppm TREE+Y) for the tinguaitite sill; up to 0.16 wt. % TREO+Y and relatively high HREO/TREO ratios (up to 15.05) for the main complex; up to 0.42 % TREO for the segregation veins and 0.44 % TREO (and up to 24.64 HREO/TREO ratios) for the radioactive dike, which suggests further exploration in the form of diamond drilling of the main intrusion and the sill location, as well as hand trenching over new soil geochemical anomalies to locate new targets within the claim block. Parallel academic studies, including analysis of heavy mineral concentrate samples, are also advised due to the specialized and complex nature of the mineralization observed. Airborne radiometrics are recommended over the property after scintillometer surveys (done on the ground) proved to be useful in delineating contacts and highly prospective areas.

2. Location and Accessibility

The project is located in southeast Yukon Territory (60 km from the B.C. border, see Fig. 1), and lies south of the Logan Mountains on the Liard Plateau (Douglas 1972). It is accessible via helicopter from Watson Lake airport (170 km to Ting), the Alaska Highway (gravel pit ~90 km from Watson Lake by truck, 105 km to Ting by air), or from the Smith River airstrip (65 km to Ting), which is itself accessed via a road extending off the Alaska Highway. Just to the south of the Ting claims are two claim blocks: the Trani (6 km southwest, owned by Archer, Cathro, and Associates, Ltd. staked in 2006) and the Banditos claims (18 km southeast, owned by True North Gems Inc., discovered in 2004). A Minfile occurrence is noted for the Ting (095C 053) at 60° 31' 58" N / 125° 53' 1" W, which falls in the Jackpine Lake NTS mapsheet (95C/12). The core twenty-eight claims were staked by Allison Brand in June 2010. Additional claim blocks were added throughout the end of 2010, and early 2011, as well as during the field season of 2011 (see Fig. 2, Table 1). These claims are, in summary: Ting Claims 1-132(1-28: YD63489-YD63516; 29-56: YD122529-YD122556; 57-132: YE85101-YE85176) and Wurst claims 1-28 (YD122501-YD122528). All claims have been transferred to Harsbo Minerals Ltd., and grouped.

The Ting property physiography is described by J.C. Harrison in his 1982 M.Sc. thesis (University of Toronto) on the Ting Creek intrusive:

“The area...is characterized by rolling spruce forested hills, deeply incised valleys, and a few bare knobs above the 1200 metre tree line. Most of the hills underlain by intrusive were burnt over in the last ten years...But, blowdown, slash, immature pine, and high brush is typical of older brush areas. Streams in the...drainage basin are rapid and boulder choked...outcrop is common on ridgecrests and along steep valley walls. Talus slopes and cliffs are present in several areas.”

Recent fieldwork on site revealed that there are no recent fires since the thesis was written and undergrowth is common in the old burn areas (see Fig. 3). Lower areas are quite swampy and limit helicopter access points; clearing of pads is always recommended for ground work. Total relief is 300 m and local cliff relief is 100-200 m

Fig. 1. Ting Claims Location Map.

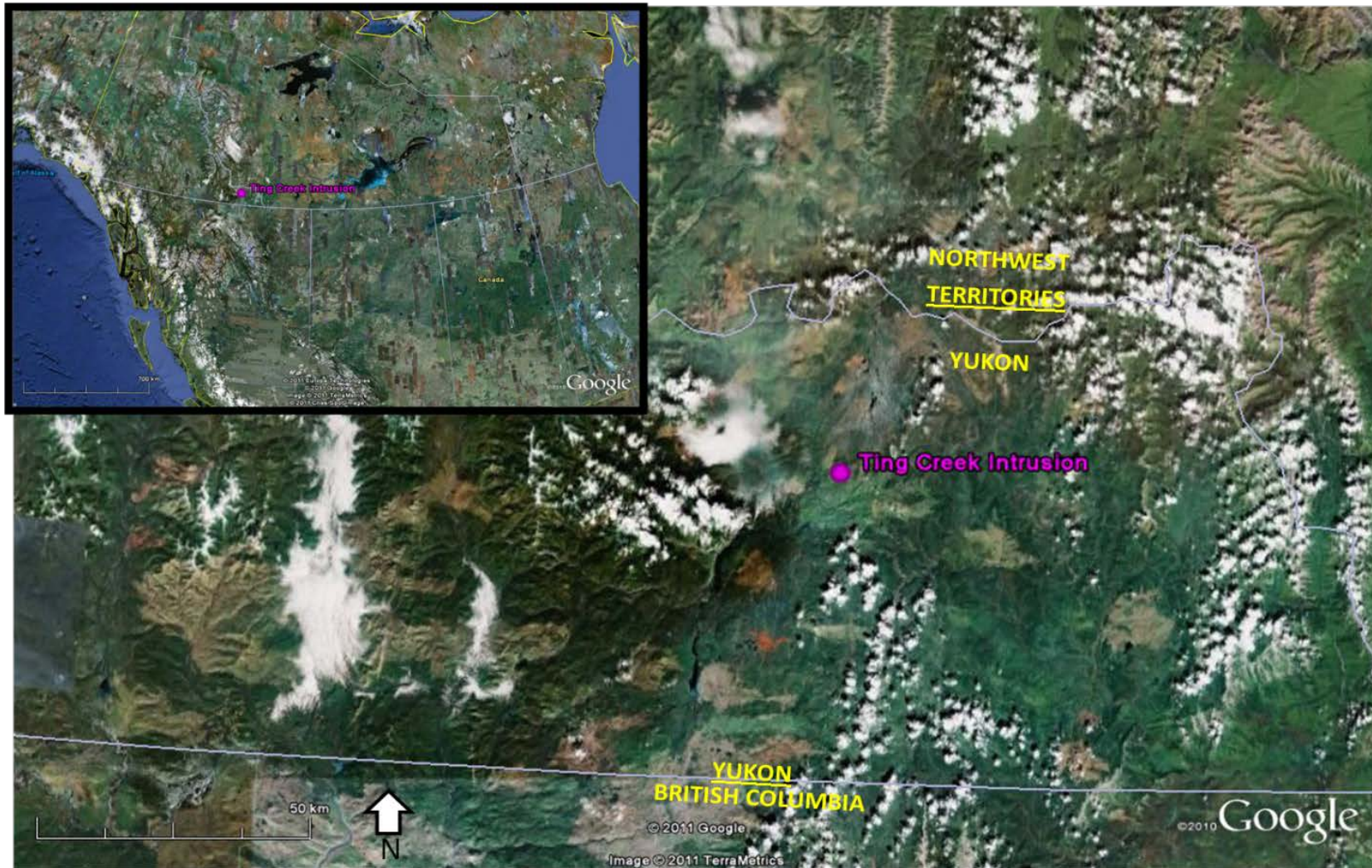


Fig. 2. Ting Property Claim Map.

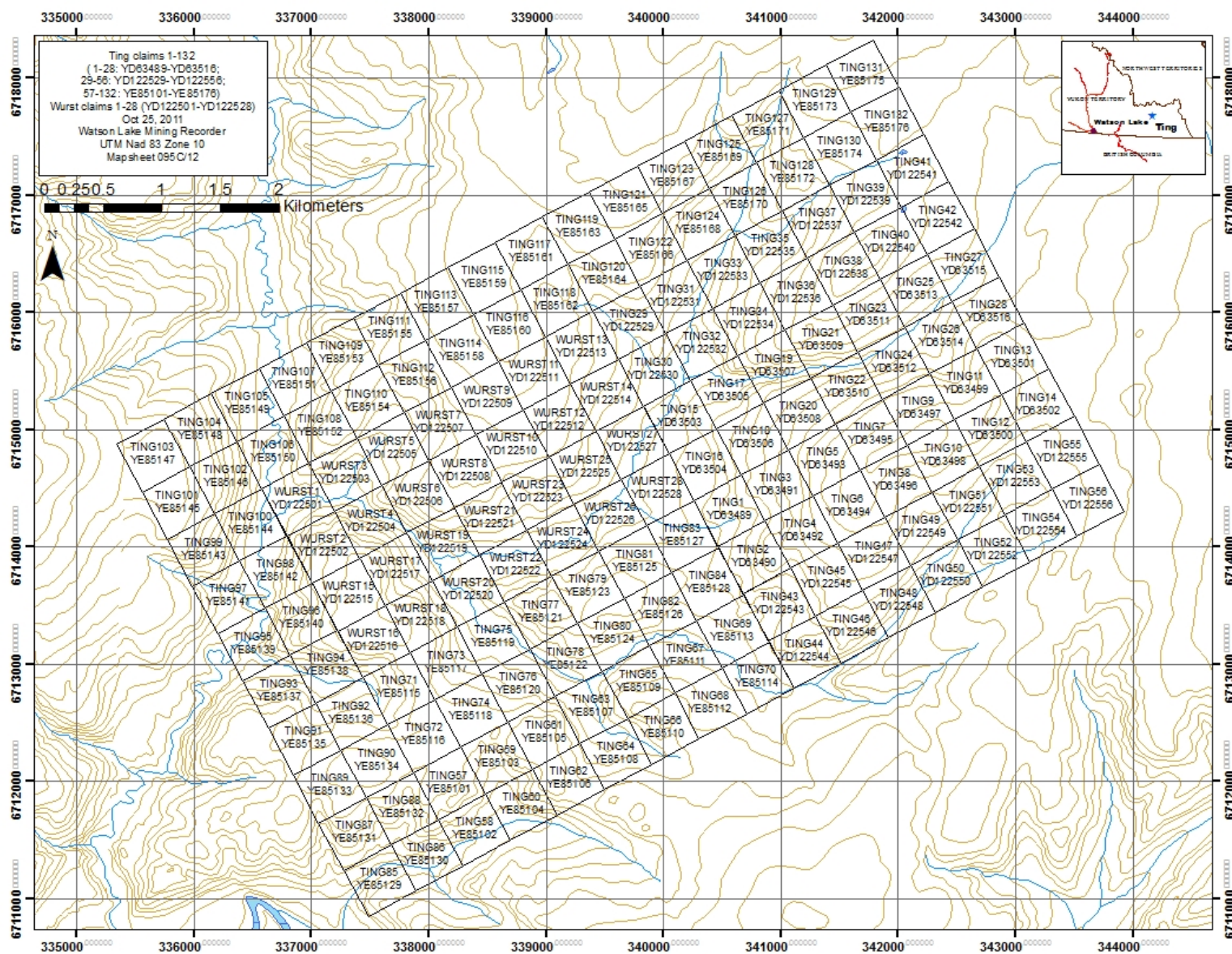


Fig. 3. Photo of Ting Creek and cliffs (looking East) on the Ting Claims.



Table 1. Claim information of core Ting claim block held by Harsbo Minerals.

*Data from Mining Recorder Website, Nov 24, 2011.

Grant Number	Claim Name	Claim Number	Claim Owner	Staking Date	Claim Expiry Date
YD63489	TING	1	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63490	TING	2	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63491	TING	3	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63492	TING	4	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63493	TING	5	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63494	TING	6	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63495	TING	7	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63496	TING	8	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63497	TING	9	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63498	TING	10	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63499	TING	11	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63500	TING	12	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63501	TING	13	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63502	TING	14	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63503	TING	15	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63504	TING	16	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63505	TING	17	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63506	TING	18	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63507	TING	19	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63508	TING	20	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63509	TING	21	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63510	TING	22	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63511	TING	23	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63512	TING	24	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63513	TING	25	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63514	TING	26	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63515	TING	27	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD63516	TING	28	HARSBO MINERALS LTD. - 100%	06/06/2010	09/06/2016
YD122529	TING	29	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122530	TING	30	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122531	TING	31	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122532	TING	32	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122533	TING	33	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122534	TING	34	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122535	TING	35	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122536	TING	36	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122537	TING	37	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122538	TING	38	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122539	TING	39	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122540	TING	40	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122541	TING	41	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122542	TING	42	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122543	TING	43	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011

YD122544	TING	44	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122545	TING	45	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122546	TING	46	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122547	TING	47	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122548	TING	48	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122549	TING	49	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122550	TING	50	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122551	TING	51	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122552	TING	52	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122553	TING	53	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122554	TING	54	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122555	TING	55	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122556	TING	56	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YE85101	TING	57	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85102	TING	58	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85103	TING	59	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85104	TING	60	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85105	TING	61	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85106	TING	62	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85107	TING	63	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85108	TING	64	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
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YE85110	TING	66	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85111	TING	67	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
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YE85115	TING	71	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85116	TING	72	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85117	TING	73	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85118	TING	74	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85119	TING	75	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85120	TING	76	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
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YE85122	TING	78	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85123	TING	79	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
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YE85133	TING	89	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85134	TING	90	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85135	TING	91	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012

YE85136	TING	92	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
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YE85162	TING	118	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85163	TING	119	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
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YE85173	TING	129	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85174	TING	130	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85175	TING	131	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YE85176	TING	132	HARSBO MINERALS LTD. - 100%	29/06/2011	04/07/2012
YD122501	WURST	1	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122502	WURST	2	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122503	WURST	3	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122504	WURST	4	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122505	WURST	5	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122506	WURST	6	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122507	WURST	7	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011

YD122508	WURST	8	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122509	WURST	9	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122510	WURST	10	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122511	WURST	11	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122512	WURST	12	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122513	WURST	13	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122514	WURST	14	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122515	WURST	15	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122516	WURST	16	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122517	WURST	17	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122518	WURST	18	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122519	WURST	19	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122520	WURST	20	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122521	WURST	21	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122522	WURST	22	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122523	WURST	23	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122524	WURST	24	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122525	WURST	25	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122526	WURST	26	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122527	WURST	27	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011
YD122528	WURST	28	HARSBO MINERALS LTD. - 100%	23/11/2010	13/12/2011

3. Property History

Preliminary examination of the Ting Creek alkaline intrusion was conducted by the Geological Survey of Canada (GSC) in 1945, 1957, and 1972. This resulted in a 1:250,000 scale geological map classified as Map 1380A, LaBiche River (Harrison, 1979, 1980).

REE mineralization at Ting was discovered in June 1977 by J.C. Harrison, while he was working for St. Joseph Explorations Ltd. The original Ting claims were first staked in July 1978 by St Joseph on the basis of its base metal potential (Pb, Zn, Th, Mo, and U), and the company conducted three weeks of mapping, geochemistry (246 samples) and radiometric surveys in 1978 (which identified boundaries between intrusive units and sedimentary host rocks). This was followed by horizontal loop electromagnetic (HLEM), VLF Electromagnetic, proton magnetometer and induced polarization surveys (IP), as well as additional geochemistry surveys (123 samples) in 1979. Due to recorded anomalies in the scintillometer surveys, contacts between the early syenite/foyaite and the tinguaitite/other dykes were determined (Harrison, 1979). The results of the surveys also found a 2.5 by 65 meter vein (located on L.97/100 + 75E) containing sulphate and phosphate minerals in the extreme northwest corner of the intrusion (Harrison, 1980). Geophysical surveys indicated that the western part of the intrusion has prominent graphitic shale units underlying it and alongside it (Harrison, 1980).

St Joseph changed its name to Sulpetro Minerals Ltd. in 1981. Several assessment reports (#090481 by J.C. Harrison, #090640 by J.C. Harrison) were submitted in 1978/79 and 1979/80 by St. Joseph, as well as a summary of field work activities in the Yukon Geology and Exploration report (p.131, 1979-80) and in a Mineral Industry report (p. 50, 1979). J.C. Harrison would go on to complete his M.Sc. thesis on the Ting (see below).

It was restaked as the 'Dia' claims 1-6 in October 1993 by A. Harmon. Since then the claims lapsed and the area was restaked by A. Brand in early June 2010 (Ting 1-28; YD63489 through YD63516, see Table 1).

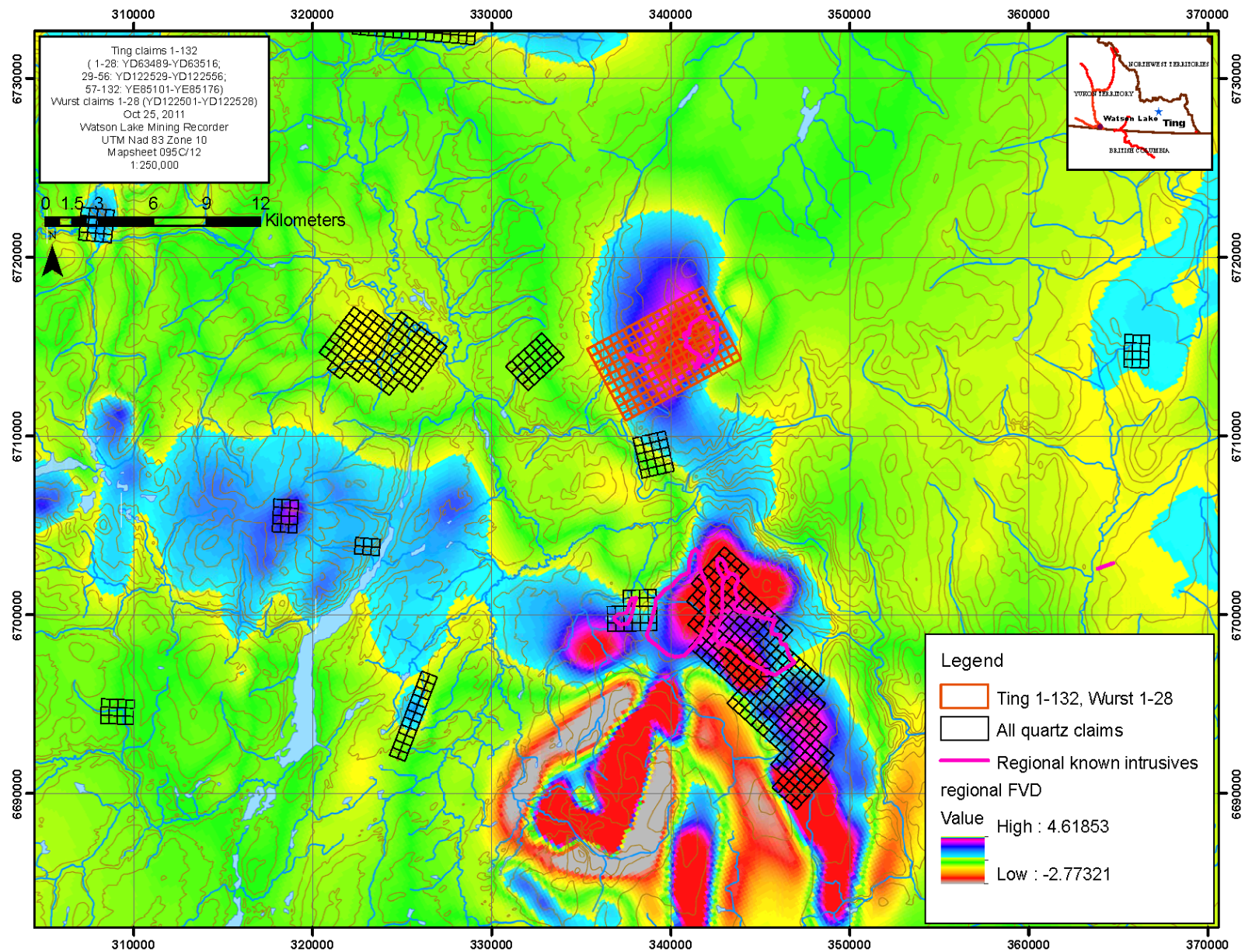
The most extensive geological research was an unpublished Master of Science (M.Sc.) thesis in the early 1980's (Harrison, 1982), which identified the rocks as agpaites. Detailed mapping, sampling, geochemical assaying and mineral chemistry (pyroxene) were completed on samples from the vicinity of the modern Ting 1-28 claims as part of the thesis. No mineral chemistry was conducted on

potentially REE-bearing minerals, and no REE's were analyzed in the geochemical assaying. The other 'trachyte' plugs immediately to the south have no obvious work history associated with them. Subsequent to 1982, all of the samples Harrison used in his thesis were lost.

The intrusion has been described as a syntectonic, composite, multi-phase ring complex, depleted in aluminum and silica (Harrison, 1982) and K-Ar dating of biotite from the intrusion has resulted in three ages (54.1 ± 1.9 Ma, 53.0 ± 1.8 Ma and 52.4 ± 1.8 Ma (Stevens et al., 1982)). It is one of seven epizonal syenite and trachyte plugs mapped in the region and is one of the few known intrusions that is related to the Laramide orogeny which occurred from 35-80 Ma (Harrison, 1982). Harrison (1982) provided more detail about the Ting Creek intrusion through detailed mapping, petrography, and whole rock geochemistry of seventy-five samples. Geological mapping revealed the regional stratigraphy of the area plus the unique ring-shaped structure of the intrusion (Harrison, 1982). Petrography, whole rock and pyroxene chemistry of the samples showed that the Ting Creek intrusion is made up of five separate magmatic suites and each of the suites was injected as a distinct magmatic event, through one feeder pipe, with the order of emplacement being phonolite igneous breccias → quartz syenite → titanite nepheline syenite → leucocratic nepheline syenite and tinguaitite → foyaite and tinguaitite → segregation veins → tuff breccias (Harrison, 1982). Based on these five magmatic suites, and nine phases of igneous activity and mineral assemblages, Harrison (1982) distinguished 23 mappable units.

No government Regional Geochemical Survey (RGS) data exists for the NTS mapsheet 095C. Regional airborne magnetic data were released in 1999 (GSC OF3199). Figure 4 shows the total residual field of regional magnetic data that shows the pronounced and roughly circular anomalies of the Eocene intrusives. Some of these anomalies represent known outcrop of Eocene igneous rocks at surface while others have not been explored. Several intrusive bodies have been mapped in the area, but so far no geochemical data has been released to group them with either Eocene alkaline rocks or Cretaceous granitic rocks.

Fig. 4. Total residual field magnetics (200m) for the 095C map sheet in detail around the Ting.



4. Regional Geology

Several regions in the vicinity of the 95C NTS mapsheet have been recently mapped by Yukon Geological Survey, notably the Pool Creek area (Allen and Pigage 2000). A stratigraphic summary of this region was also completed in 2006 by the same group of geologists (Pigage 2006). This area (95C/5) lies just to the south of the Ting property. The current geological map in use is the Geological Survey of Canada's open file 5018, for the NTS sheet 095C, however a new mapsheet for this area was completed for 2011 [Pigage, L., Abbott, G., Roots, C., 2011. Coal River (NTS 95D): A New Bedrock Geology Map in southwest Yukon; YGS Open File 2011-1]. Figure 5 shows part of the former map; the Ting claims are situated in the stratigraphic unit 'Esy' near the center of Figure 6 (detail), and is marked by crossed hammers labeled '053' (referring to the Minfile occurrence).

The most significant regional information pertaining to the Ting property is the existence of a set of alkalic intrusives thought to be part of the Laramide tectono-thermal event, defined to have occurred between 75 and 35 Ma (Douglas 1977). The Laramide orogeny was also the apex of tectonic activity in the Rocky Mountains (a period of imbricate thrust faulting and concentric flexural slip folding). The Ting Creek intrusion was dated by Harrison (1982) at 53.1 $\pm$ 1.8 m.y, via K-Ar dating of biotite separates from one of the nine intrusive phases he identified, specifically a "rinkolite foyaite" (other intrusions in the area are inferred to be of similar age but have not been dated). The Ting Creek intrusion and others in the vicinity such as the "Brush Creek" tinguaitite sheet and the Pool Creek syenite, are thought to be part this generation of alkalic igneous rocks in the Cordillera, which include the Copeland Mountain nepheline syenite in the Shushwap metamorphic complex (regionally associated with carbonatite and carbonatite gneiss; Currie 1976), the Perry River gneisses, the Goosly Lake stocks, the Marron Formation, and the Coryell Intrusions south of Penticton. They are characterized as mafic to intermediate in composition, mildly to moderately alkalic, and miaskitic (meaning the alkali/alumina ratio is < 1 , whereas agpaitic refers to rocks with a ratio > 1 ; both rock types have a characteristic elemental signature). All of these intrusions are located within the Intermontane Belt, but occur east of the main zone of calc-alkaline volcanic and plutonic activity.

Fig. 5. Excerpts from the regional maps combined (GSC and YGS).

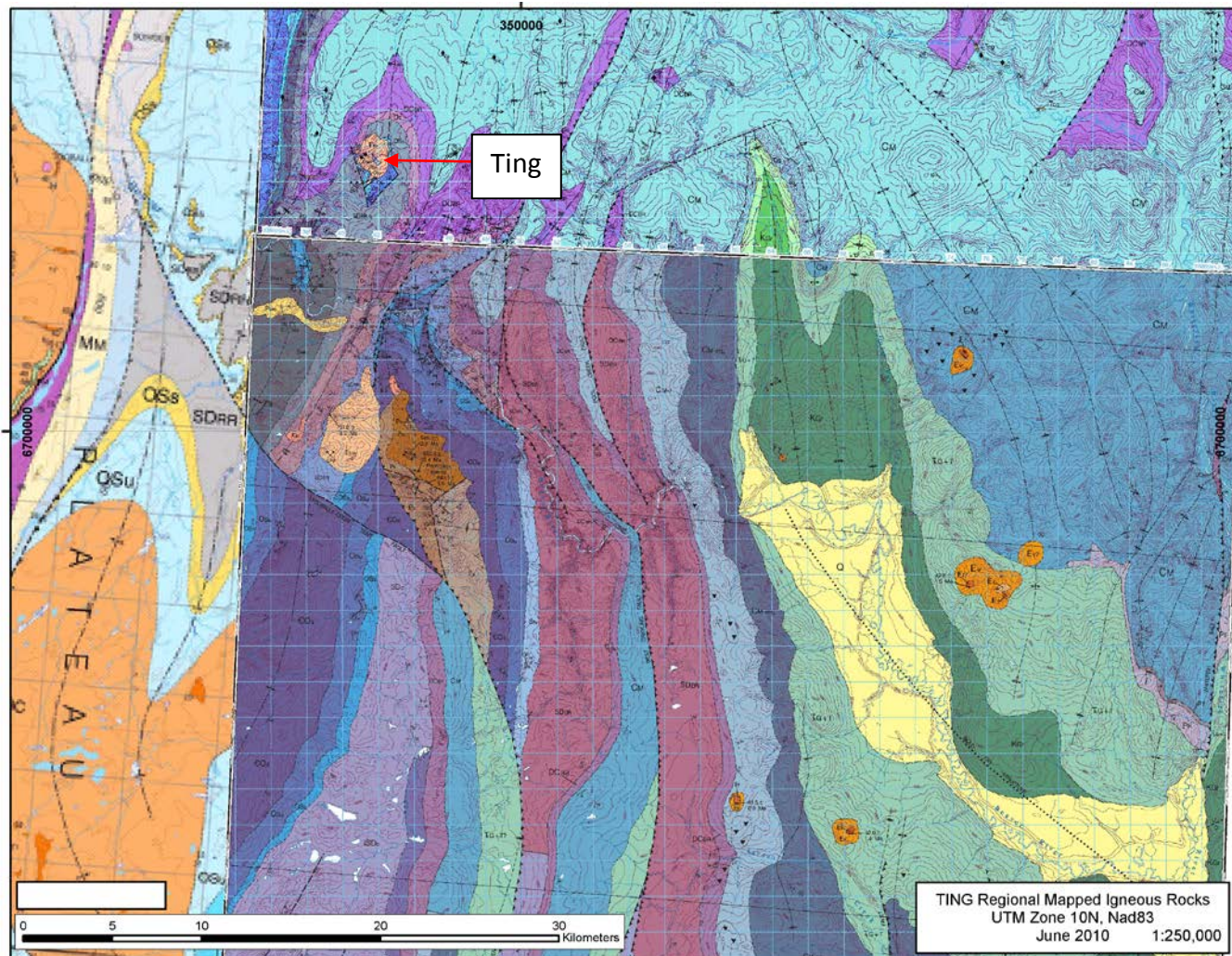
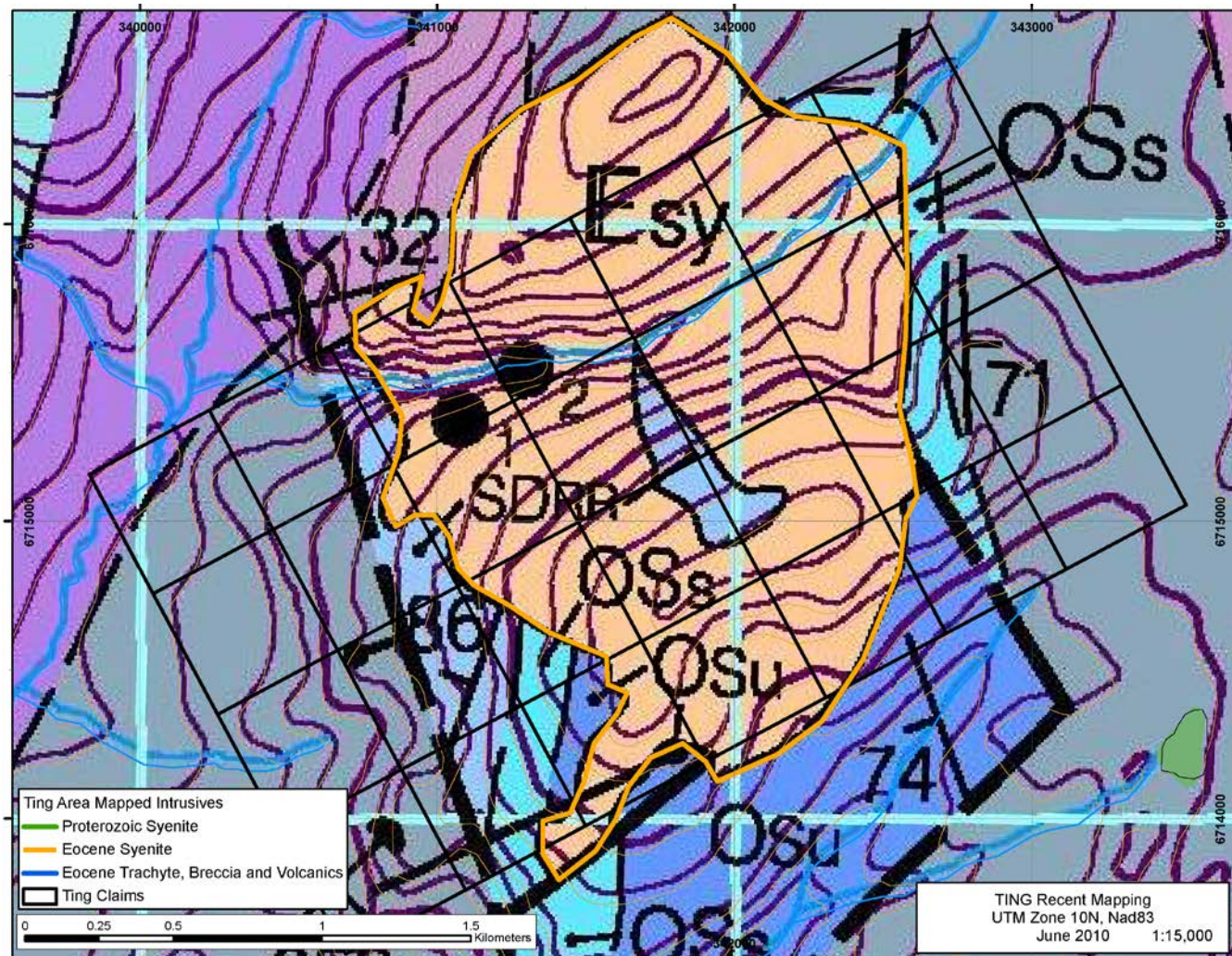


Fig. 6. An excerpt (zoomed) from the regional geology; GSC OF 5018 - NTS mapsheet 95C. The mining symbol with '053' represents the Minfile occurrence; E sy refers to the Ting Creek intrusion.



While the distal association of alkalic volcanism to an active volcanic arc and zone of subduction is long recognized in, for example Japan and the Peruvian Andes, it appears the Ting Creek Intrusion and other alkalic intrusions in the area are well outside and east of the Laramide volcanic arc.

The Ting Creek intrusion and the Pool Creek syenite both appear to have been emplaced along what was the northern edge of the carbonate platform (consisting of the Mattson Formation shales, Sunblood Formation carbonates and dolomites, and the Road River calcio-turbidites and mudstones), which may also be the southern limit of the Selwyn basin as it existed in the Middle to late Ordovician. It is possible that this was an active tectonic hinge zone that may have coincided with an area of repeated dip slip faulting. Several fault sets have been distinguished in the area; a north-trending set parallel to fold axes likely related to steep, east and west dipping Laramide thrusts; and a second set which strikes northeast and dips southeast. The most significant expression of this set is the Beaver River fault (minor faults sharing this attitude have been mapped in the vicinity of the Ting plug).

5. Property Geology

The Ting Creek intrusion and current surrounding claim area was mapped in detail by J. Christopher Harrison for his M.Sc. thesis at the University of Toronto in 1982 (see Figs. 7, 8, and 9). He identified five magmatic suites through geochemistry and pyroxene mineral chemistry, as well as detailed mapping; nine distinct alkaline intrusive phases were defined (see Fig. 10). The later phases have been described as being 'agpaitic', a term which is described below in reference to its economic potential. Injection of the alkaline igneous phases is influenced by existing stratigraphic and fault relationships, and some phases resemble conical dikes and sills. Petrologically, these rocks follow a fairly typical alkaline complex evolutionary trend, beginning with quartz or sphene-nepheline syenites and associated breccias, to leucocratic nepheline syenite, to foyaites, tinguaites, and 'segregation veins', followed by a final breccia phase. The intrusive complex itself is locally intruding both the Middle Ordovician Sunblood Formation (carbonates and dolomites) and the Devono-Mississippian Road River Formation (calico-turbidites and mudstones). Locally, the sedimentary rocks lie in an upright anticline (north striking) with faulted (along strike) southwest and northeast limbs; this creates a horst oriented on the anticlinal axis. The cartoon in Harrison (1982) depicting the injection of the various phases indicates this structure influenced the emplacement geometry of some of the igneous phases (see Fig. 11). The K-Ar age of the Ting Creek intrusion has been reported as 53.1 Ma (Harrison, 1982), and 54.1 ± 9 Ma, 53.0 ± 1.8 Ma, and 52.4 ± 1.8 Ma (Stevens *et al.*, 1982). In the Yukon Minfile report, it is noted that galena, sphalerite and molybdenum occur in veins that are associated with radioactive zones in the contact zone of an intrusion. The pluton is a zoned, cone-shaped, highly fractured, syenite body of Tertiary age which intrudes Paleozoic shale and carbonate rocks. Both intrusive and extrusive phases are present. The main zone is 2.5 m wide and 65 m long in brecciated sandstone and is strongly oxidized. A chip sample assayed 4.6% Pb, 0.3% Zn and 65.7 g/t Ag. There is no mention of REE mineralization in the Minfile report, likely because this property was staked only for its base metal potential, and the commodities listed are Pb, Ag, Zn, Th, Mo, and U.

Fig. 7. Geological map (detailed) from Harrison (1982).

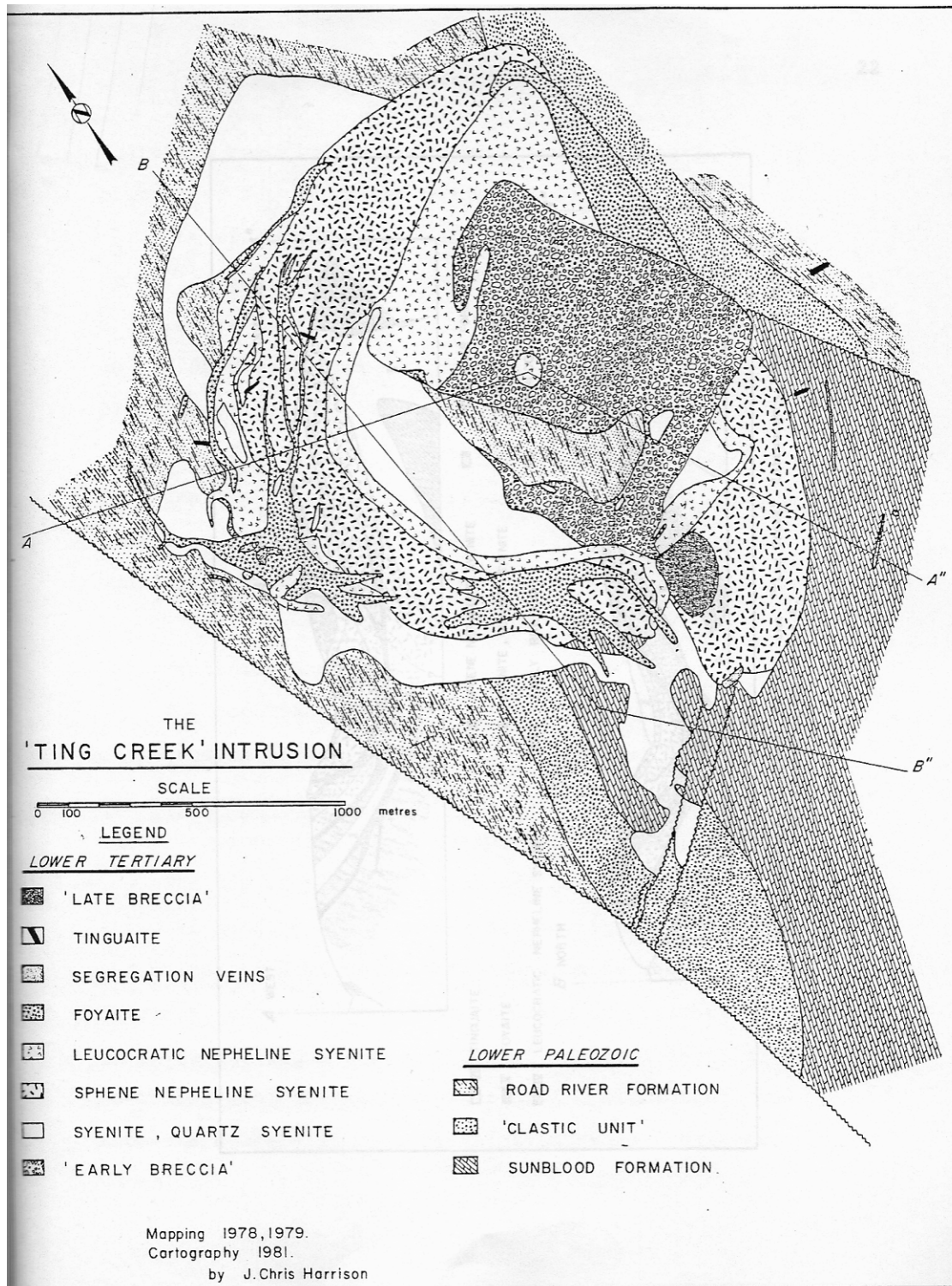


Fig. 8. Geological cross-sections to accompany the previous Figure.

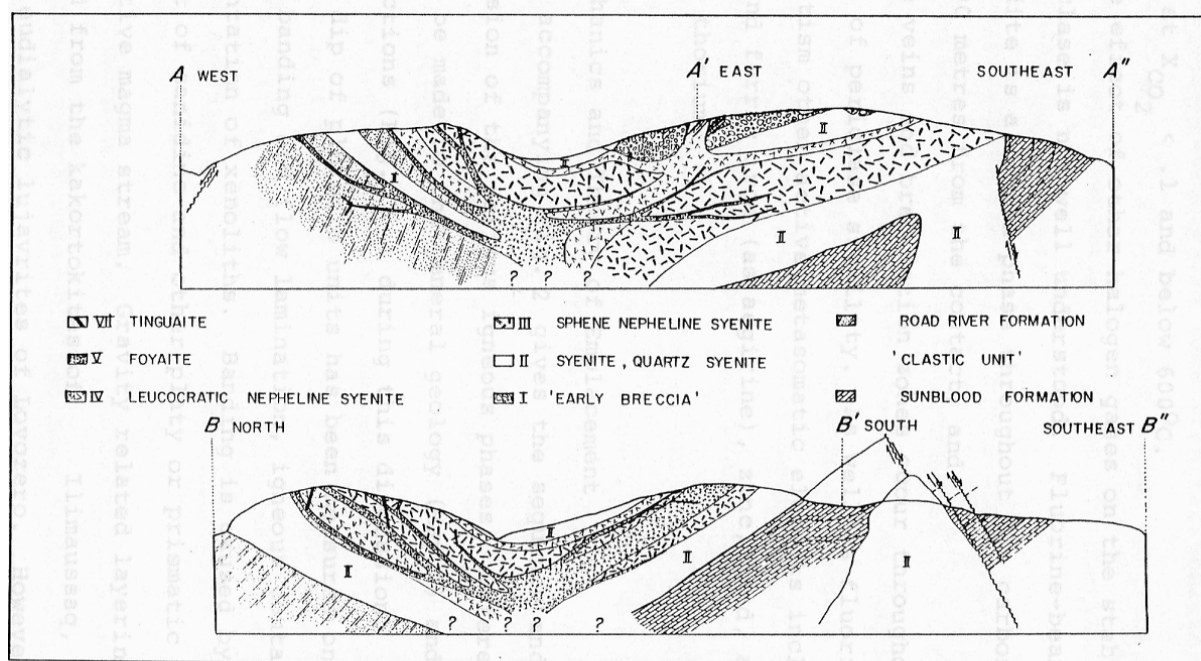


Fig.3 Schematic sections through the 'Ting Creek' Intrusion . Lines of section are located on Maps 3 and 4.

Fig. 9. Claim outline (of original 28 claims) and detailed mapping with topography of the Ting claims.

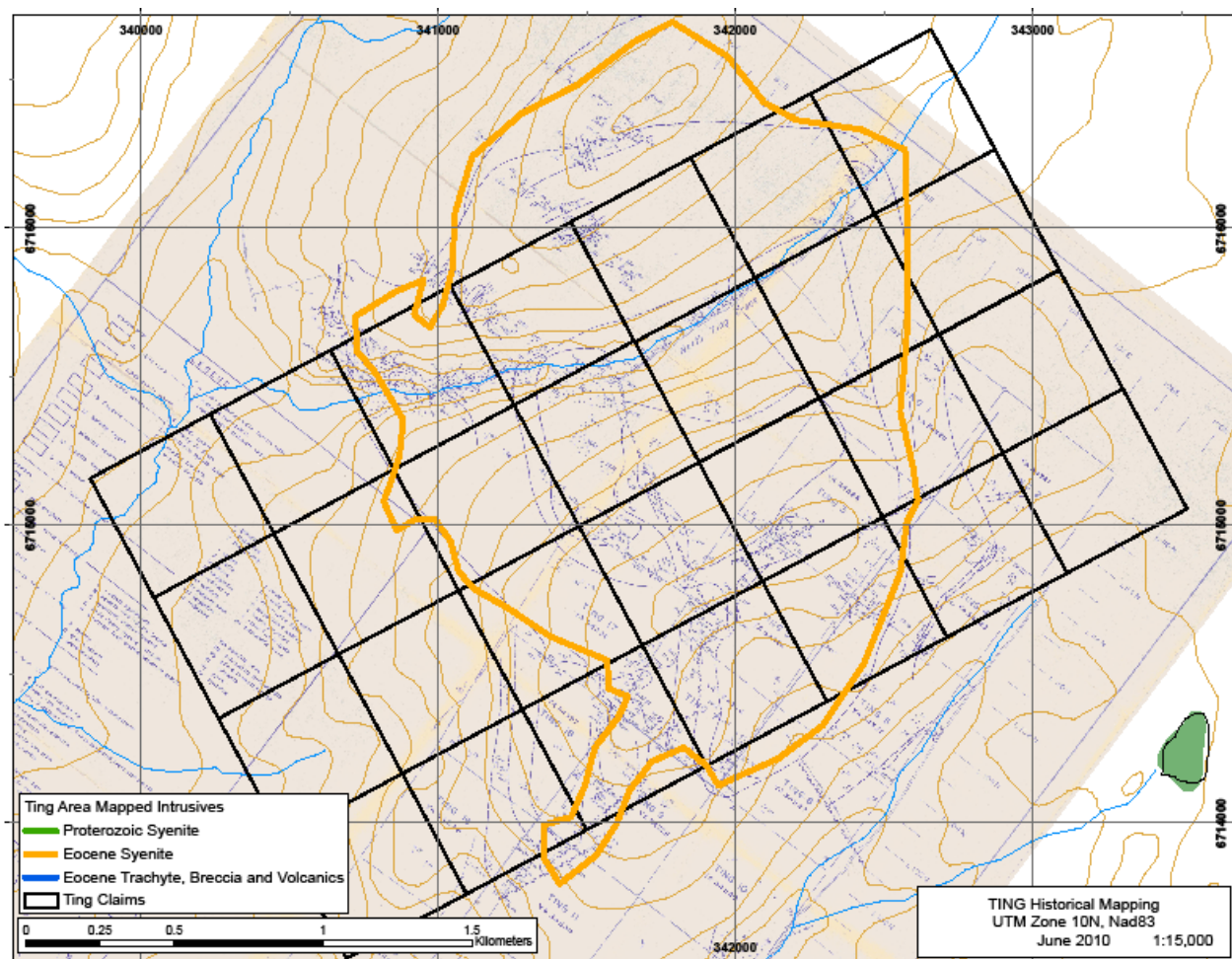
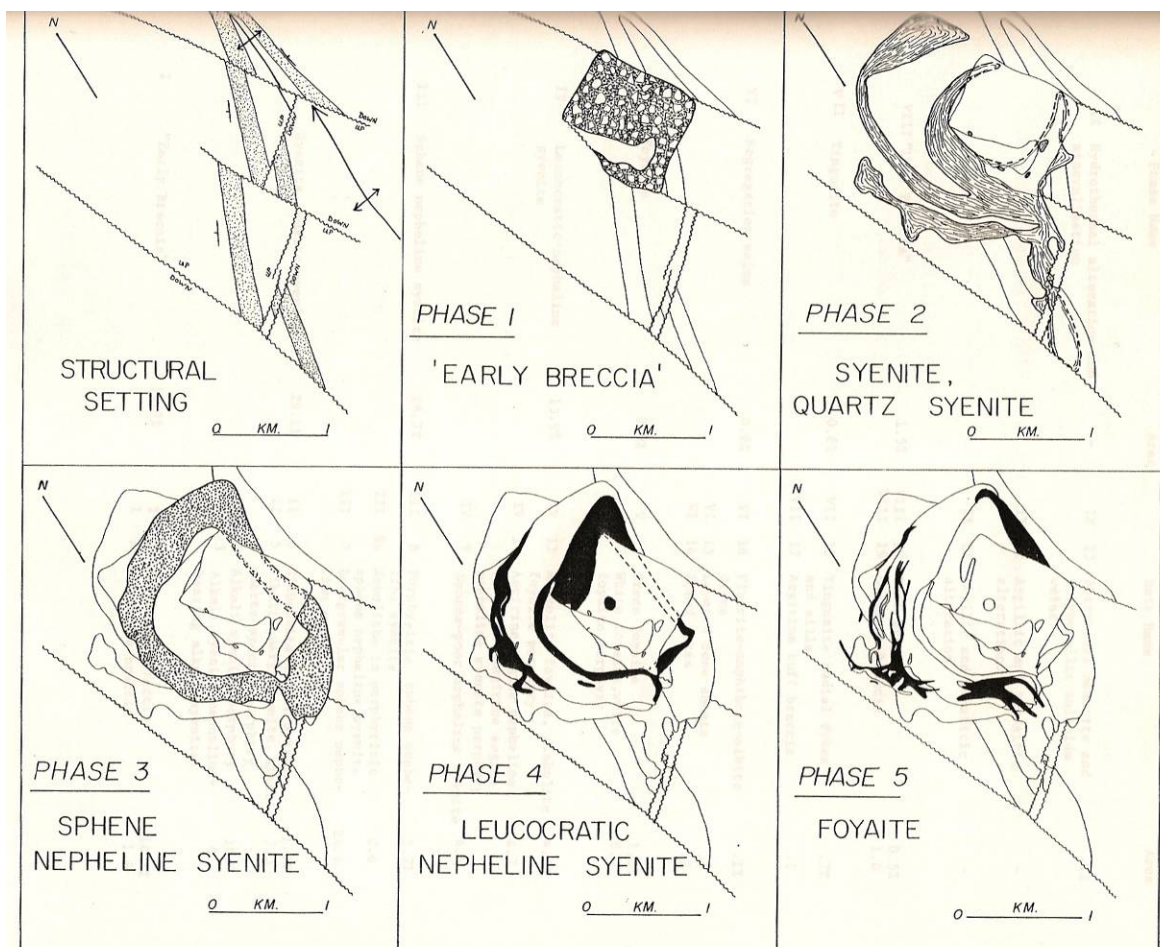


Fig. 10. Intrusive phases identified by Harrison, 1982.

<u>Magmatic phases of the "Ting Creek" Intrusion</u>	
Phase IX	Phyllic, argillic, hematitic, and jarositic alteration and Pb-Ag vein mineralization, along northeast striking fault sets.
Phase VIII	Tuff breccia diatreme intrusion, and peripheral collapse brecciation of roof pendants.
Phase VI	Zoned dykes and layered segregation sills. Coincident injection of aegirine tinguaite dykelets. (Phase VII)
Phase V	Intrusion of three foyaite dyke swarms along cone fractures within earlier phase cone sheets. Coincident injection of aegirine augite tinguaite dykes at foyaite dyke terminations. (Phase VII)
Phase IV	From a single feeder, injection of two sills of leucocratic nepheline syenite above and below the phase III cone sheet. Coincident steam eruptions and injection of ferrosalite tinguaite, sheets and sills ("Brush Creek" tinguaite) (Phase VII)
Phase III	Injection of one main sphene nepheline syenite cone sheet.
Phase II	Dyke-like intrusion of syenite along northeast fault sets, and injection of two syenite cone sheets. Second brecciation involving sedimentary wall rocks, and fragments of the first brecciation.
Phase I	Active gas streaming and first brecciation involving phonolite syenite, and mafic syenite. Extrusion of phonolite through north and northeast striking fissures.

Fig. 11. Cartoon of Ting intrusive emplacement from Harrison (1982).



6. Recent Geological Exploration

6.1 Prospecting and sampling, 2010

The Ting Project 2010 was designed to follow up historical reports of REE mineralization in the Ting area and REE minerals identified during academic studies of the Ting intrusive by C. Harrison. Prospecting of all existing 28 claims was conducted over the course of the field program.

A variety of samples were taken based on geological affinity and hand sample mineralogy. Samples originated largely from outcrops thought to coincide with original sample locations from Harrison's investigation (1982). A total of 29 samples were submitted for geochemical analysis. The location details are given here whereas discussion of assay results is found later in the geochemistry section.

Figure 12 shows the sample locations, which were largely obtained along the main creek on the property, and on one (north) hill. Table 2 lists sample locations with UTM coordinates. Table 3 lists summarized descriptions of the samples collected.

Fig. 12. Sample Location Map for 2010 program.

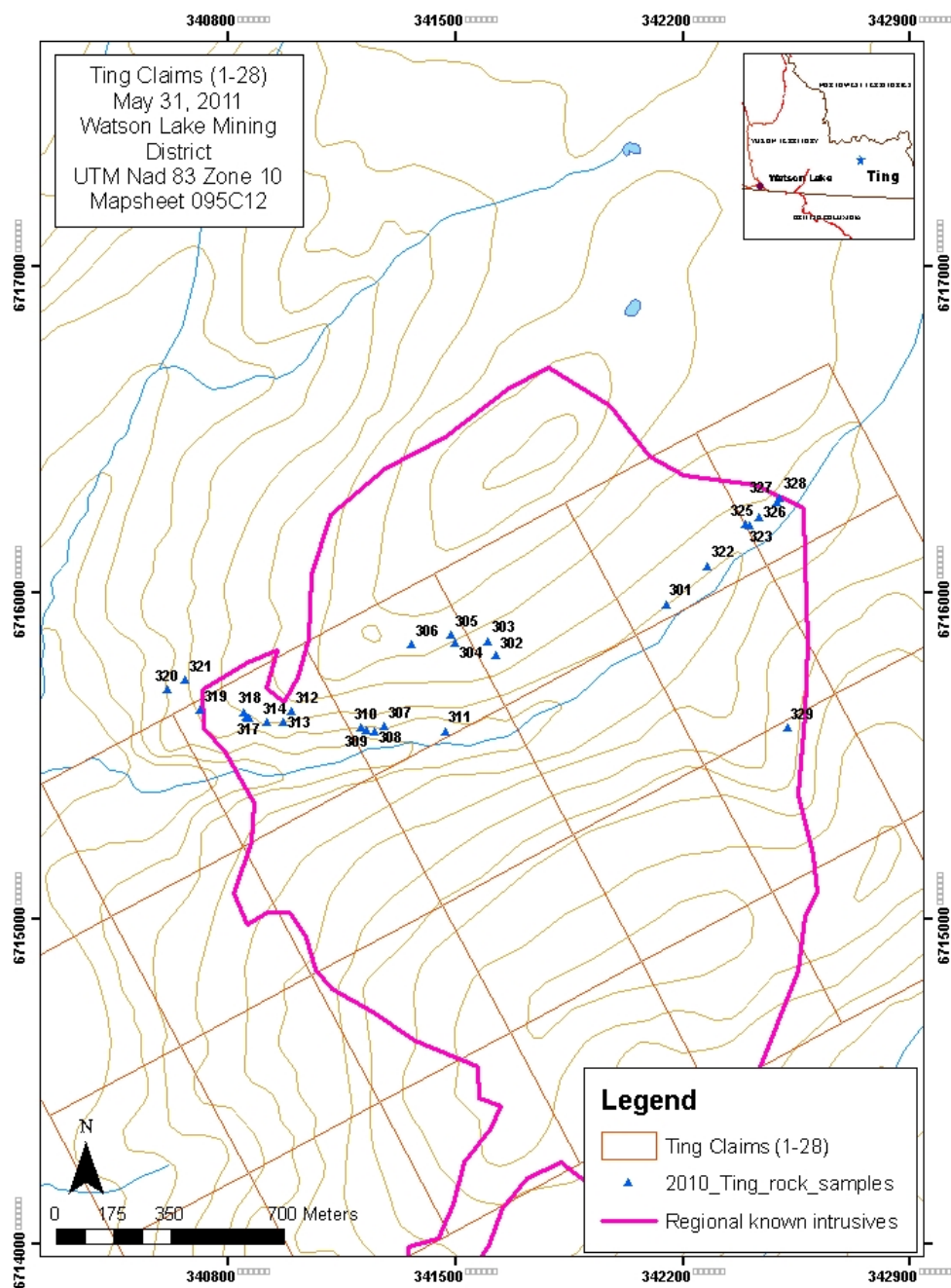


Table 2. Sample Locations for 2010 (UTM Zone 10, Nad 83)

Sample ID	Easting	Northing	Sample ID	Easting	Northing
300	342159	6715974	316	340862	6715620
301	342149	6715964	317	340865	6715618
302	341629	6715810	318	340851	6715634
303	341602	6715852	319	340719	6715639
304	341501	6715848	320	340617	6715702
305	341487	6715870	321	340670	6715733
306	341366	6715842	322	342276	6716083
307	341282	6715589	323	342396	6716209
308	341253	6715573	325	342407	6716208
309	341227	6715579	326	342436	6716232
310	341214	6715585	327	342489	6716280
311	341470	6715575	328	342498	6716292
312	340998	6715636	329	342522	6715586
313	340975	6715604	314	340921	6715602
315	340868	6715618			

Table 3. Descriptions of rock samples collected at the Ting property in 2010.

Sample	Classification
300	Phonolite
301	Alkali quartz syenite
302	Foyaite
303	Rinkolite foyaite
304	Alkali syenite porphyry
305	Tuff breccia
307	Alkali syenite
308	Titanite poor nepheline syenite
309	Titanite poor nepheline syenite
310	Titanite nepheline syenite
311	Alkali syenite
312	Titanite nepheline syenite
313	Tinguaite
314	Foyaite
315	Foyaite
316	Foyaite
317	Syenite
318	Aegirine-augite nepheline syenite
319	Foyaite
320	Alkali syenite
321	Alkali syenite
322	Segregation vein
323	Alkali syenite
324	Nepheline poor syenite with scapolite
325	Foyaite
326	Foyaite
327	Foyaite
328	Titanite poor nepheline syenite
329	Foyaite

6.2 Geochemistry of REE Mineralization (2010)

Twenty-nine rock samples were submitted to ALS Chemex of Vancouver for geochemical assay. Samples were shipped by Mackevoy Geosciences staff from Whitehorse. Samples were received in July and data was delivered by Chemex in September. The analytical package chosen was MEMS81, which is described as a 38-element ICP MS technique with a fusion preparation to ensure complete dissolution of refractory minerals. This package also delivers a full suite of REE elements. Rock samples were crushed to 2 mm and then pulverized to 75 µm. Silt samples were dried and screened to 180 µm.

Samples collected represent grab samples from locally sourced float or outcrop. The collection of samples was based on geological affinity and hand sample mineralogy.

The total rare earth oxides (TREO + Y) and the heavy rare earth oxides total rare earth oxides (HREO/TREO) ratio was calculated for each sample. Heavy rare earth elements were defined as europium through lutetium plus yttrium, and the light rare earth elements were defined as lanthanum through samarium. The results are summarized in Tables 4 and 5. The TREO + Y reveal which samples are enriched and depleted in total rare earth elements and the HREO/TREO ratio reveals which samples are enriched and depleted in heavy rare earth elements compared to the light rare earth elements.

Table 4. TREO + Y for each of the 29 samples (2010).

Sample	TREO+Y (wt %)
303	0.161
305	0.133
319	0.088
309	0.080
312	0.079
308	0.075
310	0.075
320	0.068
304	0.066
302	0.065
311	0.063
318	0.063
329	0.061
327	0.061
307	0.060
324	0.060
316	0.059
328	0.058
300	0.056
301	0.051
317	0.045
323	0.043
315	0.041
313	0.040
326	0.035
322	0.033
314	0.028
325	0.028
321	0.025

Table 5. HREO/TREO ratio for each of the 29 samples (2010).

Order	Sample	HREO/TREO (%)	Rock Name
1	317	15.0460	Syenite
2	314	13.3806	Foyaite
3	323	13.0778	Alkali syenite
4	303	11.7676	Rinkolite foyaite
5	321	10.7253	Aegirine-augite nepheline syenite
6	327	10.5631	Foyaite
7	325	10.3480	Foyaite
8	329	10.1918	Alkali syenite
9	310	9.7888	Titanite nepheline syenite
10	315	9.5971	Foyaite
11	308	9.0977	Titanite poor nepheline syenite
12	322	9.0672	Segregation vein
13	301	9.0188	Alkali quartz syenite
14	300	8.9718	Phonolite
15	324	8.8596	Nepheline poor syenite with scapolite
16	312	8.7118	Titanite nepheline syenite
17	326	8.5469	Foyaite
18	320	7.8125	Alkali syenite
19	313	7.6998	Tinguaite
20	309	7.7409	Titanite poor nepheline syenite
21	302	7.5720	Foyaite
22	305	7.2006	Titanite nepheline syenite
23	316	7.0824	Foyaite
24	318	7.0240	Aegirine-augite nepheline syenite
25	307	6.8232	Alkali syenite
26	319	6.5418	Foyaite
27	328	6.4028	Titanite poor nepheline syenite
28	311	6.1944	Alkali syenite
29	304	5.8646	Alkali syenite porphyry

Assay results from the 2010 reconnaissance sampling and prospecting program at Ting were reasonably promising. Samples 303 and 305 contain the most TREO + Y (0.16% and 0.15%, respectively), whereas samples 317, 314 and 323 contain the highest HREO/TREO ratios (15.05, 13.38, 13.08, respectively). Figure 13 shows the sample locations with TREO+Y contents. The foyaites and a tuff breccia are the most enriched in rare earth elements are. Foyaites are thought to represent the fourth magmatic suite that was emplaced within the Ting Creek intrusion (Harrison, 1982). Rock units lowest in rare earth elements are the syenites/quartz syenites, which were thought to be emplaced first.

The HREO/TREO ratios in the preliminary Ting samples are reasonably high, but slightly lower compared to other REE deposits such as the Nechalacho rare earth element deposit located at Thor Lake, Northwest Territories, which has HREO/TREO ratios that range from 14% to 20%, with the largest being 20.72% (Avalon Rare Metals Inc., 2011). However, these values from Nechalacho reflect the HREO/TREO ratios at a depth of approximately 100 meters (Avalon Rare Metals Inc., 2011). A similar situation may be occurring at the Ting property, where rare earth elements could be more abundant at depth. Figure 14 shows the HREO/TREO ratios for the samples spatially, with graduated level symbology.

Fig. 13. TREO+Y (%) values for 2010 rock samples.

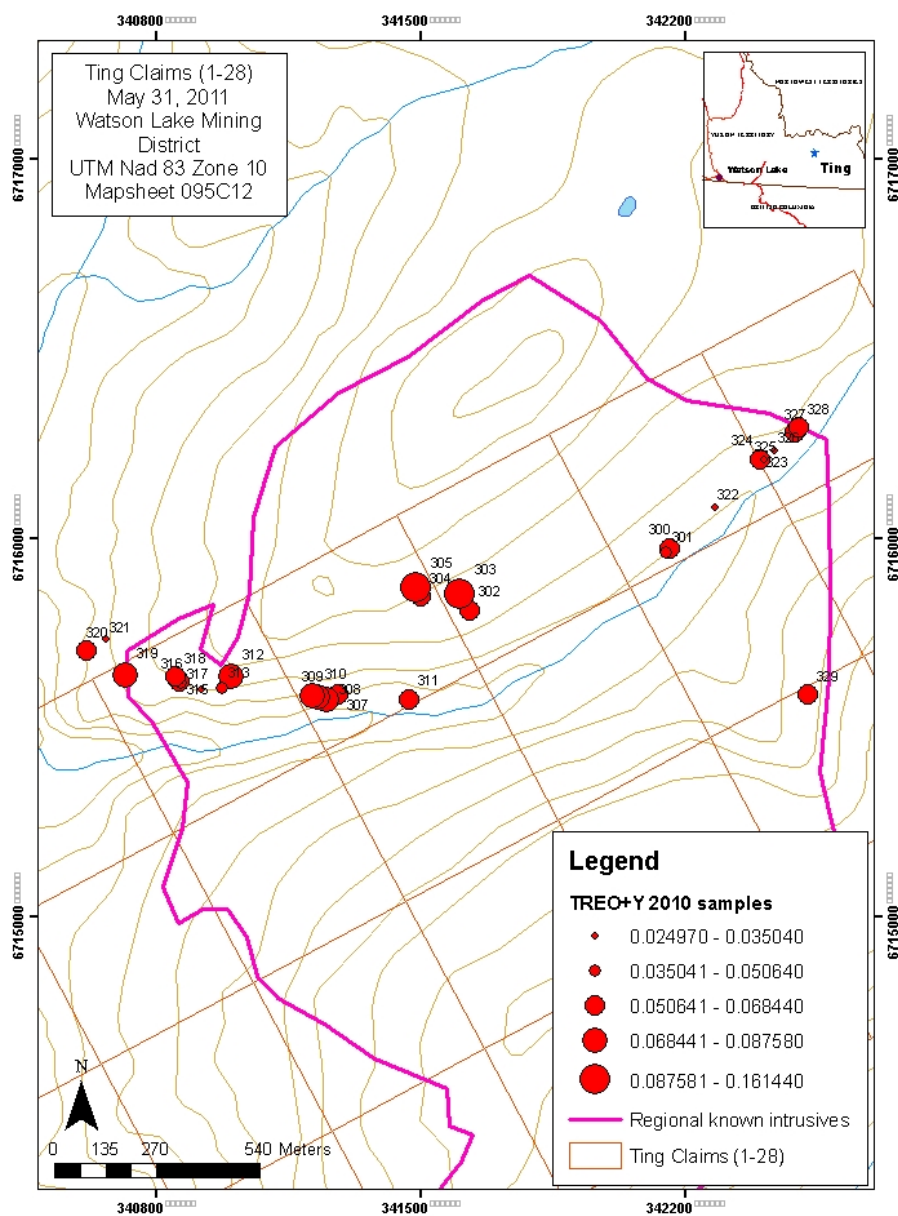
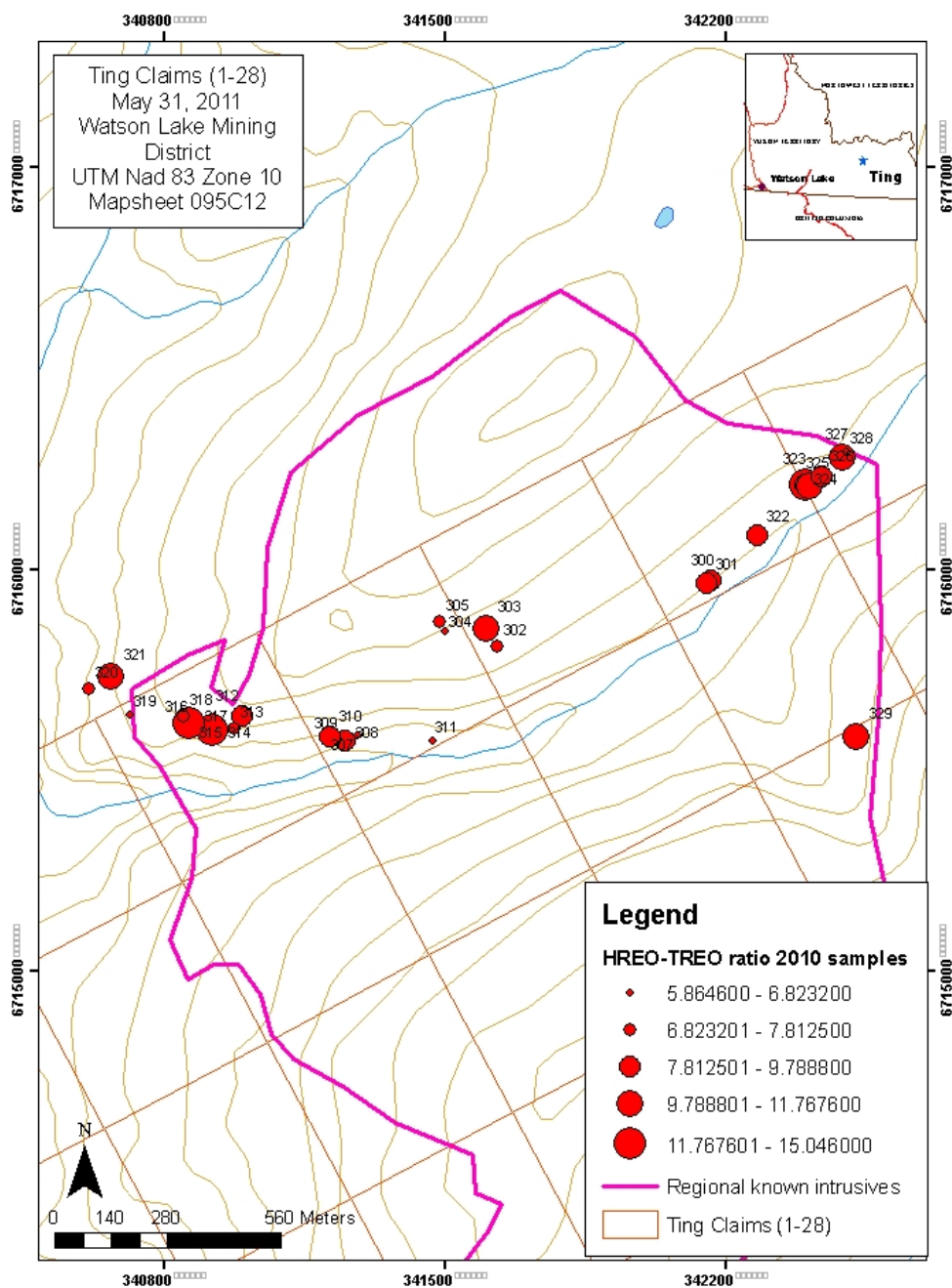


Fig. 14. HREO/TREO ratios for 2010 rock samples.

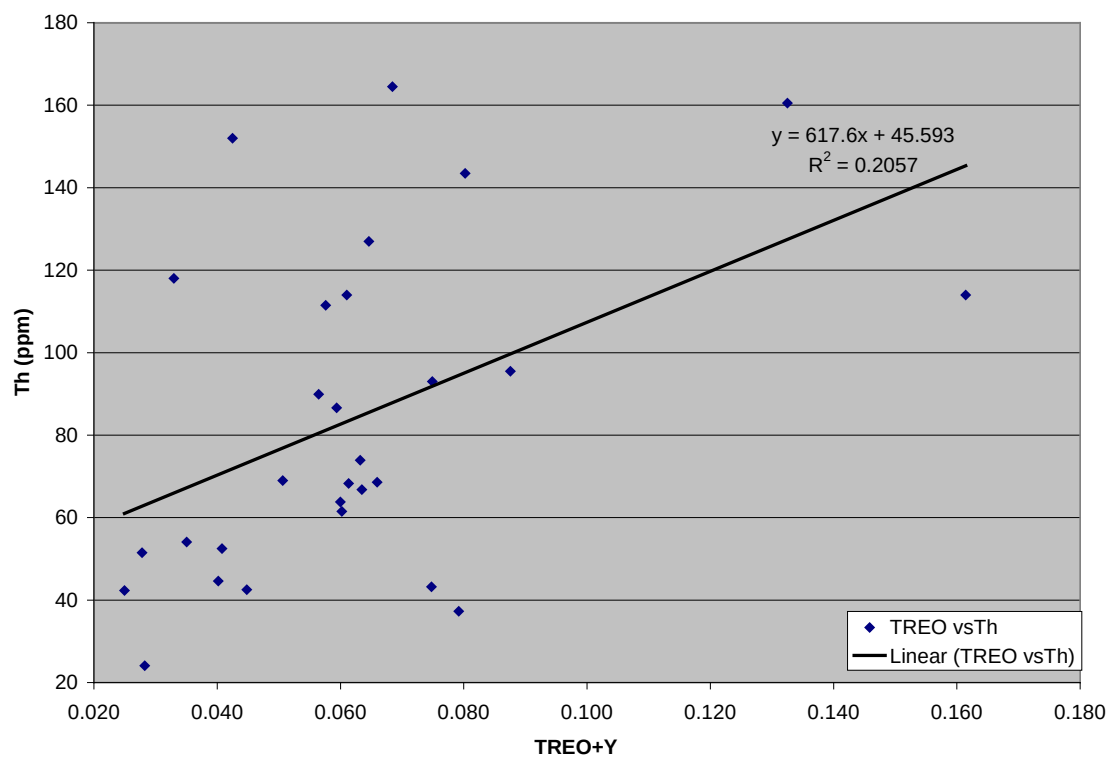


Zirconium (Zr) content of the rocks is slightly elevated, with values ranging up to 1,520 ppm but averaging 773 ppm. Uranium (U) contents are low, averaging 19 ppm and reaching 67 ppm. Thorium (Th) contents are also low, averaging 84 ppm and reaching 165 ppm. Zirconium, Th, and U do not show obvious correlations with TREE content or with HREO/TREO ratios, but more samples would be needed to confirm this (Fig. 15).

Barium (Ba) concentrations are quite variable and range from below detection limit (to 3 ppm) to well above detection limit (3,390 ppm), averaging 577 ppm. No obvious correlation exists between Ba and TREE content, as might be expected in some carbonatite related REE systems. However, this may be due to the geological variety of sampled material. Hafnium (Hf) concentrations correlate very well with Zr. This suggests that it is locked in with the main Zr mineral, zircon. Two samples were slightly elevated in Mo; 309 had 13 ppm while 317 had 24 ppm Mo.

Other possible economic metals such as Ag, Cu, Pb, Zn, Ni, Nb, Ta and W do not show appreciable concentrations. Trends seen in this dataset are preliminary as only a small sample suite of intrusive rocks were collected due to limited time and dense vegetation. Extensive sampling of all rock types, including host rocks, was recommended after the 2010 field season to better assess the strength and geochemical nature of mineralization at the Ting Property.

Fig. 15. Scatterplot of TREO+Y (%) vs Th (ppm) in rock samples.



7. Current Property Exploration (2011)

7.1 Groundwork conducted in 2011

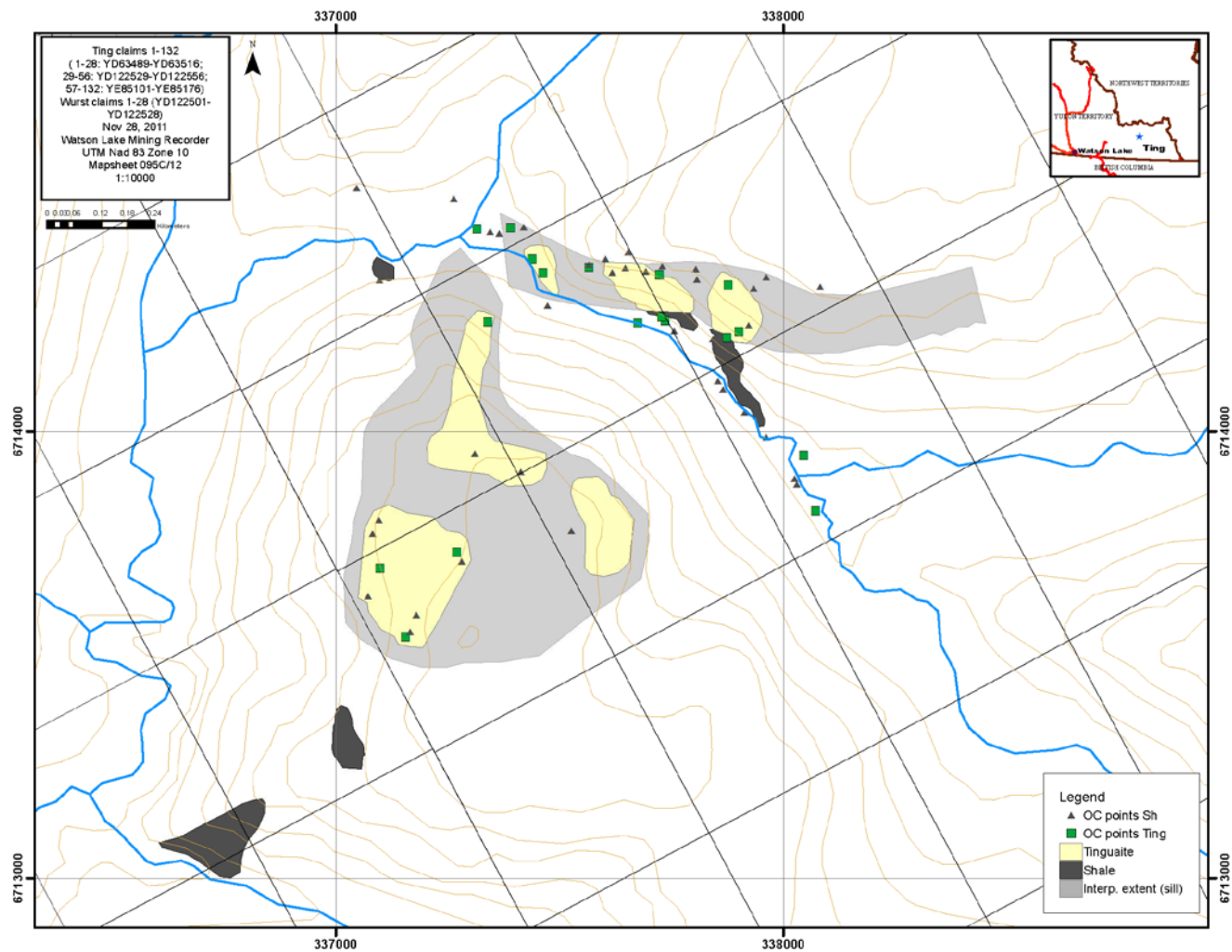
The Ting Project 2011 was designed to investigate the extent of REE mineralization in the Ting area and determine if more work, such as diamond drilling, is warranted. Sampling and scintillometer surveys accompanied mapping and prospecting. The camp was located at the top of the southern hill, cut out of the brush by chainsaw. It was a good site for satellite BGAN and phone reception and helicopter staging, but lacked water (jugs were filled in nearby creeks and transported back to camp). The bush is thick and difficult to make fast progress in; however, outcrop does exist in most areas. The camp was mobilized via the Smith River Airstrip, which is accessed by a gravel forest service road connecting to the Alaska Highway, approximately 30 km south of Coal River Lodge. This road had landslide and flooding problems during some severe storms at several points in the summer.

7.1.1 Prospecting and Mapping

Prospecting of the claim grouping was conducted over the course of the field program, while mapping focused on the west side of the claim block where a tinguaitite sill (a unit particularly enriched in apatitic minerals) was noted by Harrison in his 1982 thesis. A new expanded area of the tinguaitite sill (referred as the 'Bush Creek Tinguaitite Sheet' and never sampled or mapped accurately) was located at the western end of the claims, across the creek from the previously mapped sill. The sill itself appears to generally conform to stratigraphy and is approximately 100 metres thick; it is consistent in appearance and description to Harrison's description of tinguaitite, and is also consistent in texture and mineralogy throughout the unit. Abundant purple fluorite is found at contacts with siltstone and the sill; in these areas the siltstone is fractured and altered, and contains fluorite veinlets or fracture-infill.

Figure 17 shows the outcrop map of the new mapped area of the sill, at the west end of the full claim block, on the south hill of the main complex. This map shows the interpreted extent of the sill which is partially obscured at surface by vegetation. Definition of the sill margin was aided by positive response from the scintillometer in the field, which remained high after the outcrop was lost beneath the vegetation cover. The tinguaitite material at the sill registers up to 2800 cps (counts per second), with a background on the property of ~350-400 cps.

Fig. 16. Map of the west end of the claim group, showing tinguaitite (in yellow) and shale (in grey) outcrop (T = tinguaitite locations, S = shale locations).



7.1.2 Scintillometer Surveys

The scintillometer responds extremely well to the alkaline rocks at Ting, especially those hosting REE mineralization; therefore it is a useful tool in delineating targets on the property (Fig. 17 shows a scatter plot of Th vs TREO). The unit used for the 2011 ground surveys is a Bluetooth-gps linked RS-125 Super Gamma-ray Spectrometer with memory. This unit detects radiation by cps (counts per second), and discriminates between K (%), Th (ppm), and U (ppm).

The tinguait material at the sill registers up to 2800 cps (counts per second), and fairly clearly delineates the sill contacts both in outcrop and in areas with overburden and no outcrop. The background on the property is reasonably high at 350-400 cps, while most intrusive rocks at Ting are around 700-800 cps. Thorium contents in assay points using the scintillometer were between 300 and 400 ppm Th for the tinguait material (which showed the most extreme response of all units on the property for Th and U), and around 40 ppm U. The responsiveness of the interesting units to the scintillometers suggests that airborne radiometrics would be very useful on the Ting claims.

Figures 18 through 21 show the extent and results of the scintillometer surveys conducted on the Ting property in 2011. Anomalous zones in particular are seen where the surveys traversed alkaline rocks or the tinguait sill.

Additional infilling of the scintillometer grids is required in order to produce reliable contoured radiometric maps.

Fig. 17. Scatter plot showing moderately positive correlation of Th (ppm) with TREO (%) in 2011 assay data.

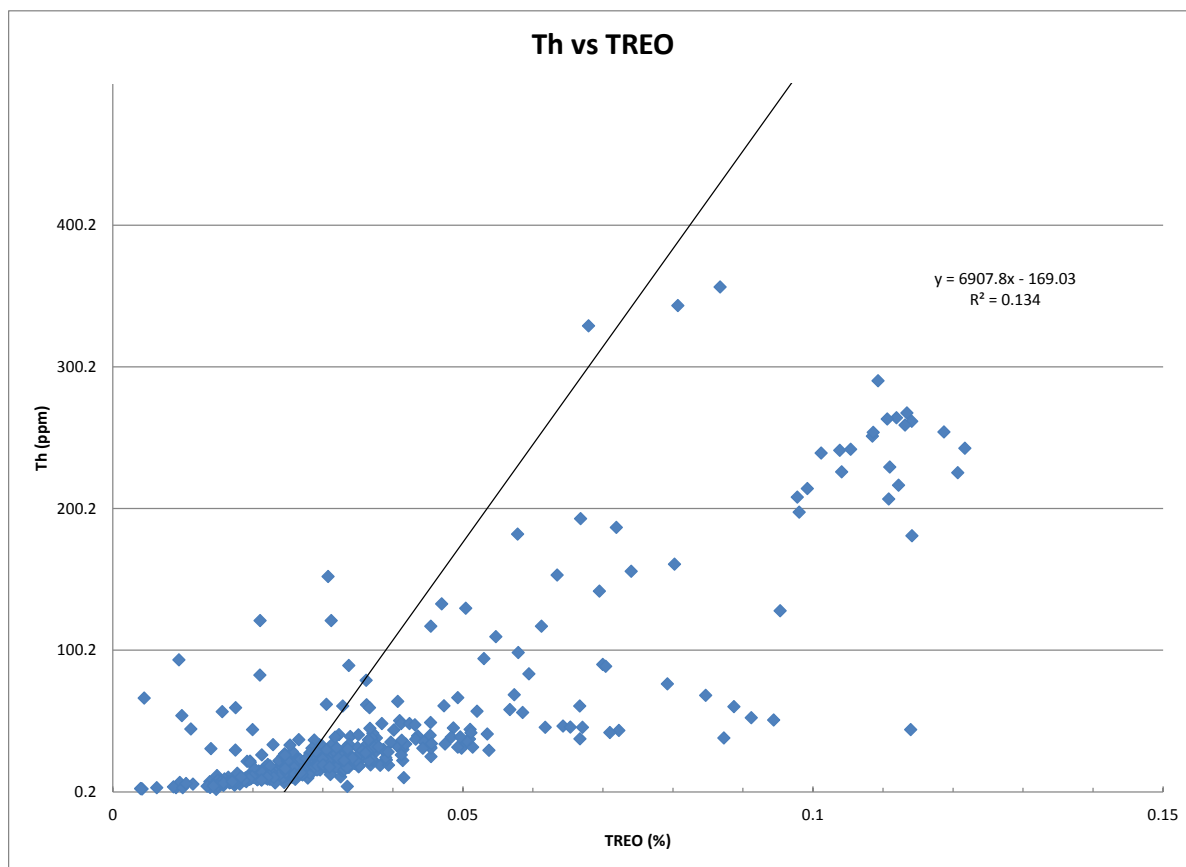


Fig. 18. Map of the Ting claims showing results (Response in cps, or counts per second) of the 2011 survey.

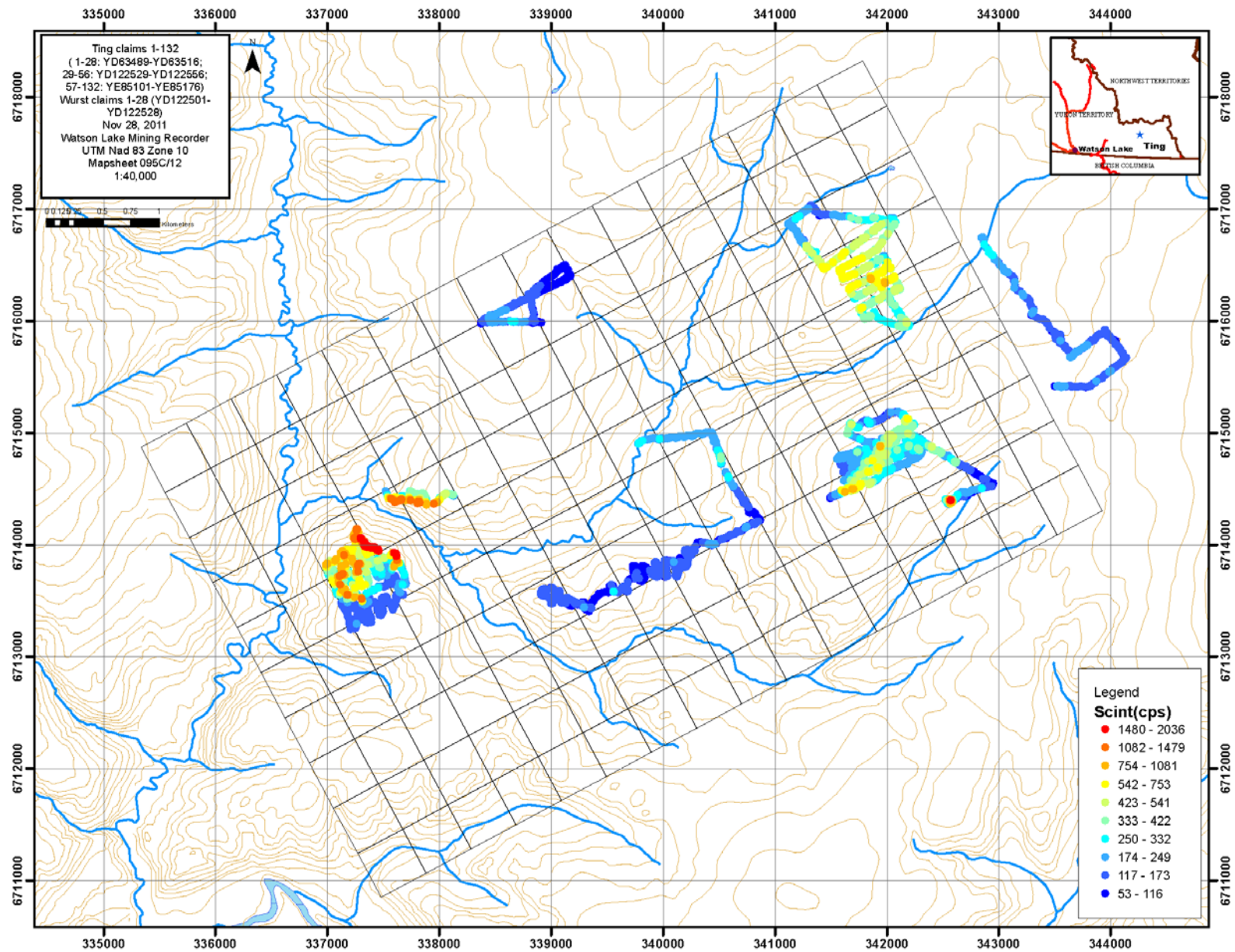


Fig. 19. Map of the Ting claims showing results (Response in ppm of U) of the 2011 survey.

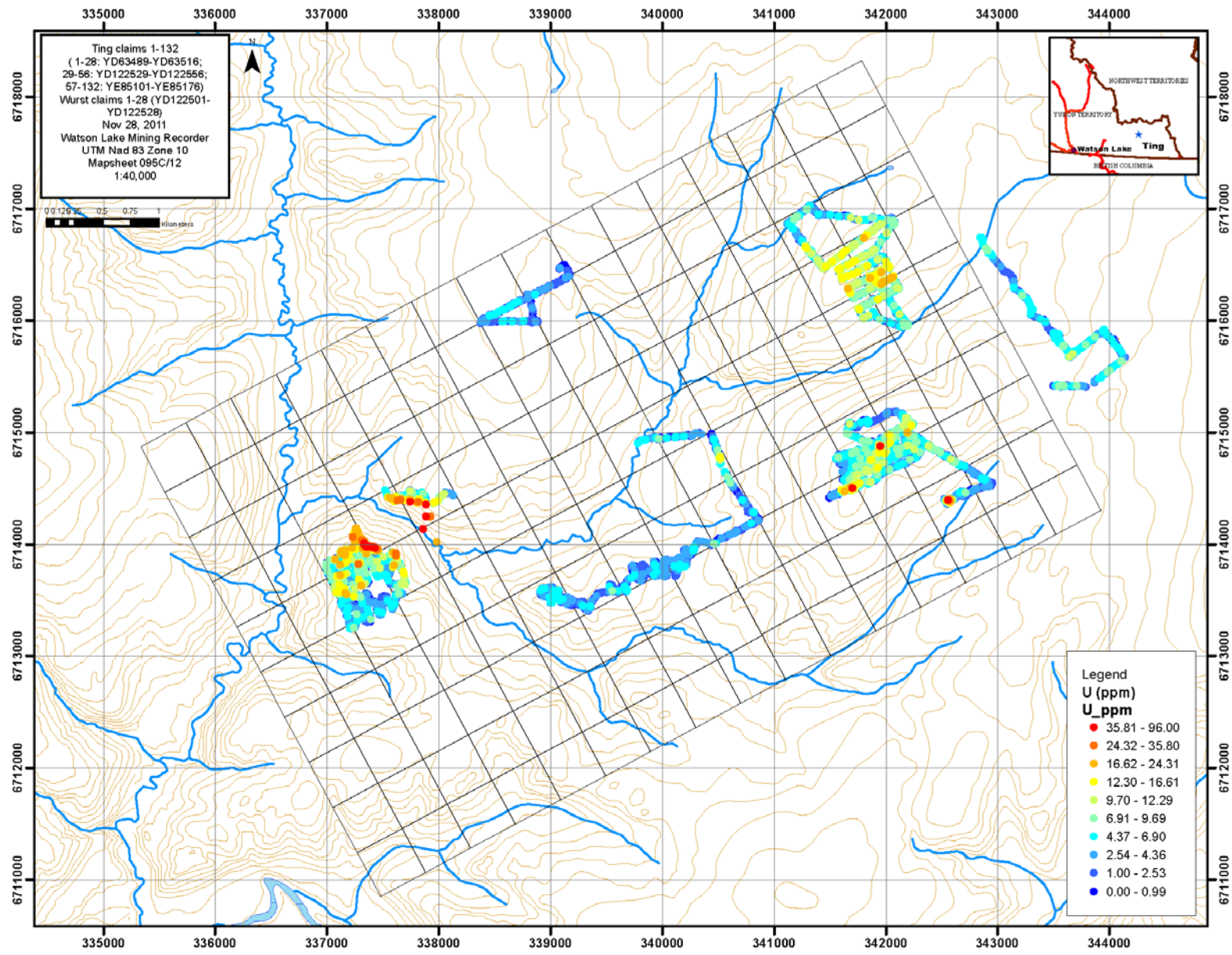


Fig. 20. Map of the Ting claims showing results (Response in ppm of Th) of the 2011 survey.

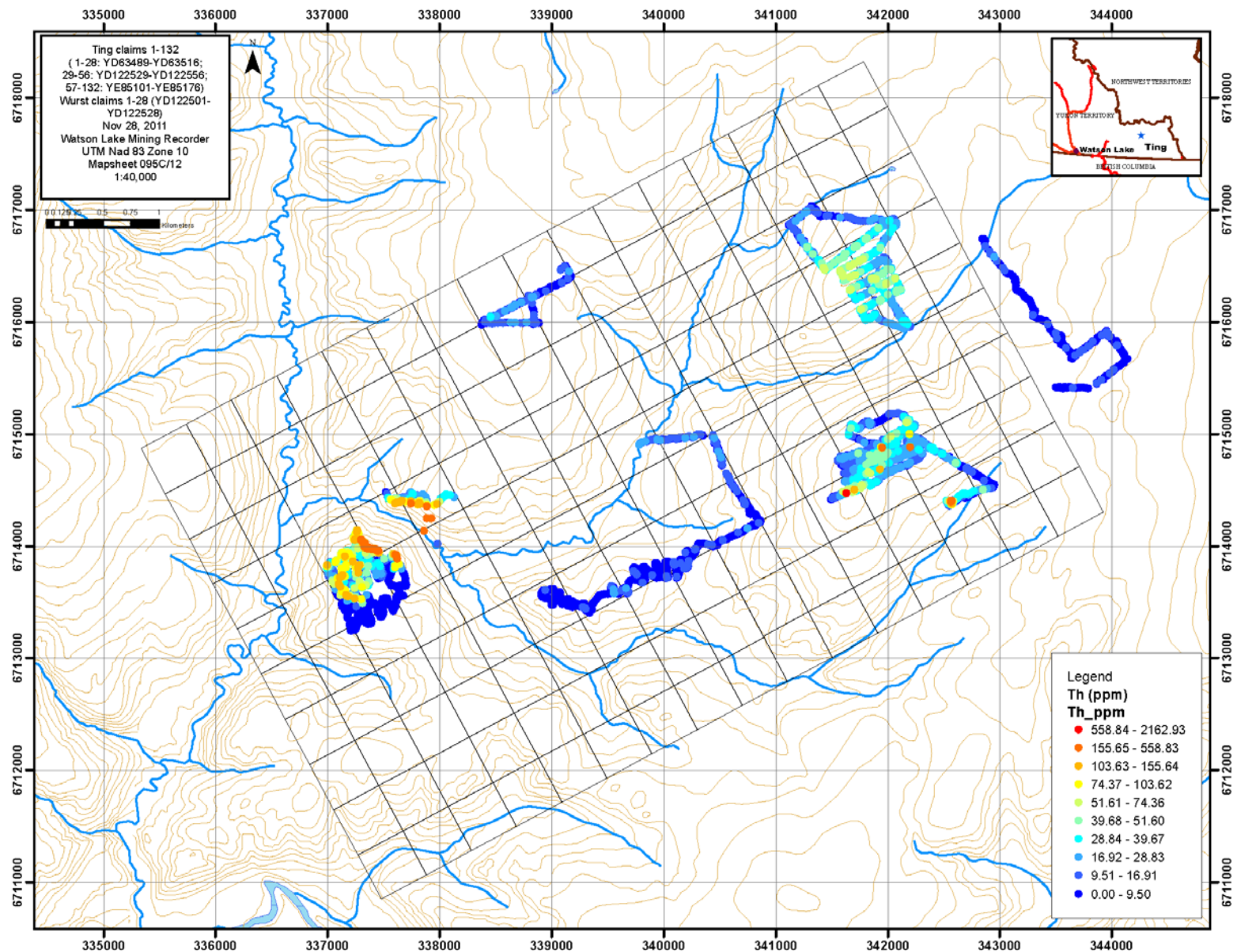
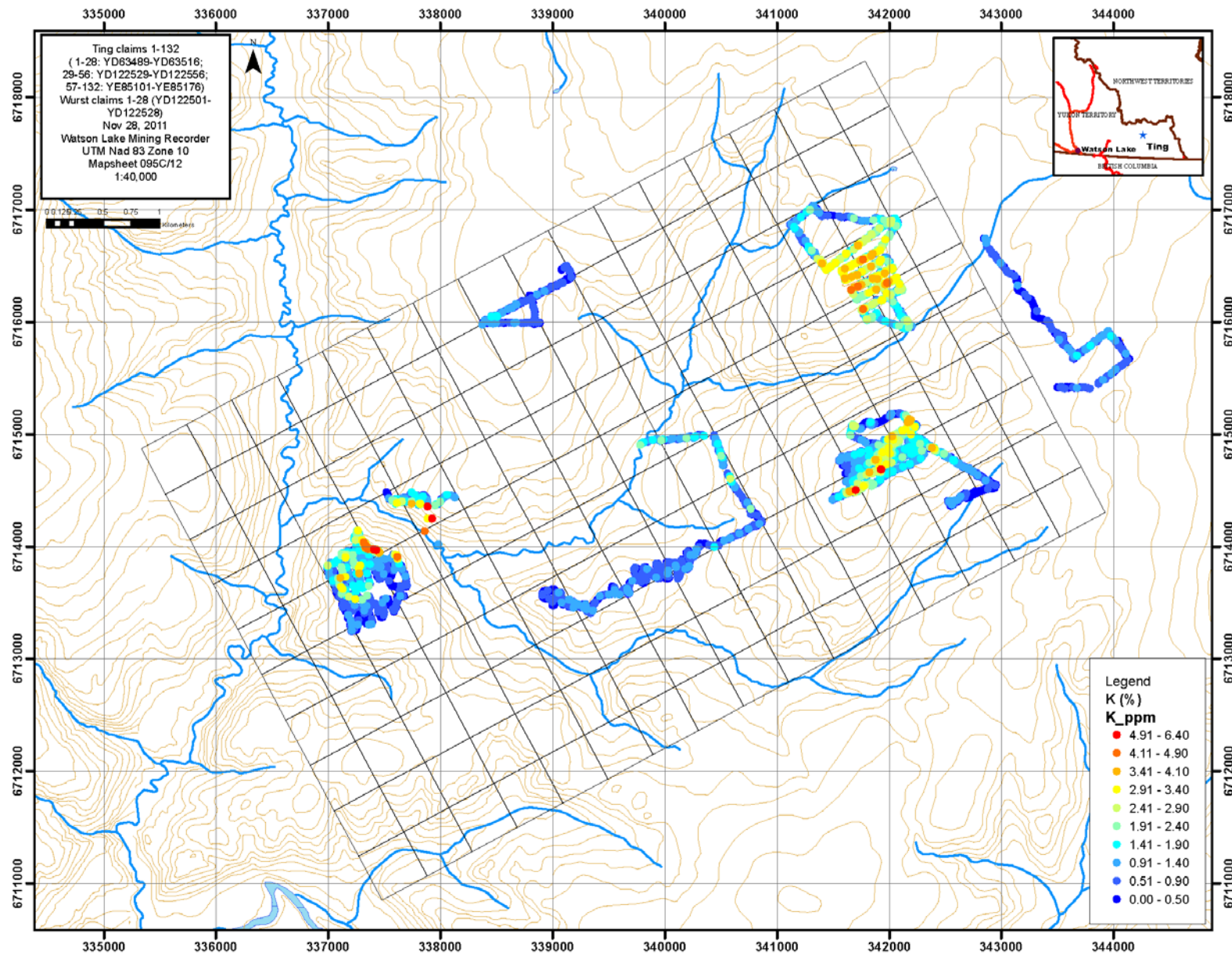


Fig. 21. Map of the Ting claims showing results (Response in percentage of K) of the 2011 survey.



7.1.3. Soil, Rock, and Silt samples

Sampling methods are described in each of the respective sample type sections.

Soil Samples

A variety of soil samples were taken based on zones of high prospectivity, as defined by magnetic and/or radiometric anomalies and zones of prospective geology mapped by Harrison (1982). Sampling was conducted both via grids as well as occasionally along contours or traverse lines, and was obtained via soil auger from the b-horizon (aiming for the lower b-horizon), which was typically between 15-60 cm deep. A total of 393 soil samples were submitted for geochemical analysis. The location details are given here whereas the discussion of the results is found later in the geochemistry section and full geochemical assays can be found in the appendix.

Figure 22 shows the sample locations. Table 6 lists sample locations with UTM coordinates.

Fig. 22. Map showing soil sample locations on the Ting property for 2011.

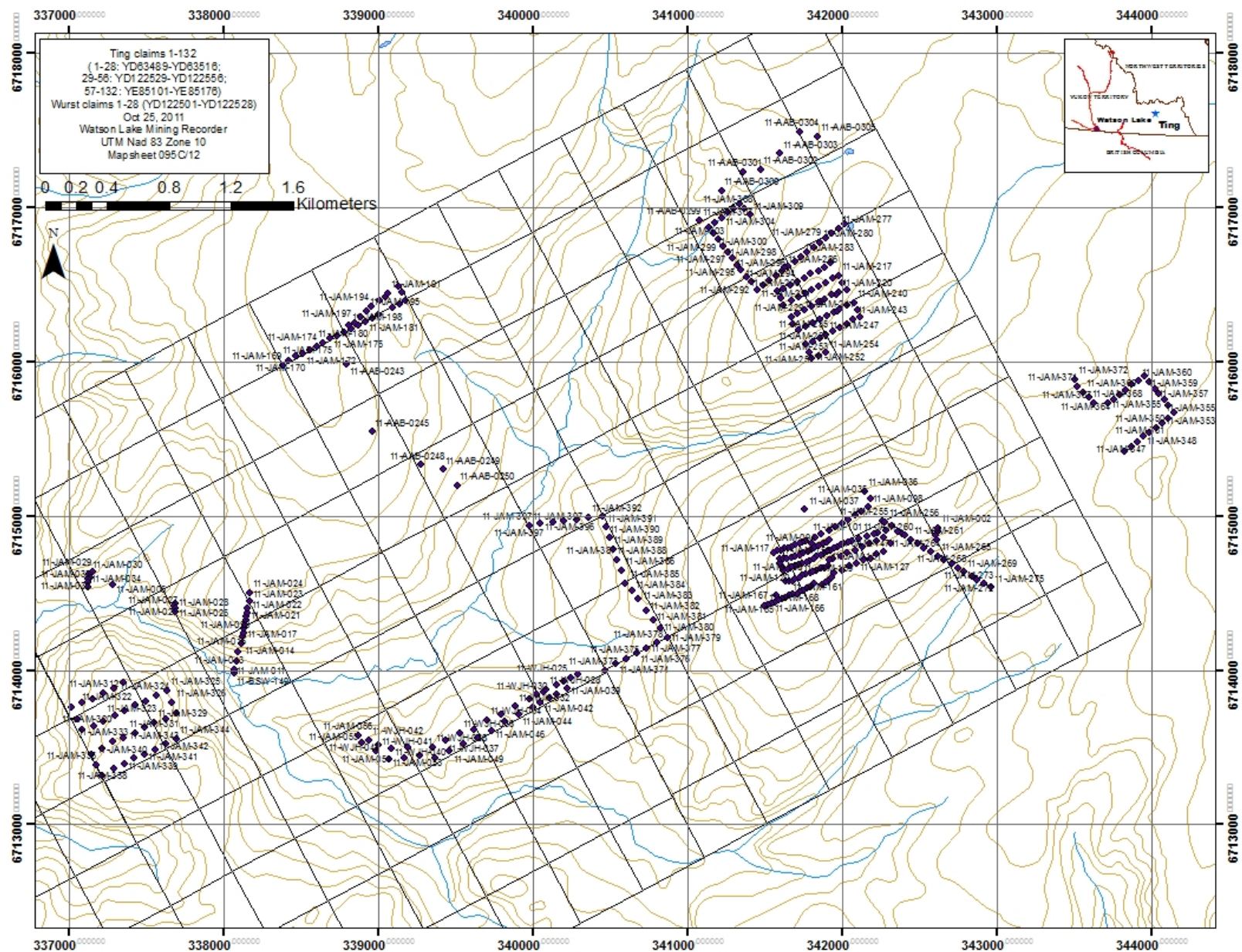


Table 6. Soil sample locations for the 2011 Ting property program (Zone 10, Nad 83).

SAMPLE	Easting	Northing	SAMPLE	Easting	Northing	SAMPLE	Easting	Northing	SAMPLE	Easting	Northing
11-BSW-149	338064	6713980	11-JAM-067	341942	6714791	11-JAM-114	341620	6714791	11-JAM-162	341630	6714474
11-JAM-001	342615	6714898	11-JAM-068	341920	6714779	11-JAM-115	341599	6714780	11-JAM-163	341605	6714465
11-JAM-002	342614	6714921	11-JAM-069	341899	6714770	11-JAM-116	341574	6714774	11-JAM-164	341584	6714456
11-JAM-003	342600	6714873	11-JAM-070	341873	6714755	11-JAM-117	341555	6714763	11-JAM-165	341558	6714444
11-JAM-004	342606	6714849	11-JAM-071	341856	6714745	11-JAM-118	341628	6714577	11-JAM-166	341534	6714433
11-JAM-006	337277	6714553	11-JAM-072	341828	6714741	11-JAM-119	341655	6714579	11-JAM-167	341511	6714427
11-JAM-011	338059	6714007	11-JAM-074	341785	6714711	11-JAM-120	341675	6714582	11-JAM-168	341495	6714415
11-JAM-012	338075	6714056	11-JAM-075	341765	6714698	11-JAM-121	341694	6714593	11-JAM-169	338377	6715979
11-JAM-013	338084	6714117	11-JAM-076	341738	6714695	11-JAM-122	342307	6714824	11-JAM-172	338504	6716054
11-JAM-014	338106	6714171	11-JAM-077	341711	6714684	11-JAM-123	342266	6714771	11-JAM-173	338549	6716078
11-JAM-015	338115	6714217	11-JAM-078	341690	6714677	11-JAM-124	342221	6714757	11-JAM-174	338596	6716102
11-JAM-016	338121	6714243	11-JAM-079	341669	6714670	11-JAM-125	342182	6714727	11-JAM-175	338638	6716124
11-JAM-017	338124	6714270	11-JAM-080	341641	6714656	11-JAM-126	342131	6714716	11-JAM-176	338680	6716150
11-JAM-018	338130	6714297	11-JAM-081	341615	6714647	11-JAM-127	342087	6714693	11-JAM-177	338727	6716170
11-JAM-019	338138	6714323	11-JAM-082	341606	6714671	11-JAM-128	342038	6714675	11-JAM-178	338771	6716191
11-JAM-020	338142	6714350	11-JAM-083	341589	6714696	11-JAM-129	341993	6714649	11-JAM-180	338864	6716234
11-JAM-021	338148	6714374	11-JAM-084	341588	6714720	11-JAM-130	341940	6714634	11-JAM-181	338907	6716259
11-JAM-022	338150	6714400	11-JAM-085	341614	6714723	11-JAM-131	341927	6714598	11-JAM-183	338995	6716307
11-JAM-023	338160	6714448	11-JAM-086	341640	6714724	11-JAM-132	341906	6714579	11-JAM-188	339170	6716397
11-JAM-024	338162	6714505	11-JAM-087	341667	6714734	11-JAM-133	341887	6714569	11-JAM-189	339148	6716447
11-JAM-025	337680	6714431	11-JAM-088	341692	6714740	11-JAM-134	341864	6714554	11-JAM-190	339123	6716489
11-JAM-026	337676	6714416	11-JAM-089	341720	6714748	11-JAM-136	341809	6714560	11-JAM-191	339055	6716444
11-JAM-027	337677	6714400	11-JAM-090	341747	6714758	11-JAM-137	341788	6714543	11-JAM-193	338999	6716394
11-JAM-028	337681	6714381	11-JAM-092	341796	6714781	11-JAM-138	341767	6714533	11-JAM-195	338920	6716327
11-JAM-029	337148	6714643	11-JAM-093	341821	6714797	11-JAM-139	341744	6714521	11-JAM-197	338840	6716253
11-JAM-030	337124	6714625	11-JAM-095	341870	6714821	11-JAM-140	341717	6714508	11-JAM-198	338801	6716233
11-JAM-031	337128	6714605	11-JAM-096	341894	6714834	11-JAM-141	341703	6714493	11-WJH-026	340194	6713931
11-JAM-032	337118	6714596	11-JAM-097	341915	6714846	11-JAM-156	341786	6714632	11-WJH-027	340150	6713905
11-JAM-033	337114	6714568	11-JAM-098	342167	6715058	11-JAM-170	338417	6716009	11-WJH-028	340078	6713877
11-JAM-034	337113	6714538	11-JAM-099	342121	6715029	11-JAM-171	338461	6716034	11-WJH-032	339878	6713767
11-JAM-041	340101	6713826	11-JAM-100	342079	6715006	11-JAM-179	338819	6716215	11-WJH-033	339786	6713714
11-JAM-051	339261	6713450	11-JAM-102	341995	6714955	11-JAM-182	338953	6716281	11-WJH-034	339697	6713678
11-JAM-054	338980	6713478	11-JAM-103	341950	6714929	11-JAM-185	339084	6716352	11-WJH-036	339521	6713592
11-JAM-055	338890	6713532	11-JAM-104	341910	6714904	11-JAM-186	339129	6716376	11-WJH-037	339426	6713544
11-JAM-057	342277	6714909	11-JAM-105	341857	6714883	11-JAM-192	339038	6716421	11-WJH-038	339349	6713505
11-JAM-058	342227	6714893	11-JAM-106	341820	6714861	11-JAM-194	338952	6716359	11-WJH-039	339184	6713504
11-JAM-059	342202	6714886	11-JAM-107	341794	6714821	11-JAM-196	338882	6716292	11-WJH-040	339082	6713495
11-JAM-060	342157	6714871	11-JAM-108	341762	6714840	11-WJH-025	340238	6713955	11-WJH-041	338994	6713514
11-JAM-061	342106	6714856	11-JAM-109	341739	6714834	11-WJH-029	340060	6713861	11-AAB-0299	341070	6716915
11-JAM-062	342057	6714840	11-JAM-110	341717	6714823	11-WJH-030	340014	6713844	11-AAB-0300	341213	6717106
11-JAM-063	342034	6714827	11-JAM-111	341691	6714816	11-WJH-031	339971	6713818	11-AAB-0301	341353	6717228
11-JAM-064	342007	6714826	11-JAM-112	341668	6714803	11-WJH-035	339612	6713619	11-AAB-0302	341469	6717244
11-JAM-066	341968	6714799	11-JAM-113	341643	6714796	11-WJH-042	338936	6713549	11-AAB-0303	341594	6717348
11-AAB-0198	341566	6714485	11-JAM-046	339726	6713611	11-JAM-145	342124	6714802	11-AAB-0304	341724	6717488
11-AAB-0243	338789	6715981	11-JAM-047	339639	6713562	11-JAM-146	342077	6714779	11-AAB-0305	341839	6717459
11-AAB-0245	338956	6715546	11-JAM-048	339546	6713521	11-JAM-147	342029	6714764	11-JAM-199	341919	6716639
11-AAB-0248	339272	6715331	11-JAM-049	339456	6713476	11-JAM-148	341986	6714741	11-JAM-200	341880	6716611
11-AAB-0249	339415	6715302	11-JAM-050	339362	6713431	11-JAM-149	341936	6714723	11-JAM-201	341840	6716586
11-AAB-0250	339503	6715196	11-JAM-052	339161	6713435	11-JAM-150	341913	6714717	11-JAM-202	341789	6716569
11-JAM-035	342177	6715114	11-JAM-053	339061	6713422	11-JAM-151	341905	6714679	11-JAM-203	341749	6716544
11-JAM-036	342143	6715159	11-JAM-056	338866	6713578	11-JAM-152	341880	6714666	11-JAM-204	341702	6716520
11-JAM-037	341755	6715042	11-JAM-065	341987	6714814	11-JAM-153	341857	6714660	11-JAM-205	341660	6716497
11-JAM-038	340285	6713973	11-JAM-073	341810	6714724	11-JAM-154	341829	6714651	11-JAM-206	341615	6716474
11-JAM-039	340217	6713884	11-JAM-091	341771	6714766	11-JAM-155	341807	6714640	11-JAM-207	341575	6716455
11-JAM-040	340146	6713848	11-JAM-094	341843	6714808	11-JAM-157	341761	6714621	11-JAM-208	341596	6716415
11-JAM-042	340037	6713792	11-JAM-101	342034	6714979	11-JAM-158	341739	6714614	11-JAM-209	341614	6716369
11-JAM-043	339993	6713764	11-JAM-142	342263	6714861	11-JAM-159	341717	6714603	11-JAM-210	341665	6716395
11-JAM-044	339904	6713717	11-JAM-143	342216	6714835	11-JAM-160	341674	6714491	11-JAM-211	341711	6716416
11-JAM-045	339815	6713669	11-JAM-144	342169	6714822	11-JAM-161	341650	6714484	11-JAM-212	341757	6716442

Table 6., continued. (Soil sample locations for the 2011 Ting property program)

SAMPLE	Easting	Northing	SAMPLE	Easting	Northing	SAMPLE	Easting	Northing
11-JAM-213	341796	6716466	11-JAM-273	342914	6714561	11-JAM-334	337204	6713491
11-JAM-214	341841	6716490	11-JAM-275	342956	6714539	11-JAM-335	337139	6713455
11-JAM-215	341888	6716510	11-JAM-276	342012	6716889	11-JAM-336	337166	6713387
11-JAM-216	341932	6716539	11-JAM-277	341970	6716863	11-JAM-337	337206	6713322
11-JAM-217	341972	6716560	11-JAM-278	341928	6716831	11-JAM-338	337280	6713366
11-JAM-218	341997	6716510	11-JAM-279	341885	6716803	11-JAM-339	337352	6713393
11-JAM-219	342027	6716467	11-JAM-280	341847	6716772	11-JAM-340	337412	6713430
11-JAM-220	341973	6716450	11-JAM-281	341810	6716741	11-JAM-341	337481	6713456
11-JAM-221	341958	6716431	11-JAM-282	341768	6716709	11-JAM-342	337549	6713490
11-JAM-222	341927	6716434	11-JAM-283	341731	6716681	11-JAM-343	337617	6713522
11-JAM-223	341884	6716402	11-JAM-284	341690	6716650	11-JAM-344	337687	6713554
11-JAM-224	341861	6716387	11-JAM-285	341648	6716620	11-LAG-012	339971	6714940
11-JAM-225	341840	6716385	11-JAM-286	341618	6716607	11-LAG-019	339971	6714940
11-JAM-226	341797	6716355	11-JAM-287	341606	6716584	11-WJH-043	338936	6713549
11-JAM-227	341750	6716335	11-JAM-288	341567	6716553	11-JAM-373	340461	6714000
11-JAM-228	341705	6716310	11-JAM-289	341524	6716525	11-JAM-374	340530	6714044
11-JAM-229	341666	6716290	11-JAM-290	341483	6716494	11-JAM-375	340598	6714075
11-JAM-230	341677	6716244	11-JAM-291	341444	6716465	11-JAM-376	340666	6714113
11-JAM-231	341713	6716204	11-JAM-292	341406	6716516	11-JAM-377	340731	6714144
11-JAM-232	341762	6716227	11-JAM-293	341379	6716552	11-JAM-378	340799	6714179
11-JAM-233	341802	6716249	11-JAM-294	341342	6716595	11-JAM-379	340863	6714212
11-JAM-234	341848	6716276	11-JAM-295	341314	6716629	11-JAM-380	340822	6714273
11-JAM-235	341893	6716296	11-JAM-296	341284	6716673	11-JAM-381	340771	6714330
11-JAM-236	341941	6716323	11-JAM-297	341255	6716711	11-JAM-382	340729	6714391
11-JAM-237	341962	6716327	11-JAM-298	341223	6716751	11-JAM-383	340678	6714461
11-JAM-238	341983	6716339	11-JAM-299	341195	6716791	11-JAM-384	340636	6714516
11-JAM-239	342026	6716365	11-JAM-300	341162	6716830	11-JAM-385	340594	6714563
11-JAM-240	342069	6716380	11-JAM-301	341130	6716868	11-JAM-386	340564	6714648
11-JAM-241	342093	6716332	11-JAM-303	341171	6716899	11-JAM-387	340538	6714717
11-JAM-242	342113	6716292	11-JAM-304	341215	6716934	11-JAM-388	340515	6714788
11-JAM-243	342068	6716273	11-JAM-305	341252	6716966	11-JAM-389	340491	6714860
11-JAM-244	342025	6716246	11-JAM-306	341291	6716990	11-JAM-390	340467	6714932
11-JAM-245	341978	6716223	11-JAM-307	341329	6717023	11-JAM-391	340448	6714999
11-JAM-246	341935	6716200	11-JAM-308	341363	6716993	11-JAM-392	340353	6714991
11-JAM-247	341891	6716178	11-JAM-309	341397	6716951	11-JAM-393	340275	6714977
11-JAM-248	341847	6716153	11-JAM-310	337346	6713921	11-JAM-394	340197	6714965
11-JAM-249	341801	6716130	11-JAM-311	337283	6713886	11-JAM-395	340121	6714959
11-JAM-250	341759	6716110	11-JAM-312	337214	6713854	11-JAM-396	340044	6714949
11-JAM-251	341781	6716063	11-JAM-313	337145	6713817	11-JAM-397	339971	6714940
11-JAM-252	341799	6716020	11-JAM-314	337076	6713790			
11-JAM-253	341842	6716039	11-JAM-315	337012	6713759			
11-JAM-254	341887	6716057	11-JAM-316	337043	6713687			
11-JAM-255	342252	6714967	11-JAM-317	337076	6713614			
11-JAM-256	342274	6714960	11-JAM-318	337151	6713642			
11-JAM-257	342318	6714934	11-JAM-319	337216	6713672			
11-JAM-258	342355	6714898	11-JAM-320	337291	6713706			
11-JAM-259	342386	6714885	11-JAM-321	337353	6713735			
11-JAM-260	342402	6714874	11-JAM-322	337423	6713774			
11-JAM-261	342439	6714845	11-JAM-323	337492	6713803			
11-JAM-262	342488	6714821	11-JAM-324	337561	6713837			
11-JAM-263	342523	6714794	11-JAM-325	337626	6713867			
11-JAM-264	342571	6714766	11-JAM-326	337661	6713791			
11-JAM-265	342612	6714741	11-JAM-327	337691	6713720			
11-JAM-266	342655	6714715	11-JAM-328	337617	6713688			
11-JAM-267	342703	6714694	11-JAM-329	337543	6713665			
11-JAM-268	342746	6714664	11-JAM-330	337482	6713630			
11-JAM-269	342782	6714636	11-JAM-331	337419	6713592			
11-JAM-271	342835	6714609	11-JAM-332	337343	6713559			
11-JAM-272	342866	6714583	11-JAM-333	337276	6713541			

Rock Samples

A variety of rock samples were taken based on geological affinity, radiometric response, and hand sample description/mineralogy. Samples originated largely from outcrops thought to coincide with original sample locations from Harrison's investigation (1982). A total of 87 rock samples (typically from at least fist-size, up to 15 kg) were submitted for geochemical analysis. The location details are given here whereas the discussion of the results is found later in the geochemistry section and full geochemical assays can be found in the appendix.

Several detailed samples (Top-1 through Top-4, Mid-1 through Mid-3, and Bottom-1 through Bottom-3) were taken from the 'complex radioactive dike' which is located at the same UTM as sample 11-MGB-270 (342582/6714396), and were sent to an alternative lab, ALS Chemex, for analysis (the programs used were MEMS-81 and ME-ICP-06). The results are therefore listed in a separate table. The dike is approximately 20 metres long in strike length and 1 m wide. It is subvertical, runs up a steep slope, and strikes east-west. Contacts with the country rock are irregular, and it can be mineralogically and texturally zoned and/or heterogeneous. The samples come from outcrop and associated talus, and are described as containing fluorite, feldspar (5-10 cm long K-feldspar crystals in the core zone), mica, epidote, and fine-grained pyroxene (especially at the contacts), amphibole and muscovite. Some core zones have a nepheline matrix (with alteration to a fine-grained orange natrolite called "spreustein"). Accessory minerals include black, pyrochlore-like grains, and fine-grained brownish aggregates (possibly altered wohlerite or catapleiite).

Spectrometer readings showed 15,000-16,000 cps, 0% K, 199 ppm U, and 2789 ppm Th, which are very anomalous even compared to REE-mineralized alkaline rocks of the main intrusive complex. The outcrop also appears to have some skarn alteration and contains pegmatitic feldspar crystals. Overall, the Al and K content for these rocks are lower than the rest of the main complex alkalic rocks. Fluorite-rich areas showed the highest values for Th on the spectrometer.

Figure 23 shows the sample locations. Table 7 lists sample locations with UTM coordinates. Table 8 lists summarized descriptions of the samples collected.

Table 7. Rock sample locations from the 2011 Ting property program (All detailed 'complex radioactive dike' samples were obtained from the same location as 11-MGB-270; zone 10, Nad 83).

SAMPLE	Easting	Northing	SAMPLE	Easting	Northing
11-AAB-0156	337414	6713970	11-MGB-203	342048	6714905
11-AAB-0157	337364	6713977	11-MGB-204	342003	6714858
11-AAB-0158	337333	6713996	11-MGB-205	341958	6714764
11-AAB-0159	337332	6713999	11-MGB-206	341949	6714757
11-AAB-0160	337134	6713907	11-MGB-207	341921	6714697
11-BSW-130	342357	6715042	11-MGB-208	341906	6714719
11-BSW-131	342428	6715102	11-MGB-209	341924	6714690
11-BSW-132	342766	6715080	11-MGB-210	341872	6714680
11-BSW-133	342774	6715087	11-MGB-212	341829	6714614
11-BSW-134	342774	6715087	11-MGB-213	341702	6714493
11-BSW-135	342667	6714808	11-AAB-0290	342012	6716812
11-BSW-136	342614	6714813	11-AAB-0291	341979	6716793
11-BSW-137	342622	6714894	11-AAB-0292	341907	6716760
11-BSW-138	342610	6714595	11-AAB-0293	341534	6716643
11-BSW-139	337329	6714481	11-AAB-0294	341491	6716636
11-BSW-140	337329	6714481	11-AAB-0295	341406	6716636
11-BSW-141	337404	6714482	11-AAB-0297	341109	6716874
11-BSW-142	337451	6714414	11-AAB-0298	341105	6716876
11-BSW-143	337476	6714386	11-MGB-258	341965	6716772
11-BSW-144	337355	6714272	11-MGB-259	341935	6716756
11-BSW-145	337693	6714274	11-MGB-260	341933	6716757
11-BSW-146	337740	6714286	11-MGB-262	341841	6716572
11-BSW-147	337751	6714277	11-MGB-263	341698	6716421
11-BSW-150	337892	6714244	11-MGB-264	341751	6716391
11-BSW-151	337918	6714254	11-MGB-266	342274	6714882
11-BSW-152	337891	6714358	11-MGB-267	342419	6714341
11-BSW-153	337738	6714380	11-MGB-268	342584	6714383
11-BSW-154	337579	6714405	11-MGB-269	342583	6714392
11-BSW-155	337581	6714394	11-MGB-270	342582	6714396
11-BSW-169	337287	6713762	11-AAB-0234	340752	6715405
11-BSW-170	337175	6713571	11-AAB-0235	340775	6715384
11-BSW-171	337115	6713725	11-AAB-0236	340948	6715369
11-AAB-0161	342144	6715140	11-AAB-0237	341038	6715319
11-AAB-0193	341878	6714754	11-AAB-0238	341353	6715518
11-AAB-0194	341877	6714755	11-AAB-0240	338843	6715968
11-AAB-0195	341654	6714530	11-AAB-0241	338824	6715972
11-AAB-0196	341654	6714529	11-AAB-0242	338754	6715995
11-AAB-0197	341654	6714528	11-AAB-0244	338940	6715987
11-AAB-0199	341630	6714539	11-AAB-0246	339005	6715392
11-AAB-0231	340731	6715396	11-AAB-0247	338997	6715391
11-AAB-0232	340749	6715400	11-AAB-0251	339503	6715196
11-AAB-0233	340752	6715404	11-MGB-175	342182	6715109
11-MGB-178	341947	6714876	11-MGB-176	342153	6715160
11-MGB-181	339560	6713581			

Table 8. Rock sample descriptions from the 2011 Ting property program.

SAMPLE	Comments
11-AAB-0156	vesicular, degassing version of tinguaitite 'sill' (?) in subcrop/rotated at top of talus. Crystalline; grey. Pheno's have a foliation or flow; further down, talus lacks vesicles, but looks the same as main sill on close side of creek. (so is this a continuation of lower level sill? or is it drainage or fault?) slight differences in texture (pheno's are similar to down below - pink ksp?) Scinting 1700-1900 cps. took mineralogy sample for sectioning.
11-AAB-0157	Tinguaitite OC: no vesicles, lighter colour grey; white altered pheno's w/ planar orientations. Looks a lot like what's across the main sill says Brad. Assay point #4001: 3.9% K, 31.2 ppm U, 251.7 ppm Th (cps1950)took mineralogy sample for sectioning.
11-AAB-0158	Tinguaitite outcrop; vug (of possible strontianite; fine, beige, radiating masses of needles, about 3 mm long) in tinguaitite. Vug is 1 cm wide, 5 cm long. These outcrops have variable textures and mineralogy (especially w/ respect to eudialyte. took mineralogy sample for sectioning. Scinting 1800-2000 cps.
11-AAB-0159	Tinguaitite; eudialyte-bearing (glassy masses/interstitial orange-red grains), variable-texture, otherwise similar to other tinguaitite. took mineralogy sample for sectioning. 2300 cps
11-AAB-0160	Tinguaitite. less pheno's but bigger. Small green-black flecks (pyx?) 1400-1700 cps
11-BSW-130	o/c ? very angular and most likely o/c. Grey, coarse grained, equigranular, plag ~ 50% + px + ? , Syenite
11-BSW-131	o/c ? large pokey up boulder/frost heave – likely o/c. Tinguaitite? Aphanitic – fn grd, med greenish grey matrix with phenos? Irregular white phenos-plag?, altered plag? + needles of amphibole (<1%).
11-BSW-132	Ls and silty Ls with lots of micro calcite veining to 5 mm thick.
11-BSW-133	o/c somewhat frost heaved. Md-dk greenish grey fn grd – aphanitic matrix with irregular and subhedral phenos, plag and amphiboles (rare) and possibly others. Tinguaitite? Exposure ~ 2 m. Same locality as 11-BSW-134.
11-BSW-134	o/c with some frost heave. Grey weathering and fresh surface. Fn grd igneous rk with lighter coloured phenos ?? FRDK. Exposure about 2 m wide.
11-BSW-135	Float, but too interesting to ignore. Dk brown black weathering, heterogeneous green brown on fresh surface. Green appears to be fn grd chlorite (?) alteration. Rest is fn grd to med grd mix with plag and amphibole and others. Real FRDK to altered FRDK.
11-BSW-136	Angular float, possibly frost heaved o/c. Overall slightly calcareous, lt grey Ls breccias? Matrix of fn grd slightly greenish and honey brown siliceous material with very minor amounts of fluorite.
11-BSW-137	numerous angular boulders over 4 m area – probably frost heave o/c. Grey and grey-brown weathering, med greenish grey on fresh. Fine grd to aphanitic matrix (possibly with very slightly foliation) and minor phenocrysts of plag (to 5 mm) and mafic mineral (acicular amphibole?). Tinguaitite? Soil line taken that runs N-S and sample 11-JAM-001 is almost on top of o/c.
11-BSW-138	o/c and broken o/c. Ls and silty Ls with lots of carbonate veining. Minor sphalerite (?) and a green mineral (probably not malachite).
11-BSW-139	Rock. o/c fine grain siltstone. Dk grey on fresh surface, very rusty weathering. Finely laminated, very fractured with lots of micro-veinlets, some of which may contain fluorite (?).
11-BSW-140	Rock. o/c Tinguaitite (?). Mossy o/c next to and above last sample by 4 m. Siltstone 5 m above this. This o/c is dk greenish grey, fn grd, aphanitic matrix with plag (?) and dark phenos. Probably narrow sill or dyke cutting siltstone.

Table 8., cont. (Rock sample descriptions)

SAMPLE	Comments
11-BSW-141	o/c small cliff ~ 8 m high and 6 m wide. All massive Tinguaitite (?). Sample taken, same as others.
11-BSW-142	o/c cliff above talus ~ 10 m high by 15 m wide. Appears similar to tinguaitite from before, but the matrix appears courser ~ 0.5 to 1 mm. Phenos (5-6 mm) similar, feldspar (plag ?) and smaller black needles. Sample taken from 3 widely spaced locations on cliff. Low, high upstream and high downstream. Large reference sample taken too.
11-BSW-143	o/c cliff at least 30 m high and 30 m wide. SOS. Greenish grey to grey weathering and fresh surface. Fn to very fine grained matrix with 5-8 % phenos (5-10 mm) of white feldspar and many tiny black amphibole xls, probably a coarse grained version of tinguaitite from the beginning of the day. (possibly, but less likely, a different phase – if so, then this could be a fn grd syenite).
11-BSW-145	Base of cliff (just below 11-BSW-145), Black, finely laminated slate/siltstone with bedding at 080/20 N (measured about 5 m below contact). VERY BEAUTIFUL OUT CROP!! Black slate is fairly undisturbed to within 2 m of contact. In a zone ~2 m below the intrusive the slate is broken up, sheared, slightly folded and “baked” at contact. In places little veins and swells to 2 cm. Intrusive contact has fairly straight contact, roughly parallel to bedding but with small 10-30 cm sized undulations of the contact. 11-BSW-145 – Tinguaitite ~30 cm from the contact. Finer grained than many of the previous samples. Very crude attempt to measure the contact gave 080/15 N – almost identical to the bedding in slate.
11-BSW-146	o/c at base of cliff. Purple mineral in micro-fractures and veinlets, probably fluorite in black slate. ~30 – 50 cm from the lower contact of the Tinguaitite.
11-BSW-147	o/c fluorite (?) bearing veins in black slate 20 cm below contact with tinguaitite.
11-BSW-150	o/c tinguaitite. 2400 cps, 3.4 % K, 48.1 ppm U, 309.2 ppm Th (assay # 3037). ~ 30 m + above lower contact.
11-BSW-151	o/c top of steep cliff section. 5.8 % K, 35 ppm U, 308.5 ppm Th (assay # 3038), 2400 cps. Tinguaitite (?) on weathered surface this rock looks the same as below but with fewer phenos and a little courser grained, but on fresh surface, the grain size increase is noticeable and it looks like perhaps a fn-grd syenite? Although it's likely still the tinguaitite! 10 V 337918 6714254, el 825. Roughly 60 m above the lower contact and perhaps more.
11-BSW-152	o/c in woods – tinguaitite (typical). 5.8 % K, 42.7 ppm U, 288.6 ppm Th (assay # 3059), ~2100 cps.
11-BSW-153	o/c and frost heaved o/c in forest. 4.1 % K, 39.5 ppm U, 262.4 ppm Th, (assay # 3112), 2100 cps. Tinguaitite – SOS.
11-BSW-154	o/c tinguaitite just below upper contact with siltstone. 4.4 % K, 32.8 ppm U, 205 ppm Th, (assay # 3157), 1900 cps.
11-BSW-155	o/c small o/c and small area of black siltstone as indicated by low scint readings. Black fn-grd, very brittle and fractured, like material immediately below contact (this has to be within 5 m of contact). 1.4 % K, 12.3 ppm U, 24.9 ppm Th (assay # 3158), 500 cps.
11-BSW-169	area of talus near top of hill with convincing frost heave o/c at top. Tinguaitite (?) similar to other area north of creek. Sample has ~ ½-1% tiny 2-3 mm vugs. 10 V 337287 6713762.
11-BSW-170	Subcrop in trees. Tinguaitite with 2-3 cm felsic xenoliths. 10 V 337175 6713571.
11-BSW-171	o/c – small bluff in forest. Tinguaitite – VERY WET! 10 V 337115 6713725.

Table 8., cont. (Rock sample descriptions)

SAMPLE	Comments
11-AAB-0161	closer to contact than 11-MGB-177? Calc-silicate. More silicified, less brecciated. Pale pink-light grey green, mottled, cherty-looking possible RR semi-conchoidal fracture; dense. Vfgr.
11-AAB-0193	High-scinting coarse-grained OC zone. Scints 700-800 and local (SV?) zones up to 1400 cps. White and black felted intrusive (AANS) main unit (sampled as -0194). This zone is pegmatitic, planar, more leucocratic, w/ possible black (up to 1 cm) laths (striated along c-axis) riebeckite growing perpendicular to planar leucocratic zone. Purple fluorite, pink (euhedral-subehedral) spinel, possible lemon-yellow eucolite and orange eudialyte, blue-black aegirine, and other black mafic minerals.
11-AAB-0194	White and black felted intrusive (AANS) main unit; definitely has a white, interlocking felted texture of foids and feldpars (rep sample of both at contact) 700-800 cps
11-AAB-0195	Part of possible seg vein OC - this is main unit. Looks like some form of syenite with crosscutting seg veins; tried to get a bit of both. (tough - rounded OC). Seg veins are exactly like those in CH's thesis plates. Lines of aegirine finer-grained masses, and larger zones of bigger xstals (up to 5 mm across; green - bigger aegirine or riebeckite. Need to wash off outcrop to see more. Physical notes have a sketch. veins are between 2 and 5 cm wide, at random orientations, and don't crosscut the xenolith. (Increased mafic zones, possible minor chill margins and pegmatite zones.) Hard to ID min's. Good place for channel sample!
11-AAB-0196	OC-is this fenitized syenite or tinguaite? Same colour as Tinguaite but more coarse-grained, bigger likely foid pheno's (pale grey). Little black laths - aegirine? Possible vugs could be weathering but looks hydrothermally alt'd (i.e., fluorite on fracture surfaces). Very green. Some pyrrhotite and possible rare-minor eucolite (yellow) and eudialyte (orange). Assay# 4478 900 cps. 87ppmTh, 16ppmU, 4.8%K
11-AAB-0197	xenolith in OC from -0196/-0195; high scint (about 40 cm by 60 cm.) 1400 cps. Assay point on xenolith: #4477; 3.3%K, 20ppmU, 130ppmTh. Is it foyaite? The bits I chipped off are difficult to ID due to weathering. I highly suggest channel sampling this sucker.
11-AAB-0199	subcrop/OC - bleached marble/calc-silicate. It's where the map says marble and skarn occur; not much outcrop and super thick bush means you have to walk right over rock to find it. Big boulders. Looks boring; fine-grained, pale grey-white or light green/pink. 550-670 cps.
11-AAB-0231	OC- talus (just above). Foyaite - Almost entirely composed of foids (white, glassy, grey) and aegirine/ riebeckite (black short stubby laths) which have an occasional planar flow (fairly consistent when present), shared by minor, homogenously distributed elongate grains of glassy, yellow-orange eucoilte-eudialyte (possible rare aenigmatite - red). Sometimes biotite. Scints 1400-1900 cps (variable). Occasional rusty weathering. Homogenous, medium-grained. Assay # 4489, U-36ppm, Th-182ppm, K-6.9%.
11-AAB-0232	OC-talus peeling off from just above. Cgr white chunky foids/fsp xstals with big black aegirines (pegmatitic zones) up to 2 cm long. Assay #4490; 144UTh/33U/6.1%K. 1400-1600 cps.
11-AAB-0233	As above (OC-talus). Nepheline syenite of some kind (sphene-poor?) grey, porphyritic (foid pheno's). Biotite, aegirine/augite, dense; crosscut by and cross-cutting white foyaite. Contains xeno's of RR. Assay #4491 116Th/37U/5.8%K; 1500-1600 cps.
11-AAB-0234	Skarn/CS (green, bleached on fractures, fgr). Xcut and in contact with WF and NS. 1200-1300 cps.

Table 8., cont. (Rock sample descriptions)

SAMPLE	Comments
11-AAB-0235	OC- syenite: -alkaline'? Slightly altered or just weathered - different than nepheline syenite; AS? 2200 cps.
11-AAB-0236	OC- syenite: 'quartz-alkaline'? 1400 cps. Assay #4492; 4.1%K/ 26U/ 95Th. Dense. Xcut by white foyaite. Mgr-fgr grey glassy qtz and foids.
11-AAB-0237	OC-felsenmeer in place. Eudialyte-ich (eucolite) foyaite. Elongate orange prisms up to 1 cm long, sub-mm wide, Assay#4493 8.9 K%/ 25 U/ 186 Th. Scints 1800-1900 cps.
11-AAB-0238	OC-big talus slope with OC at top. Mostly all homogenous syenite; lots of foids, can be cgr but mostly mgr. Aeg, biot, neph; less mafics. Scints 1000 cps. Leucocratic. Type?
11-AAB-0240	OC - rusty SS - fgr-ngr; magnetic? (hem/mag?) limonite interstitially between recrystallized qtz. Sourcing the spring below or is the contact with possible intrusive sills/tinguaite helping? Hornfels? 60-70 cps, still no K, Th or U. Some dissolution/volume loss leading to open spaces/pores/vugs. Limonite = alt'd fsp?
11-AAB-0241	same as above (OC) but with fracture surface/vein material - ferricrete or hematite? Sinewy, ropy precipitations. Looks like mag/hem.
11-AAB-0242	(OC) felsenmeer-subcrop. Altered alkaline intrusive? or volcanic? ('AIV') Same look as tinguaite but grey, not green. Lots of ksp, occasional foid/fsp beige phenos (laths) - mgr; homogenous, biot and some augite? Nepheline. Rusty on crust. Some minor qtz. Fizzes on fractures - so some carbonate content. Assay# 4494; 2.4%K, 13 ppm U/ 97 ppm Th. Scints 700-800 cps. Possibly a bit of HF'd - waxy lustre.
11-AAB-0244	sinter from gossan. Ferricrete material - recemented Fe-cement of SS and shale fragments. 50-100 cps.
11-AAB-0246	subcrop - felsenmeer (too much to be float). Beside SS OC - leaves a trail uphill (recessively weathering?) AIV - or tinguaite. Scints 900-1100 cps. The colour is off, (grey-pink) but pale beige lath pheno's in fgr (volcanic?) matrix is approaching tinguaite. Some open space/ porous interstitial. Ksp/foids are homogenously distributed. But matrix isn't quite as fgr. (Possibly a less fenetized version? or more so?) Or it is possibly a different phase altogether. Can't quite see a pattern to subcrop (orientation) . Need radiometric survey. Assay # 4495; U 15/ Th 195/ 3%K.
11-AAB-0247	OC. Quartz sandstone. Rusty on fractures/surface. Mgr-fgr, dense, resistant, some interstitial limonite (alt'd fsp/pyr?) recrystallized? HF? 100-150 cps.
11-AAB-0251	subcrop - lots, see above note (-0250). AIV. Possible tinguaite. TRENCH HERE? 900-1000cps.
11-MGB-175	rock O/C bluffs assay # 4336, K 4.6, U 8.8, Th 60, alkali syenite porphyry. Sample for assay and reference
11-MGB-176	outcrop, Road River breccia cut by felsic veins w/ chlorite alteration syenite along cracks. Assay 3.4%K, 10.4 U, 9.3Th adjacent to silicified sample of RR (aab-161) assay 4337
11-MGB-178	tinguaite on ridge top W of camp. Fond w/ scint. Assay # 4339, K% 2.0, U% 47.9, Th ppm 203
11-MGB-181	high scint counts, 750cps, 70-75ppm th, 15ppm u, 3%K, taken from small pit dug in the ground over anomalous scint zone. Red orange weathering rx, very rusty. All fragments in soil, not from outcrop.
11-MGB-203	poly lithic breccia, fresh, friable with lots of road river clasts and sunblood. Angular fragments, <3cm, syenite and other phases have small alteration rim & are heavily weathered
11-MGB-204	rock, float, local. Net textured k feldspar w/ purple fluorite, long black striated (agerine) foyaite, k spar is altered. Assay 5.2%K, 19.4ppm U, 65ppm Th. #4481

Table 8., cont. (Rock sample descriptions)

SAMPLE	Comments
11-MGB-205	outcrop. Equigranular nepheline syenite. Minor sulphides (very small) and disseminated. Assay 5.6%K, 8ppm U, 34ppm Th # 4483 810cps
11-MGB-206	local float white syenite, heavily altered to clay and rusty replacement of mafics. Assay 6.8%K, 8ppm U, 58ppm th, 700cps assay# 4483
11-MGB-207	float from bluff exposure of foyaite, rock sampled is float chunk, not outcrop. It had +5000 cps, assay 2.9% K, 84.7ppm U, 1092ppm Th, assay 4484, small fist sized sample black and shiny xstals n center, keep half for min work!
11-MGB-208	outcrop, small veins of hematite w/ good scint count response to the alteration zone (fine grained and white) adjacent to vein
11-MGB-209	sub/outcrop of syenite bluff, assay 6.4%K, 12ppm U, 106.3ppm th, altered assay # 4485
11-MGB-210	outcrop of collapse breccia/ tuffaceous orange yellow weathering, white grey w/ 3mm pyrite cubes possibly arsenopyrite also. Altered, country rock clasts are rusted out or preserved and very soft. Assay 10.7%k, 30.3ppm U, 97.7ppm Th, assay # 4486, 1100-1200 cps.
11-MGB-212	assay 5.6%K, 23.4ppm U, 101.6ppm Th, med coarse grained (net textured k feldspar, foyaite, large blocky k feldspar, aegirine intergrown with euhedral k feldspar. # 4487, 1100-1200cps
11-MGB-213	sub crop, found with scint, skarn large cm sized biotite, epidote, chlorite, assay 5.3%, 96ppm U, 125.3ppm Th, assay # 4488 2000cps
11-AAB-0290	subcrop. hot syenite - some barren, bleached fgr CS float around. Possibly hydrothermally altered. -contact zone? Close to source..Lots of fsp's and minor py/po assay #4506 (3.2%K, 40 ppm U, 86 ppm Th); 1000-1100cps
11-AAB-0291	OC. lower-scinting, unalt'd - syenite in OC - mgr; net texture fsp's and mafics. Why so low U and Th when there is visible prismatic orange-yellow euc-eud? Some wispy zones of vfgr mafic masses (aegirine? Or tur?) 380-450 cps
11-AAB-0292	subcrop but likely close to source. OC-CS (actual sample is CS). Bleached, barren, skarn; purple to light-grey-green (patchy zones) with bleached fractures. Some Fe-staining. No sulfides. Visible intrusive float overtop the CS OC (float or weathering in place dike/contact?). Possibly LNS. No visible euc-eud; Low scint (500-600cps) CS: assay# 4506. 450-500 cps.
11-AAB-0293	hyd-th alt'd (?) syenite (of some kind) - endoskarn? Fe-oxidizing grains; CS min's but (mgr) igneous matrix (green) purple fluorite, silver-blue mica (+/- sulf's) in small fgr pockets/interstices). Evidence (fluorite) of Hyd/th? Assay # 4507 (1.4%K, 11 ppm U, 38 ppm Th); 450-600 cps.
11-AAB-0294	Contact/mixing zone between CS and intrusive. Several intrusive phases (1 fgr, 1 mgr-cgr); randomly mixing with fgr bleached barren skarn (pale light green-grey) full of eud-euc (int); possibly sulfide present; purple fluorite and fgr-mgr black-blue riebeckite/aegirines. Assay # 4508 (5.6%K, 70 ppm Th, 16 ppm U). 650-900 cps.
11-AAB-0295	intrusive float (hot) in talus subcrop; rusty-looking 'aplitic' style cumulate layers (which can crosscut each other); layers of orange, glassy/sugary crystalline mineral (spessartine garnet? Or less likely eud?) in a white foyaite-style matrix (salt and pepper colours; mgr-cgr). White mica and purple fluorite are accessory. Fizzes moderately with acid on selected surfaces. no lamping. Assay #4509 (2.3%K, 104 ppm Th, 32 ppm U); 1000-1100 cps.

Table 8., cont. (Rock sample descriptions)

SAMPLE	Comments
11-AAB-0297	float in creek. Pale green mssv glassy translucent matrix w/ anhedral large clots of slightly more opaque beige mineral, lots of fgr needle-laths of black mafic (aeg?) homogenously distributed throughout +/- pink 1mm-sub-mm grains of eucolite. 300 cps. dense. no fizzing.
11-AAB-0298	float in creek. Like the above sample (-0297) but darker, more fgr matrix and big, euhedral pegmatitic (or large recrystallized breccia bits) of fsp/foid. Euc still present (pink prismatic xstals). Fizzes on some surfaces. 200-300 cps.
11-MGB-258	eudialyte rich local float. Biotite, plag, lots of dark, greenish fine grained matrix, chlorite alteration? assay 3.5%K, 12ppm U, 35.8ppm Th
11-MGB-259	skarn epidote alteration of rr seds and contact with syenite (sub crop)
11-MGB-260	local float of foyaite agerine, cordierite? And k spar rich,
11-MGB-262	foyaite, eudialyte bearing in outcrop, assay 4%K, 6.5%U, 42.9%th
11-MGB-263	foyaite, large med grained k feldspar xstals on top of ridge (outcrop
11-MGB-264	outcrop, segregation vein, scapolite (orange fluorescence) assay# 4500, 3800cps, 3.3%K, 56.3ppm U, 534ppm th. Cutting syenite found with scint pink red minerals,
11-MGB-266	outcrop, syenite. Assay # 4502, 4.7% K, 50.1ppm U, 233.9ppm Th, 2100cps
11-MGB-267	3-10 cm wide segregation veins in subcrop under moss. Very close to source. Located with scint while walking on trav. Fine grained felsic and rusty dykes cutting silicified sediments. +8000cps, assay 4503- 1.8%K, 28.3ppm U, 1316ppm Th. Assay 4504- 2% K, 1
11-MGB-268	outcrop, subcrop float trail, radioactive complex dyke, sub/ outcrop. Assay# 4504, 0%K, 198.7ppm U, 2789ppm Th, 15000-16000cps. Fluorite, feldspar, mica, epidote, fine-grained muscv. Looks like skarn alteration in certain zones. Pegmatite feldspar crystal
11-MGB-269	outcrop, subcrop float trail, radioactive complex dyke, sub/ outcrop. Assay# 4504, 0%K, 198.7ppm U, 2789ppm Th, 15000-16000cps. Fluorite, feldspar, mica, epidote, fine-grained muscv. Looks like skarn alteration in certain zones. Pegmatite feldspar crystal
11-MGB-270	outcrop, subcrop float trail, radioactive complex dyke, sub/ outcrop. Assay# 4504, 0%K, 198.7ppm U, 2789ppm Th, 15000-16000cps. Fluorite, feldspar, mica, epidote, fine-grained muscv. Looks like skarn alteration in certian zones. Pegmatite feldspar crystal

Silt Samples

Silt samples were obtained from the main creeks of the area via helicopter or on foot. Each sample was deposited in a kraft sample bag, dried in camp and shipped to Vancouver. A total of 14 silt samples were submitted for geochemical analysis. The location details are given here whereas the discussion of the results is found later in the geochemistry section and full geochemical assays can be found in the appendix.

Figure 24 shows the silt sample locations. Table 9 lists sample locations with UTM coordinates.

Fig. 24. Map showing the locations of silt samples taken in 2011 on the Ting property.

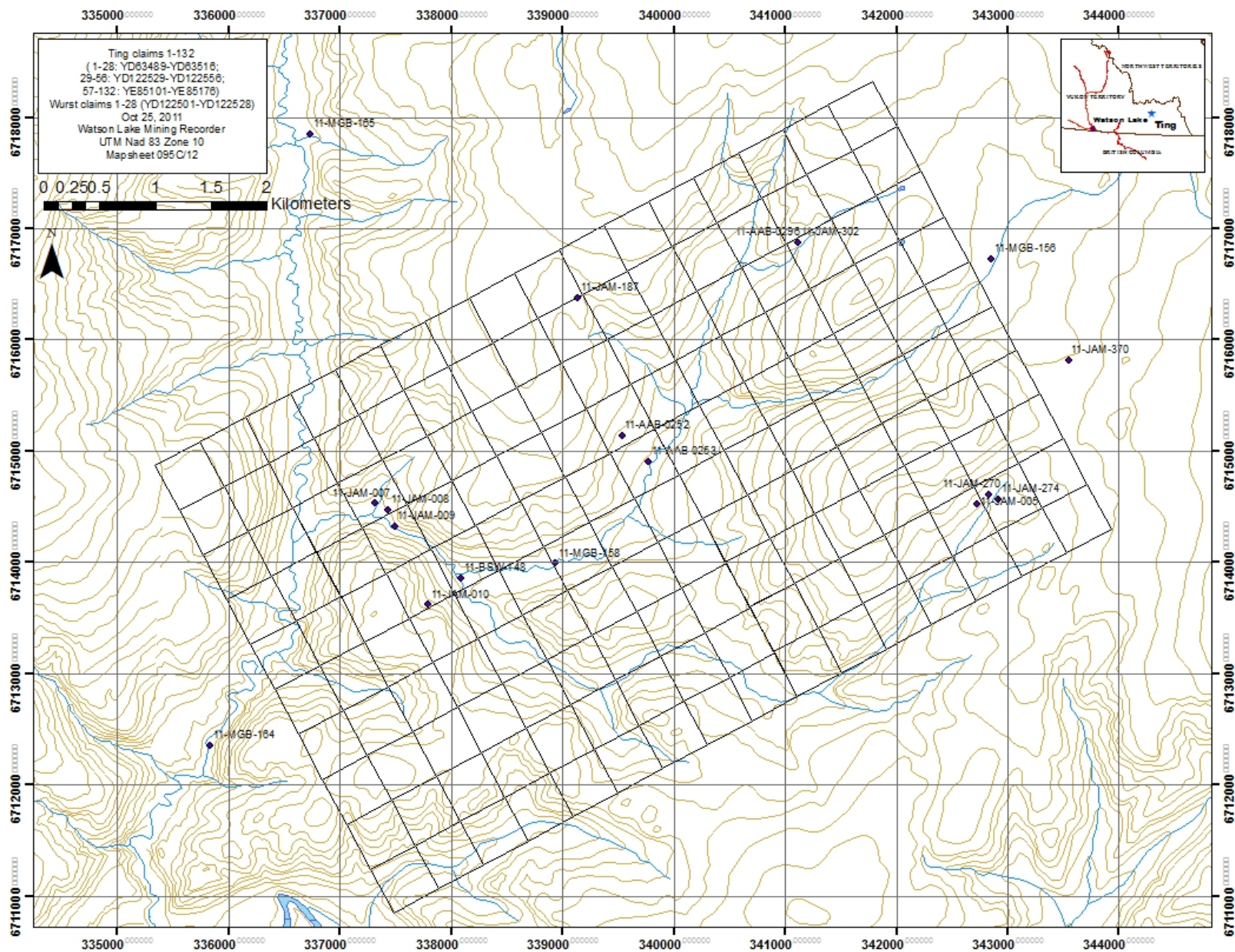


Table 9. Locations of silt samples taken on the ting property on 2011 (Zone 10, Nad 83).

SAMPLE	Easting	Northing
11-BSW-148	338091	6713856
11-JAM-005	342723	6714519
11-JAM-007	337310	6714531
11-JAM-008	337429	6714473
11-JAM-009	337490	6714321
11-JAM-010	337789	6713621
11-MGB-158	338934	6713991
11-AAB-0252	339535	6715141
11-AAB-0253	339771	6714908
11-JAM-187	339132	6716379
11-AAB-0296	341109	6716874
11-JAM-270	342833	6714609
11-JAM-274	342915	6714567
11-JAM-302	341113	6716878

7.2 Geochemistry of samples (2011)

7.2.1 Results

Samples were submitted to Acme Labs Ltd in Vancouver, BC, with the exception of the radioactive dike samples. Silts and soils were dried at 60°C and sieved to 80 mesh, while rocks were crushed to 80% passing 10 mesh, split 250 g and pulverized to 85% passing 200 mesh. A full suite of 45 elements was analyzed via the 4-BO2 program. Rare earth and refractory elements were determined by ICP mass spectrometry following a lithium metaborate/tetraborate fusion and nitric acid digestion of a 0.2 g sample. In addition a separate 0.5 g split is digested in Aqua Regia and analysed by ICP Mass Spectrometry to report the precious and base metals.

Radioactive dike samples were submitted to ALS Chemex using the same program (MEMS-81 and ME-ICP-06) as the 2010 program (see 2010 section above for details). Certificates for all of the results are included at the end of the report.

Table 10 shows the geochemical results for the detailed samples of the 'complex radioactive dike' from the same UTM location as 11-MGB-270. The following maps show geochemistry for As, Au, Mo, Ni, Pb, Zn, Zr, Th, TREE, Ba and Nb (Figures 25 through 35).

Table 10. Rock sample results from detailed sampling of the 'complex radioactive dike'.

SAMPLE	11-Ting-Top 1	11-Ting-Top 2	11-Ting-Top 3	11-Ting-Top 4	11-Ting-Mid 1	11-Ting-Mid 2	11-Ting-Mid 3	11-Ting-Bot 1	11-Ting-Bot 2	11-Ting-Bot 3
Total	0.0652	0.4082	0.0543	0.0907	0.1308	0.0491	0.0640	0.0888	0.4414	0.0427
LREO (La-Sm)	0.0505	0.3496	0.0484	0.0809	0.1120	0.0404	0.0531	0.0759	0.4024	0.0322
HREO (Eu-Lu+Y)	0.0147	0.0586	0.0059	0.0098	0.0188	0.0087	0.0108	0.0129	0.0390	0.0105
HREO/TREO (%)	22.54%	14.35%	10.84%	10.82%	14.38%	17.65%	16.93%	14.49%	8.84%	24.64%
Ba	1195.00	988.00	2900.00	1315.00	877.00	621.00	1400.00	564.00	1325.00	5240.00
Cr	50.00	10.00	50.00	80.00	5.00	240.00	30.00	110.00	110.00	10.00
Co	2.60	0.90	4.20	3.70	0.60	4.20	1.50	2.30	1.60	1.00
Cs	22.40	2.37	4.96	1.01	70.70	3.38	1.13	3.52	19.60	84.80
Ga	44.80	88.10	109.00	87.80	86.20	16.80	121.00	39.10	86.30	63.20
Hf	22.00	203.00	12.80	37.90	128.00	1.80	2.10	16.90	154.50	112.50
Nb	583.00	1890.00	283.00	514.00	1285.00	33.60	46.60	367.00	2450.00	759.00
Rb	655.00	251.00	473.00	66.80	708.00	172.50	35.60	124.00	461.00	1175.00
Sn	13.00	56.00	24.00	37.00	20.00	3.00	1.00	9.00	24.00	41.00
Sr	135.50	184.50	325.00	140.00	61.30	455.00	393.00	121.50	184.00	139.50
Ta	3.10	24.40	1.80	6.40	19.50	0.20	0.30	2.80	27.40	8.40
Th	1000.00	276.00	1000.00	1000.00	176.50	312.00	1000.00	818.00	1000.00	236.00
U	64.00	26.80	48.10	181.00	60.70	9.57	38.20	76.90	74.10	20.10
V	1730.00	233.00	1520.00	3230.00	187.00	7440.00	1580.00	3660.00	3910.00	330.00
W	8.00	68.00	11.00	40.00	41.00	14.00	8.00	18.00	94.00	8.00
Zr	1580.00	10000.00	1100.00	3140.00	8720.00	105.00	155.00	1340.00	10000.00	6010.00
Y	83.60	328.00	35.10	57.60	97.00	51.20	61.30	74.40	227.00	52.60
La	181.00	1395.00	202.00	328.00	461.00	160.00	211.00	283.00	1610.00	126.50
Ce	205.00	1350.00	179.00	305.00	425.00	152.00	201.00	299.00	1545.00	126.00
Pr	12.85	74.80	9.92	17.40	22.60	9.37	12.10	18.75	86.60	6.99
Nd	28.40	146.00	20.10	35.80	42.20	20.90	26.10	41.60	173.50	13.70
Sm	4.02	18.30	2.27	3.98	5.02	2.72	3.35	5.87	19.30	1.66
Eu	0.75	4.74	0.33	0.74	0.78	0.45	0.51	1.46	3.04	0.25
Gd	4.10	15.90	1.81	3.48	4.62	2.63	3.06	5.37	14.00	1.76
Tb	0.85	3.67	0.36	0.63	1.14	0.50	0.65	0.94	2.59	0.47
Dy	7.06	30.40	2.77	4.69	9.96	4.09	5.23	6.72	19.10	4.82
Ho	1.86	7.91	0.68	1.15	2.83	1.06	1.38	1.59	4.56	1.59
Er	6.90	29.70	2.35	4.05	11.50	3.75	5.36	5.23	16.15	7.10
Tm	1.39	5.86	0.44	0.74	2.52	0.68	1.08	0.92	3.09	1.63
Yb	10.95	43.20	3.24	5.41	20.20	4.95	8.11	6.59	23.10	13.70
Lu	1.82	6.66	0.53	0.87	3.28	0.76	1.24	1.01	3.54	2.36
Tl	1.20	0.70	1.70	0.25	1.80	0.25	0.25	0.25	0.60	3.20
Mo	92.00	10.00	24.00	32.00	5.00	2640.00	3010.00	227.00	15.00	5.00
Cu	7.00	5.00	23.00	21.00	9.00	182.00	43.00	76.00	2.50	20.00
Pb	107.00	97.00	156.00	93.00	499.00	36.00	54.00	150.00	259.00	154.00
Zn	1070.00	1470.00	1420.00	1020.00	310.00	1770.00	1720.00	3600.00	996.00	389.00
Ni	134.00	55.00	453.00	254.00	10.00	212.00	151.00	457.00	138.00	36.00

Table 10., cont.

SAMPLE	11-Ting-Top 1	11-Ting-Top 2	11-Ting-Top 3	11-Ting-Top 4	11-Ting-Mid 1	11-Ting-Mid 2	11-Ting-Mid 3	11-Ting-Bot 1	11-Ting-Bot 2	11-Ting-Bot 3
SiO ₂	53.80	60.60	50.80	48.00	62.70	66.80	67.80	37.90	55.80	59.20
Al ₂ O ₃	4.68	12.70	9.53	5.79	14.60	2.03	11.75	4.39	10.80	12.85
Fe ₂ O ₃	3.51	3.46	3.90	5.94	5.44	2.66	1.32	2.31	4.46	11.05
CaO	10.70	5.83	16.80	18.45	0.90	13.45	6.79	32.80	7.71	1.75
Ag	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MgO	11.75	0.66	1.96	3.63	0.06	2.19	0.43	0.86	1.03	0.16
Na ₂ O	5.32	7.10	4.40	5.39	8.66	2.89	7.48	4.91	7.64	6.05
K ₂ O	1.96	1.51	2.66	0.68	3.21	0.55	0.24	0.62	2.59	6.02
Cr ₂ O ₃	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.02	0.02	0.01
TiO ₂	0.41	0.31	0.38	0.34	0.40	0.12	0.05	0.22	0.72	0.47
MnO	1.54	0.85	0.66	0.98	0.49	0.56	0.12	1.11	1.25	0.51
P ₂ O ₅	0.27	0.13	0.22	0.78	0.09	0.29	0.42	0.53	0.43	0.07
SrO	0.01	0.02	0.03	0.01	0.01	0.05	0.04	0.01	0.02	0.01
BaO	0.13	0.11	0.32	0.15	0.10	0.07	0.15	0.06	0.15	0.60
LOI	3.99	2.70	4.00	2.98	0.50	5.58	0.89	5.29	2.38	1.39
Total	98.10	96.00	95.70	93.10	97.20	97.30	97.50	91.00	95.00	100.00

Fig. 25. Rock, Silt, and Soil results for arsenic (As). The solid red circle = the south creek junction zone, dashed squares are targets generated by Murphy (2011).

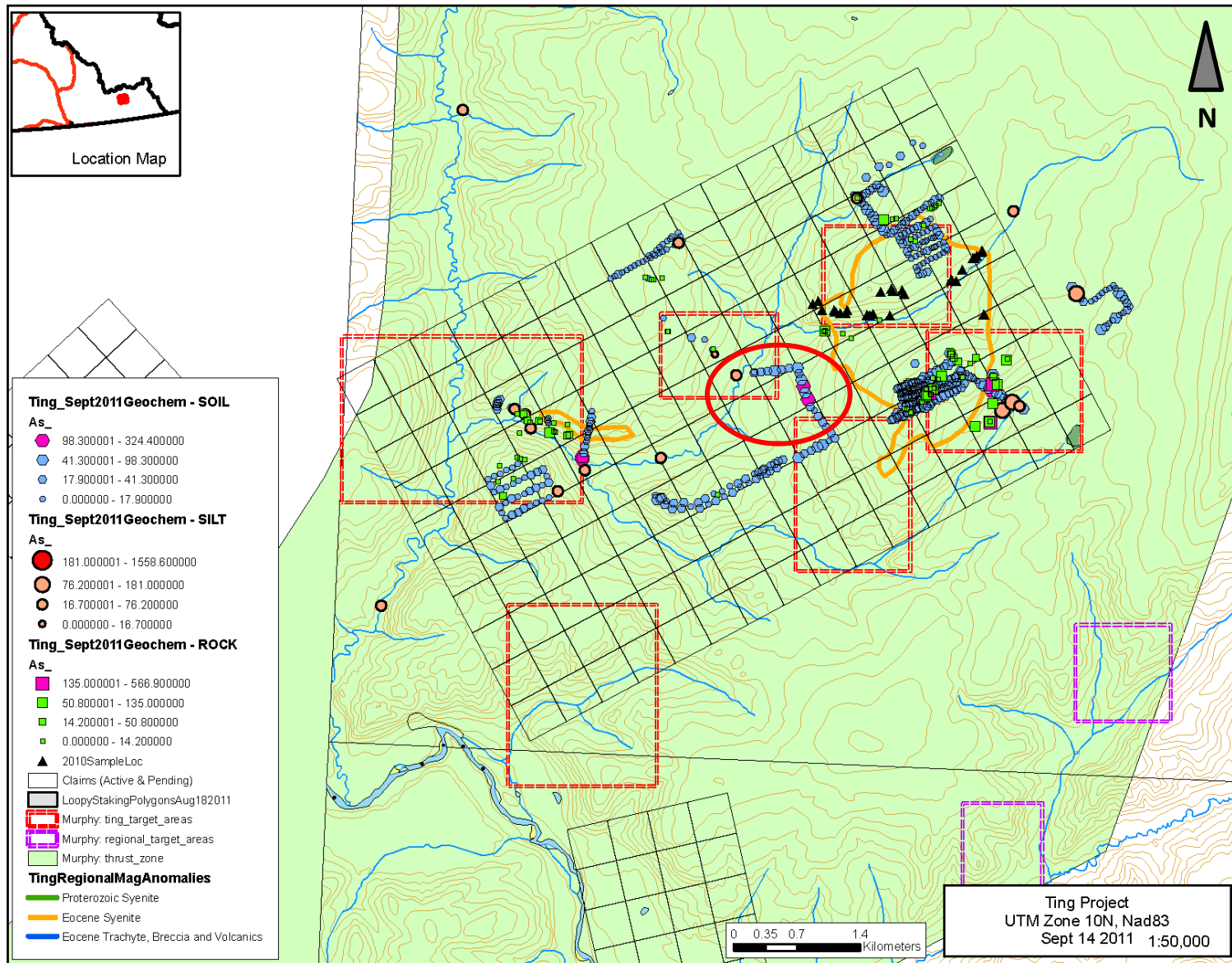


Fig. 26. Rock, Silt, and Soil results for gold (Au).

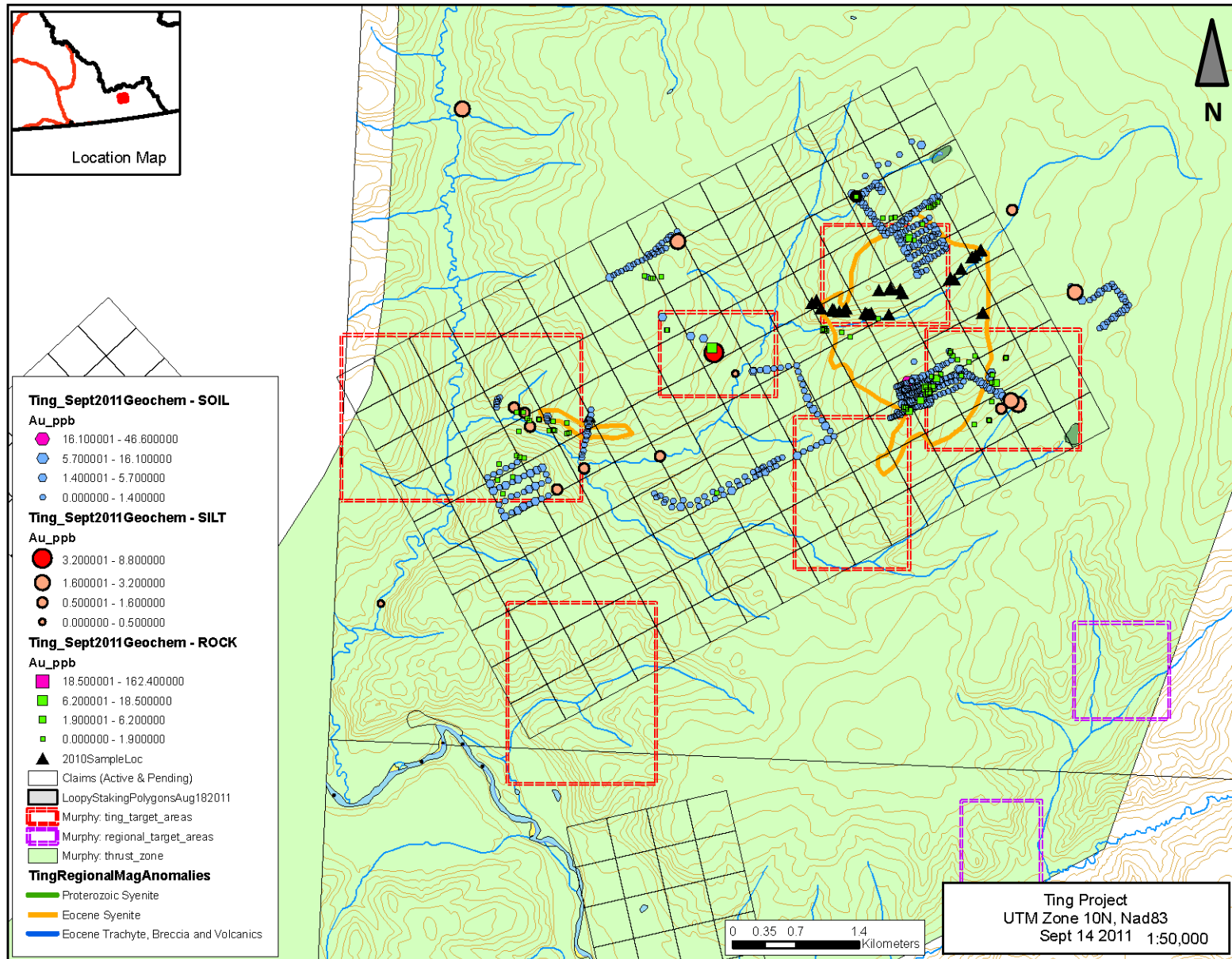


Fig. 27. Rock, Silt, and Soil results for the element Ba.

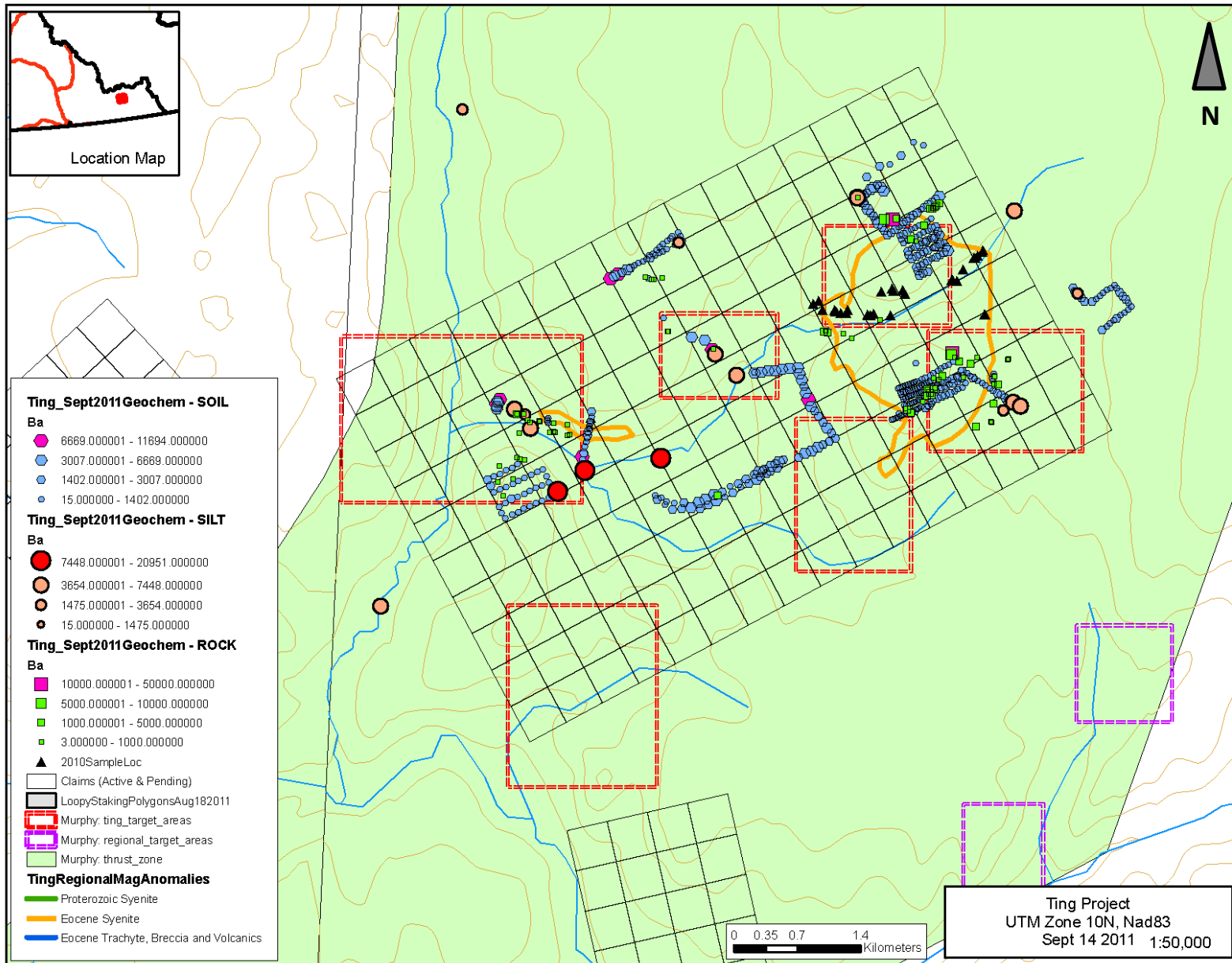


Fig. 28. Rock, Silt, and Soil results for the element Mo.

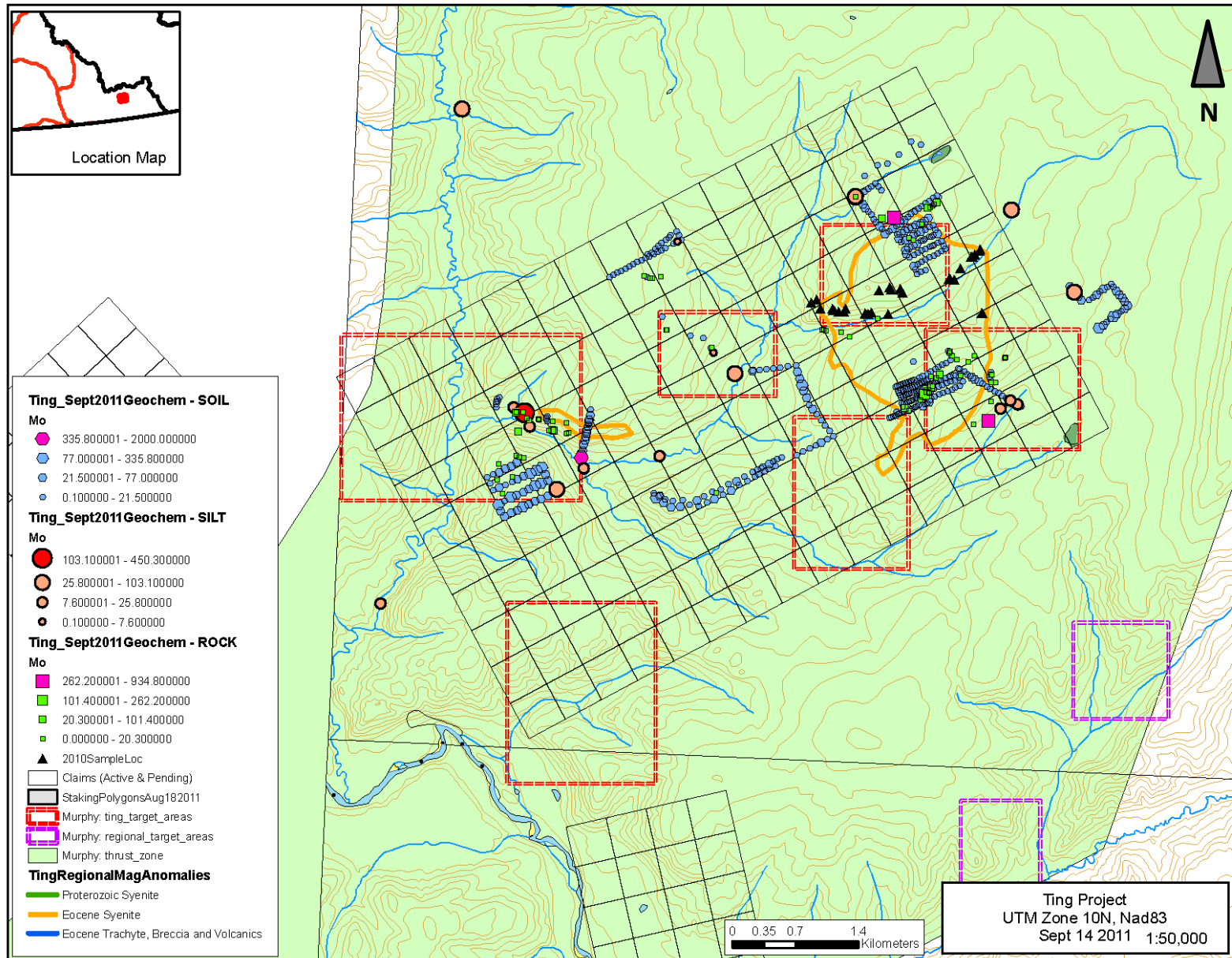


Fig. 29. Rock, Silt, and Soil results for the element Nb.

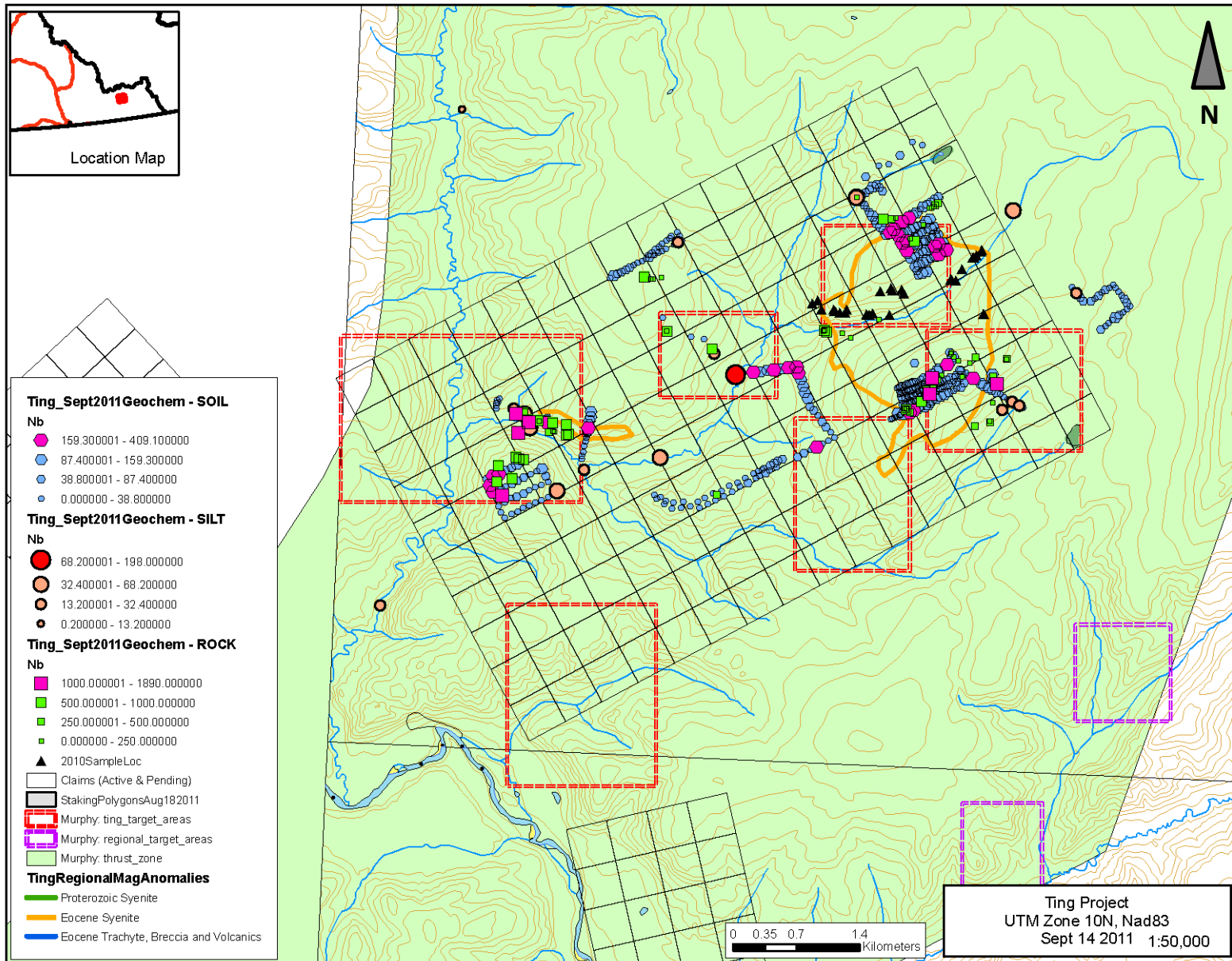


Fig. 30. Rock, Silt, and Soil results for the element Ni.

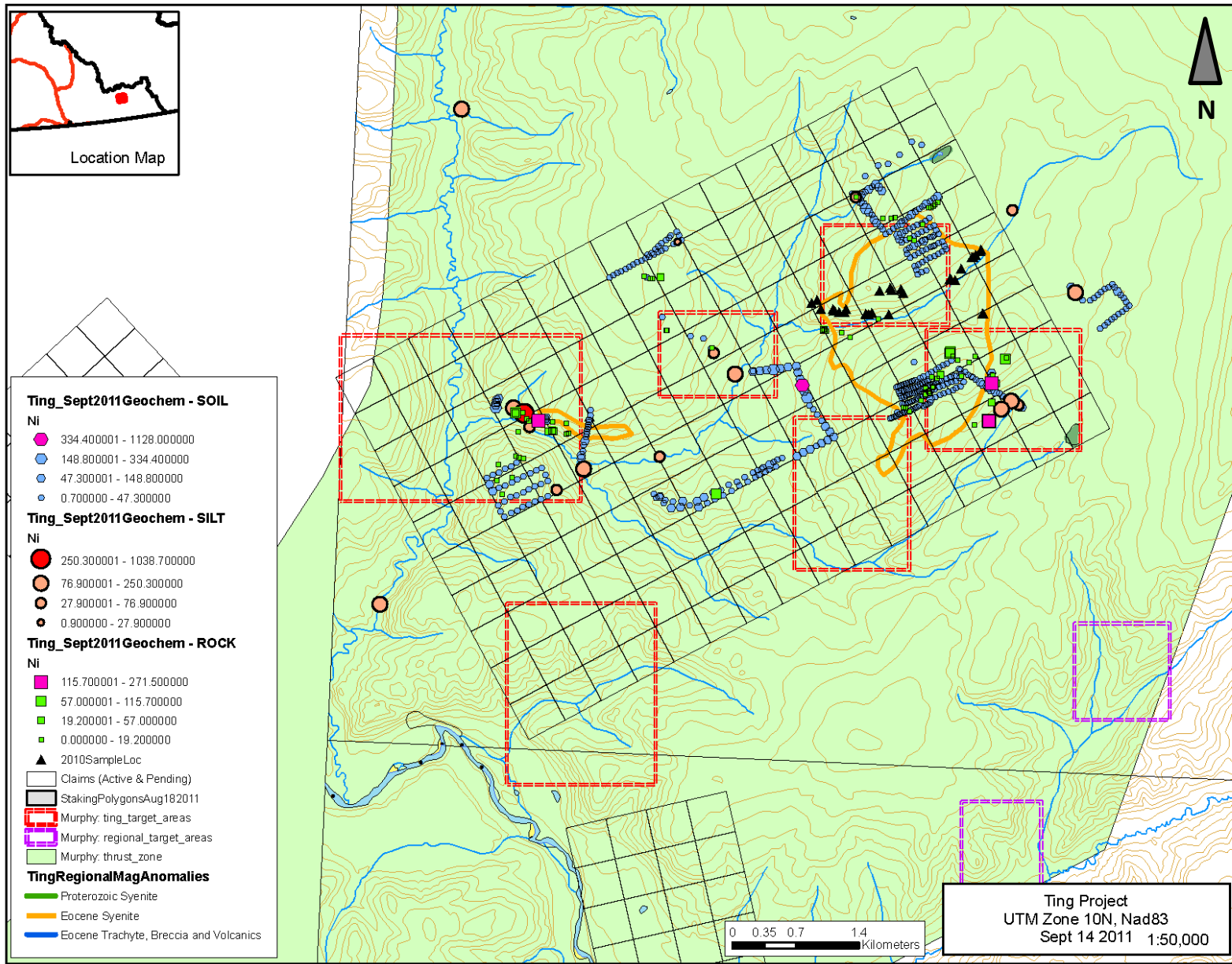


Fig. 31. Rock, Silt, and Soil results for the element Pb.

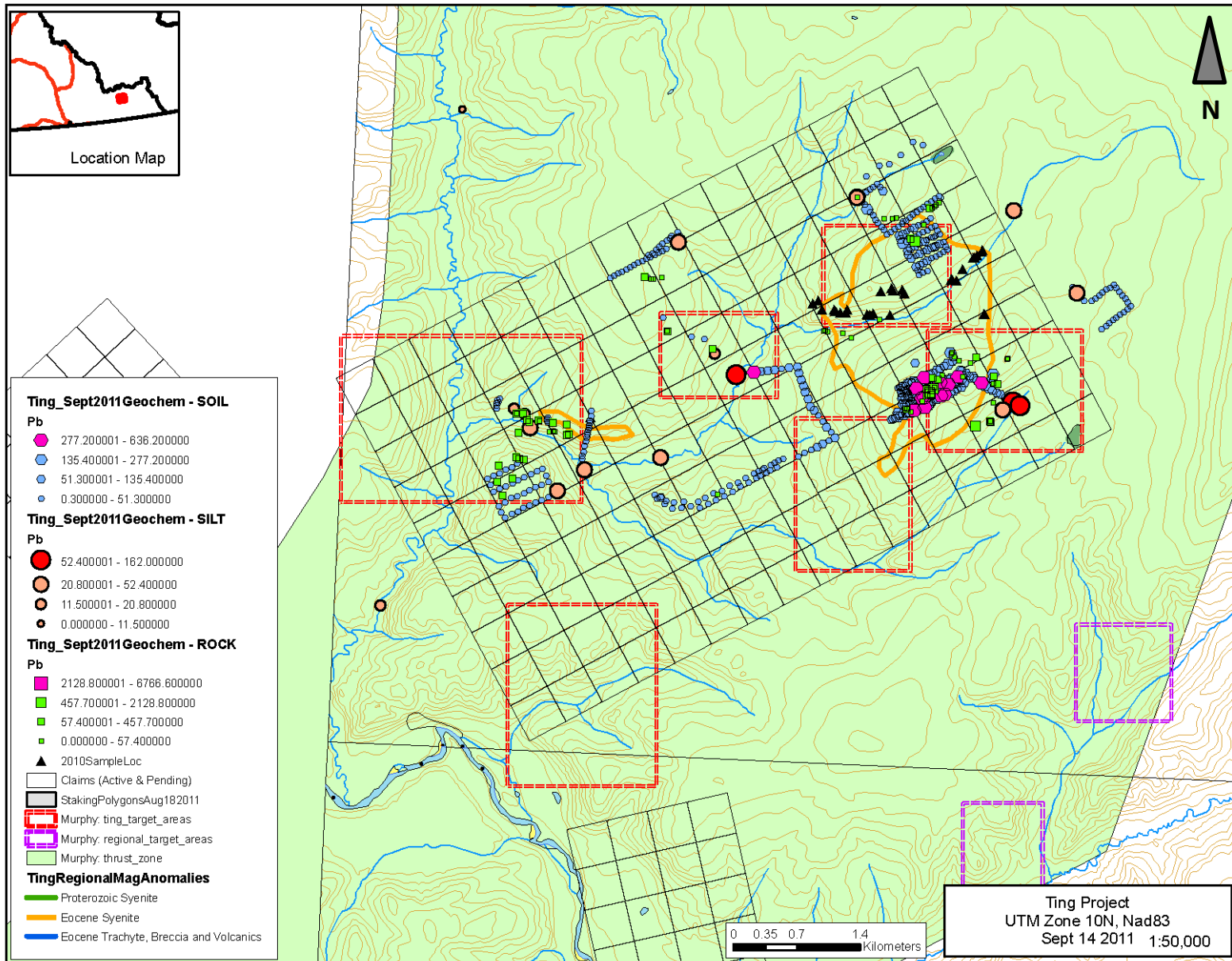


Fig. 32. Rock, Silt, and Soil results for the element Th.

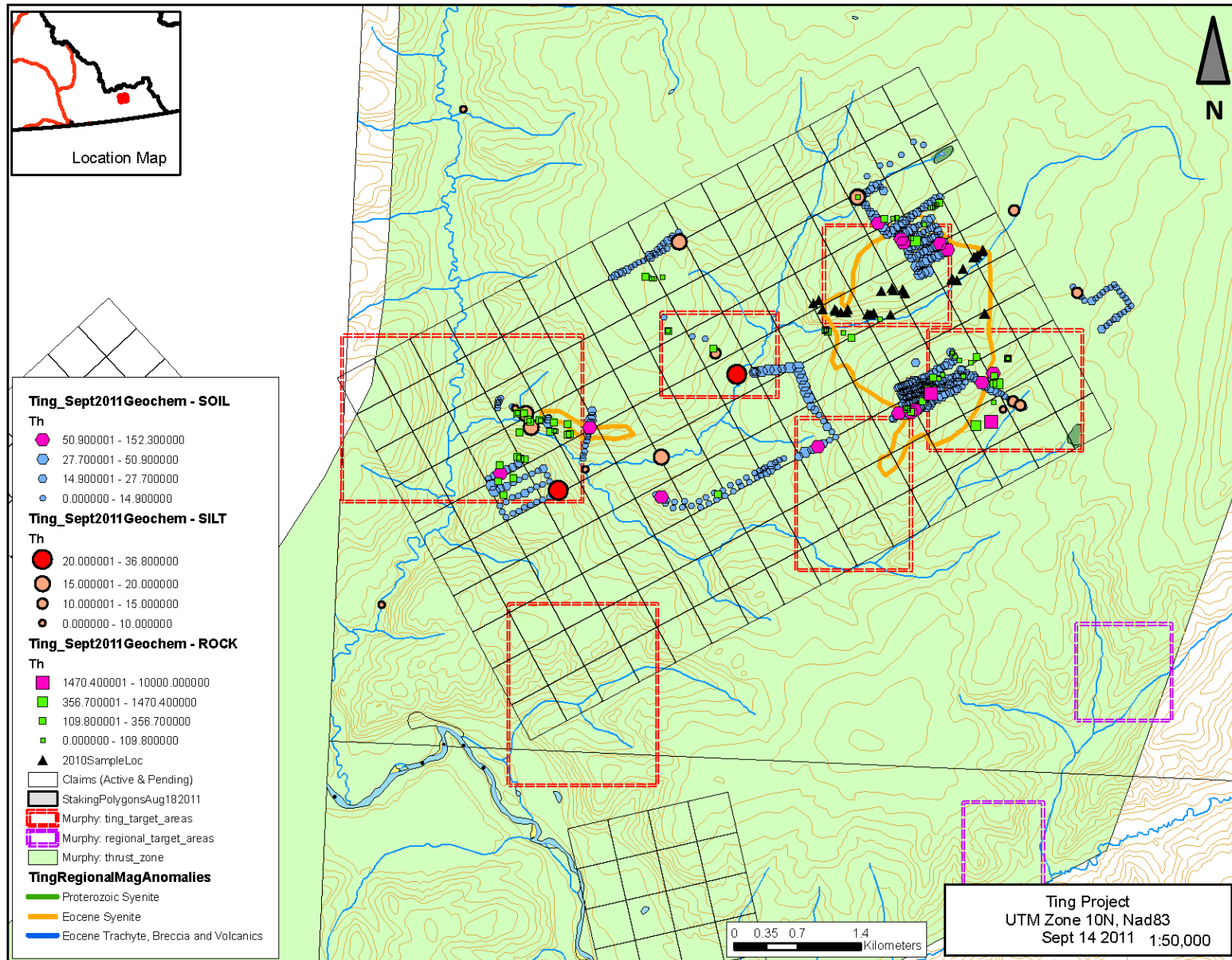


Fig. 33. Rock, Silt, and Soil results for the element TREE (total rare earth elements).

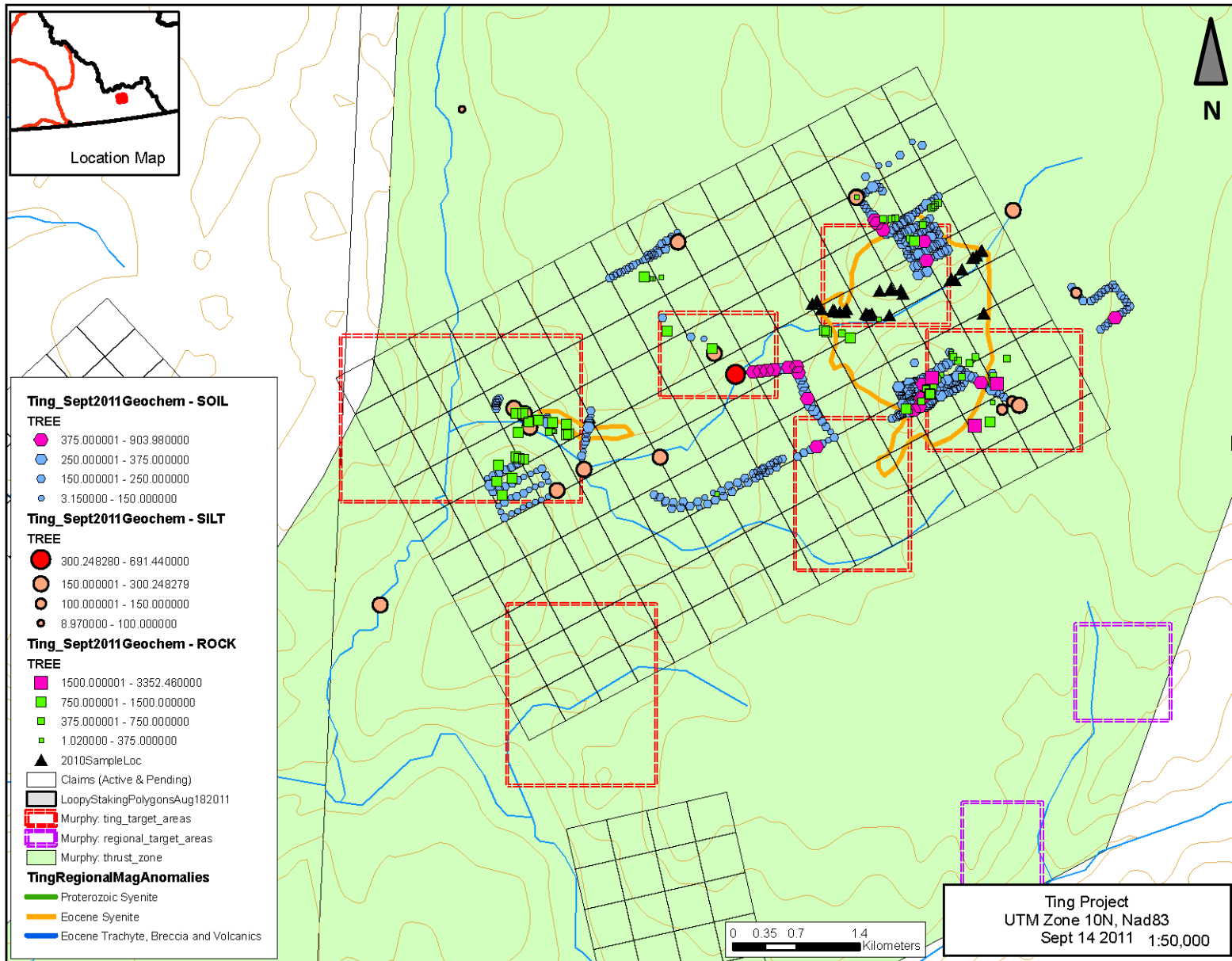


Fig. 34. Rock, Silt, and Soil results for the element Zn.

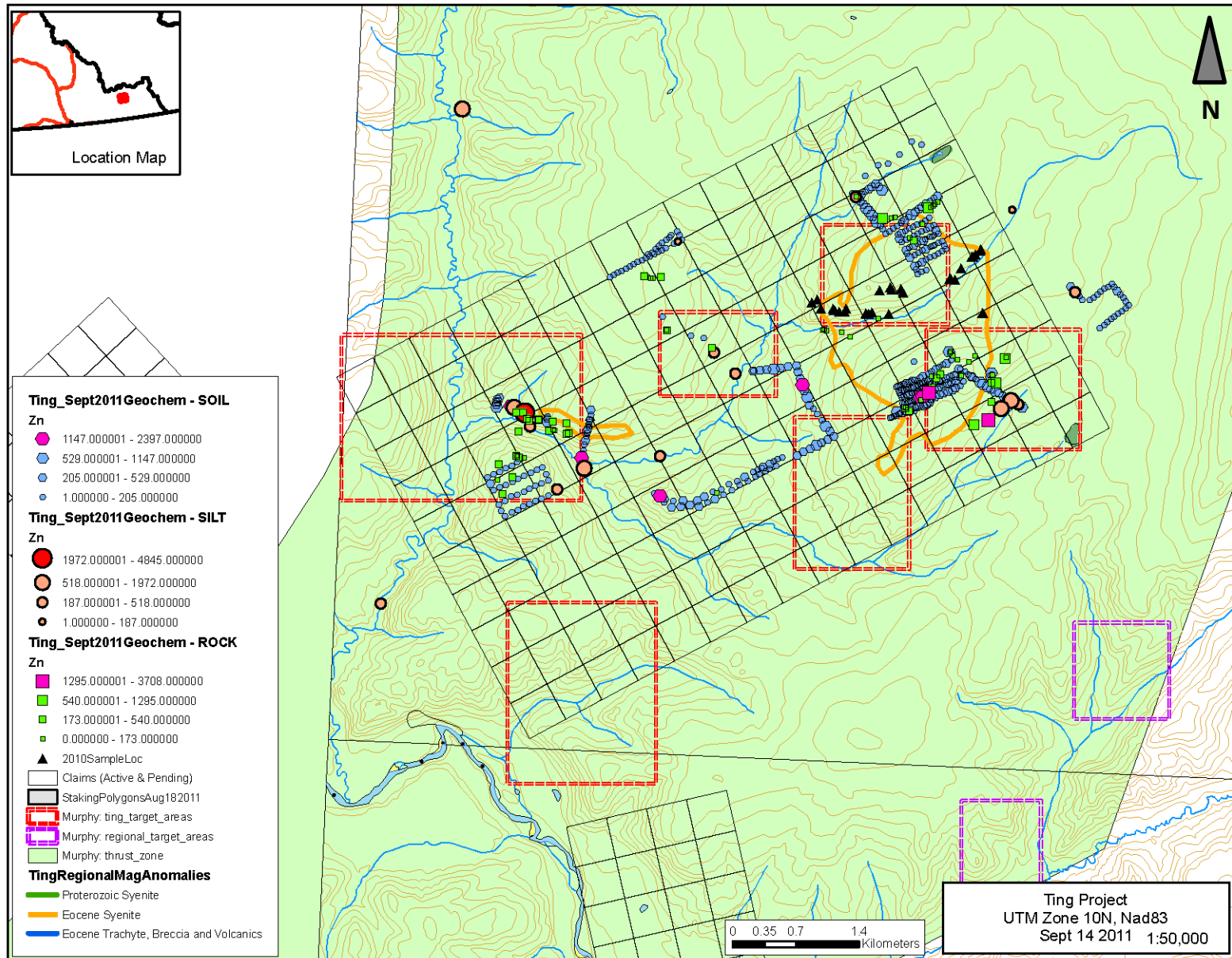
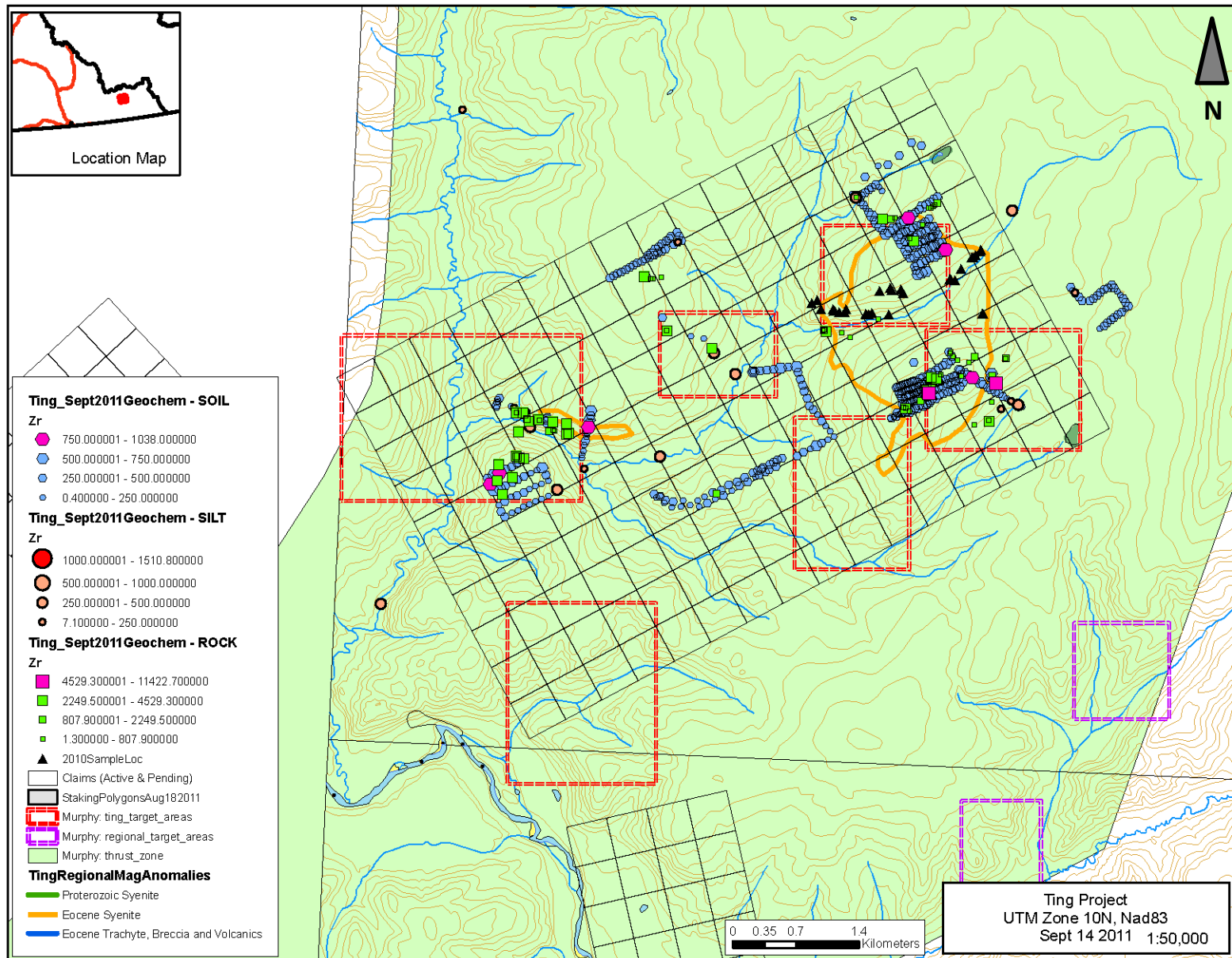


Fig. 35. Rock, Silt, and Soil results for the element Zr.



7.2.2. Discussion of results

The highest TREO in a rock sample was 0.44% TREO (3750 ppm TREE+Y), found in the radioactive dike to the south of the main complex (see below for more discussion). The highest TREO in silt (0.04 % TREO or 350 TREE+Y) was found in the main creek, southwest of the main junction and west (downstream) of the main syenite complex (sample 11-AAB-0253). The highest TREO in a soil was 0.11 % TREO (969 ppm TREE+Y) in sample 11-JAM-247, which is located in the main complex, on the north hill, where eudialyte-bearing alkaline rocks are mapped. Sample 11-JAM-153 was relatively elevated in TREO at 0.10 %, contained elevated Pb and Zn, and is located in the main complex on the south hill near the 2011 camp.

The highest Hf+Zr silt was 11-JAM-010, which drains off the main zone of the expanded area of the tinguaitite sill in the west part of the claim block. This sample contained 11 ppm Hf and 488 ppm Zr. In soil samples, the highest Hf, Zr, Ta and Nb were found in sample 11-JAM-019 (located near the new area of tinguaitite sill), which contained 1038 ppm Zr, 21 ppm Hf, 11 ppm Ta, and 301 ppm Nb. No silt on the property kicked over 10 ppm for W, or 10 ppb for Au. However, the highest W (65 ppm) in a soil sample was found in sample 11-JAM-064, which is located in the main complex, just south of the 2011 camp.

The highest HREO/TREO ratios were seen in two soil samples, both near each other and beside the known area of tinguaitite sill at the western end of the claim block. Sample 11-JAM-006 has a ratio of 89.59 %, but only contains 0.02% TREO; sample 11-BSW-149 has a ratio of 84.16, and contains slightly more REE at 0.03% TREO. Both of these samples were described as coming from a ferricrete spring, located near the sill.

The following four sections describe several areas on the Ting claims which show new potential, for REE mineralization or for different elements, based on anomalous geochemical and/or radiometric results. Fig. 36 shows the locations of the prospective areas, while Table 11 shows the assay results for some notable samples described in the paragraph above, and in the following sections.

Fig. 36. Locations of prospective areas on the Ting claims.

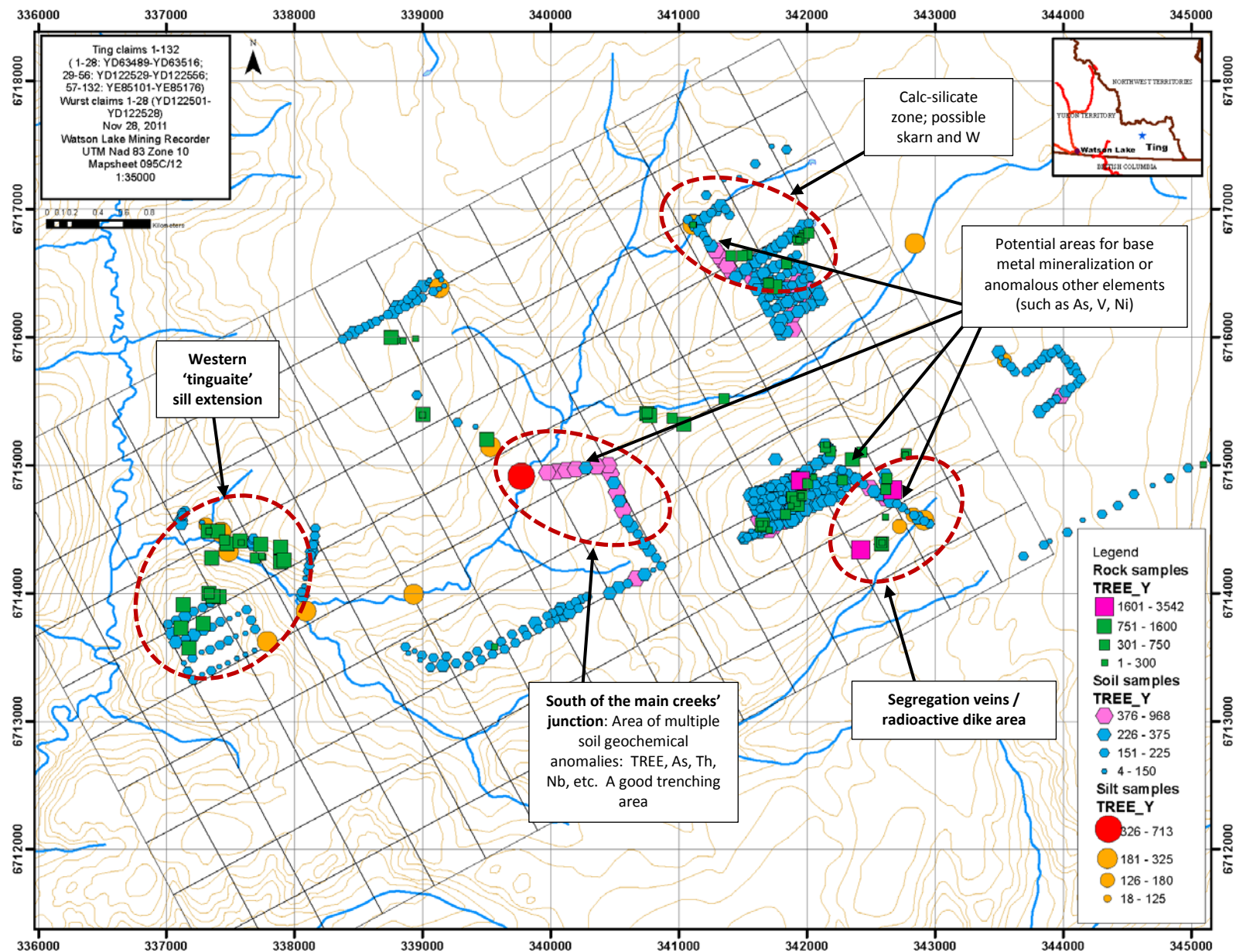


Table 11. Notable samples discussed in the following discussion of 2011 assay results.

SAMPLE	Type	Easting	Northing	Total (TREO %)	LREO (%)	HREO (%)	HREO /TREO	Ba (ppm)	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr
<u>The highest values of various elements (etc.) on the Ting property (2011):</u>																	
11-AAB-0253	SILT	339771	6714908	0.04	0.03	0.01	0.20	4989	5	16	12	20	7	91	188	2	134
11-JAM-247	SOIL	341891	6716178	0.11	0.10	0.01	0.11	1846	7	7	12	17	8	104	169	3	244
11-JAM-153	SOIL	341857	6714660	0.09	0.08	0.01	0.13	839	3	7	12	13	8	37	112	3	122
11-JAM-010	SILT	337789	6713621	0.04	0.03	0.01	0.17	10248	5	7	6	15	11	67	131	3	120
11-JAM-019	SOIL	338138	6714323	0.04	0.03	0.01	0.19	1362	3	3	15	20	21	301	294	4	46
11-JAM-064	SOIL	342007	6714826	0.03	0.02	0.00	0.16	1226	9	6	9	12	8	65	115	2	92
11-JAM-006	SOIL	337277	6714553	0.01	0.00	0.01	0.90	15	2	13	0	0	0	0	0	0	1
11-BSW-149	SOIL	338064	6713980	0.03	0.01	0.03	0.84	405	14	6	2	2	1	15	21	0	22
<u>From the anomalous soil geochemistry zone - south of the main creeks' junction:</u>																	
11-JAM-384	SOIL	340636	6714516	0.03	0.03	0.01	0.15	2083	3	2	8	16	7	56	158	2	138
11-JAM-385	SOIL	340594	6714563	0.03	0.03	0.00	0.14	5920	4	4	9	16	7	77	163	1	71
11-JAM-386	SOIL	340564	6714648	0.05	0.04	0.01	0.12	11513	6	18	12	21	9	144	232	2	113
11-JAM-387	SOIL	340538	6714717	0.04	0.03	0.01	0.18	4380	5	5	9	17	9	106	164	2	70
11-JAM-388	SOIL	340515	6714788	0.05	0.03	0.02	0.32	2493	12	40	9	15	7	108	120	2	49
11-JAM-389	SOIL	340491	6714860	0.04	0.03	0.01	0.20	3881	3	4	12	18	10	107	192	3	71
11-JAM-390	SOIL	340467	6714932	0.05	0.05	0.01	0.13	4778	3	6	12	19	10	165	262	2	86
11-JAM-391	SOIL	340448	6714999	0.05	0.04	0.01	0.13	4163	4	5	11	22	11	186	266	3	112
<u>From the western tinguaitite sill extension:</u>																	
11-BSW-135	ROCK	342667	6714808	0.26	0.22	0.04	0.17	3272	519	1	1	61	116	1890	16	19	113
11-JAM-008	SILT	337429	6714473	0.02	0.02	0.00	0.20	2186	5	140	7	15	6	54	121	2	54
11-JAM-019	SOIL	338138	6714323	0.04	0.03	0.01	0.19	1362	3	3	15	20	21	301	294	4	46
<u>Base metal and other elements:</u>																	
11-AAB-0293	ROCK	341534	6716643	0.07	0.07	0.01	0.08	1654	12	2	10	19	10	223	114	6	396
11-AAB-0294	ROCK	341491	6716636	0.06	0.05	0.01	0.11	16088	6	2	7	21	17	350	422	6	286
11-JAM-005	SILT	342723	6714519	0.02	0.02	0.01	0.27	3384	2	11	6	11	5	21	81	2	103
11-MGB-176	ROCK	342153	6715160	0.02	0.01	0.00	0.27	13340	3	5	4	12	3	10	323	3	130
11-MGB-207	ROCK	341921	6714697	0.14	0.13	0.01	0.08	491	100	4	162	109	97	1520	2105	8	82
11-MGB-208	ROCK	341906	6714719	0.05	0.04	0.01	0.19	2660	7	1	12	20	12	221	839	3	292
11-MGB-270	ROCK	342582	6714396	0.05	0.04	0.01	0.17	907	217	2	3	25	7	199	64	6	194

Table 11. cont.

SAMPLE	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	TREE (ppm)
<u>The highest values of various elements (etc.) on the Ting property (2011):</u>																						
11-AAB-0253	4	30	22	405	7	349	43	83	134	14	45	7	2	7	1	6	1	4	1	3	1	308
11-JAM-247	5	44	15	230	6	455	65	395	284	48	120	16	4	11	2	10	2	6	1	5	1	904
11-JAM-153	2	51	15	110	8	305	61	305	236	38	108	15	3	13	2	10	2	5	1	4	1	741
11-JAM-010	4	21	17	332	4	488	31	69	121	14	50	8	1	6	1	5	1	3	0	3	0	282
11-JAM-019	11	62	10	312	3	1038	35	82	121	11	33	5	1	4	1	5	1	4	1	4	1	272
11-JAM-064	3	33	5	207	65	339	23	73	93	11	32	5	1	4	1	4	1	2	0	2	0	228
11-JAM-006	0	0	6	0	0	0	47	2	3	0	2	1	0	3	0	3	1	3	0	2	0	21
11-BSW-149	0	4	325	978	1	65	169	12	19	2	9	4	1	11	2	14	4	12	2	10	2	104
<u>From the anomalous soil geochemistry zone - south of the main creeks' junction:</u>																						
11-JAM-384	4	17	10	353	4	278	23	71	107	13	44	7	2	6	1	4	1	2	0	2	0	261
11-JAM-385	4	22	10	365	13	281	23	71	115	12	39	6	1	4	1	4	1	2	0	2	0	258
11-JAM-386	8	38	22	498	39	454	29	122	182	18	53	8	2	6	1	5	1	3	1	3	0	404
11-JAM-387	6	29	14	505	15	386	35	76	116	13	42	6	1	5	1	5	1	3	1	3	0	274
11-JAM-388	5	32	152	965	12	385	87	92	116	16	51	10	3	11	2	11	2	7	1	6	1	328
11-JAM-389	6	37	29	468	10	483	43	88	125	14	47	7	2	7	1	6	1	4	1	4	1	306
11-JAM-390	9	41	14	288	10	487	34	126	184	20	60	8	2	6	1	5	1	3	0	3	1	420
11-JAM-391	10	36	12	267	9	550	33	118	171	19	58	8	2	6	1	5	1	3	1	3	1	397
<u>From the western tinguaita sill extension:</u>																						
11-BSW-135	51	1049	283	129	57	6936	245	770	887	60	134	19	3	18	4	28	7	23	4	26	4	1986
11-JAM-008	2	18	9	336	0	267	23	41	68	7	28	4	1	4	1	3	1	2	0	2	0	161
11-JAM-019	11	62	10	312	3	1038	35	82	121	11	33	5	1	4	1	5	1	4	1	4	1	272
<u>Base metal and other elements:</u>																						
11-AAB-0293	13	44	11	120	32	511	28	172	274	28	81	11	2	7	1	5	1	2	0	3	0	587
11-AAB-0294	15	99	15	123	25	1002	32	138	219	20	55	8	1	5	1	5	1	3	1	4	1	460
11-JAM-005	1	10	14	596	5	215	30	33	57	7	27	5	1	5	1	4	1	2	0	3	0	146
11-MGB-176	1	7	16	1769	2	96	22	24	44	6	23	4	1	4	1	3	1	2	0	2	0	114
11-MGB-207	16	10000	1427	8	20	8021	62	415	577	39	83	10	2	6	1	8	2	7	1	10	2	1162
11-MGB-208	9	57	25	16	105	775	51	119	179	15	42	7	1	6	1	8	2	4	1	4	1	390
11-MGB-270	1	618	24	2149	10	591	52	167	172	12	28	4	1	4	1	4	1	4	1	5	1	404

Table 11. cont.

SAMPLE	Mo	Cu	Pb	Zn	Ni	As_	Cd	Sb	Bi	Ag	Au (ppb)	Hg	Tl	Se
<u>The highest values of various elements (etc.) on the Ting property (2011):</u>														
11-AAB-0253	37	35	62	513	149	64	7	2	0	1	0	0.17	1	4.3
11-JAM-247	11	19	68	163	29	15	4	1	1	0	2.2	0.05	0.6	1.6
11-JAM-153	30	53	306	1848	22	148	13	2	2	8	5.7	0.06	0.6	0.9
11-JAM-010	30	23	24	304	64	34	2	3	0	1	1.2	0.13	0.7	4.1
11-JAM-019	38	14	38	181	30	16	1	2	0	1	0	0.06	1	4.6
11-JAM-064	8	12	231	588	29	40	1	2	2	1	1.1	0.04	0.8	0.7
11-JAM-006	16	1	0	1684	61	20	1	0	0	0	0	0	0.3	0
11-BSW-149	2000	7	4	1429	111	143	6	3	0	0	0	0.04	0.9	3
<u>From the anomalous soil geochemistry zone - south of the main creeks' junction:</u>														
11-JAM-384	77	10	133	92	17	14	2	4	0	1	2.2	0.04	2.8	3.9
11-JAM-385	21	21	81	243	47	27	5	5	0	0	0	0.09	1	5.9
11-JAM-386	49	50	116	1147	283	204	2	9	0	0	1.8	0.06	0.8	9.7
11-JAM-387	36	34	76	451	98	62	4	8	0	0	1.3	0.2	0.9	5.2
11-JAM-388	141	204	84	2397	1128	324	19	11	0	0	1.1	0.1	7.3	10.8
11-JAM-389	27	44	80	368	121	71	4	7	1	0	0	0.05	1.1	3.9
11-JAM-390	28	36	103	359	64	38	3	4	1	0	0.7	0.03	0.7	2.5
11-JAM-391	20	25	86	402	84	44	3	4	1	0	0	0.04	0.6	2.3
<u>From the western tinguaita sill extension:</u>														
11-BSW-135	7	19	228	587	33	77	4	6	0	0	3.4	0	0.3	0.9
11-JAM-008	225	21	15	2720	1039	65	13	4	0	0	1.5	0.12	1.8	4.8
11-JAM-019	38	14	38	181	30	16	1	2	0	1	0	0.06	1	4.6
<u>Base metal and other elements:</u>														
11-AAB-0293	935	6	14	49	7	11	1	0	4	0	0	0	0.8	2.3
11-AAB-0294	3	9	22	111	9	8	2	2	0	0	0	0	0.2	0
11-JAM-005	11	25	52	602	139	146	7	2	0	1	1.5	0.18	0.8	6.3
11-MGB-176	2	4	38	101	92	32	2	1	0	0	1.8	0.01	0	0
11-MGB-207	13	3	1114	2512	4	3	2	1	32	3	5.3	0	6.6	0
11-MGB-208	76	10	659	944	9	567	18	22	18	5	5.3	0	2.4	0
11-MGB-270	38	94	154	2910	272	112	22	12	0	0	0	0.01	0	2

The complex radioactive dike and nearby 'segregation veins'

This area lies to the south of the main complex, on the southern side of the south hill. This zone contains several sites of 'segregation veins' and a 'complex radioactive dike'. These locations were noted in Harrison's work, followed up by the 2011 program and found to be radioactively and geochemically anomalous. The segregation veins are described by the 2011 crew as 3-10 cm wide veins in subcrop under moss; they are very close to source and were located with the scintillometer. Fine-grained, felsic, and rusty dykes cut silicified sediments, and the scintillometer reads upwards of 15,000-16,000 cps, 0% K, 199 ppm U, and 2789 ppm Th. The radioactive dike is described above in section 7.13. The REE values for the radioactive dike lie between 0.05 and 0.14 % TREO in the early 2011 sampling, however, later detailed sampling of the dike (see results below in this section) resulted in higher values for many elements, including up to 0.44% TREO (3750 ppm TREE+Y) with HREO/TREO ratios up to 24.64. Segregation veins reach 0.42 % TREO (and 3542 ppm TREE+Y). Corresponding samples to these locations from the main data set include 11-MGB-270 (radioactive dike) and 11-MGB-267 (segregation veins).

Detailed sampling of the main dike was completed, and as seen in Table 10, there are some strongly anomalous values for Th, U, REE, Zr, Mo, Cu, Ni, Zn, and Pb (i.e., the dike runs vertically up the slope, therefore top is higher elevation, not the horizontal top). This table also shows that the top and the bottom of the dike are more enriched in REE, with the top showing 0.41 % TREO and the bottom showing 0.44 % TREO. They both also show fairly high HREO/TREO ratios (22.54 and 24.64, respectively). The top shows up to 2900 ppm Ba, and the bottom shows 5240 ppm Ba (while the middle zone shows values as low as 564 ppm Ba). Zr is overlimit twice (>10,000 ppm), whereas Th is dominantly overlimit (>1,000 ppm). Hf reaches 203 and 154 ppm Hf in the top and bottom (respectively). Sn is enriched in the top and bottom (56 and 41 ppm Sn), as is W (68 and 94 ppm W).

Conversely, the middle zone contains up to 7440 ppm V, 240 ppm Cr, 3010 ppm Mo, 182 ppm Cu, and 499 ppm Pb. Ni reaches 457 ppm and Zn reaches 3600 ppm in the bottom; Tl is the highest (at 3.20ppm) in the bottom as well.

The anomalous soils to the south of the two main creeks junction

A zone of anomalous soil samples is located just south of the main creeks' junction (i.e., the South Creek Junction Zone), just west of the large cliff outcrop (see Fig. 25). This line of samples (11-JAM-383 through-395) is consistently anomalous in TREE, As, Th and Nb, with slight elevations in Ba, Zn, Ni, and Pb. The highest anomalous values are seen in sample 11-JAM-388. This sample contains 0.05% TREO (414 ppm TREE+Y), 965 ppm V, 203 ppm Cu, 2397 ppm Zn, 40 ppm Co, 152 ppm U, 324 ppm As, 1128 ppm Ni, 7.3 ppm Tl. This is the highest Tl value of any soil on the property (Tl can be a correlative element to Au). Sample 11-JAM-386 (100 m away) also contains 11,513 ppm Ba.

This area is a good candidate for early season hand trenching as it registered mildly anomalous with the scintillometer and is covered by vegetation and relatively thin overburden. It is unlikely that this represents a downslope migration of prospective elements from the main complex, as topography would suggest that would migrate to the creek or further south. This anomaly also lies in a direct line between the main complex and the sill, and also lies on trend with the continuity of stratigraphy (of which the sill is inferred to conform to). Thus, it may be possible that this zone represents more of the tinguaitite under the overburden.

The tinguaita sill extension to the west

Mapping and scintillometer surveying has shown that the sill is more extensive than previously thought. Geochemically, rock samples are not extremely anomalous but are consistently elevated between 0.11 and 0.26% TREO (up to 2231 ppm TREE+Y) with variable HREO/TREO values. The sill material, “tinguaite”, is described as medium to dark greenish-grey with a fine-grained aphanitic (sometimes vesicular) matrix and subhedral phenocrysts, likely plagioclase and amphibole (rare). It tends to be eudialyte-bearing (glassy masses or interstitial orange-red grains) and can contain strontianite (fine, beige, radiating masses of needles, about 3 mm long).

The sill tinguaita is also anomalous in Be (up to 519 ppm), Hf (up to 116 ppm), Zr (up to 6935 ppm), Nb (up to 1890 ppm), Sn (up to 19 ppm), W (up to 57 ppm), and Ta (up to 54 ppm) in comparison to the other rocks (see sample 11-BSW-135, for example). These values are not as elevated as those seen in the ‘complex radioactive dike’ or the ‘segregation vein’ rocks, but the volume and consistency are things to keep in mind with respect to prospectivity. Silt samples taken from streams draining off the main area of the newly discovered zone of tinguaita, show values up to 225 ppm Mo, 140 ppm Co, 2720 ppm Zn, and 1039 ppm Ni (silt sample 11-JAM-008). As mentioned above, the highest Hf, Zr, Ta and Nb in soil samples were found sample 11-JAM-019 (located near the new area of tinguaita sill), which contained 1038 ppm Zr, 21 ppm Hf, 11ppm Ta, and 301 ppm Nb.

Base metal and other anomalous assay results

Several samples showed elevated Ba, Pb-Zn, and other elements such as W, Mo, and V. While the Ting area was historically looked at for its base-metal potential, the zones of base-metal anomalies are not correlative with REE mineralization in most cases, and as such, have largely been relocated to lower priority by the 2010 and 2011 programs. Nonetheless, some encouraging anomalies do stand out.

Sample 11-MGB-207 is found in the foyaite zones of the main complex, just to the southwest of 2011 camp. The sample was float, but is believed to be close to source, and registered over 5,000 cps and over 1000 ppm Th on the scintillometer. It contains 162 ppm Cs, 109 ppm Ga, 97 ppm Hf, 1520 ppm Nb, 1427 ppm U, (overlimit)>10,000 ppm Th, 8012 ppm Zr, 2512 ppm Zn, 1113 ppm Pb, and minor kicks for Co, Cd, Ag, Bi, and Sb. Nearby, in what is described as an alteration zone veined foyaite unit, sample 11-MGB-208 registers 105 ppm W, and 567 ppm As. This could represent a late enrichment of many elements via hydrothermal overprinting on an already enriched foyaite zone.

Sample 11-MGB-176 is found in brecciated Road River sediments in a small 'raft' of host rocks in the core of the main complex. These rocks are crosscut by felsic veins and are altered to chlorite. This sample contains 13,140 ppm Ba and 1,769 ppm V.

Samples 11-AAB-0293 and 11-AAB-0294 show values of 934 ppm Mo, and 16,088 ppm Ba, respectively. Both of these samples are located very close to the contact with the main syenite complex (on the north side of the north hill), and are found in an area which appears skarned, or hydrothermally altered. The host rocks in this area are limey, and thus it is possible that contact metamorphism is inducing skarn or vein-type mineralization of base metals, V, and Ba.

The rock, silt, and soil samples from the area around the radioactive dike are also anomalous in Ni, Pb, Zn, As, Mo and Cu. For example, 11-JAM-005 (a silt sample, just downslope from the area) contains 145 ppm As, while rock samples around the dike show values up to 93 ppm Cu, 2910 ppm Zn, 272 ppm Ni, 154 ppm Pb, 585 ppm Mo, and 22 ppm Cd. Soil samples in the area show values up to 860 ppm Zn, 300 ppm Pb, and 173 ppm As.

8. Conclusions and Recommendations

Results from work in 2011 warrant further exploration on the early stage Ting Project. Assay results of REE between 0.11 and 0.26% TREO (up to 2231 ppm TREE+Y) for the tinguaita sill; up to 0.16 wt. % TREO+Y and relatively high HREO/TREO ratios (up to 15.05) for the main complex; up to 0.42 % TREO for the segregation veins and 0.44 % TREO (and up to 24.64 HREO/TREO ratios) for the radioactive dike, warrant further exploration in the form of diamond drilling of the main intrusion and the sill location, as well as hand trenching over new soil geochemical anomalies to locate new targets within the claim block. Prospecting and initial mineralogical and geochemical investigations confirmed the existence of rare earth element minerals in more than one rock type. Mineral hosts for rare earth elements have been determined to include eudialyte, rinkite, britholite and possibly monazite, xenotime, and zircon.

Other elements, such as Mo, Pb, Zn, Ba, Nb/Ta and Hf/Zr, are prospective in several zones on the claims. These zones, many of which are new, should be examined in more detail.

The following are recommended to better assess the mineralization present at the Ting Property:

- Systematically conduct:
 - o Additional scintillometer surveys on foot to locate more detailed radiometric zones.
 - o Additional soil surveys over radiometric anomalies identified in 2011
 - o Hand trenching over radiometric and soil geochemical anomalies identified in 2011, as well as more detailed study of the radioactive dike zones and segregation veins.
 - o An airborne radiometric-magnetic survey over the entire claim block to identify and prioritize zones with positive geophysical responses.
 - o A diamond drilling program over the known mineralized zones of the main intrusive as well as the sill location.
- Conduct additional mineralogical and petrographic studies for all styles of mineralization, including Heavy Mineral Concentrate investigations of samples taken from creeks on the property and adjacent to the claim block.

The execution of these recommendations will result in (1) the possible discovery of new targets, (2) a better understanding of the complex geological setting, (3) a more complete view of grade distribution at surface, and (4) an assessment of the three dimensional geometry and continuity of mineralized zones.

Statement of Qualifications

I, Allison Brand, graduated from The University of British Columbia in 2006 with a B.Sc. in geology (Honours) and in 2009 with an M.Sc. in Geology. I have practiced my profession as a geologist since 2006 and have worked on mineral exploration projects throughout Canada.

Allison Brand, M.Sc.

Statement of Expenditures

June 13-July 4, 2011 (22 days/ 93 person days)	Total
Field Wages (2 specialized geologists for 22 and 11 days, 1 senior geologist for 22 days, two senior labourers for 10 days), note: also 10 person days for 2 non-paid visitors	\$59,125.00
Helicopter	\$80,718.75
Helicopter Fuel	\$388.77
Truck Rental	\$2,464.00
Equipment rental (satellite phone, spectrometer, etc.)	\$7,920.00
Daily Field Expenses (@\$100 / person-day)	\$9,300.00
Shipping (Greyhound)	319.45
Total Cost	\$160,235.97

July 5-11, Aug. 4-6, 2011 (11 days/ 44 person days)	Total
Field Wages (1 specialized geologist for 11 days, 1 senior geologist for 15 days, one senior labourer for 11 days, and one junior labourer for 3 days), note: 3 person days for 1 non-paid visitor	\$17,375.00
Report Writing and Interpretation (5 days @ 625 / day)	\$3,125.00
Helicopter	25,980.24
Helicopter Fuel	852.15
Truck Rental	\$1,232.00
Equipment rental (satellite phone, spectrometer, etc.)	\$3,960.00
Daily Field Expenses (@\$100 / person-day)	\$4,400.00
Assays – Acme Labs Ltd. (Vancouver, BC)	\$23,786.69
Total Cost	\$80,711.08

Overall total: \$240,947.05

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Assay Certificates



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Client: Mackevoy Geosciences

537 Kenneth Street
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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: June 28, 2011

Report Date: August 10, 2011

Page: 1 of 6

CERTIFICATE OF ANALYSIS

VAN11002820.1

CLIENT JOB INFORMATION

Project: TING PROP
Shipment ID: Greyhound 5173677532
P.O. Number
Number of Samples: 126

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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: Harsbo Minerals Ltd.
4758 Victory Street
Burnaby BC V5J 1S2
Canada

CC: Lee A. Groat
Michael Burns
Thomas Hasek

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	126	Dry at 60C			VAN
SS80	126	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	126	Saving all or part of Soil Reject			VAN
4B02	126	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	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: TING PROP

Report Date: August 10, 2011

Page: 2 of 6 Part 1

CERTIFICATE OF ANALYSIS

VAN11002820.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr
		ppm 1	ppm 1	ppm 0.2	ppm 0.1	ppm 0.5	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.5	ppm 0.1	ppm 0.2	ppm 0.1	ppm 8	ppm 0.5	ppm 0.1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 0.02
11-AAB-0123	Soil	530	<1	3.5	5.8	12.7	5.5	7.9	107.2	1	119.1	0.6	8.4	13.7	131	0.9	217.3	64.5	46.3	54.0	10.45
11-AAB-0139	Soil	636	2	5.7	2.9	10.6	8.3	18.9	80.1	1	75.4	1.2	9.4	2.7	112	1.3	382.7	20.5	31.4	59.4	7.00
11-AAB-0109	Soil	559	2	13.4	3.7	11.7	7.2	14.2	74.2	1	73.2	0.7	9.5	2.7	113	1.1	295.0	26.0	29.5	57.3	6.80
11-AAB-0108	Soil	693	2	13.0	4.4	13.7	7.2	29.7	84.0	2	185.2	1.7	10.8	4.3	109	1.7	333.0	27.1	39.0	68.3	7.98
11-AAB-0148	Soil	2333	2	22.6	5.5	14.0	7.8	13.9	94.6	2	87.0	1.1	11.8	4.2	211	1.6	325.8	35.7	40.7	73.6	9.22
11-AAB-0106	Soil	504	2	12.4	3.8	10.5	6.9	14.5	70.3	1	88.2	0.8	9.8	2.9	112	1.7	258.0	26.8	29.2	54.0	6.68
11-AAB-0136	Soil	364	<1	1.3	1.9	10.1	11.1	18.8	44.3	2	70.4	1.3	7.3	3.1	80	2.8	396.6	21.2	30.4	53.5	6.55
11-AAB-0152	Soil	9456	<1	7.2	2.1	5.5	6.4	8.0	38.4	<1	69.2	0.5	9.3	2.5	152	0.6	249.3	21.5	129.6	286.6	41.85
11-AAB-0132	Soil	575	<1	2.3	1.9	10.5	8.3	11.4	45.3	2	244.3	0.9	5.9	3.3	59	1.5	305.9	17.7	26.1	43.6	5.41
11-AAB-0127	Soil	940	2	18.4	6.8	17.0	6.0	15.9	104.7	2	125.8	1.2	11.6	3.6	181	2.1	223.3	31.2	38.0	75.5	9.10
11-AAB-0117	Soil	241	<1	5.9	2.2	5.6	20.1	9.6	35.4	1	77.2	0.9	6.0	3.8	62	0.8	810.1	21.7	22.2	39.0	5.10
11-AAB-0145	Soil	493	<1	3.2	1.4	3.3	8.0	9.7	33.9	<1	58.3	0.9	4.7	1.7	89	3.4	303.0	12.4	18.1	33.8	3.92
11-AAB-0113	Soil	363	<1	8.1	2.9	10.9	10.7	8.4	38.8	2	85.6	0.7	6.4	2.7	105	0.9	434.1	19.8	22.4	41.4	5.37
11-AAB-0138	Soil	360	<1	4.3	1.8	5.5	6.3	10.6	39.8	1	63.0	0.7	5.2	1.8	68	0.9	242.2	12.6	17.8	35.1	4.18
11-AAB-0144	Soil	596	<1	3.3	1.4	5.3	5.3	10.9	34.3	<1	62.1	0.8	3.7	1.8	91	1.0	205.4	11.3	19.0	35.9	4.24
11-AAB-0118	Soil	152	<1	2.2	1.5	4.2	15.0	6.4	23.9	1	51.9	0.4	3.7	2.9	47	0.8	592.9	16.6	15.4	24.5	3.54
11-AAB-0140	Soil	755	<1	7.3	2.4	7.3	6.1	10.4	47.6	1	84.3	0.8	5.7	2.6	139	0.9	236.8	17.3	21.5	41.7	5.08
11-AAB-0137	Soil	503	<1	5.2	2.8	9.2	7.3	14.6	68.0	1	71.6	0.9	6.5	2.0	65	0.9	277.7	15.5	23.7	45.7	5.50
11-AAB-0149	Soil	1372	<1	7.4	4.0	10.6	6.1	14.7	70.1	2	74.8	1.0	8.6	2.8	160	1.2	254.5	21.5	33.6	64.3	7.65
11-AAB-0150	Soil	2839	<1	9.3	1.8	8.0	7.5	7.7	42.0	1	62.9	0.5	5.6	2.4	94	0.8	306.2	18.5	22.7	43.1	5.34
11-AAB-0155	Soil	5904	<1	9.0	4.4	11.6	5.9	11.0	77.1	2	77.9	0.9	8.8	7.7	400	1.4	243.3	23.4	35.0	62.1	7.82
11-AAB-0126	Soil	769	3	9.8	4.1	10.0	8.5	15.2	68.8	2	113.0	1.1	8.6	4.0	124	1.2	310.4	22.5	28.3	54.1	6.56
11-AAB-0121	Soil	201	<1	4.5	2.5	8.0	25.3	9.3	37.0	2	86.7	0.7	8.2	3.9	81	1.1	936.2	22.9	22.9	40.9	5.30
11-AAB-0110	Soil	352	1	3.5	3.0	7.1	10.8	13.7	51.8	<1	79.0	0.9	6.7	4.8	67	1.6	426.4	24.4	23.4	39.9	5.13
11-AAB-0143	Soil	1031	<1	3.8	1.8	5.4	3.9	7.6	36.9	<1	56.4	0.5	5.4	1.9	100	0.6	146.1	12.7	18.6	35.3	4.18
11-AAB-0154	Soil	3167	<1	5.2	4.8	10.8	4.6	11.4	82.6	1	55.0	0.8	6.6	5.1	567	1.0	184.4	21.6	25.7	45.8	5.89
11-AAB-0124	Soil	707	1	12.5	4.0	13.2	6.2	20.9	80.3	2	143.6	1.3	8.9	3.6	138	1.3	236.4	25.0	32.0	61.5	7.19
11-AAB-0116	Soil	186	1	3.8	1.7	5.5	10.6	7.0	27.8	<1	67.8	0.5	4.3	2.3	59	0.7	427.9	21.9	17.1	28.9	4.00
11-BSW-166	Soil	604	<1	6.4	1.8	12.5	8.8	20.2	54.6	2	82.2	1.4	7.6	2.6	96	1.5	348.7	15.6	27.3	54.1	6.09
11-BSW-161	Soil	403	2	12.3	2.9	15.7	9.4	40.9	78.5	2	46.8	2.7	11.3	3.7	121	1.9	386.9	20.5	35.3	87.3	7.77



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-AAB-0123	Soil	42.3	8.03	1.83	8.29	1.28	7.88	1.66	4.75	0.66	4.17	0.65	1.4	29.3	8.7	230	61.2	5.8	4.1	0.1
11-AAB-0139	Soil	24.2	4.42	0.78	3.65	0.57	3.27	0.64	1.93	0.30	1.98	0.29	0.8	9.7	15.1	104	16.2	5.0	1.2	0.6
11-AAB-0109	Soil	25.3	5.05	1.10	4.75	0.72	4.37	0.86	2.41	0.37	2.59	0.35	1.2	18.7	16.1	98	30.7	8.5	0.6	0.1
11-AAB-0108	Soil	28.8	5.10	1.14	4.43	0.73	4.31	0.88	2.50	0.38	2.57	0.36	3.8	16.4	11.0	145	44.8	8.1	0.9	0.1
11-AAB-0148	Soil	34.7	6.35	1.29	5.77	0.95	5.00	1.17	3.27	0.49	3.47	0.51	6.1	30.8	13.7	409	93.6	11.9	2.6	0.5
11-AAB-0106	Soil	24.0	4.92	1.09	4.46	0.79	4.37	0.93	2.74	0.36	2.46	0.36	1.5	20.8	14.2	99	32.5	7.8	0.6	0.2
11-AAB-0136	Soil	21.6	3.89	0.68	2.89	0.51	3.23	0.72	2.25	0.33	2.36	0.37	2.8	3.1	7.7	19	4.4	5.0	<0.1	<0.1
11-AAB-0152	Soil	169.7	34.01	4.54	14.92	1.21	4.43	0.64	1.48	0.26	1.92	0.28	3.1	13.4	12.2	136	24.5	8.2	1.3	1.0
11-AAB-0132	Soil	18.4	3.16	0.70	2.66	0.42	2.65	0.51	1.54	0.23	1.66	0.27	0.7	3.1	6.0	17	2.8	0.7	0.6	<0.1
11-AAB-0127	Soil	33.6	6.37	1.37	5.68	0.91	5.47	1.07	3.07	0.42	3.25	0.48	1.0	26.7	19.0	102	27.2	11.8	0.2	<0.1
11-AAB-0117	Soil	17.1	3.51	0.71	3.26	0.54	3.24	0.68	2.06	0.35	2.33	0.36	0.6	4.5	6.0	45	10.6	3.5	0.5	<0.1
11-AAB-0145	Soil	14.0	2.33	0.54	2.33	0.35	1.94	0.40	1.20	0.19	1.38	0.20	0.8	5.3	8.5	37	8.7	6.6	0.3	0.5
11-AAB-0113	Soil	20.3	3.71	0.81	3.35	0.56	3.02	0.66	2.06	0.34	2.07	0.36	0.9	8.8	11.7	58	21.3	10.3	0.2	0.1
11-AAB-0138	Soil	15.7	2.78	0.57	2.39	0.39	2.12	0.44	1.31	0.21	1.21	0.23	0.7	6.3	9.7	41	9.5	5.8	0.3	0.5
11-AAB-0144	Soil	16.8	2.66	0.57	2.21	0.37	1.96	0.40	1.15	0.19	1.07	0.19	1.1	5.2	10.3	38	7.5	5.9	0.4	0.7
11-AAB-0118	Soil	14.3	2.46	0.54	2.30	0.39	2.33	0.50	1.62	0.27	1.77	0.31	1.1	4.9	4.1	46	12.2	3.2	0.4	0.1
11-AAB-0140	Soil	18.9	3.48	0.70	3.16	0.51	2.83	0.58	1.72	0.28	1.78	0.28	2.8	13.9	10.9	106	26.2	7.7	1.1	0.9
11-AAB-0137	Soil	20.5	3.62	0.76	3.09	0.47	2.51	0.54	1.56	0.26	1.55	0.26	0.5	8.2	11.0	56	13.6	4.2	0.3	0.4
11-AAB-0149	Soil	27.7	5.07	0.93	3.94	0.64	3.37	0.69	2.02	0.32	2.07	0.32	1.1	13.2	15.5	112	17.0	7.4	0.7	0.7
11-AAB-0150	Soil	20.6	3.57	0.66	3.25	0.52	2.93	0.62	1.89	0.29	1.77	0.29	2.2	15.2	8.6	122	24.5	7.6	0.3	0.3
11-AAB-0155	Soil	29.8	5.24	0.98	4.37	0.67	3.82	0.79	2.36	0.36	2.40	0.36	8.0	23.1	11.8	249	33.7	9.7	2.4	1.4
11-AAB-0126	Soil	25.5	4.57	1.00	4.14	0.68	3.86	0.80	2.40	0.37	2.38	0.38	1.1	16.3	12.0	81	23.2	7.7	0.2	<0.1
11-AAB-0121	Soil	19.8	3.68	0.70	3.50	0.58	3.57	0.77	2.56	0.41	2.85	0.48	0.7	6.2	6.7	55	15.7	5.6	0.4	0.1
11-AAB-0110	Soil	20.1	3.93	0.82	3.88	0.60	3.50	0.74	2.19	0.34	2.27	0.36	1.5	9.2	7.5	66	17.3	3.7	0.8	0.1
11-AAB-0143	Soil	15.5	2.80	0.54	2.44	0.39	2.29	0.43	1.28	0.20	1.21	0.21	1.3	8.8	9.1	59	12.1	6.9	0.5	0.6
11-AAB-0154	Soil	22.2	4.08	0.78	3.49	0.52	3.08	0.63	1.87	0.29	1.81	0.30	8.1	31.5	13.4	563	62.5	12.7	9.6	3.0
11-AAB-0124	Soil	27.5	4.94	1.06	4.45	0.71	3.91	0.82	2.41	0.37	2.44	0.36	1.5	19.8	13.8	89	29.8	8.6	0.4	0.1
11-AAB-0116	Soil	15.0	2.82	0.59	2.79	0.46	2.91	0.61	1.85	0.29	2.01	0.33	1.2	5.7	5.1	52	13.4	4.1	0.5	0.1
11-BSW-166	Soil	22.0	3.52	0.63	2.73	0.42	2.50	0.53	1.61	0.26	1.76	0.28	0.9	5.3	12.7	44	14.0	6.2	<0.1	0.2
11-BSW-161	Soil	29.0	4.96	1.11	4.13	0.68	3.79	0.77	2.25	0.37	2.30	0.35	1.4	11.5	15.2	41	25.9	12.3	0.1	0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-AAB-0123	Soil	0.6	1.4	0.29	0.5	3.0
11-AAB-0139	Soil	0.1	0.9	0.05	0.1	<0.5
11-AAB-0109	Soil	<0.1	1.3	0.03	<0.1	0.5
11-AAB-0108	Soil	0.2	1.0	0.12	0.2	3.4
11-AAB-0148	Soil	0.4	1.7	0.07	0.2	2.0
11-AAB-0106	Soil	<0.1	1.3	0.04	0.1	0.8
11-AAB-0136	Soil	<0.1	<0.5	<0.01	<0.1	0.6
11-AAB-0152	Soil	0.2	1.4	0.04	<0.1	1.3
11-AAB-0132	Soil	0.1	<0.5	0.01	<0.1	<0.5
11-AAB-0127	Soil	0.1	0.5	0.04	<0.1	0.6
11-AAB-0117	Soil	<0.1	<0.5	0.03	<0.1	1.0
11-AAB-0145	Soil	<0.1	<0.5	0.02	<0.1	0.6
11-AAB-0113	Soil	0.2	<0.5	0.03	<0.1	1.4
11-AAB-0138	Soil	<0.1	1.1	0.04	<0.1	<0.5
11-AAB-0144	Soil	<0.1	0.7	0.02	0.1	<0.5
11-AAB-0118	Soil	<0.1	0.6	0.02	<0.1	0.9
11-AAB-0140	Soil	0.2	1.5	0.06	0.2	0.7
11-AAB-0137	Soil	<0.1	1.1	0.05	0.1	1.1
11-AAB-0149	Soil	0.2	2.0	0.10	0.1	1.2
11-AAB-0150	Soil	0.1	<0.5	0.03	<0.1	1.4
11-AAB-0155	Soil	0.7	1.3	0.15	0.4	2.3
11-AAB-0126	Soil	0.1	0.5	0.04	<0.1	0.9
11-AAB-0121	Soil	0.2	3.9	0.03	<0.1	1.4
11-AAB-0110	Soil	0.1	1.7	0.13	0.2	2.3
11-AAB-0143	Soil	0.1	<0.5	0.04	0.1	0.9
11-AAB-0154	Soil	0.7	1.8	0.12	1.1	3.0
11-AAB-0124	Soil	0.2	1.0	0.05	0.1	1.6
11-AAB-0116	Soil	<0.1	<0.5	0.02	<0.1	1.1
11-BSW-166	Soil	<0.1	<0.5	<0.01	0.1	<0.5
11-BSW-161	Soil	<0.1	<0.5	0.01	0.1	<0.5



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-JAM-005	Soil	3384	2	11.0	5.5	11.2	5.1	21.2	80.7	2	102.8	1.2	9.7	14.3	596	4.9	215.3	29.5	33.3
11-JAM-011	Soil	11694	4	4.6	9.4	12.8	4.2	30.0	97.4	2	78.1	1.6	11.1	25.4	1081	2.8	214.1	40.8	35.1
11-JAM-031	Soil	3115	2	10.0	5.4	11.9	5.6	27.8	75.1	7	90.5	1.3	11.4	4.8	291	1.7	219.0	30.4	33.4
11-JAM-006	Soil	15	2	13.3	<0.1	<0.5	<0.1	<0.1	<0.1	<1	1.2	<0.1	<0.2	6.3	<8	<0.5	0.4	47.0	2.0
11-JAM-007	Soil	4166	2	16.6	4.8	10.2	4.8	29.5	93.8	1	59.3	1.3	10.0	5.9	314	1.0	197.1	22.2	36.8
11-MGB-173	Soil	753	<1	17.0	0.8	2.6	6.6	4.4	14.4	<1	28.0	0.3	3.1	1.4	62	<0.5	286.4	13.8	11.1
11-MGB-159	Soil	3235	2	11.3	3.8	9.0	4.7	12.8	69.9	1	103.7	0.7	6.4	6.3	376	1.0	187.0	23.1	28.8
11-MGB-138	Soil	355	1	10.1	3.1	11.0	8.3	10.4	49.4	2	94.2	0.7	6.6	2.8	114	0.9	336.5	21.8	24.9
11-MGB-123	Soil	601	2	5.4	3.1	10.2	6.7	44.9	62.0	1	289.3	2.2	10.0	3.7	87	2.3	301.0	21.2	47.7
11-MGB-168	Soil	2620	1	6.5	3.0	7.7	13.0	18.9	51.4	2	56.7	1.2	8.7	4.0	183	1.6	513.7	27.3	34.2
11-MGB-134	Soil	2177	<1	4.8	2.2	5.8	10.5	8.3	37.3	<1	87.3	0.5	4.6	2.5	132	0.5	420.9	16.7	16.7
11-MGB-164	Soil	6428	2	9.5	4.4	8.1	6.0	22.5	72.8	<1	79.2	1.2	10.0	5.8	316	1.6	253.4	23.6	36.6
11-MGB-135	Soil	844	3	9.2	3.8	10.4	9.2	14.0	60.6	1	95.9	0.9	7.3	3.2	130	1.2	353.8	24.9	26.5
11-MGB-171	Soil	7448	1	17.7	2.6	6.8	6.9	8.4	60.9	<1	50.1	0.6	5.1	5.3	381	0.7	310.3	21.5	27.2
11-MGB-172	Soil	990	<1	9.4	1.5	5.3	7.8	7.8	28.5	<1	34.6	0.5	4.7	2.4	162	0.7	353.1	13.7	17.3
11-MGB-161	Soil	3409	2	9.1	4.0	10.2	5.0	13.1	71.7	1	106.3	0.8	6.1	5.8	391	1.0	206.4	23.4	31.8
11-MGB-149	Soil	2204	1	5.0	3.8	8.9	10.9	16.1	56.7	1	65.0	0.8	7.4	3.0	148	0.6	479.7	17.6	20.2
11-MGB-169	Soil	10386	1	5.8	2.8	7.2	10.4	12.3	49.0	<1	68.5	0.9	6.4	4.9	315	1.0	450.9	25.0	48.9
11-MGB-166	Soil	5463	1	1.7	6.5	14.5	2.9	7.7	94.8	2	112.3	0.5	8.6	9.4	571	1.0	98.7	21.7	31.2
11-MGB-143	Soil	194	<1	2.1	0.9	3.1	8.2	4.0	14.1	<1	40.5	0.2	2.6	1.3	42	<0.5	331.6	9.4	9.7
11-MGB-170	Soil	4622	<1	20.8	4.6	9.1	2.5	5.3	64.6	1	57.3	0.3	6.0	13.1	496	0.8	97.8	29.9	19.1
11-MGB-132	Soil	689	<1	8.4	3.4	9.7	5.3	12.1	53.3	2	96.6	0.7	7.2	2.8	126	1.1	187.4	22.0	25.4
11-MGB-139	Soil	275	<1	3.3	1.7	5.1	10.2	7.0	27.6	<1	49.7	0.3	4.7	2.0	60	0.7	388.5	13.4	16.0
11-MGB-141	Soil	292	<1	5.4	3.1	8.2	20.9	10.4	36.2	1	93.3	0.8	7.1	3.1	79	0.7	831.4	23.6	21.8
11-MGB-126	Soil	761	<1	11.8	4.6	13.5	5.1	13.4	75.5	2	113.0	0.8	10.8	3.3	148	1.3	187.1	26.7	31.3
11-MGB-150	Soil	279	<1	5.4	2.6	6.7	11.6	7.6	39.8	<1	66.0	0.5	6.0	3.6	70	0.9	438.7	25.8	21.7
11-MGB-130	Soil	604	<1	11.2	3.7	9.7	5.4	10.7	62.9	<1	94.8	0.8	8.7	3.6	123	1.0	198.8	25.7	26.6
11-MGB-127	Soil	948	<1	6.6	3.0	10.0	9.5	14.3	47.8	2	107.8	0.9	8.1	3.2	130	1.1	361.0	22.8	28.7
11-MGB-165	Soil	1515	4	17.7	4.5	3.6	1.4	3.9	21.9	<1	20.1	0.2	2.7	11.2	324	<0.5	55.6	170.9	8.7
11-MGB-162	Soil	1991	1	10.0	3.8	9.2	4.0	12.2	65.5	1	102.2	0.8	7.2	6.7	309	0.8	161.6	23.4	27.2



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	Method Analyte	Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
			Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
11-JAM-005	Soil		26.8	4.92	0.98	4.63	0.69	3.97	0.84	2.45	0.39	2.56	0.41	11.1	24.7	52.4	602	139.2	145.5	6.5
11-JAM-011	Soil		27.4	5.32	1.06	5.43	0.88	5.39	1.21	3.62	0.57	3.61	0.55	335.8	31.6	20.0	501	120.5	191.9	1.7
11-JAM-031	Soil		27.8	5.34	1.10	4.97	0.78	4.56	0.92	2.74	0.40	2.61	0.40	13.1	43.8	15.4	306	70.3	24.3	2.7
11-JAM-006	Soil		1.8	0.77	0.31	2.97	0.48	3.24	0.87	2.76	0.39	1.99	0.35	15.8	0.5	0.3	1684	60.7	20.3	0.5
11-JAM-007	Soil		27.7	4.79	0.85	3.88	0.56	3.18	0.64	1.97	0.30	1.93	0.33	20.9	22.2	12.1	644	117.8	31.2	4.4
11-MGB-173	Soil		12.1	2.35	0.50	2.40	0.39	2.34	0.48	1.43	0.22	1.48	0.23	6.5	5.0	2.9	196	16.2	19.4	0.5
11-MGB-159	Soil		25.4	4.66	0.81	3.73	0.57	3.31	0.66	2.04	0.29	1.94	0.30	21.7	29.8	23.3	710	183.8	39.5	5.8
11-MGB-138	Soil		22.6	4.04	0.85	3.53	0.58	3.45	0.71	2.12	0.32	2.20	0.33	1.4	10.8	14.3	95	24.7	11.2	0.4
11-MGB-123	Soil		29.9	4.85	1.07	3.98	0.56	3.17	0.64	1.92	0.29	1.87	0.29	1.9	7.6	9.6	63	17.6	5.9	0.4
11-MGB-168	Soil		29.7	5.14	0.97	4.40	0.69	4.20	0.85	2.43	0.38	2.59	0.43	2.7	13.1	13.7	282	39.0	8.9	5.3
11-MGB-134	Soil		14.2	2.57	0.54	2.45	0.39	2.36	0.53	1.51	0.25	1.67	0.26	5.9	10.7	11.1	85	21.9	7.9	0.7
11-MGB-164	Soil		28.1	4.44	0.80	3.78	0.57	3.26	0.68	2.05	0.31	2.11	0.32	17.1	20.5	14.3	454	93.7	21.9	3.6
11-MGB-135	Soil		24.6	4.50	0.89	3.99	0.64	4.05	0.84	2.50	0.38	2.43	0.39	2.6	17.4	15.5	88	24.9	8.7	0.8
11-MGB-171	Soil		24.0	4.11	0.72	3.49	0.51	2.91	0.61	1.90	0.27	1.82	0.30	8.3	16.0	8.7	420	81.9	27.4	7.2
11-MGB-172	Soil		17.1	3.02	0.53	2.40	0.37	2.18	0.43	1.33	0.21	1.37	0.22	6.9	6.8	4.9	113	10.6	15.1	0.3
11-MGB-161	Soil		27.1	4.75	0.86	3.82	0.58	3.32	0.67	2.02	0.30	1.87	0.30	22.2	25.6	16.4	457	106.9	29.9	3.8
11-MGB-149	Soil		17.5	3.31	0.63	3.07	0.48	2.90	0.62	1.80	0.29	1.92	0.32	3.8	9.4	8.1	57	19.1	14.1	0.2
11-MGB-169	Soil		39.8	6.05	0.98	4.47	0.63	3.71	0.75	2.28	0.35	2.39	0.38	16.7	18.8	9.6	243	53.0	15.3	3.0
11-MGB-166	Soil		30.1	5.33	1.25	4.15	0.62	3.34	0.64	1.95	0.31	1.86	0.28	50.8	43.6	13.9	59	15.0	35.8	0.5
11-MGB-143	Soil		7.9	1.43	0.28	1.18	0.20	1.27	0.28	0.93	0.17	1.01	0.17	0.4	2.2	2.3	25	5.4	1.4	0.2
11-MGB-170	Soil		20.0	4.11	1.04	4.40	0.70	3.97	0.91	2.62	0.40	2.59	0.41	26.8	27.4	7.4	550	113.6	52.5	5.1
11-MGB-132	Soil		22.4	4.09	0.86	3.55	0.59	3.16	0.73	2.07	0.31	1.86	0.30	2.8	16.4	16.8	81	24.0	8.9	0.6
11-MGB-139	Soil		12.8	2.35	0.44	1.94	0.33	1.93	0.41	1.39	0.21	1.38	0.22	0.4	5.1	7.3	49	9.2	3.7	0.4
11-MGB-141	Soil		19.5	3.62	0.75	3.31	0.58	3.35	0.72	2.33	0.36	2.44	0.41	0.8	8.2	8.9	94	19.4	9.3	1.0
11-MGB-126	Soil		27.5	5.02	1.10	4.46	0.74	4.05	0.85	2.56	0.40	2.46	0.39	2.1	21.2	15.8	104	29.8	10.5	0.7
11-MGB-150	Soil		20.3	3.76	0.88	3.45	0.60	3.65	0.79	2.46	0.35	2.35	0.38	0.9	6.0	5.8	64	13.8	3.7	0.8
11-MGB-130	Soil		23.1	4.62	1.00	4.12	0.70	4.17	0.81	2.41	0.36	2.34	0.35	1.7	18.6	15.7	132	38.1	9.5	1.1
11-MGB-127	Soil		22.8	3.97	0.89	3.56	0.57	3.30	0.69	2.22	0.33	2.11	0.36	2.4	11.6	14.7	90	25.3	10.5	0.9
11-MGB-165	Soil		9.5	3.24	1.21	8.23	1.52	10.13	2.78	8.92	1.34	8.48	1.62	103.1	13.8	3.7	907	89.4	76.2	3.6
11-MGB-162	Soil		21.4	4.00	0.87	3.52	0.59	3.29	0.68	2.04	0.30	2.00	0.32	19.2	23.8	15.7	353	90.2	28.5	3.0



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-005	Soil	0.7	1.5	0.18	0.8	6.3
11-JAM-011	Soil	0.3	1.1	0.27	1.3	5.7
11-JAM-031	Soil	0.3	1.0	0.18	0.7	1.4
11-JAM-006	Soil	<0.1	<0.5	<0.01	0.3	<0.5
11-JAM-007	Soil	0.4	1.3	0.12	1.0	3.0
11-MGB-173	Soil	0.1	1.4	0.06	<0.1	0.8
11-MGB-159	Soil	0.5	<0.5	0.21	1.1	3.5
11-MGB-138	Soil	0.2	<0.5	0.03	<0.1	1.4
11-MGB-123	Soil	0.1	<0.5	0.06	0.1	0.9
11-MGB-168	Soil	0.3	<0.5	0.12	0.3	1.8
11-MGB-134	Soil	0.1	<0.5	0.04	0.2	1.2
11-MGB-164	Soil	0.3	<0.5	0.15	0.9	2.8
11-MGB-135	Soil	0.1	0.7	0.04	0.2	1.2
11-MGB-171	Soil	0.3	<0.5	0.11	0.7	2.5
11-MGB-172	Soil	0.2	0.5	0.05	0.1	1.1
11-MGB-161	Soil	0.3	0.6	0.14	1.0	3.4
11-MGB-149	Soil	0.4	0.9	0.11	0.2	2.0
11-MGB-169	Soil	0.2	<0.5	0.07	0.9	2.9
11-MGB-166	Soil	1.2	<0.5	0.18	2.1	10.0
11-MGB-143	Soil	0.1	<0.5	0.01	<0.1	<0.5
11-MGB-170	Soil	1.0	0.8	0.21	0.8	11.1
11-MGB-132	Soil	0.2	1.1	0.05	0.1	1.4
11-MGB-139	Soil	0.1	<0.5	0.02	<0.1	<0.5
11-MGB-141	Soil	0.3	0.6	0.05	<0.1	0.9
11-MGB-126	Soil	0.2	<0.5	0.05	0.1	1.8
11-MGB-150	Soil	0.1	0.9	0.04	0.1	0.7
11-MGB-130	Soil	0.2	0.8	0.06	0.1	2.6
11-MGB-127	Soil	0.2	1.0	0.26	0.2	1.9
11-MGB-165	Soil	0.4	2.1	0.11	1.4	2.0
11-MGB-162	Soil	0.4	1.0	0.11	0.7	3.3



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	Method	Analyte	Unit	MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B					
					Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr		
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
					1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.1	0.02
11-MGB-128	Soil				307	<1	3.7	2.6	6.8	8.6	8.4	47.8	1	65.7	0.5	6.1	6.5	82	1.0	341.9	31.1	26.2	35.2	5.75		
11-MGB-136	Soil				843	1	5.3	2.2	6.7	8.6	10.6	41.4	1	76.7	0.5	6.3	3.6	96	0.9	369.2	21.3	23.3	41.7	5.33		
11-MGB-125	Soil				502	<1	3.3	1.4	4.6	8.4	5.8	25.6	<1	50.3	0.3	3.6	1.8	62	0.5	324.2	11.5	12.6	22.6	2.72		
11-MGB-145	Soil				1216	1	17.4	3.7	11.5	6.1	9.8	55.9	1	125.1	0.7	8.4	4.3	228	0.9	246.8	31.7	29.2	49.5	6.75		
11-MGB-158	Soil				9014	2	7.1	5.3	12.3	9.5	67.4	116.3	2	113.4	3.5	18.1	10.2	361	7.1	410.4	29.7	60.8	100.4	11.92		
11-MGB-140	Soil				487	<1	5.5	2.6	7.5	9.0	8.9	44.4	1	81.2	0.5	4.7	2.9	89	0.8	350.7	20.0	21.9	36.7	4.94		
11-MGB-146	Soil				6036	<1	2.8	3.2	9.4	38.1	12.2	45.5	2	80.0	0.6	8.7	4.1	133	0.8	1493	22.1	24.6	43.1	5.49		
11-MGB-137	Soil				758	<1	3.9	1.5	4.8	10.3	10.9	29.7	1	85.6	0.7	5.8	2.4	81	0.7	392.7	17.0	20.5	37.0	4.57		
11-MGB-131	Soil				652	2	16.1	4.4	14.0	6.9	14.4	71.5	2	109.6	1.0	10.0	3.4	137	1.3	260.2	27.5	34.2	66.5	7.98		
11-MGB-156	Soil				5168	1	6.1	5.0	12.7	6.9	38.5	95.5	2	96.4	1.9	12.8	11.4	358	3.0	296.6	27.9	49.0	81.3	9.88		
11-MGB-144	Soil				217	<1	5.2	2.1	5.7	5.4	5.1	27.5	<1	95.3	0.3	3.6	1.8	48	<0.5	213.6	17.0	17.9	26.1	3.80		
11-AAB-0135	Soil				393	1	2.0	2.3	8.9	9.0	13.1	48.6	1	101.8	0.8	6.8	3.0	79	1.1	353.7	17.5	26.2	46.2	5.56		
11-AAB-0122	Soil				178	<1	2.7	2.2	6.5	15.0	7.9	31.4	1	63.9	0.6	5.8	4.0	61	1.2	550.0	16.9	18.3	31.0	4.06		
11-AAB-0134	Soil				387	<1	2.9	2.6	11.8	9.3	14.3	53.7	1	74.5	1.2	6.3	3.5	112	2.0	358.3	20.5	28.2	49.4	6.22		
11-AAB-0114	Soil				183	<1	3.4	2.3	4.4	10.7	5.7	28.2	<1	47.3	0.3	4.4	2.2	50	0.9	426.5	16.1	14.9	25.6	3.47		
11-AAB-0115	Soil				341	1	11.0	3.4	11.3	7.2	10.3	47.6	2	94.0	0.8	8.0	2.7	118	1.6	321.5	22.5	26.1	49.9	6.20		
11-AAB-0120	Soil				136	1	3.1	1.8	5.2	14.6	6.0	23.8	1	57.8	0.6	4.6	2.3	48	1.2	576.4	13.2	14.4	24.4	3.25		
11-AAB-0105	Soil				815	2	9.6	5.4	13.0	7.5	35.6	86.2	2	202.1	1.8	13.0	5.2	116	2.9	267.5	23.9	44.5	78.6	8.83		
11-AAB-0153	Soil				1431	2	8.7	3.0	7.4	8.5	18.3	79.6	2	104.0	1.2	8.6	7.7	220	4.5	308.0	24.2	32.9	63.1	7.69		
11-AAB-0103	Soil				1310	2	11.3	3.0	11.6	7.3	13.2	77.1	2	149.3	0.8	12.4	3.2	107	1.1	306.0	26.8	44.1	87.4	10.09		
11-AAB-0100	Soil				1020	4	12.4	4.0	15.8	7.4	16.1	101.5	2	135.5	1.2	14.6	3.3	110	0.5	283.4	30.4	44.2	87.4	9.85		
11-AAB-0098	Soil				755	2	9.9	3.1	12.3	11.1	15.5	72.1	3	137.6	1.4	15.7	3.9	89	<0.5	438.5	29.1	52.7	106.2	11.85		
11-AAB-0111	Soil				236	1	4.3	1.5	5.1	12.2	7.1	28.2	<1	56.4	0.5	4.6	2.1	54	<0.5	515.8	14.4	14.4	26.4	3.31		
11-AAB-0147	Soil				5786	1	7.2	3.0	8.4	4.5	9.0	53.2	1	64.5	0.7	6.0	4.4	334	<0.5	161.6	20.2	23.2	43.5	5.18		
11-AAB-0133	Soil				252	<1	1.3	1.5	6.4	11.8	11.7	35.8	1	59.6	0.8	5.5	4.0	62	<0.5	447.1	20.1	21.8	33.9	4.46		
11-AAB-0101	Soil				1082	2	10.1	2.4	11.6	9.8	13.7	76.2	2	163.8	1.0	12.4	3.2	95	<0.5	351.9	25.3	40.9	85.0	9.71		
11-AAB-0099	Soil				523	2	7.9	2.7	11.4	20.0	18.0	72.4	3	113.2	1.8	20.0	4.9	69	<0.5	773.7	39.4	65.6	137.1	15.45		
11-JAM-016	Soil				1494	2	0.7	7.2	14.4	2.9	11.0	123.5	2	17.7	0.9	5.7	5.4	229	<0.5	105.1	13.5	19.2	34.7	3.96		
11-JAM-018	Soil				1420	6	2.5	17.2	18.0	10.3	130.7	208.4	3	52.8	5.4	21.9	9.6	383	1.2	451.2	18.9	40.4	60.7	6.80		
11-JAM-026	Soil				826	3	3.3	5.2	16.4	11.6	54.5	133.4	3	114.2	2.7	15.5	5.2	243	0.5	447.9	23.4	43.0	81.9	8.97		



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-MGB-128	Soil	20.9	4.12	0.93	4.08	0.68	3.99	0.87	2.50	0.39	2.40	0.41	3.8	15.3	7.7	154	35.8	4.9	1.1	0.2
11-MGB-136	Soil	18.8	3.67	0.77	3.14	0.53	2.93	0.63	1.99	0.33	2.03	0.33	2.1	9.6	13.3	86	17.3	5.1	0.8	0.4
11-MGB-125	Soil	10.4	1.83	0.42	1.63	0.27	1.54	0.36	1.16	0.19	1.25	0.21	1.5	6.9	9.3	38	10.7	4.3	0.3	0.2
11-MGB-145	Soil	25.5	4.97	1.15	4.80	0.82	4.54	0.94	2.95	0.43	2.55	0.40	6.3	14.2	20.8	216	44.3	15.2	2.5	0.6
11-MGB-158	Soil	41.1	6.05	1.34	4.81	0.75	4.22	0.90	2.72	0.41	2.71	0.43	20.8	24.1	30.7	340	64.6	29.6	3.1	3.4
11-MGB-140	Soil	17.6	3.40	0.71	2.90	0.49	2.74	0.57	1.87	0.28	1.80	0.30	1.7	10.9	10.6	87	20.3	6.0	1.0	0.2
11-MGB-146	Soil	20.2	3.35	0.72	2.68	0.49	3.24	0.75	2.47	0.40	3.11	0.54	3.8	11.6	9.3	43	8.7	14.5	0.2	0.8
11-MGB-137	Soil	16.2	2.93	0.61	2.45	0.44	2.51	0.55	1.60	0.24	1.72	0.27	1.8	7.7	13.5	64	13.6	5.1	0.7	0.5
11-MGB-131	Soil	28.5	5.54	1.18	4.76	0.83	4.82	0.97	2.77	0.41	2.67	0.42	2.3	20.7	26.6	107	27.7	14.0	0.5	0.2
11-MGB-156	Soil	32.7	5.63	1.11	4.36	0.70	3.93	0.84	2.36	0.37	2.30	0.37	35.3	23.8	22.3	186	40.3	49.3	1.6	2.5
11-MGB-144	Soil	14.4	2.45	0.61	2.36	0.41	2.18	0.51	1.47	0.21	1.39	0.23	0.3	3.5	4.6	84	17.4	4.6	0.8	<0.1
11-AAB-0135	Soil	18.9	3.12	0.60	2.43	0.42	2.69	0.55	1.71	0.28	1.85	0.32	3.0	4.0	8.9	32	6.9	5.3	0.2	0.1
11-AAB-0122	Soil	15.0	2.68	0.52	2.19	0.39	2.15	0.61	1.52	0.29	1.89	0.34	0.8	4.9	5.2	30	9.0	4.0	0.6	0.1
11-AAB-0134	Soil	21.5	3.63	0.71	3.13	0.51	3.21	0.72	2.21	0.34	2.17	0.37	3.6	5.2	10.8	52	11.9	8.3	0.2	0.2
11-AAB-0114	Soil	12.2	2.39	0.51	2.22	0.37	2.09	0.50	1.52	0.25	1.46	0.25	1.6	8.0	5.5	90	20.7	4.0	0.6	0.1
11-AAB-0115	Soil	23.5	4.27	0.91	3.45	0.60	3.49	0.75	2.25	0.35	2.08	0.36	0.9	10.1	13.2	74	26.2	11.3	0.3	0.2
11-AAB-0120	Soil	11.9	2.35	0.43	1.69	0.32	2.02	0.52	1.35	0.22	1.53	0.26	0.4	3.6	3.8	30	8.7	3.8	0.2	<0.1
11-AAB-0105	Soil	30.6	5.42	1.24	4.63	0.73	3.93	0.80	2.34	0.37	2.35	0.37	6.3	16.0	12.2	154	49.4	11.0	1.2	0.3
11-AAB-0153	Soil	27.0	4.92	0.99	4.29	0.68	4.20	0.80	2.20	0.37	2.45	0.36	5.0	25.4	17.0	334	32.6	18.7	7.9	1.9
11-AAB-0103	Soil	37.8	6.41	1.19	5.42	0.78	4.49	0.93	2.43	0.37	2.46	0.38	1.3	24.2	12.6	127	32.7	9.7	0.8	0.8
11-AAB-0100	Soil	37.7	6.71	1.23	5.80	0.89	5.34	0.96	2.71	0.44	2.82	0.41	0.6	26.7	19.3	95	26.9	14.2	0.7	0.6
11-AAB-0098	Soil	45.5	7.69	1.41	6.30	0.89	4.95	0.96	2.83	0.44	3.09	0.43	0.7	14.5	9.4	66	19.6	14.7	0.3	0.4
11-AAB-0111	Soil	13.1	2.34	0.49	2.37	0.37	2.06	0.44	1.41	0.24	1.55	0.25	0.7	7.2	5.5	40	12.4	4.0	0.2	0.2
11-AAB-0147	Soil	21.1	3.56	0.68	3.35	0.53	3.07	0.63	1.78	0.26	1.80	0.27	5.9	16.1	10.4	165	25.4	9.2	1.8	2.1
11-AAB-0133	Soil	17.6	2.83	0.56	2.69	0.43	2.84	0.58	1.84	0.31	2.12	0.35	4.7	3.4	4.6	39	8.2	4.0	0.2	0.1
11-AAB-0101	Soil	38.5	6.50	1.22	5.48	0.81	4.46	0.83	2.44	0.38	2.62	0.37	1.0	18.1	13.5	69	21.5	8.9	0.5	0.8
11-AAB-0099	Soil	59.3	10.22	1.84	8.32	1.21	7.05	1.37	4.02	0.63	4.37	0.62	0.3	12.1	7.9	47	15.7	4.8	0.1	0.3
11-JAM-016	Soil	15.1	2.23	0.34	1.60	0.31	2.02	0.43	1.39	0.22	1.56	0.22	24.5	12.5	12.8	6	0.7	7.6	<0.1	6.7
11-JAM-018	Soil	24.0	3.53	0.60	2.79	0.43	2.68	0.56	1.81	0.30	2.28	0.35	44.3	20.0	20.0	211	29.0	21.6	0.6	3.4
11-JAM-026	Soil	34.5	5.18	0.89	4.11	0.61	3.73	0.78	2.26	0.38	2.76	0.40	6.3	5.4	9.7	74	11.5	8.4	0.7	0.6



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-MGB-128	Soil	0.3	1.1	0.08	0.2	2.8
11-MGB-136	Soil	0.2	1.3	0.04	0.1	3.0
11-MGB-125	Soil	<0.1	<0.5	0.02	<0.1	1.2
11-MGB-145	Soil	0.5	<0.5	0.15	0.2	1.8
11-MGB-158	Soil	0.4	1.2	0.14	0.7	4.2
11-MGB-140	Soil	0.2	0.8	0.06	0.1	1.2
11-MGB-146	Soil	0.4	<0.5	0.04	0.1	2.7
11-MGB-137	Soil	0.1	<0.5	0.03	<0.1	0.8
11-MGB-131	Soil	0.1	1.4	0.05	0.1	0.8
11-MGB-156	Soil	0.9	1.2	0.23	0.9	3.5
11-MGB-144	Soil	0.2	<0.5	0.03	0.2	0.9
11-AAB-0135	Soil	<0.1	<0.5	0.03	0.1	0.7
11-AAB-0122	Soil	0.1	<0.5	0.03	<0.1	2.2
11-AAB-0134	Soil	1.3	<0.5	0.04	0.1	0.9
11-AAB-0114	Soil	0.1	<0.5	0.03	<0.1	1.3
11-AAB-0115	Soil	0.1	<0.5	0.04	<0.1	1.0
11-AAB-0120	Soil	<0.1	<0.5	0.02	<0.1	0.8
11-AAB-0105	Soil	0.3	1.3	0.23	0.3	6.2
11-AAB-0153	Soil	0.2	1.6	0.08	0.3	1.5
11-AAB-0103	Soil	0.2	<0.5	0.04	0.1	0.5
11-AAB-0100	Soil	0.2	1.1	0.05	<0.1	0.8
11-AAB-0098	Soil	<0.1	<0.5	0.01	<0.1	<0.5
11-AAB-0111	Soil	<0.1	<0.5	0.02	<0.1	0.7
11-AAB-0147	Soil	0.4	0.8	0.05	0.2	1.3
11-AAB-0133	Soil	<0.1	<0.5	<0.01	<0.1	1.8
11-AAB-0101	Soil	0.1	<0.5	0.02	<0.1	<0.5
11-AAB-0099	Soil	<0.1	<0.5	0.01	<0.1	<0.5
11-JAM-016	Soil	1.3	1.9	0.09	1.1	2.7
11-JAM-018	Soil	0.2	<0.5	0.04	0.7	5.8
11-JAM-026	Soil	0.4	<0.5	0.01	0.4	0.6



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-JAM-017	Soil	1214	2	4.0	7.1	15.3	7.4	65.1	160.0	2	85.0	2.9	13.6	6.8	264	0.8	307.1	16.2	38.2
11-JAM-010	Soil	10248	5	7.4	6.2	14.6	11.0	67.1	130.7	3	119.7	3.7	21.3	17.3	332	4.0	488.0	30.7	68.6
11-JAM-002	Soil	885	24	8.5	12.2	16.2	12.2	137.7	140.6	3	53.1	5.8	60.8	6.3	103	9.1	628.1	32.8	72.4
11-JAM-034	Soil	4638	3	10.4	6.3	11.4	4.0	22.3	78.4	2	164.8	1.2	10.0	11.9	515	<0.5	171.6	75.4	30.0
11-JAM-025	Soil	867	3	3.7	4.7	16.1	9.6	41.2	123.0	2	98.9	2.3	13.4	6.5	378	1.0	366.5	21.7	34.4
11-JAM-029	Soil	7467	3	7.5	4.9	11.2	7.2	22.8	67.0	2	88.3	1.4	9.0	4.9	439	14.2	296.2	24.0	36.0
11-JAM-030	Soil	3899	2	7.9	4.8	10.3	4.9	27.2	71.3	1	80.6	1.3	11.3	4.3	299	<0.5	219.8	25.3	37.9
11-JAM-014	Soil	966	2	4.3	5.6	13.6	6.8	22.5	99.2	2	99.4	1.4	10.5	9.3	509	<0.5	271.8	30.4	44.5
11-JAM-004	Soil	203	4	1.5	2.5	4.3	1.7	18.4	20.6	<1	57.3	0.8	6.8	1.8	36	0.5	87.4	9.2	19.5
11-JAM-001	Soil	309	4	2.2	3.0	5.1	2.3	19.5	27.9	<1	40.0	1.2	7.5	2.3	36	<0.5	107.8	16.6	30.8
11-JAM-008	Soil	2186	5	140.3	6.5	15.2	5.8	54.1	121.2	2	53.8	2.1	17.7	8.9	336	<0.5	266.6	22.9	41.3
11-JAM-027	Soil	831	5	3.8	9.3	18.2	11.6	73.1	166.8	3	126.9	3.6	14.8	4.6	206	1.5	444.1	25.3	48.3
11-JAM-009	Soil	7134	4	6.9	5.9	13.6	7.0	58.5	130.6	2	111.2	2.8	16.2	10.6	318	7.9	344.5	23.5	44.0
11-JAM-023	Soil	1189	3	1.7	4.5	14.5	8.2	99.3	138.1	2	36.2	4.3	20.9	7.8	426	1.1	381.4	17.8	40.2
11-JAM-015	Soil	1058	1	1.0	6.2	12.9	3.9	16.7	109.0	2	45.0	1.0	6.9	3.9	185	0.5	145.0	16.5	44.1
11-JAM-024	Soil	1657	4	3.7	5.1	17.0	10.2	99.6	129.7	3	107.2	5.4	25.3	6.7	211	2.9	500.1	19.7	46.8
11-JAM-022	Soil	1174	4	2.2	4.8	15.3	13.1	146.1	180.9	2	38.3	5.9	33.6	8.5	332	1.1	600.0	20.7	46.4
11-JAM-013	Soil	995	2	2.6	4.0	12.5	5.1	18.2	85.8	1	163.1	1.2	7.4	8.1	513	0.6	217.2	16.4	31.0
11-JAM-033	Soil	3885	2	12.4	7.2	13.7	6.0	32.3	98.7	2	113.5	1.5	13.9	6.1	387	2.1	254.6	45.5	44.2
11-JAM-003	Soil	531	9	4.9	7.3	8.5	7.8	62.9	74.7	2	61.2	2.1	21.8	3.6	78	4.5	370.8	20.0	43.0
11-JAM-019	Soil	1362	3	2.5	14.5	20.1	21.0	300.6	293.5	4	46.2	11.1	61.7	10.2	312	3.0	1038	35.1	82.4
11-JAM-020	Soil	1078	2	4.7	6.4	16.0	11.6	83.7	159.9	3	94.7	3.6	24.1	5.4	261	1.8	459.9	26.1	50.0
11-JAM-012	Soil	1604	2	3.9	3.2	7.1	3.6	26.8	62.4	1	47.2	1.3	7.8	9.5	413	1.5	163.1	18.0	34.6
11-JAM-021	Soil	1037	2	2.9	4.4	12.4	8.1	46.3	114.6	3	63.1	2.3	15.0	5.7	194	6.8	315.8	19.1	39.2
11-JAM-032	Soil	7623	3	8.3	5.7	9.8	5.9	23.6	79.2	1	95.9	1.3	11.0	5.1	371	1.5	223.4	36.8	38.7
11-JAM-028	Soil	789	10	5.6	18.8	29.2	18.2	332.8	252.8	5	125.1	14.0	39.3	7.9	157	3.5	709.7	23.5	78.8
11-BSW-164	Soil	367	1	3.1	1.3	4.7	11.7	8.1	46.8	<1	29.9	0.5	4.7	1.9	30	0.6	436.4	11.0	13.7
11-BSW-156	Soil	656	2	9.1	2.5	15.0	9.9	33.9	75.9	2	109.2	2.4	9.7	2.9	183	1.8	359.8	21.3	39.5
11-BSW-163	Soil	611	2	6.1	2.7	12.4	7.5	18.9	62.1	2	107.7	1.3	8.7	2.7	78	1.2	296.3	14.1	26.0
11-BSW-162	Soil	642	1	4.5	2.1	10.5	7.6	22.7	61.7	1	57.9	1.6	6.4	2.7	136	1.4	318.0	14.7	27.4



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CERTIFICATE OF ANALYSIS

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		Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
			Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	
11-JAM-017	Soil	28.3	4.19	0.69	3.24	0.42	2.64	0.52	1.55	0.26	1.78	0.29	31.1	12.3	15.4	208	19.1	15.4	0.6	2.1	0.2		
11-JAM-010	Soil	49.7	7.79	1.27	5.63	0.83	4.83	0.96	2.82	0.46	3.02	0.46	30.3	22.5	24.0	304	64.4	34.3	1.8	3.0	0.3		
11-JAM-002	Soil	31.3	4.85	0.85	4.16	0.74	4.60	0.95	3.05	0.52	3.52	0.52	7.7	13.8	173.4	771	126.4	52.9	6.9	3.4	1.0		
11-JAM-034	Soil	28.8	6.60	1.61	8.44	1.30	8.01	1.77	5.38	0.77	5.08	0.80	19.1	37.0	14.4	838	270.0	33.9	11.7	3.7	0.2		
11-JAM-025	Soil	26.9	4.27	0.75	3.60	0.55	3.42	0.69	2.13	0.33	2.30	0.36	17.6	6.5	14.6	75	13.4	13.8	0.7	1.3	0.3		
11-JAM-029	Soil	32.7	4.79	0.80	4.20	0.61	3.53	0.70	2.12	0.34	2.21	0.33	10.2	17.1	12.9	308	51.4	26.7	3.7	2.5	0.1		
11-JAM-030	Soil	29.2	4.87	0.93	4.38	0.66	3.82	0.73	2.22	0.37	2.33	0.35	10.8	24.6	14.5	250	57.3	21.9	2.5	2.9	0.1		
11-JAM-014	Soil	39.0	5.47	1.01	4.74	0.69	4.13	0.84	2.59	0.38	2.52	0.38	26.6	26.4	9.5	365	61.2	14.5	2.0	2.4	0.1		
11-JAM-004	Soil	11.9	1.96	0.38	1.82	0.27	1.62	0.29	0.87	0.13	0.86	0.13	0.6	2.4	18.7	60	11.3	16.6	0.5	0.8	0.1		
11-JAM-001	Soil	19.3	3.39	0.62	2.93	0.46	2.56	0.49	1.47	0.20	1.32	0.20	0.9	2.7	10.1	36	8.7	29.2	0.3	0.9	0.2		
11-JAM-008	Soil	27.5	4.12	0.74	3.50	0.51	2.89	0.63	2.01	0.30	2.13	0.33	224.6	21.0	15.4	2720	1039	65.0	12.5	3.6	0.2		
11-JAM-027	Soil	34.8	5.39	0.87	4.36	0.66	3.96	0.80	2.39	0.39	2.89	0.41	6.5	4.3	14.5	97	12.2	6.2	0.5	0.5	0.2		
11-JAM-009	Soil	29.4	4.43	0.74	3.75	0.58	3.74	0.72	2.21	0.34	2.28	0.35	25.8	20.1	23.1	290	55.1	29.4	1.7	3.1	0.3		
11-JAM-023	Soil	24.4	3.43	0.57	2.60	0.41	2.49	0.54	1.79	0.28	2.12	0.32	43.2	16.0	18.3	85	14.7	19.7	0.3	3.3	0.2		
11-JAM-015	Soil	36.6	5.47	0.75	3.34	0.45	2.64	0.52	1.55	0.24	1.56	0.23	27.4	4.4	13.4	48	5.7	13.5	0.3	3.9	0.2		
11-JAM-024	Soil	28.7	4.57	0.80	3.50	0.54	3.29	0.62	2.04	0.33	2.21	0.35	11.4	10.4	36.1	210	28.6	10.9	0.3	1.3	0.3		
11-JAM-022	Soil	27.1	3.80	0.58	3.08	0.47	3.03	0.65	2.15	0.39	2.79	0.44	42.9	15.0	22.4	126	21.1	18.6	0.2	3.0	0.3		
11-JAM-013	Soil	25.8	4.00	0.68	2.95	0.44	2.54	0.53	1.62	0.25	1.62	0.27	52.2	6.8	11.1	109	11.7	20.3	1.1	4.0	0.1		
11-JAM-033	Soil	34.3	6.62	1.44	6.48	1.07	5.85	1.34	3.95	0.60	3.46	0.53	15.8	50.9	20.2	408	85.0	27.2	2.6	2.7	0.2		
11-JAM-003	Soil	19.5	3.19	0.67	2.87	0.47	2.80	0.60	1.88	0.31	1.93	0.30	3.2	6.5	100.5	279	42.1	26.1	2.9	1.9	0.4		
11-JAM-019	Soil	32.9	4.73	0.71	3.73	0.71	4.52	1.06	3.59	0.68	4.29	0.71	38.4	14.3	38.3	181	29.7	16.3	0.7	1.9	0.4		
11-JAM-020	Soil	30.7	5.21	0.90	3.97	0.67	4.07	0.87	2.74	0.43	2.75	0.47	15.3	9.0	19.0	122	17.5	13.2	0.4	1.7	0.3		
11-JAM-012	Soil	24.1	3.76	0.69	2.91	0.45	2.61	0.55	1.66	0.25	1.57	0.25	66.6	34.6	11.4	125	35.6	25.9	0.7	4.8	0.1		
11-JAM-021	Soil	27.4	4.11	0.72	3.03	0.49	2.79	0.64	1.98	0.33	2.11	0.34	47.4	6.8	22.9	76	10.6	14.5	0.4	2.1	0.3		
11-JAM-032	Soil	30.4	5.41	1.20	5.51	0.84	4.76	1.03	3.25	0.46	2.92	0.46	12.6	37.0	14.0	407	78.3	23.6	2.5	3.0	0.2		
11-JAM-028	Soil	32.8	4.61	0.71	3.38	0.61	3.59	0.80	2.48	0.43	2.95	0.49	9.7	4.2	40.0	564	29.9	8.5	1.6	0.4	0.6		
11-BSW-164	Soil	11.7	2.03	0.53	1.80	0.32	1.68	0.38	1.18	0.19	1.30	0.22	1.0	6.9	35.9	60	8.3	11.3	0.4	1.0	<0.1		
11-BSW-156	Soil	31.6	5.59	1.55	4.51	0.72	3.95	0.81	2.29	0.36	2.41	0.37	1.0	7.3	8.9	57	14.7	3.3	0.2	0.3	0.2		
11-BSW-163	Soil	20.8	3.42	0.72	2.76	0.44	2.44	0.52	1.56	0.24	1.58	0.26	0.8	6.7	11.9	42	10.3	6.6	0.3	0.3	0.1		
11-BSW-162	Soil	19.6	3.26	0.64	2.43	0.40	2.38	0.52	1.61	0.24	1.60	0.29	2.2	5.7	13.8	37	11.2	8.6	0.2	0.5	0.2		



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-017	Soil	0.2	<0.5	0.02	0.6	3.6
11-JAM-010	Soil	0.5	1.2	0.13	0.7	4.1
11-JAM-002	Soil	0.9	1.8	0.09	2.3	0.6
11-JAM-034	Soil	0.4	0.7	0.17	0.7	2.0
11-JAM-025	Soil	1.4	5.1	0.02	0.9	1.6
11-JAM-029	Soil	0.4	<0.5	0.11	0.7	1.5
11-JAM-030	Soil	0.3	0.8	0.15	0.6	1.3
11-JAM-014	Soil	1.4	<0.5	0.02	1.1	2.1
11-JAM-004	Soil	0.2	<0.5	0.01	0.4	<0.5
11-JAM-001	Soil	0.2	<0.5	0.01	0.5	<0.5
11-JAM-008	Soil	0.4	1.5	0.12	1.8	4.8
11-JAM-027	Soil	<0.1	<0.5	<0.01	0.4	<0.5
11-JAM-009	Soil	0.4	0.6	0.11	0.6	3.0
11-JAM-023	Soil	0.5	<0.5	0.03	0.9	5.9
11-JAM-015	Soil	4.4	<0.5	0.02	0.8	1.7
11-JAM-024	Soil	0.9	<0.5	0.02	0.5	1.5
11-JAM-022	Soil	0.8	1.0	0.03	0.8	4.9
11-JAM-013	Soil	3.7	<0.5	0.05	2.2	4.6
11-JAM-033	Soil	0.5	<0.5	0.24	0.7	2.5
11-JAM-003	Soil	0.6	1.9	0.08	0.9	<0.5
11-JAM-019	Soil	0.9	<0.5	0.06	1.0	4.6
11-JAM-020	Soil	1.2	1.6	0.14	0.6	1.7
11-JAM-012	Soil	0.1	0.7	0.11	0.8	9.7
11-JAM-021	Soil	1.6	0.8	0.04	0.9	2.2
11-JAM-032	Soil	0.6	<0.5	0.15	0.6	1.8
11-JAM-028	Soil	<0.1	<0.5	0.05	0.5	<0.5
11-BSW-164	Soil	<0.1	<0.5	0.06	0.2	<0.5
11-BSW-156	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-BSW-163	Soil	<0.1	<0.5	0.03	0.1	0.6
11-BSW-162	Soil	<0.1	<0.5	0.02	0.1	<0.5



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
			Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
			ppm	ppm	ppm	ppm	ppm	ppm	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
11-BSW-167	Soil		494	<1	6.9	6.0	14.6	5.7	15.5	102.2	2	72.8	1.0	13.5	3.1	66	0.8	202.6	21.9	36.6
11-BSW-148	Soil		9010	3	12.7	6.0	9.8	4.7	17.5	80.2	1	82.4	1.1	9.0	8.8	454	2.6	199.6	29.9	45.2
11-BSW-168	Soil		504	2	3.9	2.8	8.5	7.3	9.1	70.0	<1	68.9	0.5	7.8	2.0	41	0.5	304.3	17.8	27.7
11-BSW-165	Soil		571	1	5.2	2.3	10.0	5.5	11.9	55.2	<1	137.9	0.9	7.1	2.0	53	0.7	220.6	14.0	23.3
11-BSW-159	Soil		762	1	6.9	3.3	11.5	8.3	17.3	67.3	2	96.0	1.3	10.0	3.0	126	1.5	329.5	19.2	34.4
11-BSW-149	Soil		405	14	6.0	2.4	2.2	1.4	15.0	21.4	<1	22.4	0.2	4.1	325.3	978	0.7	65.4	169.4	11.7



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-BSW-167	Soil	29.3	5.07	1.15	4.15	0.63	3.37	0.73	1.98	0.30	1.95	0.30	0.9	12.7	13.4	102	25.1	9.9	0.4	0.6
11-BSW-148	Soil	36.1	5.92	1.09	4.76	0.72	3.83	0.83	2.53	0.36	2.32	0.39	19.6	34.4	33.1	656	114.2	49.7	7.0	4.4
11-BSW-168	Soil	22.1	3.93	0.89	3.04	0.51	2.86	0.58	1.60	0.25	1.61	0.25	0.3	6.3	9.1	44	14.8	4.7	0.3	<0.1
11-BSW-165	Soil	19.6	3.18	0.73	2.70	0.43	2.17	0.49	1.28	0.21	1.34	0.22	0.6	8.8	12.3	63	11.1	4.9	0.3	0.4
11-BSW-159	Soil	27.9	4.47	0.90	3.40	0.56	3.11	0.70	1.99	0.31	2.11	0.33	1.8	9.8	17.3	52	16.2	9.0	0.1	0.4
11-BSW-149	Soil	9.0	3.82	1.34	11.06	2.05	14.44	3.88	11.73	1.67	10.29	1.77	>2000	6.6	3.6	1429	110.6	142.5	6.2	2.9



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-BSW-167	Soil	<0.1	<0.5	0.06	0.1	<0.5
11-BSW-148	Soil	0.5	0.8	0.35	0.9	5.8
11-BSW-168	Soil	<0.1	<0.5	0.03	<0.1	<0.5
11-BSW-165	Soil	<0.1	1.1	0.04	<0.1	0.7
11-BSW-159	Soil	<0.1	<0.5	0.03	0.1	0.6
11-BSW-149	Soil	0.2	<0.5	0.04	0.9	3.0



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QUALITY CONTROL REPORT

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Method Analyte Unit MDL		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
Pulp Duplicates																				
11-AAB-0132	Soil	575	<1	2.3	1.9	10.5	8.3	11.4	45.3	2	244.3	0.9	5.9	3.3	59	1.5	305.9	17.7	26.1	43.6
REP 11-AAB-0132	QC	558	<1	2.5	2.0	12.5	9.0	11.8	46.2	1	250.6	0.9	6.4	3.5	57	1.0	327.7	16.6	26.7	44.5
11-AAB-0126	Soil	769	3	9.8	4.1	10.0	8.5	15.2	68.8	2	113.0	1.1	8.6	4.0	124	1.2	310.4	22.5	28.3	54.1
REP 11-AAB-0126	QC																			
11-JAM-031	Soil	3115	2	10.0	5.4	11.9	5.6	27.8	75.1	7	90.5	1.3	11.4	4.8	291	1.7	219.0	30.4	33.4	61.0
REP 11-JAM-031	QC	3418	3	10.3	5.3	11.2	4.7	28.1	75.9	2	90.0	1.5	11.1	5.0	292	1.3	206.2	30.8	34.1	59.5
11-MGB-172	Soil	990	<1	9.4	1.5	5.3	7.8	7.8	28.5	<1	34.6	0.5	4.7	2.4	162	0.7	353.1	13.7	17.3	35.6
REP 11-MGB-172	QC																			
11-MGB-127	Soil	948	<1	6.6	3.0	10.0	9.5	14.3	47.8	2	107.8	0.9	8.1	3.2	130	1.1	361.0	22.8	28.7	50.5
REP 11-MGB-127	QC	902	<1	6.3	3.0	9.2	9.0	14.8	46.9	1	107.2	1.0	8.2	3.2	128	1.1	370.4	22.4	29.7	56.1
11-AAB-0105	Soil	815	2	9.6	5.4	13.0	7.5	35.6	86.2	2	202.1	1.8	13.0	5.2	116	2.9	267.5	23.9	44.5	78.6
REP 11-AAB-0105	QC	984	1	9.4	5.8	11.0	6.7	34.2	84.0	3	203.4	1.7	12.2	5.6	114	2.4	326.7	23.9	45.5	75.8
11-AAB-0101	Soil	1082	2	10.1	2.4	11.6	9.8	13.7	76.2	2	163.8	1.0	12.4	3.2	95	<0.5	351.9	25.3	40.9	85.0
REP 11-AAB-0101	QC																			
11-JAM-030	Soil	3899	2	7.9	4.8	10.3	4.9	27.2	71.3	1	80.6	1.3	11.3	4.3	299	<0.5	219.8	25.3	37.9	67.7
REP 11-JAM-030	QC	4027	3	8.6	4.8	11.0	6.4	26.7	72.1	1	80.4	1.4	11.2	4.8	302	<0.5	242.5	24.5	29.7	54.8
11-JAM-021	Soil	1037	2	2.9	4.4	12.4	8.1	46.3	114.6	3	63.1	2.3	15.0	5.7	194	6.8	315.8	19.1	39.2	66.6
REP 11-JAM-021	QC	1037	3	3.2	4.6	14.6	8.2	45.8	116.5	2	62.1	2.2	15.1	5.5	205	6.2	314.2	19.3	39.1	65.3
11-BSW-165	Soil	571	1	5.2	2.3	10.0	5.5	11.9	55.2	<1	137.9	0.9	7.1	2.0	53	0.7	220.6	14.0	23.3	42.9
REP 11-BSW-165	QC																			
Reference Materials																				
STD DS8	Standard																			
STD DS8	Standard																			
STD DS8	Standard																			
STD DS8	Standard																			
STD DS8	Standard																			
STD OREAS45CA	Standard																			
STD OREAS45CA	Standard																			



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX			
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi		
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1		
Pulp Duplicates																							
11-AAB-0132	Soil	18.4	3.16	0.70	2.66	0.42	2.65	0.51	1.54	0.23	1.66	0.27	0.7	3.1	6.0	17	2.8	0.7	0.6	<0.1	<0.1		
REP 11-AAB-0132	QC	20.1	3.19	0.73	2.59	0.41	2.42	0.57	1.53	0.25	1.81	0.30											
11-AAB-0126	Soil	25.5	4.57	1.00	4.14	0.68	3.86	0.80	2.40	0.37	2.38	0.38	1.1	16.3	12.0	81	23.2	7.7	0.2	<0.1	0.2		
REP 11-AAB-0126	QC												0.9	16.7	11.9	78	22.3	7.7	0.2	<0.1	0.2		
11-JAM-031	Soil	27.8	5.34	1.10	4.97	0.78	4.56	0.92	2.74	0.40	2.61	0.40	13.1	43.8	15.4	306	70.3	24.3	2.7	1.6	0.2		
REP 11-JAM-031	QC	26.6	4.85	1.06	5.02	0.77	4.48	0.93	2.72	0.41	2.67	0.40											
11-MGB-172	Soil	17.1	3.02	0.53	2.40	0.37	2.18	0.43	1.33	0.21	1.37	0.22	6.9	6.8	4.9	113	10.6	15.1	0.3	0.4	<0.1		
REP 11-MGB-172	QC												7.4	7.6	5.4	119	10.3	15.8	0.3	0.5	<0.1		
11-MGB-127	Soil	22.8	3.97	0.89	3.56	0.57	3.30	0.69	2.22	0.33	2.11	0.36	2.4	11.6	14.7	90	25.3	10.5	0.9	0.3	0.1		
REP 11-MGB-127	QC	25.2	4.48	0.97	3.71	0.59	3.33	0.69	2.13	0.34	2.14	0.33											
11-AAB-0105	Soil	30.6	5.42	1.24	4.63	0.73	3.93	0.80	2.34	0.37	2.35	0.37	6.3	16.0	12.2	154	49.4	11.0	1.2	0.3	0.1		
REP 11-AAB-0105	QC	32.1	5.39	1.16	4.48	0.70	3.71	0.81	2.25	0.38	2.26	0.34											
11-AAB-0101	Soil	38.5	6.50	1.22	5.48	0.81	4.46	0.83	2.44	0.38	2.62	0.37	1.0	18.1	13.5	69	21.5	8.9	0.5	0.8	0.2		
REP 11-AAB-0101	QC												0.9	18.3	13.0	67	21.4	8.4	0.4	0.7	0.2		
11-JAM-030	Soil	29.2	4.87	0.93	4.38	0.66	3.82	0.73	2.22	0.37	2.33	0.35	10.8	24.6	14.5	250	57.3	21.9	2.5	2.9	0.1		
REP 11-JAM-030	QC	26.1	4.61	0.86	4.28	0.65	3.67	0.78	2.31	0.37	2.42	0.35											
11-JAM-021	Soil	27.4	4.11	0.72	3.03	0.49	2.79	0.64	1.98	0.33	2.11	0.34	47.4	6.8	22.9	76	10.6	14.5	0.4	2.1	0.3		
REP 11-JAM-021	QC	25.8	3.89	0.74	2.97	0.49	2.91	0.62	1.98	0.31	2.17	0.34											
11-BSW-165	Soil	19.6	3.18	0.73	2.70	0.43	2.17	0.49	1.28	0.21	1.34	0.22	0.6	8.8	12.3	63	11.1	4.9	0.3	0.4	0.1		
REP 11-BSW-165	QC												0.6	8.0	12.0	62	11.6	4.7	0.4	0.4	0.1		
Reference Materials																							
STD DS8	Standard												13.8	111.8	130.9	319	38.4	25.6	2.1	4.6	7.1		
STD DS8	Standard												13.6	112.6	129.8	318	39.5	25.4	2.4	4.6	7.0		
STD DS8	Standard												15.3	110.1	123.3	314	39.4	27.6	2.2	3.9	6.5		
STD DS8	Standard												12.6	108.5	116.0	292	37.6	25.1	1.9	4.4	6.0		
STD DS8	Standard												13.8	110.3	124.8	300	37.9	26.4	2.3	3.8	6.0		
STD OREAS45CA	Standard												0.9	517.7	21.2	61	255.9	3.1	0.1	<0.1	0.2		
STD OREAS45CA	Standard												0.8	495.0	19.8	62	235.6	3.2	<0.1	<0.1	0.2		



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
Pulp Duplicates						
11-AAB-0132	Soil	0.1	<0.5	0.01	<0.1	<0.5
REP 11-AAB-0132	QC					
11-AAB-0126	Soil	0.1	0.5	0.04	<0.1	0.9
REP 11-AAB-0126	QC	<0.1	1.1	0.04	<0.1	0.9
11-JAM-031	Soil	0.3	1.0	0.18	0.7	1.4
REP 11-JAM-031	QC					
11-MGB-172	Soil	0.2	0.5	0.05	0.1	1.1
REP 11-MGB-172	QC	0.2	<0.5	0.05	0.1	1.4
11-MGB-127	Soil	0.2	1.0	0.26	0.2	1.9
REP 11-MGB-127	QC					
11-AAB-0105	Soil	0.3	1.3	0.23	0.3	6.2
REP 11-AAB-0105	QC					
11-AAB-0101	Soil	0.1	<0.5	0.02	<0.1	<0.5
REP 11-AAB-0101	QC	0.1	<0.5	0.03	<0.1	0.6
11-JAM-030	Soil	0.3	0.8	0.15	0.6	1.3
REP 11-JAM-030	QC					
11-JAM-021	Soil	1.6	0.8	0.04	0.9	2.2
REP 11-JAM-021	QC					
11-BSW-165	Soil	<0.1	1.1	0.04	<0.1	0.7
REP 11-BSW-165	QC	<0.1	<0.5	0.05	<0.1	<0.5
Reference Materials						
STD DS8	Standard	1.8	96.0	0.20	5.5	5.5
STD DS8	Standard	1.9	102.3	0.18	5.3	5.5
STD DS8	Standard	1.7	87.9	0.19	5.2	5.1
STD DS8	Standard	1.6	105.1	0.18	4.9	5.3
STD DS8	Standard	1.9	93.7	0.18	5.3	4.9
STD OREAS45CA	Standard	0.3	40.9	0.04	<0.1	<0.5
STD OREAS45CA	Standard	0.3	33.7	0.02	<0.1	0.6



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Project: TING PROP

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QUALITY CONTROL REPORT

VAN11002820.1

		4B Ba ppm 1	4B Be ppm 1	4B Co ppm 0.2	4B Cs ppm 0.1	4B Ga ppm 0.5	4B Hf ppm 0.1	4B Nb ppm 0.1	4B Rb ppm 0.1	4B Sn ppm 1	4B Sr ppm 0.5	4B Ta ppm 0.1	4B Th ppm 0.2	4B U ppm 0.1	4B V ppm 8	4B W ppm 0.5	4B Zr ppm 0.1	4B Y ppm 0.1	4B La ppm 0.1	4B Ce ppm 0.1	4B Pr ppm 0.02
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD SO-18	Standard	529	<1	26.6	7.1	18.0	9.5	20.2	28.4	15	408.4	7.1	9.6	15.7	212	14.8	298.7	30.7	12.3	26.7	3.35
STD SO-18	Standard	528	<1	27.0	7.1	18.9	9.9	20.3	28.7	15	413.7	7.3	9.8	15.6	217	14.9	298.5	31.2	12.2	26.7	3.34
STD SO-18	Standard	543	2	28.8	7.3	17.4	10.5	22.2	30.7	16	428.6	7.8	9.6	18.1	214	14.0	280.4	32.1	12.0	27.1	3.42
STD SO-18	Standard	547	1	27.9	7.3	16.6	9.9	22.3	30.5	16	428.1	7.5	10.1	17.7	211	13.7	278.0	31.6	12.2	27.6	3.35
STD SO-18	Standard	548	<1	26.7	7.0	18.2	9.5	20.8	29.0	15	430.6	7.3	11.0	16.6	214	14.5	293.9	32.7	12.9	27.8	3.51
STD SO-18	Standard	542	<1	27.7	7.2	17.8	9.8	21.5	29.0	15	437.1	7.4	11.2	17.1	213	15.2	300.1	33.4	13.0	27.7	3.55
STD SO-18	Standard	543	<1	27.9	7.3	18.4	9.2	21.4	28.6	15	423.9	7.4	10.9	16.1	199	14.7	299.3	32.4	12.7	27.5	3.50
STD SO-18	Standard	537	1	26.7	7.2	18.4	9.8	21.6	28.5	15	415.3	7.3	11.1	16.5	202	14.9	300.0	33.1	13.0	27.4	3.55
STD SO-18	Standard	505	1	25.3	7.0	18.7	9.7	21.1	28.3	14	409.2	7.4	11.0	16.1	202	15.7	300.2	31.6	12.3	26.6	3.39
STD SO-18	Standard	524	2	26.0	7.2	18.6	10.5	21.3	28.8	15	418.0	7.7	10.6	16.8	205	15.5	304.6	31.4	12.8	28.3	3.49
STD SO-18	Standard	504	1	26.8	7.2	18.1	9.3	21.3	28.5	15	404.3	7.0	10.5	16.5	206	15.1	299.8	33.1	12.7	27.0	3.56
STD SO-18	Standard	513	<1	25.6	7.2	17.9	9.7	22.0	28.6	15	403.5	7.2	10.2	15.7	208	14.5	304.6	33.3	12.5	27.3	3.51
STD SO-18	Standard	525	<1	27.3	7.2	19.2	9.3	21.7	29.6	15	416.9	7.1	10.4	16.7	213	15.5	306.2	33.6	12.8	26.9	3.60
STD SO-18	Standard	525	<1	27.2	7.1	18.2	10.0	20.9	29.6	14	413.5	7.1	10.4	16.8	208	15.7	307.9	32.8	12.8	27.4	3.53
STD DS8 Expected																					
STD OREAS45CA Expected																					
STD SO-18 Expected		514	1	26.2	7.1	17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1	3.45
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	2.6	<0.1	<0.1	<0.1	<0.02
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02



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Report Date: August 10, 2011

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QUALITY CONTROL REPORT

VAN11002820.1

		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
STD OREAS45CA	Standard												0.7	529.5	19.3	60	264.8	3.8	0.1
STD OREAS45CA	Standard												0.8	499.5	21.2	60	249.7	3.0	0.1
STD OREAS45CA	Standard												0.9	513.9	19.3	61	256.6	3.2	0.1
STD SO-18	Standard	13.5	2.93	0.89	3.02	0.50	2.97	0.61	1.83	0.28	1.78	0.28							
STD SO-18	Standard	13.6	2.97	0.90	3.04	0.50	3.02	0.61	1.85	0.28	1.83	0.27							
STD SO-18	Standard	14.4	3.08	0.90	3.15	0.51	3.23	0.64	1.89	0.28	1.85	0.28							
STD SO-18	Standard	13.8	3.06	0.88	3.06	0.50	3.18	0.64	1.82	0.27	1.84	0.27							
STD SO-18	Standard	13.9	2.99	0.95	3.02	0.53	3.05	0.65	1.88	0.30	1.83	0.29							
STD SO-18	Standard	14.1	3.00	0.93	3.09	0.54	3.08	0.68	2.02	0.31	1.86	0.29							
STD SO-18	Standard	13.9	2.96	0.91	2.96	0.51	3.13	0.65	1.83	0.27	1.83	0.28							
STD SO-18	Standard	14.0	3.11	0.96	3.11	0.53	3.22	0.67	2.05	0.31	1.90	0.29							
STD SO-18	Standard	14.1	2.84	0.91	2.94	0.51	2.99	0.63	1.90	0.28	1.87	0.28							
STD SO-18	Standard	13.6	3.03	0.91	2.99	0.52	2.97	0.66	1.83	0.28	1.80	0.28							
STD SO-18	Standard	15.0	3.04	0.96	3.18	0.53	3.10	0.66	1.94	0.30	1.86	0.29							
STD SO-18	Standard	14.4	3.07	0.90	3.18	0.52	3.11	0.66	1.93	0.27	1.86	0.29							
STD SO-18	Standard	13.6	3.17	0.92	3.09	0.52	3.13	0.68	1.92	0.27	2.02	0.29							
STD SO-18	Standard	14.9	3.15	0.93	3.31	0.53	3.02	0.66	1.92	0.27	1.89	0.29							
STD DS8 Expected													13.44	110	123	312	38.1	26	2.38
STD OREAS45CA Expected													1	494	20	60	240	3.8	0.1
STD SO-18 Expected		14	3	0.89	2.93	0.53	3	0.62	1.84	0.27	1.79	0.27							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							



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Report Date: August 10, 2011

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QUALITY CONTROL REPORT

VAN11002820.1

		1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
STD OREAS45CA	Standard	0.3	42.9	0.03	<0.1	0.8
STD OREAS45CA	Standard	0.3	35.0	0.02	<0.1	0.7
STD OREAS45CA	Standard	0.3	40.5	0.03	<0.1	<0.5
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD DS8 Expected		1.69	107	0.192	5.4	5.23
STD OREAS45CA Expected		0.275	43	0.03	0.07	0.5
STD SO-18 Expected						
BLK	Blank					
BLK	Blank					
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank					
BLK	Blank					



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QUALITY CONTROL REPORT

VAN11002820.1

		4B Ba ppm 1	4B Be ppm 1	4B Co ppm 0.2	4B Cs ppm 0.1	4B Ga ppm 0.5	4B Hf ppm 0.1	4B Nb ppm 0.1	4B Rb ppm 0.1	4B Sn ppm 1	4B Sr ppm 0.5	4B Ta ppm 0.1	4B Th ppm 0.2	4B U ppm 0.1	4B V ppm 8	4B W ppm 0.5	4B Zr ppm 0.1	4B Y ppm 0.1	4B La ppm 0.1	4B Ce ppm 0.1	4B Pr ppm 0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	1.4	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02



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QUALITY CONTROL REPORT

VAN11002820.1

		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									



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QUALITY CONTROL REPORT

VAN11002820.1

		1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
BLK	Blank					
BLK	Blank					
BLK	Blank					



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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: June 28, 2011

Report Date: August 04, 2011

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CERTIFICATE OF ANALYSIS

VAN11002821.1

CLIENT JOB INFORMATION

Project: TING PROP
Shipment ID: Greyhound 5173677522
P.O. Number
Number of Samples: 53

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

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: Mackevoy Geosciences
537 Kenneth Street
Victoria BC V8Z 2B6
Canada

CC: Lee A. Groat
Michael Burns
Thomas Hasek

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	52	Crush, split and pulverize 250 g rock to 200 mesh			VAN
P200	1	Pulverize to 85% - 200 mesh			VAN
4B02	53	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	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

VAN11002821.1

	Method Analyte Unit MDL	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-AAB-0130	Rock	1.20	61	<1	1.3	0.5	2.1	2.6	2.1	10.0	1	33.8	<0.1	1.9	1.4	28	<0.5	101.3	4.5	5.8	10.9
11-AAB-0128	Rock	5.23	166	1	0.2	0.7	2.8	4.9	3.0	13.7	1	92.0	0.1	2.9	11.6	80	<0.5	190.6	11.7	18.1	20.2
11-AAB-0119	Rock Chip	2.21	177	<1	4.3	1.4	4.1	3.7	5.3	22.2	2	65.8	0.2	3.1	4.1	57	<0.5	134.5	22.7	17.7	21.4
11-AAB-0129	Rock	1.11	136	<1	0.8	1.3	4.2	3.7	5.5	26.6	2	77.2	0.2	3.5	3.4	42	0.7	145.2	8.3	12.2	20.5
11-AAB-0156	Rock	2.70	32	27	0.3	20.4	45.2	54.4	828.8	608.7	8	34.0	34.2	197.7	22.5	<8	6.0	2781	76.9	235.7	365.2
11-AAB-0160	Rock	2.59	29	31	0.3	21.3	44.9	56.5	849.4	603.4	8	8.8	34.3	214.3	22.6	<8	6.8	2875	80.2	238.4	364.8
11-AAB-0157	Rock	2.39	28	31	0.4	21.6	44.6	55.5	809.7	574.0	7	29.0	34.1	208.3	23.1	<8	7.6	2745	75.2	238.9	362.8
11-AAB-0159	Rock	0.69	75	33	0.5	22.8	46.3	67.5	921.4	648.2	9	23.4	37.5	225.5	23.2	<8	9.0	3453	100.2	293.0	438.2
11-AAB-0131	Rock	2.50	114	3	6.2	0.9	2.5	7.7	9.1	20.4	<1	86.1	0.6	51.4	93.2	35	1.2	238.7	25.5	19.4	26.5
11-AAB-0158	Rock	0.91	38	24	0.4	17.0	34.4	50.5	680.2	467.1	7	18.5	33.3	343.6	268.8	<8	8.0	2159	58.7	195.3	296.1
11-BSW-135	Rock	1.02	3272	519	1.4	0.6	61.3	116.0	1890	15.5	19	112.9	51.4	1049	283.0	129	57.0	6936	244.8	769.7	887.0
11-BSW-136	Rock	1.74	349	16	2.5	2.2	5.9	4.6	61.8	46.7	8	96.2	1.9	142.0	183.0	694	15.0	275.9	51.0	232.5	208.3
11-BSW-146	Rock	0.92	426	6	0.9	0.3	3.6	1.3	9.5	47.6	<1	82.4	0.5	54.1	108.5	458	2.8	33.7	28.3	19.8	9.2
11-BSW-142	Rock	2.38	23	30	0.5	18.2	35.3	52.1	677.0	490.7	6	24.6	33.2	356.7	263.4	<8	7.2	2165	59.5	211.7	319.9
11-BSW-139	Rock	0.79	158	2	1.3	1.2	6.0	1.5	6.2	82.0	1	12.9	0.3	66.4	138.7	858	9.9	46.8	6.8	7.4	7.2
11-BSW-138	Rock	2.45	1900	<1	2.2	1.2	2.2	1.5	3.2	25.9	<1	139.9	0.2	93.4	177.1	562	3.4	45.2	21.7	13.5	15.9
11-BSW-171	Rock	1.50	22	31	0.9	22.2	48.6	57.9	896.4	737.0	7	32.2	37.1	226.2	24.4	<8	3.2	2874	78.1	252.9	383.7
11-BSW-145	Rock	1.46	524	16	1.8	11.7	25.8	31.5	470.0	336.6	5	75.8	19.5	117.2	16.1	404	5.2	1551	51.5	146.8	216.2
11-BSW-158	Rock	0.61	1102	1	35.3	0.6	25.9	4.8	50.3	81.5	2	87.2	2.9	4.4	1.3	321	<0.5	216.0	40.1	42.2	97.2
11-BSW-143	Rock	2.01	25	32	1.0	22.3	66.4	53.4	1029	773.4	8	48.6	34.5	207.0	24.7	9	2.4	3281	96.7	266.2	402.4
11-BSW-144	Rock	1.12	74	37	1.1	21.7	66.9	57.8	1038	847.1	9	59.6	35.8	216.7	23.7	<8	7.9	3439	97.4	274.2	403.7
11-BSW-160	Rock	1.02	115	3	7.5	1.4	23.8	7.4	59.5	90.9	2	179.7	3.0	8.2	2.3	51	0.9	331.6	31.4	43.7	88.0
11-BSW-147	Rock	1.03	641	24	0.6	0.4	7.8	1.3	17.1	114.6	<1	138.5	0.2	3.3	18.3	502	6.1	63.6	54.2	11.1	13.6
11-BSW-170	Rock	0.93	422	39	0.5	45.6	69.6	65.7	1133	967.5	10	23.1	38.4	254.3	24.1	<8	7.9	3927	103.6	292.4	427.1
11-BSW-130	Rock	1.10	2215	7	6.1	10.9	26.1	10.0	232.7	333.7	4	1660	13.4	52.6	9.8	53	10.2	533.5	37.3	217.0	343.9
11-BSW-169	Rock	1.32	82	36	0.5	31.0	55.2	59.7	976.3	917.7	9	48.1	38.8	229.5	24.4	<8	4.1	3167	87.0	271.2	405.5
11-BSW-132	Rock	0.99	900	<1	2.6	0.7	3.7	1.1	3.1	21.8	1	193.8	<0.1	2.0	8.5	1040	18.6	44.7	29.8	28.5	29.8
11-BSW-157	Rock	4.03	763	<1	47.1	0.8	23.3	4.6	44.3	61.9	2	172.6	2.5	3.7	1.1	386	0.9	215.2	33.0	40.9	87.0
11-BSW-140	Rock	1.64	1120	30	0.9	31.0	60.4	64.6	1058	706.3	8	131.0	39.0	242.8	25.4	<8	4.5	3592	109.5	296.2	434.7
11-MGB-148	Rock	1.66	132	<1	11.2	0.1	0.7	3.4	2.2	1.5	<1	9.2	<0.1	0.6	0.4	<8	<0.5	147.8	6.5	2.6	5.9



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Report Date: August 04, 2011

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CERTIFICATE OF ANALYSIS

VAN11002821.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-AAB-0130	Rock	1.51	5.8	1.16	0.27	0.94	0.17	0.80	0.16	0.44	0.10	0.55	0.10	4.3	5.6	2.2	3	0.8	5.5	0.1	0.2
11-AAB-0128	Rock	5.60	24.8	5.65	1.19	4.78	0.61	2.75	0.44	1.18	0.19	1.00	0.19	33.2	34.2	2.4	27	1.8	20.8	0.7	0.6
11-AAB-0119	Rock Chip	4.18	15.9	3.23	0.72	3.12	0.50	2.69	0.61	1.68	0.27	1.66	0.25	5.4	11.6	6.0	95	24.1	10.3	0.9	0.3
11-AAB-0129	Rock	2.99	11.3	1.95	0.36	1.30	0.23	1.37	0.31	0.91	0.16	1.03	0.17	6.2	8.5	3.0	6	1.2	4.7	<0.1	0.1
11-AAB-0156	Rock	28.99	71.1	9.93	0.97	7.74	1.52	9.92	2.29	7.98	1.39	10.37	1.65	1.7	1.1	84.0	173	1.8	11.0	0.3	0.1
11-AAB-0160	Rock	29.34	72.5	10.18	0.98	8.40	1.57	10.50	2.36	8.21	1.47	10.82	1.69	1.2	0.6	67.2	200	0.5	14.2	0.2	0.1
11-AAB-0157	Rock	29.06	68.8	10.05	0.98	7.97	1.53	10.15	2.29	7.95	1.44	10.76	1.68	1.4	0.4	100.6	228	0.6	10.6	0.2	<0.1
11-AAB-0159	Rock	35.46	86.2	12.54	1.21	10.24	1.95	13.22	2.97	10.61	1.86	13.54	2.12	1.7	0.5	81.4	218	0.4	11.7	0.6	0.3
11-AAB-0131	Rock	4.42	17.1	3.67	0.82	3.87	0.62	3.91	0.82	2.62	0.42	2.69	0.42	2.0	6.0	3.9	237	68.1	8.9	1.8	0.2
11-AAB-0158	Rock	24.34	59.7	8.74	0.90	7.35	1.37	9.26	2.20	7.51	1.40	10.48	1.73	1.5	0.6	61.3	165	1.1	13.2	0.4	0.2
11-BSW-135	Rock	60.46	134.2	19.15	3.21	18.36	3.82	27.63	6.62	22.51	3.83	26.03	3.52	7.3	19.3	227.8	587	32.8	76.7	3.5	6.3
11-BSW-136	Rock	17.23	46.3	6.62	3.38	6.44	0.96	6.07	1.37	4.18	0.64	4.01	0.60	0.7	4.0	55.4	505	131.8	508.8	6.2	41.9
11-BSW-146	Rock	2.47	8.2	2.04	0.58	3.02	0.45	2.78	0.66	1.92	0.32	1.99	0.32	24.1	15.5	2.0	168	38.7	10.6	1.3	2.2
11-BSW-142	Rock	26.14	66.0	9.37	0.96	7.66	1.47	9.86	2.22	7.70	1.46	10.87	1.75	4.6	1.4	80.0	224	5.8	37.4	1.4	0.4
11-BSW-139	Rock	1.82	7.4	1.61	0.35	1.77	0.23	1.24	0.24	0.67	0.14	0.91	0.16	101.4	41.8	3.7	395	95.7	9.2	0.5	2.7
11-BSW-138	Rock	2.92	11.6	2.15	0.43	2.46	0.40	2.67	0.62	1.90	0.31	2.16	0.34	11.3	13.5	5.8	445	57.0	116.4	9.2	2.1
11-BSW-171	Rock	30.88	79.3	10.63	1.03	8.70	1.60	10.58	2.50	8.85	1.57	11.38	1.80	9.0	0.6	78.0	169	0.4	13.5	0.7	0.3
11-BSW-145	Rock	18.32	48.8	6.90	0.78	6.13	1.06	6.84	1.64	5.36	0.96	6.87	1.10	8.0	11.8	48.7	280	40.5	84.2	4.0	1.1
11-BSW-158	Rock	13.56	58.8	12.41	6.01	10.98	1.48	7.79	1.35	3.34	0.46	2.65	0.34	0.2	11.8	0.8	112	3.3	1.0	0.2	<0.1
11-BSW-143	Rock	33.07	81.5	11.29	1.10	8.69	1.62	10.99	2.53	8.40	1.54	11.37	1.77	1.1	0.8	77.9	237	8.1	5.2	0.9	0.1
11-BSW-144	Rock	33.67	81.9	11.57	1.12	8.92	1.70	11.18	2.50	8.64	1.55	11.36	1.79	23.6	0.8	73.3	225	9.2	12.3	0.9	1.0
11-BSW-160	Rock	9.89	37.4	7.03	1.52	5.70	0.87	5.11	0.99	2.89	0.44	2.79	0.40	0.3	2.9	3.6	5	6.2	6.5	<0.1	<0.1
11-BSW-147	Rock	2.79	11.9	3.05	0.81	4.36	0.68	4.27	1.00	2.99	0.45	2.80	0.45	36.0	7.2	2.8	120	40.4	10.8	1.1	2.8
11-BSW-170	Rock	34.83	85.2	11.70	1.06	9.15	1.76	11.60	2.69	9.31	1.70	12.08	1.90	10.4	0.9	76.6	404	2.9	19.2	0.6	0.4
11-BSW-130	Rock	33.18	100.4	13.95	3.35	9.63	1.33	6.98	1.33	3.50	0.54	3.40	0.49	8.5	5.5	34.1	53	2.4	5.5	0.6	0.2
11-BSW-169	Rock	32.51	82.9	11.24	1.06	9.24	1.72	11.35	2.72	9.08	1.68	12.32	1.89	1.1	0.7	77.8	197	0.6	8.6	0.6	0.2
11-BSW-132	Rock	4.63	17.2	2.70	0.60	2.96	0.43	2.81	0.61	1.77	0.25	1.60	0.23	10.5	23.4	10.8	742	71.5	86.7	10.4	5.8
11-BSW-157	Rock	11.16	47.5	9.61	3.51	8.85	1.22	6.39	1.17	2.90	0.40	2.19	0.33	0.2	1.2	1.9	97	80.2	1.0	0.2	<0.1
11-BSW-140	Rock	35.32	86.9	12.10	1.19	10.45	1.92	13.10	2.99	9.87	1.78	13.29	2.02	1.8	0.8	86.4	309	20.1	4.6	1.2	0.2
11-MGB-148	Rock	0.68	2.7	0.43	0.07	0.45	0.07	0.46	0.13	0.36	0.06	0.35	0.06	2.6	0.5	0.5	158	27.1	34.1	<0.1	<0.1



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX
		Bi	Ag	Au	Hg	Tl	Se
		ppm	ppm	ppb	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5
11-AAB-0130	Rock	<0.1	<0.1	0.5	0.02	<0.1	7.3
11-AAB-0128	Rock	<0.1	<0.1	2.8	0.07	<0.1	6.0
11-AAB-0119	Rock Chip	<0.1	0.1	0.9	0.03	<0.1	3.0
11-AAB-0129	Rock	<0.1	<0.1	1.0	0.10	<0.1	20.8
11-AAB-0156	Rock	0.9	<0.1	<0.5	<0.01	1.2	<0.5
11-AAB-0160	Rock	0.9	<0.1	<0.5	<0.01	1.4	<0.5
11-AAB-0157	Rock	1.2	<0.1	<0.5	<0.01	1.5	<0.5
11-AAB-0159	Rock	1.2	<0.1	<0.5	<0.01	1.4	<0.5
11-AAB-0131	Rock	<0.1	0.1	<0.5	0.02	0.2	1.1
11-AAB-0158	Rock	0.7	<0.1	<0.5	<0.01	1.5	<0.5
11-BSW-135	Rock	0.1	<0.1	3.4	<0.01	0.3	0.9
11-BSW-136	Rock	2.4	0.2	0.8	<0.01	0.3	1.0
11-BSW-146	Rock	<0.1	0.1	<0.5	<0.01	0.1	1.7
11-BSW-142	Rock	0.9	0.2	<0.5	<0.01	2.1	<0.5
11-BSW-139	Rock	0.6	<0.1	<0.5	<0.01	1.1	3.8
11-BSW-138	Rock	0.1	<0.1	<0.5	<0.01	0.2	1.2
11-BSW-171	Rock	0.9	0.1	<0.5	<0.01	1.4	<0.5
11-BSW-145	Rock	0.6	0.2	<0.5	<0.01	0.9	1.0
11-BSW-158	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BSW-143	Rock	0.9	0.1	<0.5	<0.01	1.5	<0.5
11-BSW-144	Rock	0.9	<0.1	<0.5	<0.01	1.7	<0.5
11-BSW-160	Rock	0.1	<0.1	<0.5	0.02	<0.1	<0.5
11-BSW-147	Rock	<0.1	0.1	0.7	<0.01	0.3	2.1
11-BSW-170	Rock	0.9	0.1	<0.5	<0.01	2.7	<0.5
11-BSW-130	Rock	0.8	0.1	<0.5	<0.01	0.7	<0.5
11-BSW-169	Rock	0.7	0.1	<0.5	<0.01	1.5	<0.5
11-BSW-132	Rock	0.5	0.3	0.5	<0.01	0.1	1.9
11-BSW-157	Rock	<0.1	<0.1	0.6	<0.01	<0.1	<0.5
11-BSW-140	Rock	0.9	<0.1	<0.5	<0.01	3.9	<0.5
11-MGB-148	Rock	<0.1	<0.1	0.6	<0.01	0.1	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-MGB-122	Rock	0.26	9	19	0.2	12.1	35.8	36.6	562.9	369.8	6	8.4	34.0	114.2	50.6	<8	2.1	1980	49.6	216.2	301.2
11-MGB-155	Rock	4.77	9	<1	0.3	0.2	0.7	0.3	1.7	5.7	<1	100.8	<0.1	0.7	0.2	<8	<0.5	10.4	7.6	5.4	17.1
11-MGB-112	Rock	3.14	29	<1	1.5	0.3	2.3	2.8	2.9	5.3	<1	2.9	0.1	3.5	0.4	<8	<0.5	84.8	2.6	5.1	12.3
11-MGB-121	Rock	0.90	23	15	3.1	9.3	29.9	29.9	498.6	333.2	5	11.0	27.4	98.7	32.0	12	8.3	1672	40.7	187.3	261.0
11-MGB-118	Rock	1.77	7	16	0.4	12.8	33.6	35.8	610.3	391.7	4	8.9	33.4	121.3	38.2	<8	9.1	2020	47.0	222.2	314.0
11-MGB-120	Rock	0.85	10	18	0.6	13.2	30.5	35.8	597.1	388.9	5	20.1	34.1	125.4	39.8	<8	6.0	2001	46.5	228.6	315.7
11-MGB-119	Rock	1.08	3	18	0.4	13.5	34.5	36.9	602.7	396.8	6	23.9	33.7	118.9	33.5	<8	6.4	2028	47.0	217.2	309.2
11-MGB-114	Rock	4.19	40	6	0.3	124.1	44.4	5.3	56.9	1112	71	12.3	80.7	4.9	3.3	<8	3.1	40.1	3.1	4.5	5.5
11-MGB-153	Rock	0.67	5	<1	0.4	0.2	0.6	0.2	2.1	3.0	<1	53.2	<0.1	0.8	0.5	<8	<0.5	9.7	3.0	2.8	5.5
11-MGB-147	Rock	5.35	391	2	3.4	0.3	4.1	3.4	4.2	3.9	<1	42.6	0.4	3.6	1.2	75	0.5	112.7	30.6	17.2	30.9
11-MGB-116	Rock	1.99	231	6	3.3	169.6	13.4	9.5	10.5	554.6	21	40.2	8.1	7.4	2.1	31	5.4	343.1	8.9	6.0	13.3
11-MGB-115	Rock	1.43	17	11	0.5	214.9	51.0	6.0	56.4	2569	82	11.1	75.0	4.4	4.1	<8	7.7	44.9	3.7	1.9	2.9
11-BSW-153	Rock	0.61	82	27	1.8	23.3	45.9	58.8	899.7	579.0	7	163.7	36.0	251.3	24.9	<8	3.7	2930	80.3	270.1	402.1
11-BSW-155	Rock	1.12	404	2	2.5	0.7	6.9	1.0	4.8	70.6	<1	11.2	0.5	3.1	9.2	539	<0.5	43.2	21.0	13.0	13.3
11-BSW-152	Rock	0.84	197	35	1.6	27.2	46.0	62.6	955.1	698.8	8	218.7	39.3	261.8	26.1	<8	3.0	3069	89.6	283.7	418.1
11-BSW-154	Rock	1.12	994	35	0.4	28.6	45.5	59.4	955.1	654.4	8	107.2	37.8	254.0	26.5	<8	6.0	2987	81.5	264.3	405.1
11-BSW-150	Rock	1.37	24	31	0.4	21.9	44.3	61.8	934.8	654.9	8	86.0	37.8	267.8	25.6	<8	2.9	3041	83.9	283.8	416.7
11-BSW-131	Rock	0.78	37	18	0.7	18.7	36.3	31.0	490.0	403.9	5	29.1	19.1	161.0	38.2	<8	8.4	1791	42.3	229.2	300.1
11-BSW-133	Rock	0.53	14	18	0.6	17.5	34.8	27.0	383.7	377.0	4	28.5	14.2	153.3	36.2	<8	6.3	1595	33.1	183.9	237.6
11-BSW-134	Rock	0.69	319	8	1.2	31.2	26.6	15.9	262.0	287.9	2	84.4	10.9	94.3	22.7	13	1.9	873.6	23.4	149.4	202.0
11-BSW-151	Rock	1.52	248	31	0.8	23.1	41.0	59.4	907.4	587.3	7	371.0	36.8	263.5	26.4	<8	6.1	2901	78.5	275.9	413.2
11-BSW-137	Rock	1.23	48	18	0.4	22.0	36.9	33.4	475.7	490.7	4	13.7	18.3	186.9	45.7	<8	3.3	1992	40.3	211.0	265.0
11-BSW-141	Rock	2.46	36	32	0.4	21.2	45.6	62.8	966.0	628.6	7	10.0	40.1	264.3	26.8	<8	8.2	3064	82.0	281.8	416.8



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-MGB-122	Rock	24.47	63.4	7.97	0.86	6.63	1.17	7.53	1.71	5.69	0.99	7.57	1.13	3.7	1.1	54.1	120	0.6	6.4	0.3	0.2
11-MGB-155	Rock	2.39	9.6	1.75	0.41	1.44	0.23	1.36	0.27	0.73	0.11	0.67	0.08	<0.1	1.7	0.3	2	0.9	5.4	<0.1	1.0
11-MGB-112	Rock	1.25	4.1	0.79	0.14	0.70	0.10	0.54	0.11	0.33	0.05	0.39	0.06	0.2	8.9	3.3	7	5.2	1.0	<0.1	<0.1
11-MGB-121	Rock	20.49	53.6	6.40	0.72	5.26	0.96	5.89	1.37	4.65	0.77	5.68	0.84	10.0	2.4	46.3	164	19.8	7.5	0.4	0.2
11-MGB-118	Rock	24.46	64.9	7.49	0.83	5.88	1.10	7.03	1.51	5.20	0.95	6.57	1.01	6.0	1.1	44.4	108	0.5	5.4	0.2	<0.1
11-MGB-120	Rock	24.84	64.6	7.56	0.79	6.08	1.10	7.27	1.48	5.28	0.93	6.67	1.00	2.2	1.5	42.3	107	0.5	5.1	0.3	<0.1
11-MGB-119	Rock	23.81	62.5	7.61	0.80	5.74	1.09	6.35	1.51	5.13	0.92	6.49	1.01	2.3	1.4	56.5	144	0.4	4.7	0.6	0.1
11-MGB-114	Rock	0.43	1.0	0.20	0.04	0.26	0.06	0.40	0.11	0.27	0.05	0.31	0.04	<0.1	1.8	11.4	5	0.8	1.4	<0.1	<0.1
11-MGB-153	Rock	0.80	3.2	0.52	0.12	0.51	0.07	0.36	0.07	0.16	0.03	0.16	0.03	0.1	0.6	0.5	<1	0.6	3.7	<0.1	<0.1
11-MGB-147	Rock	4.13	18.1	3.31	0.87	4.15	0.74	4.17	0.88	2.67	0.44	2.85	0.46	0.2	3.7	1.1	91	9.4	2.3	0.1	<0.1
11-MGB-116	Rock	1.33	5.0	0.94	0.22	1.05	0.18	1.25	0.29	1.04	0.17	1.37	0.20	0.1	11.0	7.2	9	3.2	2.9	<0.1	<0.1
11-MGB-115	Rock	0.24	0.8	0.17	0.03	0.28	0.08	0.49	0.10	0.32	0.06	0.36	0.04	<0.1	0.7	9.4	8	0.9	0.5	<0.1	<0.1
11-BSW-153	Rock	31.93	80.0	10.17	1.04	7.91	1.65	10.31	2.48	8.54	1.54	10.93	1.70	0.8	0.9	67.9	262	2.2	3.4	1.4	0.1
11-BSW-155	Rock	2.88	12.5	2.51	0.54	2.83	0.43	2.43	0.55	1.72	0.25	1.42	0.22	9.1	15.6	2.6	345	151.7	4.2	2.3	1.3
11-BSW-152	Rock	33.47	82.5	10.61	1.08	8.69	1.82	11.27	2.66	9.04	1.67	11.91	1.89	1.2	0.8	85.0	287	5.1	13.4	0.6	<0.1
11-BSW-154	Rock	31.69	81.1	10.16	1.03	7.99	1.67	11.17	2.48	8.74	1.59	11.19	1.83	7.1	0.6	75.3	262	25.4	19.2	1.2	0.1
11-BSW-150	Rock	33.32	84.3	10.57	1.05	8.51	1.80	11.42	2.61	9.10	1.62	12.03	1.84	6.3	1.1	90.7	252	2.9	37.5	0.6	0.2
11-BSW-131	Rock	22.11	56.5	6.13	1.03	4.73	0.90	5.59	1.32	4.34	0.83	6.09	0.96	6.0	0.8	63.4	139	0.5	16.8	0.3	0.2
11-BSW-133	Rock	16.93	43.1	4.39	0.90	3.49	0.69	4.27	1.06	3.65	0.69	4.92	0.76	5.6	1.2	57.4	101	0.5	13.2	0.3	0.2
11-BSW-134	Rock	15.53	40.7	4.81	1.02	2.94	0.60	3.33	0.79	2.58	0.42	2.96	0.47	0.8	1.1	37.9	142	8.2	5.3	2.4	<0.1
11-BSW-151	Rock	32.29	81.6	10.60	1.08	7.43	1.70	11.04	2.49	8.41	1.64	11.17	1.78	1.4	1.0	79.0	236	4.0	18.2	0.6	0.1
11-BSW-137	Rock	19.19	45.8	5.40	0.90	3.91	0.82	5.25	1.22	4.41	0.84	6.27	0.97	3.9	0.8	67.8	121	0.4	16.8	0.3	0.2
11-BSW-141	Rock	32.81	76.8	10.62	1.06	8.22	1.70	11.30	2.65	9.00	1.63	11.69	1.90	4.2	1.1	76.3	192	1.1	17.8	0.4	0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX
		Bi	Ag	Au	Hg	Tl	Se
		ppm	ppm	ppb	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5
11-MGB-122	Rock	0.3	<0.1	<0.5	<0.01	1.0	<0.5
11-MGB-155	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-112	Rock	<0.1	<0.1	2.5	0.02	<0.1	<0.5
11-MGB-121	Rock	0.3	0.1	<0.5	0.01	1.0	<0.5
11-MGB-118	Rock	0.3	0.1	<0.5	<0.01	0.9	<0.5
11-MGB-120	Rock	0.2	<0.1	<0.5	0.01	0.8	<0.5
11-MGB-119	Rock	0.6	0.1	<0.5	<0.01	1.3	<0.5
11-MGB-114	Rock	4.1	<0.1	<0.5	<0.01	0.3	<0.5
11-MGB-153	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-147	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-116	Rock	0.4	<0.1	<0.5	<0.01	2.2	<0.5
11-MGB-115	Rock	5.5	<0.1	<0.5	<0.01	0.9	<0.5
11-BSW-153	Rock	0.8	0.3	<0.5	<0.01	1.5	<0.5
11-BSW-155	Rock	0.8	0.4	<0.5	0.01	0.5	<0.5
11-BSW-152	Rock	0.8	0.1	<0.5	<0.01	1.4	<0.5
11-BSW-154	Rock	0.8	<0.1	<0.5	<0.01	4.4	<0.5
11-BSW-150	Rock	0.9	0.1	<0.5	<0.01	2.1	<0.5
11-BSW-131	Rock	0.8	<0.1	<0.5	<0.01	1.4	<0.5
11-BSW-133	Rock	0.8	<0.1	<0.5	<0.01	1.1	<0.5
11-BSW-134	Rock	0.4	<0.1	<0.5	<0.01	0.5	<0.5
11-BSW-151	Rock	0.8	<0.1	<0.5	<0.01	1.4	<0.5
11-BSW-137	Rock	0.9	<0.1	<0.5	<0.01	1.2	<0.5
11-BSW-141	Rock	0.9	<0.1	<0.5	<0.01	2.4	<0.5



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QUALITY CONTROL REPORT

VAN11002821.1

	Method Analyte Unit MDL	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
Pulp Duplicates																					
11-BSW-136	Rock	1.74	349	16	2.5	2.2	5.9	4.6	61.8	46.7	8	96.2	1.9	142.0	183.0	694	15.0	275.9	51.0	232.5	208.3
REP 11-BSW-136	QC																				
11-BSW-145	Rock	1.46	524	16	1.8	11.7	25.8	31.5	470.0	336.6	5	75.8	19.5	117.2	16.1	404	5.2	1551	51.5	146.8	216.2
REP 11-BSW-145	QC		513	21	1.9	11.7	25.4	32.8	465.4	330.9	4	72.5	19.8	117.1	16.1	399	4.9	1530	51.2	145.4	214.4
11-BSW-153	Rock	0.61	82	27	1.8	23.3	45.9	58.8	899.7	579.0	7	163.7	36.0	251.3	24.9	<8	3.7	2930	80.3	270.1	402.1
REP 11-BSW-153	QC																				
11-BSW-151	Rock	1.52	248	31	0.8	23.1	41.0	59.4	907.4	587.3	7	371.0	36.8	263.5	26.4	<8	6.1	2901	78.5	275.9	413.2
REP 11-BSW-151	QC		252	35	0.7	24.4	45.3	61.1	931.1	611.1	7	380.6	37.7	262.2	28.0	<8	6.9	2965	80.4	284.8	418.3
Core Reject Duplicates																					
11-AAB-0157	Rock	2.39	28	31	0.4	21.6	44.6	55.5	809.7	574.0	7	29.0	34.1	208.3	23.1	<8	7.6	2745	75.2	238.9	362.8
DUP 11-AAB-0157	QC		29	34	0.4	22.0	46.5	56.8	848.4	598.7	8	30.3	35.1	214.1	24.3	<8	7.8	2863	79.8	249.2	380.1
11-MGB-115	Rock	1.43	17	11	0.5	214.9	51.0	6.0	56.4	2569	82	11.1	75.0	4.4	4.1	<8	7.7	44.9	3.7	1.9	2.9
DUP 11-MGB-115	QC		18	9	0.3	205.0	48.8	6.0	57.2	2434	77	11.9	75.8	3.3	3.5	<8	7.9	45.5	3.4	1.9	2.5
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD SO-18	Standard		500	<1	25.5	6.7	17.1	8.9	20.7	27.0	15	383.7	6.9	9.8	15.0	197	14.0	275.1	30.0	11.3	25.4
STD SO-18	Standard		553	<1	27.8	7.4	18.5	9.6	21.0	29.7	16	406.3	7.3	10.5	15.4	209	14.9	319.0	34.0	12.6	27.6
STD SO-18	Standard		536	1	25.6	7.4	18.7	9.9	23.1	29.9	15	406.5	7.7	11.3	16.9	203	15.2	299.1	31.7	13.0	28.4
STD SO-18	Standard		533	<1	27.5	7.3	20.3	10.6	22.1	29.7	16	423.5	7.6	10.7	17.6	214	16.1	314.4	33.7	13.3	29.0
STD DS8 Expected																					
STD OREAS45CA Expected																					
STD SO-18 Expected			514	1	26.2	7.1	17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1
BLK	Blank		<1	<1	<0.2	<0.1	<0.5	<0.1	0.2	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
Pulp Duplicates																					
11-BSW-136	Rock	17.23	46.3	6.62	3.38	6.44	0.96	6.07	1.37	4.18	0.64	4.01	0.60	0.7	4.0	55.4	505	131.8	508.8	6.2	41.9
REP 11-BSW-136	QC													0.8	3.9	55.2	499	134.7	513.2	5.9	41.1
11-BSW-145	Rock	18.32	48.8	6.90	0.78	6.13	1.06	6.84	1.64	5.36	0.96	6.87	1.10	8.0	11.8	48.7	280	40.5	84.2	4.0	1.1
REP 11-BSW-145	QC	18.08	47.5	7.00	0.75	5.78	1.05	7.02	1.59	5.33	0.95	6.80	1.07								
11-BSW-153	Rock	31.93	80.0	10.17	1.04	7.91	1.65	10.31	2.48	8.54	1.54	10.93	1.70	0.8	0.9	67.9	262	2.2	3.4	1.4	0.1
REP 11-BSW-153	QC													1.1	0.7	68.8	265	2.0	4.0	1.7	0.1
11-BSW-151	Rock	32.29	81.6	10.60	1.08	7.43	1.70	11.04	2.49	8.41	1.64	11.17	1.78	1.4	1.0	79.0	236	4.0	18.2	0.6	0.1
REP 11-BSW-151	QC	33.29	80.4	10.77	1.07	8.30	1.74	11.07	2.53	8.40	1.59	11.34	1.83								
Core Reject Duplicates																					
11-AAB-0157	Rock	29.06	68.8	10.05	0.98	7.97	1.53	10.15	2.29	7.95	1.44	10.76	1.68	1.4	0.4	100.6	228	0.6	10.6	0.2	<0.1
DUP 11-AAB-0157	QC	30.34	74.5	10.56	1.03	8.35	1.56	10.66	2.45	8.52	1.50	10.91	1.75	1.2	0.4	81.2	196	0.6	9.1	0.2	<0.1
11-MGB-115	Rock	0.24	0.8	0.17	0.03	0.28	0.08	0.49	0.10	0.32	0.06	0.36	0.04	<0.1	0.7	9.4	8	0.9	0.5	<0.1	<0.1
DUP 11-MGB-115	QC	0.21	0.8	0.16	0.04	0.22	0.07	0.54	0.10	0.32	0.05	0.35	0.04	<0.1	1.0	9.3	7	0.6	<0.5	<0.1	<0.1
Reference Materials																					
STD DS8	Standard													12.4	105.3	113.5	303	38.1	24.8	1.9	3.3
STD DS8	Standard													13.1	112.8	121.0	307	38.7	26.0	2.5	3.8
STD OREAS45CA	Standard													0.8	505.1	21.1	61	258.0	4.2	<0.1	0.1
STD OREAS45CA	Standard													0.9	524.3	19.0	61	249.6	3.5	0.1	0.1
STD SO-18	Standard	3.26	13.8	2.83	0.85	2.91	0.49	2.88	0.60	1.75	0.27	1.72	0.26								
STD SO-18	Standard	3.55	14.7	3.09	0.92	3.03	0.51	3.06	0.63	1.89	0.28	1.86	0.28								
STD SO-18	Standard	3.56	13.0	3.10	0.92	2.98	0.52	3.11	0.68	1.83	0.29	1.75	0.29								
STD SO-18	Standard	3.61	14.3	3.16	0.95	3.06	0.54	3.20	0.68	1.90	0.29	1.92	0.28								
STD DS8 Expected														13.44	110	123	312	38.1	26	2.38	4.8
STD OREAS45CA Expected														1	494	20	60	240	3.8	0.1	0.13
STD SO-18 Expected		3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.27	1.79	0.27								
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1



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QUALITY CONTROL REPORT

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Method		1DX	1DX	1DX	1DX	1DX	1DX
Analyte		Bi	Ag	Au	Hg	Tl	Se
Unit		ppm	ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.5	0.01	0.1	0.5
Pulp Duplicates							
11-BSW-136	Rock	2.4	0.2	0.8	<0.01	0.3	1.0
REP 11-BSW-136	QC	2.4	0.2	0.6	<0.01	0.4	1.1
11-BSW-145	Rock	0.6	0.2	<0.5	<0.01	0.9	1.0
REP 11-BSW-145	QC						
11-BSW-153	Rock	0.8	0.3	<0.5	<0.01	1.5	<0.5
REP 11-BSW-153	QC	0.8	0.4	<0.5	<0.01	1.6	<0.5
11-BSW-151	Rock	0.8	<0.1	<0.5	<0.01	1.4	<0.5
REP 11-BSW-151	QC						
Core Reject Duplicates							
11-AAB-0157	Rock	1.2	<0.1	<0.5	<0.01	1.5	<0.5
DUP 11-AAB-0157	QC	0.9	<0.1	<0.5	<0.01	1.2	<0.5
11-MGB-115	Rock	5.5	<0.1	<0.5	<0.01	0.9	<0.5
DUP 11-MGB-115	QC	4.8	<0.1	<0.5	0.01	0.7	<0.5
Reference Materials							
STD DS8	Standard	5.5	1.8	85.8	0.18	5.1	5.2
STD DS8	Standard	6.1	1.7	95.8	0.19	5.3	5.9
STD OREAS45CA	Standard	0.2	0.3	37.8	0.05	<0.1	0.8
STD OREAS45CA	Standard	0.2	0.3	36.9	0.02	<0.1	<0.5
STD SO-18	Standard						
STD SO-18	Standard						
STD SO-18	Standard						
STD SO-18	Standard						
STD DS8 Expected		6.67	1.69	107	0.192	5.4	5.23
STD OREAS45CA Expected		0.19	0.275	43	0.03	0.07	0.5
STD SO-18 Expected							
BLK	Blank						
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5



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Project: TING PROP

Report Date: August 04, 2011

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QUALITY CONTROL REPORT

VAN11002821.1

		WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
BLK	Blank		<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1
Prep Wash																					
G1	Prep Blank	<0.01	1283	3	4.3	3.4	20.2	4.3	22.3	136.6	2	852.9	1.2	9.7	3.5	53	<0.5	163.3	16.8	35.3	66.4
G1	Prep Blank	<0.01	1320	2	3.9	3.4	19.5	4.7	22.3	135.1	2	860.0	1.1	10.5	3.4	53	<0.5	170.0	16.3	37.0	70.5



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QUALITY CONTROL REPORT

VAN11002821.1

		4B Pr ppm 0.02	4B Nd ppm 0.3	4B Sm ppm 0.05	4B Eu ppm 0.02	4B Gd ppm 0.05	4B Tb ppm 0.01	4B Dy ppm 0.05	4B Ho ppm 0.02	4B Er ppm 0.03	4B Tm ppm 0.01	4B Yb ppm 0.05	4B Lu ppm 0.01	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ni ppm 0.1	1DX As ppm 0.5	1DX Cd ppm 0.1	1DX Sb ppm 0.1
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
Prep Wash																					
G1	Prep Blank	7.61	27.2	4.78	1.20	3.55	0.54	2.81	0.58	1.62	0.28	1.82	0.31	<0.1	2.8	2.6	45	1.4	<0.5	<0.1	<0.1
G1	Prep Blank	7.83	29.0	5.07	1.28	3.74	0.55	2.76	0.58	1.64	0.28	1.84	0.32	0.2	3.0	2.6	44	1.2	<0.5	<0.1	<0.1

QUALITY CONTROL REPORT

VAN11002821.1

		1DX Bi ppm 0.1	1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
BLK	Blank						
Prep Wash							
G1	Prep Blank	<0.1	<0.1	2.2	<0.01	0.3	<0.5
G1	Prep Blank	<0.1	<0.1	1.1	<0.01	0.3	<0.5



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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: July 07, 2011

Report Date: August 20, 2011

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CERTIFICATE OF ANALYSIS

VAN11003013.1

CLIENT JOB INFORMATION

Project: TING PROP B
Shipment ID: Greyhound51736995855
P.O. Number
Number of Samples: 181

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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: Harsbo Minerals Ltd.
4758 Victory Street
Burnaby BC V5J 1S2
Canada

CC: Lee A. Groat
Thomas Hasek
Michael Burns
David Turner

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	173	Dry at 60C			VAN
SS80	173	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	173	Saving all or part of Soil Reject			VAN
4B02	173	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	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: TING PROP B

Report Date: August 20, 2011

Page: 2 of 8 Part 1

CERTIFICATE OF ANALYSIS

VAN11003013.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-AAB-0219	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-AAB-0214	Soil	2864	3	12.7	5.7	14.5	6.2	9.3	81.9	2	94.4	0.6	7.9	4.6	263	1.6	259.7	21.4	25.9	48.0
11-AAB-0212	Soil	5167	3	18.6	5.9	15.9	8.6	11.6	82.5	2	129.3	0.7	9.3	5.9	277	1.7	341.8	28.6	31.9	56.9
11-AAB-0202	Soil	1276	1	15.0	3.3	11.0	12.2	7.5	44.8	2	72.4	0.4	6.8	4.8	165	1.2	468.3	22.3	22.0	39.6
11-AAB-0208	Soil	242	2	168.3	0.9	3.2	0.2	1.1	6.3	<1	28.5	<0.1	1.3	0.5	22	<0.5	14.4	27.4	4.0	7.5
11-AAB-0209	Soil	1824	3	16.4	4.9	14.6	8.9	10.5	61.7	2	102.0	0.8	9.1	3.6	181	1.3	327.4	23.3	28.3	54.8
11-AAB-0200	Soil	2061	2	18.9	6.6	18.8	8.3	12.6	99.0	2	111.6	0.7	10.3	4.4	240	1.1	319.6	28.8	34.9	66.1
11-AAB-0203	Soil	882	1	8.9	2.9	9.8	17.2	9.5	41.5	2	79.3	0.7	7.6	4.5	158	1.1	622.2	25.5	22.9	43.8
11-AAB-0207	Soil	1235	2	9.4	3.2	10.2	7.5	8.0	45.5	1	77.0	0.6	8.2	4.7	158	1.5	266.6	20.3	20.3	37.4
11-AAB-0211	Soil	4931	4	23.1	6.9	17.4	5.3	11.1	99.7	2	128.5	0.9	10.8	3.6	240	1.3	213.3	25.6	32.3	61.5
11-AAB-0216	Soil	4251	3	23.8	5.9	19.1	4.9	10.4	97.4	2	134.2	0.7	10.4	4.4	237	1.4	201.6	26.6	31.2	59.0
11-AAB-0205	Soil	140	<1	3.5	0.8	6.0	1.8	2.8	9.4	<1	76.0	0.2	3.0	0.9	29	<0.5	64.6	5.6	8.9	17.9
11-AAB-0226	Soil	643	2	19.3	5.2	19.4	8.7	10.7	60.4	2	119.6	0.7	11.5	2.9	171	1.3	313.2	33.6	32.8	64.1
11-AAB-0204	Soil	929	3	13.5	3.8	12.7	13.5	14.4	59.5	2	104.1	1.0	9.5	4.7	184	1.4	527.1	30.8	31.0	59.8
11-AAB-0217	Soil	1725	4	15.8	4.4	15.2	9.1	10.8	60.1	2	98.3	0.7	9.4	3.6	157	1.5	360.1	26.3	28.3	55.7
11-AAB-0227	Soil	728	2	20.6	4.5	18.0	13.0	11.4	57.3	2	120.3	0.7	11.3	3.2	163	1.1	502.0	30.1	32.6	62.5
11-AAB-0178	Soil	3085	<1	1.6	3.4	8.9	14.9	7.8	36.4	1	63.3	0.7	6.0	2.5	110	0.9	600.5	16.2	16.9	32.2
11-MGB-202	Soil	1194	2	17.9	5.3	16.1	8.7	14.6	74.9	3	146.2	1.0	11.7	3.8	172	1.3	346.0	32.5	35.4	68.9
11-MGB-253	Soil	366	8	1.6	9.9	3.3	2.4	4.6	18.4	<1	259.4	0.2	1.8	1.2	53	2.4	93.5	9.5	9.4	19.2
11-MGB-221	Soil	1242	<1	8.3	3.0	8.9	5.6	11.3	55.4	1	91.7	0.7	8.2	3.7	179	0.9	227.9	22.3	25.8	49.5
11-MGB-224	Soil	1058	<1	5.2	3.6	8.4	9.5	11.6	56.6	1	102.1	0.8	8.3	2.6	63	0.8	344.2	17.4	21.5	49.8
11-MGB-222	Soil	1962	2	8.4	3.2	8.4	5.0	11.5	52.2	<1	90.0	0.7	7.1	3.8	211	1.2	206.2	22.6	24.1	46.5
11-MGB-226	Soil	832	2	12.0	6.5	17.7	7.7	10.0	134.2	2	67.9	0.7	17.0	3.5	69	0.9	303.4	31.4	30.5	63.8
11-MGB-192	Soil	2757	<1	5.2	2.3	6.6	5.3	14.4	41.9	<1	100.0	1.0	5.8	3.5	165	0.8	208.8	17.7	22.1	39.8
11-WJH-025	Soil	3476	2	3.2	6.0	12.7	6.7	50.8	106.4	2	95.2	2.7	14.2	7.6	379	5.0	294.7	29.4	48.3	79.2
11-WJH-029	Soil	2187	<1	4.5	5.7	13.3	7.5	35.9	104.9	2	124.6	2.2	12.5	5.7	326	3.3	322.1	26.9	45.4	79.4
11-JAM-082	Soil	974	7	13.0	10.8	14.7	10.5	56.6	112.5	4	110.5	2.5	26.2	8.2	128	46.4	419.4	33.7	54.7	104.1
11-JAM-067	Soil	873	3	6.8	7.3	15.1	9.3	31.3	111.5	3	123.5	1.8	12.8	3.8	135	6.8	382.7	24.9	51.2	89.9
11-JAM-078	Soil	1263	4	10.1	9.5	13.5	8.4	42.8	112.2	3	100.0	2.2	18.4	5.3	189	12.8	353.0	27.0	49.9	97.5
11-JAM-136	Soil	1054	7	7.9	10.4	14.2	10.4	65.4	127.8	3	126.2	3.3	29.6	10.0	177	20.5	418.8	59.5	135.8	134.6



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CERTIFICATE OF ANALYSIS

VAN11003013.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm 0.3	ppm 0.05	ppm 0.02	ppm 0.05	ppm 0.01	ppm 0.05	ppm 0.02	ppm 0.03	ppm 0.01	ppm 0.05	ppm 0.01	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.5	ppm 0.1	ppm 0.1
11-AAB-0219	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-AAB-0214	Soil	22.1	4.20	0.80	3.20	0.53	3.15	0.69	1.98	0.32	2.02	0.34	11.0	22.8	16.1	150	34.9	18.9	1.1	0.5
11-AAB-0212	Soil	27.5	4.98	0.93	4.28	0.70	4.16	0.89	2.72	0.40	2.64	0.42	9.3	27.4	25.8	252	64.9	25.5	2.3	0.3
11-AAB-0202	Soil	18.4	3.32	0.72	3.00	0.54	3.29	0.69	2.10	0.32	2.12	0.37	8.3	18.4	13.0	202	51.7	19.2	1.7	0.4
11-AAB-0208	Soil	4.7	1.40	0.38	2.39	0.41	2.36	0.58	1.62	0.21	1.21	0.19	2.0	1.2	1.8	1381	270.6	11.7	<0.1	<0.1
11-AAB-0209	Soil	24.4	4.64	0.91	3.75	0.62	3.85	0.79	2.35	0.35	2.23	0.37	3.5	16.2	25.3	106	30.2	20.9	0.7	0.1
11-AAB-0200	Soil	30.5	5.48	1.08	4.45	0.74	4.61	0.97	2.91	0.42	2.73	0.44	3.2	24.0	17.8	223	50.5	19.6	0.9	<0.1
11-AAB-0203	Soil	19.9	3.78	0.81	3.71	0.65	4.01	0.86	2.71	0.42	2.65	0.44	6.6	15.9	11.6	69	17.1	12.3	0.5	0.3
11-AAB-0207	Soil	18.5	3.49	0.70	3.09	0.54	3.10	0.66	2.02	0.28	1.91	0.30	9.2	16.7	18.7	153	40.1	24.4	1.8	0.4
11-AAB-0211	Soil	27.7	5.15	0.92	4.42	0.70	3.93	0.89	2.64	0.38	2.40	0.40	3.3	23.3	23.0	207	58.0	16.0	1.5	0.1
11-AAB-0216	Soil	28.3	4.91	0.93	4.34	0.71	4.15	0.92	2.54	0.40	2.61	0.40	4.3	31.6	23.8	233	59.4	21.8	1.4	0.1
11-AAB-0205	Soil	7.7	1.31	0.30	1.10	0.16	0.88	0.19	0.48	0.08	0.56	0.08	0.5	3.5	2.9	272	3.3	5.0	<0.1	<0.1
11-AAB-0226	Soil	31.3	5.88	1.24	5.43	0.92	5.09	1.12	3.32	0.50	3.12	0.50	1.0	12.7	19.4	109	36.6	19.9	0.3	<0.1
11-AAB-0204	Soil	26.4	4.98	0.99	4.40	0.77	4.66	1.00	2.97	0.46	3.02	0.47	7.0	20.5	24.5	103	31.0	17.7	1.1	0.4
11-AAB-0217	Soil	25.8	4.68	1.00	4.15	0.69	4.22	0.87	2.57	0.41	2.57	0.41	1.7	17.5	17.0	135	41.4	16.1	0.5	<0.1
11-AAB-0227	Soil	29.7	5.66	1.20	4.95	0.81	4.78	1.07	2.91	0.45	3.08	0.47	0.9	12.0	19.8	99	33.7	17.9	0.3	<0.1
11-AAB-0178	Soil	14.8	2.68	0.46	2.24	0.39	2.41	0.53	1.65	0.27	1.77	0.30	2.4	16.2	9.4	34	8.6	19.7	<0.1	0.2
11-MGB-202	Soil	31.3	5.94	1.22	5.24	0.89	4.82	1.07	3.15	0.48	3.05	0.47	2.3	20.8	25.0	135	46.0	18.1	1.0	0.1
11-MGB-253	Soil	9.1	1.83	0.41	1.64	0.27	1.48	0.28	0.78	0.11	0.73	0.11	0.6	4.2	2.6	46	6.5	181.0	0.9	11.3
11-MGB-221	Soil	21.3	4.10	0.83	3.54	0.62	3.54	0.73	2.14	0.33	2.12	0.33	3.0	19.0	16.5	146	32.2	13.1	2.6	1.0
11-MGB-224	Soil	20.6	3.87	0.82	3.21	0.54	2.95	0.58	1.75	0.28	1.68	0.29	0.9	8.0	7.7	38	10.8	37.3	0.3	0.5
11-MGB-222	Soil	20.0	3.74	0.73	3.36	0.55	3.24	0.67	2.01	0.30	1.78	0.30	3.9	20.3	12.5	149	34.5	11.3	2.0	1.2
11-MGB-226	Soil	27.6	6.00	1.58	6.32	1.01	5.32	1.15	3.23	0.46	2.93	0.45	0.4	10.8	13.4	58	24.2	2.2	0.6	<0.1
11-MGB-192	Soil	17.6	3.06	0.57	2.55	0.43	2.45	0.54	1.56	0.23	1.47	0.24	7.5	13.9	25.4	133	29.0	13.8	1.6	1.0
11-WJH-025	Soil	32.0	5.21	0.98	4.24	0.68	4.19	0.94	2.63	0.39	2.61	0.39	16.5	25.1	23.9	173	36.5	31.6	0.8	1.0
11-WJH-029	Soil	31.7	5.30	1.04	4.22	0.67	3.97	0.84	2.60	0.37	2.44	0.39	14.0	16.1	20.8	122	24.9	23.6	0.9	1.0
11-JAM-082	Soil	35.5	6.61	1.35	5.40	0.91	5.25	1.14	3.22	0.49	3.18	0.52	3.8	17.0	124.0	165	24.9	40.9	1.6	2.6
11-JAM-067	Soil	35.0	5.55	0.99	4.24	0.67	4.01	0.86	2.61	0.40	2.55	0.40	8.4	6.1	73.4	176	13.7	12.3	0.9	0.4
11-JAM-078	Soil	35.1	5.84	1.12	4.47	0.73	4.32	0.91	2.72	0.40	2.67	0.41	5.9	15.7	158.9	219	34.5	46.9	1.1	2.7
11-JAM-136	Soil	63.9	9.88	2.08	8.76	1.32	7.37	1.52	4.41	0.67	4.24	0.65	10.8	35.7	192.6	314	25.7	42.6	1.9	4.8



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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Mackevoy Geosciences**

537 Kenneth Street
Victoria BC V8Z 2B6 Canada

Project: TING PROP B

Report Date: August 20, 2011

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CERTIFICATE OF ANALYSIS

VAN11003013.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-AAB-0219	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-AAB-0214	Soil	0.3	1.1	0.06	0.4	2.8
11-AAB-0212	Soil	0.4	0.9	0.10	0.5	3.7
11-AAB-0202	Soil	0.2	0.8	0.06	0.3	2.0
11-AAB-0208	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0209	Soil	0.3	<0.5	0.07	0.2	1.8
11-AAB-0200	Soil	0.3	0.9	0.08	0.2	2.1
11-AAB-0203	Soil	0.2	<0.5	0.04	0.2	1.6
11-AAB-0207	Soil	0.2	0.8	0.07	0.9	2.5
11-AAB-0211	Soil	0.4	0.7	0.07	0.2	2.7
11-AAB-0216	Soil	0.4	0.6	0.06	0.1	3.8
11-AAB-0205	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0226	Soil	0.4	0.8	0.10	<0.1	1.3
11-AAB-0204	Soil	0.4	0.8	0.08	0.2	1.6
11-AAB-0217	Soil	0.4	<0.5	0.07	<0.1	1.8
11-AAB-0227	Soil	0.3	0.6	0.07	<0.1	1.1
11-AAB-0178	Soil	0.3	1.1	0.06	<0.1	1.5
11-MGB-202	Soil	0.3	1.2	0.06	0.1	1.6
11-MGB-253	Soil	<0.1	0.7	0.05	0.4	1.3
11-MGB-221	Soil	0.2	0.9	0.11	0.2	0.8
11-MGB-224	Soil	<0.1	0.5	0.10	1.9	<0.5
11-MGB-222	Soil	0.3	<0.5	0.09	0.3	1.4
11-MGB-226	Soil	0.1	0.8	0.10	0.4	<0.5
11-MGB-192	Soil	0.2	0.6	0.06	0.4	1.0
11-WJH-025	Soil	0.2	1.3	0.14	0.7	3.0
11-WJH-029	Soil	0.2	0.9	0.07	0.6	1.8
11-JAM-082	Soil	0.6	2.2	0.04	0.5	0.6
11-JAM-067	Soil	1.0	0.6	0.01	0.2	<0.5
11-JAM-078	Soil	0.4	0.9	0.05	0.6	0.9
11-JAM-136	Soil	1.2	2.8	0.06	0.5	0.8



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-JAM-083	Soil	966	2	9.3	8.2	14.0	10.1	32.4	126.7	3	145.1	2.0	15.8	4.1	141	4.1	388.7	28.9	49.9
11-JAM-077	Soil	1118	6	12.1	11.9	15.4	8.3	37.3	119.2	4	99.5	2.2	19.1	4.4	185	15.8	332.0	45.8	76.5
11-JAM-059	Soil	1071	2	8.0	8.2	15.3	9.2	29.4	155.7	3	122.1	1.7	14.8	3.7	165	4.4	348.4	24.3	43.6
11-JAM-055	Soil	1640	4	1.4	7.1	12.8	4.5	12.5	88.5	1	116.5	0.8	6.5	8.7	430	1.9	189.9	22.2	27.3
11-JAM-120	Soil	776	5	13.7	9.8	14.8	8.2	54.8	91.0	3	54.8	2.5	27.7	4.4	138	26.6	326.6	24.6	50.0
11-JAM-085	Soil	1130	3	10.7	10.5	13.8	8.9	39.6	128.3	4	103.8	2.1	19.3	8.1	149	23.9	364.7	25.5	51.0
11-JAM-086	Soil	167	2	2.2	2.3	2.7	1.7	8.8	19.8	<1	76.2	0.4	3.8	0.9	30	5.0	69.9	10.5	16.6
11-JAM-072	Soil	742	5	11.0	9.3	13.6	8.2	36.5	73.7	3	87.3	1.9	22.0	4.5	126	9.0	327.5	31.6	52.3
11-JAM-087	Soil	703	4	9.4	9.4	11.2	7.3	37.8	84.9	4	84.4	1.8	17.6	3.6	125	16.5	293.7	29.7	45.0
11-JAM-061	Soil	1307	6	8.6	12.8	16.0	9.6	85.2	168.9	4	103.5	4.4	30.1	7.5	173	23.3	395.0	35.4	76.2
11-JAM-071	Soil	885	4	9.6	13.5	15.6	9.5	54.7	128.0	3	108.9	2.7	25.8	4.8	136	20.6	390.9	27.0	55.2
11-JAM-119	Soil	888	4	11.0	12.0	12.5	7.8	43.1	110.1	3	73.4	2.4	16.7	3.9	142	16.3	299.1	26.4	47.3
11-JAM-141	Soil	1417	25	8.6	53.7	24.2	16.6	409.1	699.0	5	118.9	12.5	117.2	69.4	93	22.1	740.6	30.8	119.3
11-JAM-114	Soil	1240	5	8.4	8.9	13.3	10.0	64.6	121.7	4	113.2	3.0	22.6	5.5	131	14.7	405.3	29.4	57.9
11-JAM-116	Soil	1001	5	8.1	8.1	12.2	9.1	30.2	107.0	3	118.6	1.6	18.6	6.5	129	16.1	340.8	39.6	69.9
11-JAM-084	Soil	877	2	8.5	7.6	11.9	7.5	24.9	106.0	2	111.2	1.4	13.7	5.4	121	6.4	300.8	27.7	41.2
11-JAM-069	Soil	860	4	8.8	5.8	13.2	8.0	29.5	114.0	2	105.0	1.5	33.7	4.7	129	3.3	294.5	25.0	66.0
11-JAM-068	Soil	1011	5	7.8	8.1	14.5	10.3	70.2	131.3	3	118.2	3.4	24.0	5.0	135	17.6	414.7	26.6	69.9
11-JAM-081	Soil	957	5	11.3	8.1	13.4	8.5	42.6	89.7	4	100.4	2.1	20.7	4.9	126	18.4	321.3	31.2	54.4
11-JAM-102	Soil	890	7	9.8	10.6	15.4	11.8	119.4	134.8	4	88.3	5.5	36.8	6.4	138	62.2	493.6	20.4	63.9
11-JAM-117	Soil	1067	2	9.6	9.4	14.0	8.5	26.0	103.9	3	121.7	1.7	16.1	8.3	135	8.0	308.2	32.2	54.0
11-JAM-100	Soil	886	3	6.2	8.3	15.8	9.4	37.2	122.9	3	133.1	2.0	20.2	4.5	136	7.2	349.5	28.7	69.3
11-JAM-101	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-JAM-075	Soil	523	4	10.1	8.8	13.2	7.3	36.2	78.1	3	54.3	1.9	16.1	3.8	120	9.5	254.6	25.3	48.6
11-JAM-096	Soil	724	4	10.4	8.4	14.9	6.4	30.8	90.2	3	58.0	1.9	14.1	3.8	136	9.8	252.6	25.3	48.2
11-JAM-097	Soil	831	2	10.0	8.0	13.7	8.2	29.1	90.2	4	80.9	1.7	16.9	3.8	139	9.4	310.9	24.1	38.8
11-JAM-051	Soil	4758	2	6.4	7.3	13.6	6.3	16.7	98.2	2	79.7	1.1	10.2	7.1	533	1.7	230.8	27.2	39.9
11-AAB-0230	Soil	523	2	16.0	4.0	15.6	6.8	14.1	49.2	2	135.3	0.9	10.5	3.2	169	2.4	269.8	29.2	33.0
11-AAB-0228	Soil	362	<1	13.9	2.9	13.3	9.9	10.2	38.6	2	128.5	0.7	10.0	2.8	136	2.4	390.7	27.0	29.2
11-AAB-0224	Soil	615	2	29.4	4.2	15.6	11.4	9.9	54.2	2	166.9	0.7	10.8	3.4	164	1.5	431.5	33.2	31.9



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-JAM-083	Soil	37.4	6.26	1.17	4.73	0.80	4.61	0.98	2.71	0.42	2.81	0.46	2.4	7.0	43.2	100	17.5	14.0	0.6	0.6
11-JAM-077	Soil	51.9	8.78	1.89	7.72	1.25	7.00	1.52	4.34	0.65	3.86	0.62	3.5	15.9	243.8	221	34.7	47.5	1.1	2.3
11-JAM-059	Soil	32.0	5.45	0.98	4.11	0.67	3.71	0.84	2.61	0.40	2.47	0.38	4.4	9.8	86.6	266	21.0	19.5	1.6	0.6
11-JAM-055	Soil	22.2	4.12	0.90	4.24	0.61	3.45	0.72	2.04	0.27	1.60	0.25	111.2	12.7	9.3	35	7.6	43.9	<0.1	2.6
11-JAM-120	Soil	35.9	6.16	1.25	4.72	0.78	4.44	0.92	2.63	0.41	2.60	0.39	2.5	11.4	223.2	163	33.2	42.8	0.5	1.5
11-JAM-085	Soil	34.2	5.31	1.06	4.39	0.73	4.30	0.93	2.61	0.40	2.56	0.41	6.7	16.2	203.4	161	22.9	36.9	2.1	4.4
11-JAM-086	Soil	10.6	1.97	0.46	1.83	0.29	1.64	0.33	0.91	0.13	0.85	0.13	1.4	3.8	20.9	26	6.6	13.9	0.2	0.9
11-JAM-072	Soil	37.0	6.45	1.37	5.61	0.95	5.13	1.03	2.94	0.45	2.75	0.45	1.7	12.9	84.2	164	24.7	31.2	1.1	1.9
11-JAM-087	Soil	31.6	5.92	1.14	4.96	0.85	4.55	0.93	2.74	0.43	2.70	0.42	3.2	16.9	77.0	111	24.6	35.7	1.0	2.0
11-JAM-061	Soil	46.8	7.18	1.46	6.00	1.05	5.63	1.22	3.51	0.53	3.27	0.52	5.1	13.5	142.9	389	28.2	53.2	3.5	3.3
11-JAM-071	Soil	33.7	5.50	1.10	4.65	0.78	4.38	0.95	2.76	0.45	2.81	0.44	3.9	10.1	138.0	198	19.8	33.4	3.3	2.1
11-JAM-119	Soil	34.7	6.04	1.17	4.80	0.81	4.51	0.91	2.57	0.42	2.55	0.40	3.3	14.2	177.3	185	24.9	39.5	0.9	2.8
11-JAM-141	Soil	36.9	4.98	0.90	4.43	0.74	4.44	0.95	3.06	0.54	3.59	0.58	16.0	14.1	215.8	507	8.3	18.2	12.2	3.6
11-JAM-114	Soil	36.6	5.89	1.16	4.73	0.83	4.47	0.98	2.79	0.47	2.73	0.44	3.0	12.7	100.5	135	21.8	26.4	1.2	2.4
11-JAM-116	Soil	44.9	7.85	1.59	6.64	1.10	5.90	1.24	3.57	0.59	3.28	0.55	2.0	12.3	45.7	91	21.7	19.3	0.6	1.0
11-JAM-084	Soil	32.9	5.40	1.07	4.51	0.76	4.22	0.85	2.57	0.40	2.45	0.40	3.8	13.7	47.3	110	19.9	17.6	1.6	1.1
11-JAM-069	Soil	36.6	5.55	1.07	4.34	0.73	4.16	0.83	2.39	0.39	2.45	0.38	5.2	14.1	54.3	180	25.6	17.4	0.6	0.7
11-JAM-068	Soil	36.7	5.53	1.01	4.38	0.73	3.96	0.88	2.62	0.42	2.73	0.43	7.8	8.5	141.5	272	21.0	28.0	1.0	1.9
11-JAM-081	Soil	38.6	6.48	1.31	5.64	0.95	5.18	1.05	3.04	0.50	2.95	0.48	4.1	18.6	151.7	143	26.7	28.1	1.6	2.1
11-JAM-102	Soil	29.6	4.37	0.84	3.34	0.59	3.33	0.72	2.11	0.36	2.30	0.35	5.9	9.8	180.3	217	30.9	43.4	0.5	2.7
11-JAM-117	Soil	37.3	6.58	1.29	5.77	0.92	5.18	1.04	3.15	0.46	2.85	0.46	2.7	15.8	46.0	107	23.9	32.9	1.9	1.0
11-JAM-100	Soil	43.6	6.73	1.29	5.49	0.90	4.70	1.03	2.88	0.43	2.70	0.44	10.8	7.2	74.8	158	13.4	21.8	0.9	0.5
11-JAM-101	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-JAM-075	Soil	37.5	6.48	1.29	5.29	0.89	4.64	0.90	2.52	0.38	2.40	0.37	2.0	7.2	79.1	99	24.6	37.0	0.4	1.1
11-JAM-096	Soil	34.3	5.82	1.22	4.97	0.81	4.41	0.89	2.54	0.39	2.46	0.39	1.6	11.2	124.0	106	26.2	46.4	0.3	1.6
11-JAM-097	Soil	30.5	5.43	1.07	4.57	0.79	4.44	0.87	2.52	0.39	2.37	0.38	2.4	9.7	91.5	139	22.5	33.2	0.4	2.1
11-JAM-051	Soil	32.5	5.30	1.15	4.33	0.70	3.94	0.81	2.44	0.38	2.40	0.36	8.3	17.4	13.1	474	47.3	15.6	10.3	1.4
11-AAB-0230	Soil	30.2	5.34	1.13	4.49	0.79	4.34	0.92	2.89	0.43	2.51	0.41	1.8	15.5	23.3	92	34.6	22.6	0.5	0.1
11-AAB-0228	Soil	27.6	4.86	0.99	4.27	0.76	4.20	0.88	2.65	0.40	2.51	0.40	0.9	8.3	13.3	70	20.4	17.8	0.3	<0.1
11-AAB-0224	Soil	28.4	5.27	1.14	4.95	0.87	5.01	1.02	3.17	0.50	2.88	0.48	1.0	13.5	17.6	244	76.9	21.2	0.8	<0.1



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-083	Soil	0.2	<0.5	0.02	0.3	<0.5
11-JAM-077	Soil	1.3	1.9	0.09	0.8	0.5
11-JAM-059	Soil	0.5	1.3	0.02	0.4	<0.5
11-JAM-055	Soil	0.4	0.9	0.04	4.9	3.4
11-JAM-120	Soil	0.4	0.9	0.03	0.5	<0.5
11-JAM-085	Soil	0.6	0.9	0.04	0.4	0.9
11-JAM-086	Soil	0.1	<0.5	<0.01	0.2	<0.5
11-JAM-072	Soil	0.6	0.9	0.04	0.4	<0.5
11-JAM-087	Soil	0.8	1.6	0.04	0.4	<0.5
11-JAM-061	Soil	1.4	<0.5	0.05	0.4	0.6
11-JAM-071	Soil	0.3	<0.5	0.04	0.3	<0.5
11-JAM-119	Soil	0.6	0.7	0.05	0.5	<0.5
11-JAM-141	Soil	2.0	<0.5	0.03	1.6	<0.5
11-JAM-114	Soil	0.5	0.6	0.04	0.3	<0.5
11-JAM-116	Soil	0.3	<0.5	0.05	0.3	0.6
11-JAM-084	Soil	0.3	0.7	0.04	0.1	0.6
11-JAM-069	Soil	0.6	0.9	0.02	0.2	<0.5
11-JAM-068	Soil	0.8	0.7	0.01	0.3	<0.5
11-JAM-081	Soil	0.7	1.0	0.04	0.4	0.6
11-JAM-102	Soil	0.6	<0.5	0.02	0.4	<0.5
11-JAM-117	Soil	0.3	0.7	0.04	0.3	0.5
11-JAM-100	Soil	0.6	<0.5	0.02	0.2	<0.5
11-JAM-101	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-JAM-075	Soil	0.5	0.8	0.03	0.4	<0.5
11-JAM-096	Soil	1.0	<0.5	0.03	0.4	<0.5
11-JAM-097	Soil	0.3	0.5	0.02	0.3	0.5
11-JAM-051	Soil	0.5	<0.5	0.06	0.8	1.4
11-AAB-0230	Soil	0.3	<0.5	0.19	<0.1	1.6
11-AAB-0228	Soil	0.2	<0.5	0.07	<0.1	1.4
11-AAB-0224	Soil	0.3	<0.5	0.08	<0.1	1.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-AAB-0223	Soil	1496	1	13.2	3.5	13.5	10.2	10.5	55.3	2	117.9	0.6	9.8	3.2	152	1.2	382.9	27.3	27.8	52.1
11-AAB-0169	Soil	1664	1	14.7	2.5	9.4	6.6	7.5	39.9	<1	69.4	0.6	6.3	5.0	192	0.8	246.3	22.5	24.8	48.5
11-WJH-042	Soil	1091	<1	2.5	4.5	10.7	5.9	14.5	59.8	2	72.3	1.0	7.0	4.9	316	1.8	212.3	17.6	33.0	51.9
11-WJH-031	Soil	1431	1	2.9	4.3	12.1	8.8	24.9	93.4	2	101.6	1.5	12.0	4.4	209	2.6	339.2	25.3	37.6	66.8
11-MGB-243	Soil	390	6	4.3	15.6	7.5	5.6	13.0	75.9	1	63.3	1.1	7.6	4.7	54	1.1	199.8	16.2	22.0	41.5
11-MGB-246	Soil	585	<1	3.6	1.6	5.0	4.6	10.0	36.1	<1	74.8	0.7	5.8	1.8	64	0.8	172.1	15.3	21.6	41.4
11-MGB-233	Soil	444	<1	4.2	1.6	4.7	4.0	10.3	33.2	1	60.8	0.6	5.1	1.6	76	0.7	164.5	12.9	18.3	35.1
11-MGB-218	Soil	1328	<1	6.2	2.2	6.4	9.2	9.6	39.4	<1	77.1	0.7	6.3	2.9	152	0.7	317.1	19.2	27.6	50.5
11-MGB-219	Soil	688	<1	5.1	1.8	5.3	6.6	9.3	38.6	<1	76.2	0.6	6.8	2.5	113	0.7	263.0	17.0	20.8	40.2
11-MGB-217	Soil	1649	<1	4.0	2.6	5.1	12.0	10.3	33.6	<1	70.8	0.5	6.9	2.9	85	1.0	470.5	19.5	37.9	78.1
11-MGB-245	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-MGB-238	Soil	574	<1	11.0	2.9	9.5	7.9	16.0	68.1	1	78.9	1.2	9.1	2.9	99	1.3	272.9	21.2	30.1	58.2
11-MGB-251	Soil	541	<1	5.6	2.2	6.5	5.1	8.9	45.1	<1	79.2	0.6	6.5	2.5	104	0.6	184.4	16.6	20.4	38.0
11-MGB-247	Soil	324	<1	3.2	1.3	4.5	4.4	7.2	29.2	<1	77.7	0.4	5.4	1.6	49	0.7	158.5	11.9	19.2	37.5
11-MGB-239	Soil	648	2	11.4	3.1	10.7	8.3	21.3	68.5	2	86.0	1.4	9.9	2.7	125	1.7	306.2	25.2	36.9	71.4
11-MGB-246	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-MGB-254	Soil	1032	<1	4.7	2.3	7.1	5.3	7.9	45.8	1	68.8	0.4	5.8	5.3	319	0.7	204.0	24.2	24.9	44.3
11-MGB-237	Soil	524	1	7.3	2.4	8.4	5.3	14.0	56.3	1	71.2	0.9	7.1	2.2	93	1.0	202.2	17.4	24.6	46.3
11-MGB-244	Soil	191	2	2.2	7.3	4.1	2.4	8.3	37.9	<1	67.3	0.5	5.0	1.4	29	1.1	92.2	9.1	14.8	27.0
11-MGB-252	Soil	568	1	30.5	5.6	11.9	9.2	32.4	50.8	1	137.4	1.9	8.7	2.4	149	0.8	397.1	26.7	35.2	68.7
11-MGB-240	Soil	296	<1	6.7	2.8	5.7	6.4	15.9	44.6	<1	57.0	1.1	6.2	2.4	75	0.8	265.4	17.5	20.7	41.1
11-MGB-248	Soil	247	<1	3.3	1.6	4.2	2.8	8.6	24.9	<1	61.9	0.5	4.9	1.3	41	<0.5	107.4	9.1	15.0	27.3
11-MGB-255	Soil	2219	3	5.1	5.4	18.1	8.5	131.2	86.3	3	85.1	5.9	30.9	9.3	144	2.4	418.0	30.5	93.1	158.7
11-MGB-250	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-MGB-242	Soil	328	<1	4.8	7.3	7.0	4.9	10.0	67.6	1	44.6	0.6	7.0	2.7	37	0.7	185.4	13.3	22.2	37.2
11-MGB-194	Soil	188	<1	4.1	1.7	4.5	10.1	8.0	28.5	<1	59.3	0.5	4.5	3.2	52	0.8	399.3	17.9	16.1	27.5
11-MGB-198	Soil	200	<1	4.3	1.4	4.7	12.9	6.8	23.2	<1	58.3	0.4	4.6	2.3	49	0.6	510.5	15.0	15.4	26.4
11-MGB-257	Soil	1349	<1	4.1	6.9	6.3	4.2	9.5	58.8	<1	84.0	0.6	5.3	8.4	207	0.8	158.6	16.4	20.9	36.8
11-MGB-199	Soil	333	2	10.1	4.3	16.2	7.7	12.0	50.4	2	130.6	0.9	12.4	3.6	163	1.4	302.9	30.8	37.0	66.2
11-MGB-188	Soil	405	2	4.6	2.0	5.4	5.9	21.3	46.6	<1	56.1	1.2	7.2	3.3	123	1.3	243.2	17.1	26.1	47.0



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Project: TING PROP B
Report Date: August 20, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-AAB-0223	Soil	25.1	4.73	0.96	4.04	0.73	3.91	0.86	2.56	0.43	2.52	0.43	1.3	16.6	16.9	150	40.9	18.9	0.4	<0.1
11-AAB-0169	Soil	28.1	4.95	0.94	3.73	0.58	3.50	0.70	1.99	0.32	2.03	0.31	10.8	16.6	12.8	246	62.2	18.4	1.8	0.4
11-WJH-042	Soil	24.3	3.96	0.72	3.02	0.48	2.55	0.54	1.55	0.26	1.62	0.25	23.9	10.2	13.2	96	16.9	21.3	0.2	1.0
11-WJH-031	Soil	28.7	4.63	0.90	3.79	0.66	3.80	0.84	2.43	0.39	2.42	0.39	8.6	9.3	14.9	59	11.6	11.9	0.3	0.7
11-MGB-243	Soil	18.7	3.29	0.73	2.90	0.46	2.39	0.50	1.40	0.23	1.36	0.24	0.5	10.5	18.0	76	6.1	6.4	0.4	0.6
11-MGB-246	Soil	18.8	3.24	0.69	2.90	0.46	2.37	0.47	1.43	0.22	1.35	0.21	0.2	7.1	13.3	58	8.1	2.9	1.2	0.3
11-MGB-233	Soil	15.4	2.61	0.61	2.32	0.38	2.02	0.42	1.19	0.17	1.08	0.17	0.4	5.8	9.7	83	10.5	2.5	1.6	0.3
11-MGB-218	Soil	23.1	4.01	0.80	3.25	0.52	2.82	0.58	1.83	0.28	1.76	0.30	3.1	12.0	11.8	104	23.5	7.7	1.1	1.1
11-MGB-219	Soil	19.1	3.16	0.69	2.84	0.48	2.52	0.54	1.60	0.25	1.66	0.27	2.4	9.6	10.4	83	18.9	5.6	0.9	0.7
11-MGB-217	Soil	30.3	4.73	0.86	3.45	0.55	2.84	0.62	1.89	0.29	1.89	0.31	1.3	5.8	10.6	94	15.5	6.6	0.6	0.6
11-MGB-245	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-MGB-238	Soil	25.1	4.66	1.03	3.96	0.64	3.42	0.72	2.14	0.31	1.89	0.32	0.8	13.2	26.8	96	17.9	7.3	1.5	0.6
11-MGB-251	Soil	17.5	3.25	0.71	2.98	0.50	2.79	0.55	1.45	0.22	1.39	0.24	1.5	10.1	8.9	73	17.4	4.4	0.8	0.6
11-MGB-247	Soil	15.5	2.82	0.55	2.37	0.36	1.87	0.38	1.12	0.17	1.08	0.16	0.2	3.1	5.8	29	5.0	2.3	0.3	0.1
11-MGB-239	Soil	31.9	5.89	1.40	5.31	0.85	4.45	0.88	2.57	0.37	2.26	0.39	0.7	14.9	19.2	84	18.8	9.8	0.6	0.6
11-MGB-246	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-MGB-254	Soil	21.3	4.02	0.88	3.66	0.62	3.32	0.69	2.08	0.31	2.12	0.32	5.4	24.5	10.2	282	40.3	8.1	4.2	1.4
11-MGB-237	Soil	20.7	3.73	0.91	3.29	0.56	2.94	0.59	1.62	0.25	1.72	0.25	0.7	11.7	16.2	70	15.3	5.5	0.6	0.5
11-MGB-244	Soil	10.4	1.89	0.39	1.61	0.28	1.38	0.28	0.81	0.14	0.96	0.14	0.1	2.9	10.8	30	3.6	4.4	0.2	<0.1
11-MGB-252	Soil	31.9	5.90	1.74	5.60	0.92	4.67	0.98	2.72	0.41	2.72	0.39	0.2	32.5	5.4	61	86.5	4.3	0.2	1.4
11-MGB-240	Soil	18.2	3.38	0.85	3.11	0.52	2.80	0.57	1.66	0.26	1.68	0.26	0.7	11.3	17.8	36	9.6	4.0	0.3	0.3
11-MGB-248	Soil	11.2	1.96	0.44	1.80	0.29	1.47	0.30	0.83	0.13	0.90	0.13	0.3	4.4	10.9	34	7.2	3.4	0.3	<0.1
11-MGB-255	Soil	49.6	7.32	1.14	5.94	0.93	4.94	1.00	2.98	0.45	3.01	0.45	1.9	13.2	22.6	165	23.7	8.7	3.6	0.6
11-MGB-250	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-MGB-242	Soil	17.1	2.87	0.63	2.46	0.37	2.05	0.42	1.21	0.18	1.25	0.18	0.4	12.1	24.7	64	11.9	4.9	0.5	0.7
11-MGB-194	Soil	13.0	2.54	0.55	2.52	0.43	2.41	0.53	1.81	0.28	1.83	0.28	0.9	5.2	6.6	39	13.1	4.2	0.3	<0.1
11-MGB-198	Soil	13.1	2.31	0.53	2.21	0.38	2.15	0.48	1.43	0.23	1.63	0.27	0.8	5.3	9.2	60	13.9	6.0	0.6	0.1
11-MGB-257	Soil	17.1	3.03	0.65	2.77	0.45	2.53	0.52	1.43	0.23	1.46	0.22	27.6	16.3	6.9	518	46.0	19.1	6.4	1.2
11-MGB-199	Soil	29.6	5.48	1.20	4.97	0.86	4.53	0.97	2.95	0.43	2.95	0.44	1.2	14.5	20.2	92	34.2	16.0	0.4	<0.1
11-MGB-188	Soil	19.3	3.18	0.67	2.81	0.45	2.33	0.52	1.56	0.25	1.58	0.25	4.1	11.9	12.5	169	32.3	11.3	1.2	0.8



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-AAB-0223	Soil	0.3	<0.5	0.06	<0.1	1.9
11-AAB-0169	Soil	0.3	<0.5	0.08	0.3	2.4
11-WJH-042	Soil	0.7	0.6	0.06	1.9	0.9
11-WJH-031	Soil	0.1	<0.5	0.08	0.4	0.8
11-MGB-243	Soil	1.0	1.5	0.09	0.1	1.1
11-MGB-246	Soil	<0.1	<0.5	0.04	<0.1	<0.5
11-MGB-233	Soil	<0.1	0.7	0.03	<0.1	<0.5
11-MGB-218	Soil	0.1	<0.5	0.06	0.2	<0.5
11-MGB-219	Soil	<0.1	<0.5	0.04	0.1	<0.5
11-MGB-217	Soil	<0.1	<0.5	0.04	0.1	<0.5
11-MGB-245	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-MGB-238	Soil	0.1	1.1	0.05	0.1	0.5
11-MGB-251	Soil	<0.1	<0.5	0.04	0.1	<0.5
11-MGB-247	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-MGB-239	Soil	0.1	1.1	0.06	0.1	<0.5
11-MGB-246	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-MGB-254	Soil	0.3	3.6	0.17	0.5	2.1
11-MGB-237	Soil	0.1	1.4	0.04	0.2	<0.5
11-MGB-244	Soil	<0.1	0.6	0.03	0.2	0.5
11-MGB-252	Soil	<0.1	<0.5	0.77	0.9	<0.5
11-MGB-240	Soil	<0.1	0.7	0.02	0.1	0.5
11-MGB-248	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-MGB-255	Soil	0.4	<0.5	0.18	0.3	0.9
11-MGB-250	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-MGB-242	Soil	<0.1	1.6	0.12	0.2	2.0
11-MGB-194	Soil	<0.1	<0.5	0.04	<0.1	0.7
11-MGB-198	Soil	<0.1	<0.5	0.04	<0.1	1.0
11-MGB-257	Soil	0.3	<0.5	0.15	1.9	4.0
11-MGB-199	Soil	0.3	<0.5	0.07	<0.1	2.0
11-MGB-188	Soil	<0.1	<0.5	0.04	0.3	0.8



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-MGB-256	Soil	1420	<1	6.4	1.8	5.7	5.0	9.0	39.9	<1	83.9	0.6	6.2	8.5	149	0.7	193.0	20.2	23.5
11-MGB-184	Soil	747	<1	5.7	1.3	4.3	3.3	12.7	36.7	<1	77.6	0.7	5.4	2.5	123	0.8	143.0	13.3	18.2
11-JAM-112	Soil	927	5	12.1	8.8	12.0	9.6	60.0	97.9	4	73.7	2.8	23.7	4.5	132	38.9	399.0	25.5	58.0
11-JAM-111	Soil	931	7	11.8	9.5	12.5	9.9	62.3	98.7	4	60.9	2.8	31.1	5.2	140	28.9	439.0	33.9	74.1
11-JAM-080	Soil	558	2	9.0	5.4	12.1	5.9	27.7	53.6	1	62.2	1.4	12.9	5.1	95	5.6	236.2	23.7	40.1
11-JAM-076	Soil	448	3	10.6	4.0	12.1	5.3	39.8	42.9	2	34.9	2.1	10.8	2.6	96	11.8	245.3	31.9	61.4
11-JAM-074	Soil	606	4	10.0	5.2	12.9	7.2	45.4	62.7	3	37.6	2.5	18.9	3.4	116	11.8	295.1	35.7	66.7
11-JAM-064	Soil	1226	9	5.8	9.1	12.0	7.7	64.5	115.4	2	91.5	3.3	33.4	5.2	207	65.0	339.0	22.6	72.8
11-JAM-110	Soil	683	1	8.5	11.5	14.1	9.3	42.3	88.4	3	96.5	2.3	19.8	3.9	129	9.8	376.1	23.7	41.1
11-JAM-060	Soil	1452	5	4.2	9.9	15.1	8.6	96.0	159.4	4	69.4	4.4	26.8	5.8	188	13.9	383.9	20.6	64.0
11-JAM-113	Soil	1017	2	9.4	10.2	14.5	7.2	21.4	99.3	2	133.8	1.4	15.7	3.4	123	4.6	276.1	25.1	42.3
11-JAM-105	Soil	766	4	9.2	7.2	9.4	6.9	46.5	76.8	2	65.9	2.2	17.4	4.6	157	20.5	296.3	32.6	57.3
11-JAM-109	Soil	813	6	10.9	10.8	13.8	10.7	85.3	104.4	4	66.3	3.5	31.1	6.0	128	43.5	446.3	23.1	56.2
11-JAM-089	Soil	372	2	11.5	5.9	15.0	7.0	51.2	35.9	4	36.0	2.4	12.4	4.5	106	8.3	263.8	21.6	36.7
11-JAM-079	Soil	894	3	7.0	6.5	10.8	6.9	24.7	82.7	3	121.1	1.7	14.3	4.4	122	7.5	275.6	26.1	43.8
11-JAM-088	Soil	574	5	11.1	7.6	10.1	6.6	41.7	55.5	2	41.0	1.9	17.9	4.8	126	39.4	272.9	39.5	78.5
11-JAM-125	Soil	1270	3	5.2	7.2	12.5	7.9	32.6	114.9	2	90.0	1.9	16.7	4.8	192	4.3	321.1	26.9	51.1
11-JAM-070	Soil	1120	9	5.5	17.4	16.5	11.5	122.0	191.5	6	99.3	5.6	32.8	7.8	141	30.7	465.7	24.3	98.6
11-JAM-063	Soil	1312	4	6.5	9.9	13.3	8.4	73.2	132.2	3	91.7	3.8	28.2	5.5	185	24.6	360.2	25.4	68.0
11-JAM-057	Soil	1032	4	5.1	6.8	11.5	9.1	40.1	98.3	2	81.5	2.0	14.9	4.1	197	4.8	378.6	23.0	45.0
11-JAM-107	Soil	762	3	10.7	9.0	14.3	7.5	23.6	89.6	2	104.6	1.5	11.5	3.7	130	6.3	278.9	20.4	39.0
11-JAM-115	Soil	1128	3	8.2	10.4	14.1	9.8	40.5	116.8	3	110.8	2.3	15.3	4.4	139	10.6	383.6	25.0	50.2
11-JAM-058	Soil	2045	7	4.6	13.1	13.9	10.3	102.0	190.7	4	95.1	5.0	32.0	7.0	269	27.6	446.3	28.6	75.3
11-JAM-108	Soil	958	4	10.8	10.3	14.1	8.8	33.3	92.5	3	95.8	1.8	18.7	5.9	112	58.4	319.4	26.5	51.3
11-JAM-121	Soil	975	3	10.1	12.3	14.5	9.0	28.7	103.2	3	110.9	1.9	22.8	4.8	127	5.4	324.1	41.0	70.0
11-JAM-126	Soil	1635	4	6.2	9.5	14.1	10.2	71.4	199.7	2	107.0	3.7	23.8	6.2	193	19.3	389.9	27.0	60.6
11-JAM-054	Soil	882	2	1.0	4.0	11.0	6.3	15.8	66.3	2	73.6	1.2	6.4	6.7	281	2.0	246.1	15.8	31.8
11-JAM-092	Soil	33	2	5.9	0.1	5.2	2.6	18.5	1.5	<1	103.3	0.2	3.2	0.7	27	1.5	106.4	9.6	17.5
11-JAM-090	Soil	698	5	9.3	9.4	16.1	8.6	53.2	64.3	3	43.2	2.9	19.2	3.3	131	15.9	359.6	30.7	64.4
11-AAB-0221	Soil	3094	1	10.0	3.8	11.3	12.3	8.8	64.1	1	87.0	0.7	7.8	5.2	196	1.2	458.2	25.4	27.8



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm 0.3	ppm 0.05	ppm 0.02	ppm 0.05	ppm 0.01	ppm 0.05	ppm 0.02	ppm 0.03	ppm 0.01	ppm 0.05	ppm 0.01	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.5	ppm 0.1
11-MGB-256	Soil	18.8	3.58	0.81	3.23	0.54	2.98	0.64	1.86	0.26	1.72	0.27	3.2	18.6	10.1	303	41.8	7.9	4.4
11-MGB-184	Soil	14.4	2.59	0.58	2.32	0.35	1.91	0.39	1.23	0.16	1.24	0.19	4.8	11.2	13.8	88	27.7	8.8	1.2
11-JAM-112	Soil	33.0	5.23	1.08	4.46	0.76	4.01	0.87	2.53	0.39	2.69	0.41	4.5	14.0	213.2	216	28.0	68.3	1.5
11-JAM-111	Soil	40.1	6.71	1.36	5.94	0.98	5.28	1.12	3.51	0.52	3.33	0.59	4.9	16.2	277.2	192	31.3	43.1	0.9
11-JAM-080	Soil	28.8	5.16	1.06	4.69	0.75	4.03	0.81	2.20	0.36	2.22	0.32	2.2	12.3	63.4	59	18.6	27.1	0.7
11-JAM-076	Soil	43.6	7.29	1.49	6.55	1.02	5.14	1.08	3.09	0.48	2.92	0.45	2.3	9.1	132.8	91	23.1	47.1	0.7
11-JAM-074	Soil	47.0	8.48	1.79	7.77	1.24	6.57	1.26	3.65	0.55	3.43	0.51	2.1	10.6	183.8	97	31.6	38.5	0.4
11-JAM-064	Soil	31.8	4.78	0.91	3.80	0.64	3.68	0.75	2.35	0.38	2.34	0.35	8.0	12.2	230.6	588	28.5	40.4	1.3
11-JAM-110	Soil	31.5	5.33	1.06	4.40	0.75	4.24	0.84	2.43	0.38	2.48	0.37	13.8	7.3	61.0	109	9.7	20.2	1.7
11-JAM-060	Soil	36.5	5.46	0.99	3.80	0.60	3.30	0.62	1.96	0.34	2.16	0.34	8.2	9.2	271.2	275	18.8	40.4	1.2
11-JAM-113	Soil	31.5	5.56	1.14	4.62	0.78	4.30	0.89	2.58	0.39	2.51	0.37	1.8	8.6	39.4	108	24.5	20.9	0.8
11-JAM-105	Soil	34.2	6.16	1.33	5.47	0.91	5.05	1.03	2.98	0.45	2.71	0.42	6.4	20.4	329.9	239	41.5	43.5	1.4
11-JAM-109	Soil	31.3	4.99	0.93	3.98	0.67	3.68	0.76	2.46	0.40	2.52	0.37	8.3	11.7	193.0	228	25.5	29.3	0.6
11-JAM-089	Soil	29.8	5.21	1.11	4.58	0.80	4.22	0.85	2.34	0.41	2.26	0.35	4.2	6.1	51.6	88	18.7	24.4	0.4
11-JAM-079	Soil	33.1	5.72	1.14	4.61	0.76	4.40	0.88	2.58	0.41	2.55	0.38	6.0	12.8	54.5	98	23.9	20.3	1.2
11-JAM-088	Soil	47.0	8.47	1.72	7.25	1.24	6.57	1.31	3.93	0.62	3.72	0.53	4.9	11.3	139.5	98	24.9	57.1	0.8
11-JAM-125	Soil	33.4	5.82	1.14	4.88	0.80	4.43	0.95	2.74	0.44	2.58	0.42	7.3	12.3	101.3	221	26.7	19.8	1.4
11-JAM-070	Soil	39.4	5.65	1.02	4.30	0.72	4.30	0.84	2.60	0.47	2.78	0.43	10.4	10.5	268.8	447	18.4	37.7	2.0
11-JAM-063	Soil	35.7	5.64	1.16	4.65	0.78	4.23	0.86	2.73	0.42	2.77	0.40	9.9	12.6	311.0	495	34.2	50.1	1.5
11-JAM-057	Soil	30.0	4.75	0.96	3.80	0.66	3.88	0.78	2.22	0.39	2.34	0.36	8.0	10.9	128.2	176	25.4	23.0	0.8
11-JAM-107	Soil	27.6	4.79	0.90	3.71	0.62	3.60	0.76	2.07	0.36	2.13	0.32	4.8	11.1	53.8	112	17.4	20.9	0.8
11-JAM-115	Soil	32.3	5.26	1.03	4.39	0.69	4.03	0.84	2.47	0.41	2.56	0.36	4.2	10.0	92.1	129	20.2	29.9	1.3
11-JAM-058	Soil	41.1	6.85	1.32	5.14	0.82	4.55	0.94	2.83	0.47	2.94	0.48	14.8	17.8	414.0	413	29.7	53.6	1.2
11-JAM-108	Soil	31.5	5.78	1.16	5.09	0.84	4.78	0.97	2.71	0.41	2.87	0.41	9.4	18.0	68.0	102	21.7	20.9	1.8
11-JAM-121	Soil	50.8	9.23	1.94	8.26	1.38	7.60	1.63	4.36	0.61	4.03	0.61	2.6	11.4	70.8	93	28.1	24.6	0.3
11-JAM-126	Soil	39.9	5.87	1.18	4.69	0.79	4.55	1.03	2.97	0.44	3.09	0.47	5.7	12.7	186.7	400	21.5	27.7	3.1
11-JAM-054	Soil	24.8	3.52	0.65	2.83	0.47	2.63	0.53	1.49	0.24	1.67	0.27	42.4	22.6	7.8	32	8.2	21.8	0.2
11-JAM-092	Soil	12.8	2.16	0.43	1.75	0.33	1.74	0.36	1.10	0.16	1.01	0.16	0.5	7.0	4.5	4	8.6	8.9	0.3
11-JAM-090	Soil	42.4	7.55	1.48	6.51	1.10	5.84	1.17	3.42	0.48	3.17	0.49	2.7	11.8	240.2	150	26.6	32.3	0.8
11-AAB-0221	Soil	24.5	4.38	0.88	3.90	0.68	3.89	0.84	2.44	0.39	2.51	0.41	9.0	24.8	18.3	233	52.6	25.0	1.8



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-MGB-256	Soil	0.3	0.6	0.11	0.3	3.2
11-MGB-184	Soil	0.1	0.6	0.05	0.3	0.9
11-JAM-112	Soil	0.5	<0.5	0.03	0.7	<0.5
11-JAM-111	Soil	0.9	46.6	0.06	0.9	0.5
11-JAM-080	Soil	0.8	<0.5	0.04	0.3	<0.5
11-JAM-076	Soil	0.9	0.5	0.06	0.4	<0.5
11-JAM-074	Soil	1.0	0.6	0.06	0.6	<0.5
11-JAM-064	Soil	0.8	1.1	0.04	0.8	0.7
11-JAM-110	Soil	0.7	<0.5	0.03	0.4	<0.5
11-JAM-060	Soil	0.6	<0.5	0.03	0.7	1.0
11-JAM-113	Soil	0.2	<0.5	0.03	0.4	<0.5
11-JAM-105	Soil	1.3	2.2	0.10	0.7	0.7
11-JAM-109	Soil	0.4	<0.5	0.02	0.6	<0.5
11-JAM-089	Soil	0.7	<0.5	0.03	0.4	<0.5
11-JAM-079	Soil	0.5	0.6	0.06	0.3	<0.5
11-JAM-088	Soil	1.0	1.1	0.05	0.6	0.5
11-JAM-125	Soil	0.5	<0.5	0.05	0.6	1.1
11-JAM-070	Soil	0.9	<0.5	0.02	0.7	<0.5
11-JAM-063	Soil	0.7	3.2	0.05	0.7	0.8
11-JAM-057	Soil	0.3	<0.5	0.04	0.6	0.7
11-JAM-107	Soil	0.2	<0.5	0.02	0.3	<0.5
11-JAM-115	Soil	0.3	<0.5	0.03	0.4	<0.5
11-JAM-058	Soil	0.6	1.0	0.08	1.3	2.1
11-JAM-108	Soil	0.6	9.2	0.04	0.3	0.8
11-JAM-121	Soil	0.5	1.8	0.05	0.4	0.5
11-JAM-126	Soil	0.7	0.6	0.04	0.4	1.2
11-JAM-054	Soil	0.9	<0.5	0.04	1.4	3.6
11-JAM-092	Soil	0.1	<0.5	<0.01	<0.1	<0.5
11-JAM-090	Soil	1.6	0.5	0.07	0.5	0.7
11-AAB-0221	Soil	0.3	<0.5	0.11	0.4	2.9



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-AAB-0222	Soil	2153	2	9.0	3.0	9.9	12.9	7.7	45.0	<1	92.9	0.4	6.4	6.0	197	1.7	478.6	22.4	22.3
11-AAB-0225	Soil	436	<1	12.8	3.8	15.6	8.7	11.5	47.7	3	130.1	0.8	10.4	2.8	157	1.4	320.1	27.6	34.7
11-AAB-0229	Soil	439	2	7.1	5.5	21.3	7.1	11.0	56.0	4	160.2	0.8	11.5	2.9	178	1.3	210.4	29.4	37.3
11-AAB-0179	Soil	4904	<1	4.9	4.3	9.7	8.6	12.6	68.1	1	80.3	0.9	7.0	4.4	149	1.2	333.7	17.3	23.0
11-AAB-0189	Soil	4215	2	4.7	9.2	13.9	4.6	23.3	109.8	2	96.8	1.2	9.4	14.5	368	1.4	178.3	19.2	29.3
11-AAB-0163	Soil	27	<1	1.3	0.2	0.6	0.2	<0.1	0.8	<1	4.7	<0.1	0.4	<0.1	<8	<0.5	4.5	0.6	0.7
11-AAB-0181	Soil	710	<1	2.4	3.9	10.0	7.7	7.9	39.1	2	93.3	0.4	8.1	2.2	104	1.0	292.0	16.0	23.3
11-AAB-0183	Soil	1147	<1	6.0	1.9	7.1	9.7	6.6	27.9	2	62.8	0.5	5.6	2.2	74	0.5	425.7	16.2	16.0
11-AAB-0229	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-WJH-035	Soil	2423	3	2.8	5.3	13.7	8.3	25.1	97.1	2	91.8	1.5	11.4	5.1	260	2.0	301.2	20.4	45.5
11-WJH-030	Soil	3464	4	2.2	5.0	11.8	6.9	36.8	96.6	2	68.3	2.0	11.0	8.0	307	4.4	290.3	25.0	46.0
11-JAM-098	Soil	1101	4	6.0	14.1	16.1	11.4	47.7	169.0	3	139.4	3.0	18.9	4.9	143	14.1	403.2	25.0	52.9
11-JAM-124	Soil	1202	4	8.5	7.3	13.0	10.2	33.4	117.6	2	106.2	1.9	18.4	5.0	185	4.4	386.5	27.3	52.9
11-JAM-099	Soil	1285	5	5.4	13.6	21.3	11.3	184.1	210.6	4	154.4	8.9	40.4	12.4	156	35.3	547.2	24.9	74.9
11-JAM-139	Soil	1559	74	9.4	26.6	24.3	14.2	214.4	237.3	7	163.1	10.4	58.3	7.7	156	51.4	632.8	32.7	138.3
11-JAM-118	Soil	756	7	12.2	9.6	14.1	9.2	72.0	89.4	5	44.9	3.3	31.8	5.8	131	18.3	399.9	45.8	95.0
11-JAM-130	Soil	1933	5	5.7	13.5	14.7	13.8	110.8	181.6	3	128.7	6.0	39.8	10.8	213	26.6	643.6	35.0	92.7
11-JAM-103	Soil	679	4	13.5	5.8	15.1	6.8	40.2	57.5	1	44.4	2.8	16.7	4.2	134	12.9	277.5	32.5	55.9
11-JAM-062	Soil	1481	5	7.1	9.3	14.5	10.5	73.4	153.0	3	98.6	3.8	24.6	6.1	184	17.9	414.9	24.1	56.3
11-JAM-066	Soil	1025	3	3.4	19.8	17.3	10.3	71.7	142.7	3	135.9	3.6	18.8	6.1	120	28.3	429.5	21.6	71.7
11-JAM-106	Soil	1042	2	11.7	8.9	13.1	8.3	31.0	101.0	3	111.1	1.9	21.4	4.3	161	8.5	324.6	28.7	50.0
11-JAM-104	Soil	1041	3	10.8	14.0	16.1	9.1	46.3	168.7	4	100.3	2.6	16.6	4.6	162	15.8	361.8	22.2	49.1
11-JAM-138	Soil	1002	3	6.9	8.6	12.8	8.4	56.3	89.3	2	106.3	3.1	41.7	5.1	118	13.7	349.1	26.7	81.1
11-JAM-140	Soil	1053	2	7.8	9.8	17.0	10.4	51.1	117.3	3	129.5	2.9	20.3	4.0	117	15.4	436.2	23.5	52.4
11-JAM-123	Soil	1194	4	5.4	9.8	12.8	8.5	49.8	117.2	3	94.0	2.6	13.8	4.7	204	5.5	366.0	20.9	49.3
11-JAM-134	Soil	1426	6	6.6	14.4	17.8	12.0	110.6	243.4	5	120.9	5.6	34.3	7.2	163	34.9	495.7	33.4	76.6
11-JAM-133	Soil	1198	1	7.1	6.6	14.3	9.5	53.5	126.1	3	111.0	3.2	22.0	7.5	145	18.6	358.4	30.3	63.6
11-JAM-137	Soil	1333	7	6.6	10.2	15.6	12.4	93.3	156.1	3	135.7	4.3	34.0	6.7	134	25.9	515.5	29.9	90.2
11-JAM-128	Soil	2721	6	8.4	12.7	15.5	10.7	109.9	194.4	4	84.8	5.9	38.3	8.0	246	53.8	455.5	32.2	75.5
11-JAM-135	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-AAB-0222	Soil	18.7	3.54	0.83	3.54	0.61	3.52	0.75	2.22	0.33	2.35	0.38	12.0	18.0	18.4	164	42.2	27.4	1.2	0.7
11-AAB-0225	Soil	30.3	5.34	1.15	4.70	0.82	4.68	0.93	2.82	0.39	2.63	0.42	1.0	12.1	15.9	79	26.9	20.8	0.2	0.1
11-AAB-0229	Soil	32.2	6.04	1.29	5.29	0.93	4.96	1.01	2.99	0.46	2.92	0.47	0.7	10.2	23.4	27	19.2	12.5	0.2	<0.1
11-AAB-0179	Soil	16.5	2.90	0.50	2.58	0.44	2.44	0.54	1.81	0.27	1.75	0.30	10.0	16.3	28.7	106	20.8	21.2	0.6	0.6
11-AAB-0189	Soil	22.3	3.82	0.78	3.43	0.54	2.95	0.64	2.00	0.28	1.85	0.32	16.6	23.5	21.3	273	61.9	35.0	2.8	1.1
11-AAB-0163	Soil	0.4	0.07	0.05	0.16	0.02	0.09	0.02	0.05	0.02	0.07	0.02	0.1	0.7	0.5	31	2.8	24.9	<0.1	<0.1
11-AAB-0181	Soil	19.0	3.29	0.70	2.81	0.48	2.69	0.63	1.69	0.29	1.95	0.33	1.0	7.2	9.0	28	6.4	11.4	<0.1	<0.1
11-AAB-0183	Soil	13.1	2.49	0.55	2.37	0.41	2.32	0.54	1.72	0.25	1.77	0.29	1.5	7.3	7.5	74	18.6	12.8	0.5	0.2
11-AAB-0229	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-WJH-035	Soil	33.5	4.96	1.09	3.82	0.63	3.24	0.77	2.03	0.33	2.20	0.37	12.8	11.4	16.5	100	17.5	15.1	0.4	0.8
11-WJH-030	Soil	30.8	4.73	0.98	3.61	0.67	3.61	0.81	2.37	0.39	2.30	0.37	20.4	18.9	20.7	134	23.8	21.0	0.8	1.9
11-JAM-098	Soil	34.5	5.68	1.11	4.26	0.75	4.06	0.89	2.58	0.44	2.65	0.45	7.2	5.6	99.4	135	10.5	30.3	0.7	0.9
11-JAM-124	Soil	36.1	5.89	1.24	4.73	0.82	4.83	1.01	3.03	0.45	2.84	0.46	5.9	14.5	116.1	283	25.6	25.8	2.5	1.4
11-JAM-099	Soil	37.4	5.46	1.08	4.20	0.69	4.14	0.89	2.69	0.43	2.92	0.49	13.9	10.0	212.9	230	16.8	67.5	0.8	4.9
11-JAM-139	Soil	52.0	7.13	1.49	5.45	0.94	5.14	1.13	3.44	0.62	4.01	0.61	5.8	13.0	636.2	645	40.6	55.1	2.1	5.0
11-JAM-118	Soil	60.3	10.30	2.17	9.73	1.59	8.35	1.75	4.95	0.73	4.63	0.70	2.0	12.3	207.1	186	35.3	55.2	0.6	1.9
11-JAM-130	Soil	51.1	7.72	1.60	6.13	1.05	5.87	1.30	3.58	0.59	3.80	0.62	22.1	20.1	237.9	529	94.0	61.5	4.7	6.2
11-JAM-103	Soil	43.6	7.28	1.52	6.60	1.09	5.52	1.22	3.56	0.50	3.30	0.52	3.3	9.5	87.6	96	30.2	78.5	0.4	1.8
11-JAM-062	Soil	33.5	5.14	1.05	4.08	0.73	4.00	0.89	2.54	0.39	2.72	0.43	11.9	12.9	225.2	439	34.5	59.4	2.7	3.6
11-JAM-066	Soil	35.5	5.25	1.01	3.95	0.67	3.67	0.79	2.49	0.36	2.71	0.42	11.2	7.6	133.7	261	9.9	15.7	1.4	0.9
11-JAM-106	Soil	34.5	6.45	1.30	5.43	0.90	5.02	1.05	2.96	0.44	2.95	0.45	4.6	16.5	121.1	160	33.2	29.1	0.9	1.7
11-JAM-104	Soil	34.3	5.21	0.93	4.01	0.65	3.82	0.85	2.28	0.38	2.55	0.36	6.2	12.2	184.6	120	16.5	29.8	2.0	1.5
11-JAM-138	Soil	43.0	6.36	1.27	4.95	0.83	4.25	0.95	2.93	0.43	2.79	0.45	5.5	11.3	179.9	184	20.1	34.4	1.6	1.7
11-JAM-140	Soil	33.3	5.71	1.08	4.21	0.69	3.83	0.87	2.50	0.39	2.56	0.45	3.6	5.9	97.7	380	16.5	22.1	1.7	1.2
11-JAM-123	Soil	33.1	4.92	0.96	3.47	0.61	3.30	0.76	2.30	0.34	2.50	0.38	10.5	11.3	79.4	181	20.9	22.5	0.7	0.9
11-JAM-134	Soil	38.0	6.26	1.24	5.02	0.91	5.06	1.19	3.32	0.53	3.44	0.53	39.5	11.7	358.3	479	24.3	59.2	1.8	5.7
11-JAM-133	Soil	41.7	6.81	1.34	5.42	0.92	5.48	1.20	3.25	0.48	3.25	0.48	9.4	14.4	177.0	246	26.2	40.0	2.2	4.3
11-JAM-137	Soil	45.4	6.99	1.31	5.43	0.91	4.95	1.08	3.09	0.52	3.28	0.49	5.1	15.4	198.1	280	21.8	37.9	5.2	3.3
11-JAM-128	Soil	42.1	6.67	1.33	5.37	0.92	4.96	1.17	3.30	0.49	3.57	0.54	12.4	25.4	533.0	499	30.8	93.0	5.6	9.2
11-JAM-135	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-AAB-0222	Soil	0.2	<0.5	0.09	0.3	2.9
11-AAB-0225	Soil	0.2	<0.5	0.05	<0.1	1.9
11-AAB-0229	Soil	0.7	0.7	0.18	0.1	1.9
11-AAB-0179	Soil	0.5	<0.5	0.06	0.3	3.7
11-AAB-0189	Soil	0.7	2.7	0.51	1.2	6.5
11-AAB-0163	Soil	<0.1	<0.5	0.01	<0.1	0.6
11-AAB-0181	Soil	0.2	<0.5	0.05	<0.1	1.5
11-AAB-0183	Soil	0.2	<0.5	0.03	<0.1	0.9
11-AAB-0229	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-WJH-035	Soil	0.2	<0.5	0.04	0.4	2.3
11-WJH-030	Soil	0.2	0.7	0.14	0.6	3.1
11-JAM-098	Soil	0.5	<0.5	0.01	0.3	0.6
11-JAM-124	Soil	0.8	0.6	0.06	0.5	1.0
11-JAM-099	Soil	0.1	0.6	0.02	0.5	0.8
11-JAM-139	Soil	0.7	0.9	0.04	1.5	0.6
11-JAM-118	Soil	0.8	1.5	0.08	0.6	<0.5
11-JAM-130	Soil	0.9	1.6	0.06	1.0	2.2
11-JAM-103	Soil	0.7	1.0	0.05	0.4	0.5
11-JAM-062	Soil	1.2	0.9	0.05	0.5	1.2
11-JAM-066	Soil	1.9	<0.5	0.03	0.4	0.6
11-JAM-106	Soil	0.9	0.7	0.07	0.4	1.0
11-JAM-104	Soil	0.3	0.5	0.01	0.4	<0.5
11-JAM-138	Soil	0.7	<0.5	0.04	0.4	0.6
11-JAM-140	Soil	0.3	<0.5	0.02	0.4	<0.5
11-JAM-123	Soil	0.2	<0.5	0.03	0.5	1.6
11-JAM-134	Soil	1.0	<0.5	0.06	0.8	1.2
11-JAM-133	Soil	0.8	1.1	0.08	0.4	0.9
11-JAM-137	Soil	1.1	<0.5	0.04	0.4	0.7
11-JAM-128	Soil	1.5	1.2	0.12	1.2	2.5
11-JAM-135	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm 1	ppm 1	ppm 0.2	ppm 0.1	ppm 0.5	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.5	ppm 0.1	ppm 0.2	ppm 0.1	ppm 8	ppm 0.5	ppm 0.1	ppm 0.1	ppm 0.1
11-JAM-122	Soil	955	<1	4.3	7.3	13.2	11.6	41.9	107.8	2	89.4	2.5	12.8	4.5	168	4.6	462.7	20.9	46.2
11-JAM-132	Soil	1849	7	5.8	14.3	15.0	11.8	109.8	201.7	3	98.2	5.5	33.6	11.0	219	34.4	484.2	29.8	77.3
11-JAM-127	Soil	2132	5	5.4	13.0	15.3	8.5	91.8	206.9	2	86.8	4.4	26.2	6.9	288	19.4	379.3	26.7	64.0
11-JAM-129	Soil	2061	7	4.4	14.0	15.5	11.1	127.3	241.5	4	82.9	6.0	34.0	7.5	240	23.8	500.9	26.1	66.8
11-JAM-131	Soil	1364	4	7.9	10.8	14.5	8.1	66.1	158.9	2	148.7	3.3	24.7	20.8	161	15.6	375.2	31.8	68.4
11-JAM-196	Soil	1203	1	1.4	3.5	12.1	12.7	39.5	72.5	2	115.8	1.9	9.8	3.5	169	1.8	500.3	26.1	31.5
11-JAM-156	Soil	914	5	8.5	11.7	15.2	9.8	48.8	176.9	3	101.5	2.6	21.3	4.8	146	12.2	377.8	26.5	60.0
11-JAM-184	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-JAM-182	Soil	797	<1	2.2	4.2	13.6	9.8	36.6	79.3	2	121.7	1.8	9.9	3.0	158	2.0	398.8	23.2	31.6
11-JAM-186	Soil	678	<1	1.8	1.6	6.0	11.4	21.1	34.9	<1	52.6	0.9	6.1	3.3	86	0.9	446.4	17.1	15.6
11-JAM-185	Soil	931	2	2.8	3.8	12.9	10.9	28.6	63.4	2	134.0	1.6	9.5	3.3	147	1.7	430.4	24.4	31.7
11-JAM-179	Soil	1440	2	3.8	5.1	15.6	9.2	58.2	100.7	2	157.9	2.5	15.1	4.5	214	1.9	404.5	27.3	41.5
11-JAM-194	Soil	1042	2	2.9	7.9	18.7	8.0	24.0	105.2	2	118.7	1.3	13.4	3.9	220	2.0	318.9	26.9	44.0
11-JAM-192	Soil	751	1	1.8	2.3	9.4	9.1	17.9	48.2	1	110.9	1.0	7.7	2.7	100	1.3	392.3	18.6	25.9
11-JAM-171	Soil	10497	3	4.6	9.3	19.6	7.1	48.2	134.1	2	113.5	2.1	19.8	5.5	383	1.9	303.0	33.1	54.9
11-JAM-170	Soil	4465	2	1.7	6.5	19.0	9.9	109.4	151.0	3	98.7	4.6	23.3	5.0	244	1.8	472.0	25.4	43.3
11-JAM-041	Soil	2683	2	6.1	7.1	16.2	7.7	44.7	122.1	2	112.1	2.4	20.6	9.7	404	4.3	327.2	33.4	58.4
11-JAM-095	Soil	595	4	14.6	8.5	14.1	9.9	49.9	78.3	4	42.7	2.9	20.4	4.7	135	16.7	397.0	23.0	43.7
11-JAM-093	Soil	1026	3	9.1	10.3	14.1	8.3	32.9	116.7	3	94.9	2.0	13.4	3.7	161	11.0	336.8	22.0	42.5
11-MGB-220	Soil	1149	<1	7.6	3.3	5.5	9.0	13.4	39.8	<1	40.0	0.9	6.0	3.4	143	1.2	336.2	24.1	31.0
11-MGB-230	Soil	780	<1	5.1	1.8	5.9	4.9	8.4	46.4	<1	79.8	0.6	5.6	2.5	107	0.7	198.7	17.4	24.8
11-MGB-234	Soil	678	<1	2.3	0.9	4.1	7.0	7.4	29.2	<1	84.5	0.6	5.3	2.3	98	0.6	250.6	15.8	19.5
11-MGB-235	Soil	257	1	6.0	4.4	8.2	5.4	18.8	59.5	<1	65.1	1.0	7.4	2.3	60	1.0	213.9	16.9	26.4
11-MGB-228	Soil	322	<1	3.5	1.4	5.1	8.3	8.7	50.0	<1	49.6	0.5	5.1	1.9	34	<0.5	320.6	15.5	17.8
11-MGB-215	Soil	1193	1	3.6	3.4	6.6	6.1	12.6	42.7	<1	71.2	0.8	5.9	3.6	158	1.0	250.1	19.8	27.2
11-MGB-229	Soil	624	1	8.4	6.3	14.0	8.9	13.4	95.5	2	53.0	0.8	11.3	2.7	103	1.0	334.8	37.9	28.4
11-MGB-231	Soil	519	<1	3.9	2.5	7.2	19.6	11.6	65.0	<1	66.2	0.8	11.9	3.4	51	1.3	752.8	29.2	27.3
11-MGB-214	Soil	1670	1	7.9	3.7	9.0	5.3	12.0	58.6	1	81.3	1.0	6.8	3.5	182	0.8	206.4	21.2	25.7
11-MGB-191	Soil	1613	<1	2.9	1.1	4.2	5.0	12.3	26.0	<1	69.6	0.8	4.0	2.5	91	0.7	210.6	13.1	18.0
11-MGB-201	Soil	816	2	12.3	3.2	13.7	10.0	10.6	51.0	1	106.1	0.7	9.7	2.7	132	1.2	384.7	24.8	30.7



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-JAM-122	Soil	31.9	5.13	0.97	3.81	0.62	3.61	0.76	2.24	0.37	2.44	0.40	11.2	10.5	67.2	166	19.7	21.4	0.6	1.1
11-JAM-132	Soil	42.3	6.69	1.22	5.45	0.83	4.78	0.99	3.04	0.47	3.32	0.51	16.7	14.4	179.6	327	24.9	60.0	1.8	5.9
11-JAM-127	Soil	37.8	5.85	1.10	4.68	0.69	4.07	0.86	2.64	0.40	2.93	0.43	12.9	15.3	331.8	360	24.3	61.5	1.7	5.1
11-JAM-129	Soil	36.4	5.38	0.91	4.17	0.62	3.59	0.80	2.47	0.41	2.98	0.45	14.0	10.1	224.5	323	21.1	55.0	2.6	5.0
11-JAM-131	Soil	41.3	6.96	1.37	5.77	0.87	5.26	1.00	2.91	0.44	3.08	0.46	21.8	35.6	83.0	349	44.2	39.8	7.8	2.1
11-JAM-196	Soil	23.7	4.24	0.76	3.49	0.61	3.76	0.88	2.65	0.41	2.76	0.44	5.3	6.9	12.3	25	5.2	11.7	<0.1	0.3
11-JAM-156	Soil	38.2	6.17	1.09	4.78	0.75	4.24	0.92	2.64	0.41	2.76	0.43	6.3	9.5	95.7	234	20.3	32.1	1.3	1.9
11-JAM-184	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-JAM-182	Soil	26.9	4.55	0.83	3.53	0.59	3.41	0.75	2.23	0.34	2.42	0.39	3.6	7.6	10.8	35	6.8	13.6	0.1	0.2
11-JAM-186	Soil	11.9	2.29	0.42	2.09	0.37	2.32	0.52	1.54	0.24	1.70	0.28	2.6	5.6	4.8	34	5.0	9.0	<0.1	0.2
11-JAM-185	Soil	25.7	4.49	0.84	3.63	0.61	3.77	0.81	2.45	0.40	2.70	0.40	3.3	8.4	11.4	47	9.7	13.2	0.2	0.3
11-JAM-179	Soil	31.8	5.48	0.96	4.34	0.69	4.10	0.90	2.75	0.40	2.73	0.43	6.7	12.0	13.7	30	7.0	13.1	<0.1	0.5
11-JAM-194	Soil	36.1	5.74	1.08	4.56	0.70	4.27	0.88	2.59	0.40	2.73	0.41	2.0	8.3	13.4	24	5.3	8.8	0.1	0.1
11-JAM-192	Soil	20.9	3.50	0.66	2.83	0.48	2.93	0.60	1.71	0.27	1.85	0.30	1.7	5.8	7.0	17	4.0	4.9	0.1	0.2
11-JAM-171	Soil	42.4	7.46	1.36	6.20	0.88	5.02	1.05	3.22	0.48	3.24	0.50	8.9	31.0	18.9	95	32.8	20.8	0.5	0.4
11-JAM-170	Soil	31.5	5.18	0.84	4.03	0.62	3.88	0.78	2.47	0.38	2.85	0.45	6.0	9.4	15.6	38	7.5	11.6	0.2	0.4
11-JAM-041	Soil	42.3	7.06	1.34	5.77	0.87	5.32	1.04	3.00	0.43	3.04	0.46	16.3	29.7	27.3	186	41.4	30.4	1.7	1.7
11-JAM-095	Soil	32.6	5.68	1.18	4.84	0.75	4.66	0.85	2.52	0.36	2.60	0.39	3.7	8.6	114.9	125	25.5	36.9	0.3	1.4
11-JAM-093	Soil	30.3	5.30	0.92	4.19	0.63	3.81	0.77	2.31	0.37	2.52	0.37	3.2	8.7	135.4	180	22.5	25.8	0.4	1.9
11-MGB-220	Soil	27.2	4.44	0.93	4.07	0.59	3.59	0.79	2.37	0.36	2.44	0.38	4.0	10.9	12.4	126	28.4	11.4	1.3	1.1
11-MGB-230	Soil	21.3	3.74	0.78	3.27	0.48	2.91	0.53	1.58	0.23	1.60	0.26	0.9	9.0	12.6	113	15.5	9.2	1.6	0.7
11-MGB-234	Soil	17.9	3.14	0.65	2.82	0.42	2.71	0.49	1.51	0.23	1.42	0.23	1.4	6.8	9.5	103	13.6	4.5	1.6	1.1
11-MGB-235	Soil	23.3	4.09	0.95	3.56	0.53	2.96	0.58	1.56	0.23	1.57	0.23	0.2	9.3	20.1	62	7.8	3.5	0.4	0.5
11-MGB-228	Soil	15.4	2.87	0.64	2.56	0.40	2.22	0.50	1.46	0.21	1.34	0.23	0.2	5.8	4.2	38	6.1	1.6	0.3	0.1
11-MGB-215	Soil	22.9	3.67	0.76	3.45	0.50	3.21	0.64	1.77	0.28	1.89	0.29	1.9	12.2	12.5	154	21.2	17.3	1.5	1.1
11-MGB-229	Soil	31.8	7.04	1.61	7.43	1.07	6.35	1.17	3.17	0.46	2.96	0.46	0.5	31.1	7.6	94	17.0	5.5	0.7	0.2
11-MGB-231	Soil	26.6	5.27	1.08	4.88	0.78	4.88	0.93	2.78	0.41	2.87	0.44	0.3	3.8	7.5	44	7.0	5.0	0.6	0.2
11-MGB-214	Soil	21.1	4.11	0.85	3.73	0.57	3.53	0.67	2.04	0.30	2.04	0.32	2.7	15.5	10.3	154	30.8	23.5	1.7	1.0
11-MGB-191	Soil	14.8	2.24	0.44	2.02	0.30	2.04	0.38	1.15	0.17	1.14	0.18	3.5	7.0	12.8	91	14.6	9.5	1.0	0.7
11-MGB-201	Soil	27.4	4.88	0.98	4.28	0.67	4.32	0.81	2.33	0.37	2.45	0.38	1.3	10.9	13.1	96	30.3	15.7	0.5	<0.1



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Project: TING PROP B

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-122	Soil	0.1	<0.5	0.03	0.5	1.2
11-JAM-132	Soil	0.9	1.6	0.07	0.8	1.2
11-JAM-127	Soil	0.7	<0.5	0.06	1.0	1.7
11-JAM-129	Soil	0.3	0.8	0.04	0.9	1.5
11-JAM-131	Soil	1.9	5.2	0.07	0.5	1.0
11-JAM-196	Soil	0.2	<0.5	0.02	0.2	2.0
11-JAM-156	Soil	0.5	<0.5	0.02	0.4	<0.5
11-JAM-184	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-JAM-182	Soil	0.3	<0.5	0.03	0.2	1.5
11-JAM-186	Soil	<0.1	<0.5	0.01	<0.1	0.7
11-JAM-185	Soil	<0.1	<0.5	0.02	0.2	0.7
11-JAM-179	Soil	0.3	<0.5	0.03	0.2	1.4
11-JAM-194	Soil	0.4	<0.5	0.04	0.1	0.6
11-JAM-192	Soil	<0.1	4.5	0.03	<0.1	<0.5
11-JAM-171	Soil	1.4	<0.5	0.24	0.6	4.0
11-JAM-170	Soil	0.2	<0.5	0.02	0.3	2.1
11-JAM-041	Soil	0.2	3.9	0.34	0.9	2.7
11-JAM-095	Soil	0.3	<0.5	0.04	0.4	<0.5
11-JAM-093	Soil	0.2	<0.5	0.02	0.5	<0.5
11-MGB-220	Soil	0.2	<0.5	0.11	0.3	1.2
11-MGB-230	Soil	0.1	8.8	0.06	0.2	0.6
11-MGB-234	Soil	0.1	1.7	0.03	0.1	<0.5
11-MGB-235	Soil	<0.1	2.4	0.04	0.1	0.7
11-MGB-228	Soil	<0.1	2.1	0.03	0.1	<0.5
11-MGB-215	Soil	0.2	<0.5	0.15	0.6	1.3
11-MGB-229	Soil	0.1	0.6	0.08	0.2	0.9
11-MGB-231	Soil	<0.1	<0.5	0.04	0.2	0.6
11-MGB-214	Soil	0.3	<0.5	0.09	0.7	1.6
11-MGB-191	Soil	<0.1	<0.5	0.04	0.3	0.7
11-MGB-201	Soil	0.1	<0.5	0.03	<0.1	0.7



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL																				
		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02
11-MGB-195	Soil	165	<1	2.7	1.8	4.7	13.6	7.3	27.9	<1	54.2	0.4	4.6	2.5	47	0.8	557.7	16.3	17.2	28.3	3.77



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1
11-MGB-195	Soil	15.2	2.74	0.55	2.68	0.40	2.53	0.55	1.46	0.23	1.88	0.30	0.5	2.9	5.0	27	8.3	4.5	0.2	<0.1	<0.1



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CERTIFICATE OF ANALYSIS

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Method		1DX	1DX	1DX	1DX	1DX
Analyte		Ag	Au	Hg	Tl	Se
Unit		ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.5	0.01	0.1	0.5
11-MGB-195	Soil	<0.1	<0.5	0.02	<0.1	<0.5



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.02
Pulp Duplicates																					
11-MGB-226	Soil	832	2	12.0	6.5	17.7	7.7	10.0	134.2	2	67.9	0.7	17.0	3.5	69	0.9	303.4	31.4	30.5	63.8	7.73
REP 11-MGB-226	QC	847	2	11.1	5.8	17.6	8.4	9.7	135.0	2	68.0	0.7	17.4	3.6	68	0.7	316.2	28.3	31.4	63.9	7.72
11-JAM-082	Soil	974	7	13.0	10.8	14.7	10.5	56.6	112.5	4	110.5	2.5	26.2	8.2	128	46.4	419.4	33.7	54.7	104.1	10.82
REP 11-JAM-082	QC																				
11-MGB-219	Soil	688	<1	5.1	1.8	5.3	6.6	9.3	38.6	<1	76.2	0.6	6.8	2.5	113	0.7	263.0	17.0	20.8	40.2	4.93
REP 11-MGB-219	QC																				
11-MGB-217	Soil	1649	<1	4.0	2.6	5.1	12.0	10.3	33.6	<1	70.8	0.5	6.9	2.9	85	1.0	470.5	19.5	37.9	78.1	8.88
REP 11-MGB-217	QC	1607	<1	4.9	2.9	5.3	12.6	11.5	32.9	<1	73.6	0.8	6.3	2.9	86	0.8	491.4	19.9	34.7	67.9	8.74
11-MGB-248	Soil	247	<1	3.3	1.6	4.2	2.8	8.6	24.9	<1	61.9	0.5	4.9	1.3	41	<0.5	107.4	9.1	15.0	27.3	3.31
REP 11-MGB-248	QC	232	1	3.3	1.4	3.2	2.2	7.3	24.1	<1	59.0	0.4	4.1	1.2	39	<0.5	85.9	8.1	13.9	26.9	3.20
11-MGB-257	Soil	1349	<1	4.1	6.9	6.3	4.2	9.5	58.8	<1	84.0	0.6	5.3	8.4	207	0.8	158.6	16.4	20.9	36.8	4.75
REP 11-MGB-257	QC																				
11-JAM-140	Soil	1053	2	7.8	9.8	17.0	10.4	51.1	117.3	3	129.5	2.9	20.3	4.0	117	15.4	436.2	23.5	52.4	94.9	10.44
REP 11-JAM-140	QC	1051	4	8.4	9.5	17.7	9.7	55.7	119.2	3	130.6	3.3	21.4	4.3	117	14.8	406.9	22.5	51.0	93.7	10.12
11-JAM-134	Soil	1426	6	6.6	14.4	17.8	12.0	110.6	243.4	5	120.9	5.6	34.3	7.2	163	34.9	495.7	33.4	76.6	128.4	13.22
REP 11-JAM-134	QC																				
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX				
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi				
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1				
Pulp Duplicates																									
11-MGB-226	Soil	27.6	6.00	1.58	6.32	1.01	5.32	1.15	3.23	0.46	2.93	0.45	0.4	10.8	13.4	58	24.2	2.2	0.6	<0.1	0.2				
REP 11-MGB-226	QC	28.3	6.00	1.45	6.07	0.97	5.15	1.07	3.03	0.43	2.67	0.42													
11-JAM-082	Soil	35.5	6.61	1.35	5.40	0.91	5.25	1.14	3.22	0.49	3.18	0.52	3.8	17.0	124.0	165	24.9	40.9	1.6	2.6	2.4				
REP 11-JAM-082	QC													3.8	16.2	126.0	162	25.4	40.1	1.4	2.5	2.4			
11-MGB-219	Soil	19.1	3.16	0.69	2.84	0.48	2.52	0.54	1.60	0.25	1.66	0.27	2.4	9.6	10.4	83	18.9	5.6	0.9	0.7	<0.1				
REP 11-MGB-219	QC													2.5	10.5	11.1	87	21.0	5.8	0.9	0.7	<0.1			
11-MGB-217	Soil	30.3	4.73	0.86	3.45	0.55	2.84	0.62	1.89	0.29	1.89	0.31	1.3	5.8	10.6	94	15.5	6.6	0.6	0.6	<0.1				
REP 11-MGB-217	QC	31.7	5.28	0.98	3.78	0.58	3.05	0.64	1.85	0.30	1.89	0.34													
11-MGB-248	Soil	11.2	1.96	0.44	1.80	0.29	1.47	0.30	0.83	0.13	0.90	0.13	0.3	4.4	10.9	34	7.2	3.4	0.3	<0.1	<0.1				
REP 11-MGB-248	QC	11.1	1.88	0.42	1.62	0.26	1.36	0.27	0.82	0.12	0.80	0.12													
11-MGB-257	Soil	17.1	3.03	0.65	2.77	0.45	2.53	0.52	1.43	0.23	1.46	0.22	27.6	16.3	6.9	518	46.0	19.1	6.4	1.2	0.1				
REP 11-MGB-257	QC													27.7	16.6	7.2	530	48.0	19.3	6.5	1.3	0.1			
11-JAM-140	Soil	33.3	5.71	1.08	4.21	0.69	3.83	0.87	2.50	0.39	2.56	0.45	3.6	5.9	97.7	380	16.5	22.1	1.7	1.2	0.9				
REP 11-JAM-140	QC	33.5	5.51	1.04	4.10	0.72	3.77	0.85	2.38	0.38	2.54	0.43													
11-JAM-134	Soil	38.0	6.26	1.24	5.02	0.91	5.06	1.19	3.32	0.53	3.44	0.53	39.5	11.7	358.3	479	24.3	59.2	1.8	5.7	2.7				
REP 11-JAM-134	QC													47.6	11.0	371.6	456	23.5	56.9	1.7	5.2	2.5			
Reference Materials																									
STD DS8	Standard													14.7	112.5	110.9	327	40.0	25.1	2.3	3.5	6.0			
STD DS8	Standard													13.4	107.8	106.5	306	38.4	26.7	2.4	3.6	5.5			
STD DS8	Standard													15.6	122.7	145.0	346	42.6	24.1	2.4	3.7	7.1			
STD DS8	Standard													12.1	113.9	122.6	316	38.6	24.7	2.5	3.7	6.4			
STD DS8	Standard													15.6	117.3	136.8	325	40.0	26.9	2.6	3.5	6.7			
STD DS8	Standard													15.7	119.7	126.5	328	40.8	26.0	2.6	3.9	6.6			
STD OREAS45CA	Standard													0.7	516.0	18.1	61	259.3	3.9	<0.1	<0.1	0.2			
STD OREAS45CA	Standard													0.7	494.9	17.6	59	236.6	3.8	<0.1	<0.1	0.2			
STD OREAS45CA	Standard													0.8	509.4	20.7	59	254.5	3.3	<0.1	<0.1	0.2			
STD OREAS45CA	Standard													0.8	514.1	20.3	66	253.4	3.1	<0.1	<0.1	0.2			
STD OREAS45CA	Standard													0.8	533.0	21.5	66	271.1	3.2	0.1	<0.1	0.2			



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Project: TING PROP B

Report Date: August 20, 2011

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QUALITY CONTROL REPORT

VAN11003013.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
Pulp Duplicates						
11-MGB-226	Soil	0.1	0.8	0.10	0.4	<0.5
REP 11-MGB-226	QC					
11-JAM-082	Soil	0.6	2.2	0.04	0.5	0.6
REP 11-JAM-082	QC	0.7	2.3	0.05	0.5	0.5
11-MGB-219	Soil	<0.1	<0.5	0.04	0.1	<0.5
REP 11-MGB-219	QC	<0.1	0.8	0.18	0.1	0.6
11-MGB-217	Soil	<0.1	<0.5	0.04	0.1	<0.5
REP 11-MGB-217	QC					
11-MGB-248	Soil	<0.1	<0.5	0.02	<0.1	<0.5
REP 11-MGB-248	QC					
11-MGB-257	Soil	0.3	<0.5	0.15	1.9	4.0
REP 11-MGB-257	QC	0.4	<0.5	0.20	2.0	4.2
11-JAM-140	Soil	0.3	<0.5	0.02	0.4	<0.5
REP 11-JAM-140	QC					
11-JAM-134	Soil	1.0	<0.5	0.06	0.8	1.2
REP 11-JAM-134	QC	1.1	0.9	0.04	0.7	1.0
Reference Materials						
STD DS8	Standard	1.8	104.8	0.19	5.9	6.2
STD DS8	Standard	1.7	85.5	0.20	4.8	3.8
STD DS8	Standard	1.9	132.5	0.23	6.4	5.6
STD DS8	Standard	1.9	91.8	0.21	5.1	5.6
STD DS8	Standard	1.8	107.3	0.20	5.9	5.9
STD DS8	Standard	1.7	97.8	0.20	5.4	5.4
STD OREAS45CA	Standard	0.2	49.1	0.03	<0.1	0.9
STD OREAS45CA	Standard	0.2	37.4	0.04	0.1	<0.5
STD OREAS45CA	Standard	0.3	41.0	0.03	0.1	<0.5
STD OREAS45CA	Standard	0.3	36.9	0.03	<0.1	<0.5
STD OREAS45CA	Standard	0.3	41.1	0.03	<0.1	<0.5



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QUALITY CONTROL REPORT

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		4B Ba ppm 1	4B Be ppm 1	4B Co ppm 0.2	4B Cs ppm 0.1	4B Ga ppm 0.5	4B Hf ppm 0.1	4B Nb ppm 0.1	4B Rb ppm 0.1	4B Sn ppm 1	4B Sr ppm 0.5	4B Ta ppm 0.1	4B Th ppm 0.2	4B U ppm 0.1	4B V ppm 8	4B W ppm 0.5	4B Zr ppm 0.1	4B Y ppm 0.1	4B La ppm 0.1	4B Ce ppm 0.1	4B Pr ppm 0.02
STD OREAS45CA	Standard																				
STD SO-18	Standard	509	<1	25.8	6.9	16.7	9.4	20.0	27.2	15	414.1	7.1	10.1	15.9	198	13.9	277.7	31.0	12.0	26.9	3.29
STD SO-18	Standard	516	1	26.5	6.8	16.6	9.3	20.2	27.2	15	413.7	7.1	10.6	16.4	200	14.4	281.2	31.2	12.3	27.3	3.40
STD SO-18	Standard	525	<1	27.8	6.9	18.4	9.3	20.6	28.8	15	414.8	7.3	10.8	16.9	210	14.7	292.8	33.0	13.1	27.1	3.53
STD SO-18	Standard	525	2	27.4	7.0	18.4	9.5	21.4	28.6	15	422.2	7.5	10.7	16.7	212	15.0	295.1	33.2	13.3	28.1	3.60
STD SO-18	Standard	547	<1	25.7	7.5	18.3	9.9	22.3	29.4	16	429.1	7.6	11.7	17.6	193	15.9	309.1	32.0	13.2	27.5	3.62
STD SO-18	Standard	540	<1	25.3	7.4	18.4	10.3	21.6	28.9	15	422.5	7.6	12.2	17.1	193	15.8	305.2	32.4	13.1	28.2	3.62
STD SO-18	Standard	567	<1	29.1	7.4	19.9	10.0	22.3	30.7	17	453.6	8.0	11.8	18.1	216	16.7	323.6	33.6	13.6	29.4	3.71
STD SO-18	Standard	554	1	29.1	7.6	20.8	10.6	22.0	30.9	16	455.6	7.9	11.7	17.7	215	16.7	322.4	33.5	13.5	29.2	3.61
STD SO-18	Standard	543	<1	27.4	7.4	19.0	10.7	22.1	30.4	16	421.0	7.6	10.8	16.7	217	15.9	314.8	34.0	13.4	28.1	3.70
STD SO-18	Standard	544	1	28.1	7.5	18.9	10.0	22.2	30.1	16	425.4	7.7	10.8	17.0	217	15.7	313.0	34.6	13.3	28.0	3.66
STD SO-18	Standard	504	1	26.8	7.2	18.1	9.3	21.3	28.5	15	404.3	7.0	10.5	16.5	206	15.1	299.8	33.1	12.7	27.0	3.56
STD SO-18	Standard	513	<1	25.6	7.2	17.9	9.7	22.0	28.6	15	403.5	7.2	10.2	15.7	208	14.5	304.6	33.3	12.5	27.3	3.51
STD SO-18 Expected		514	1	26.2	7.1	17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1	3.45
STD DS8 Expected																					
STD OREAS45CA Expected																					
BLK	Blank																				
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank																				
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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Project: TING PROP B

Report Date: August 20, 2011

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QUALITY CONTROL REPORT

VAN11003013.1

		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
STD OREAS45CA	Standard												0.8	539.2	20.7	66	270.2	3.4	0.1
STD SO-18	Standard	12.9	2.84	0.86	2.74	0.49	2.85	0.63	1.78	0.28	1.69	0.27							
STD SO-18	Standard	13.3	2.82	0.88	2.97	0.49	2.84	0.61	1.85	0.28	1.67	0.27							
STD SO-18	Standard	13.9	3.00	0.95	3.04	0.53	2.97	0.65	1.98	0.28	1.87	0.29							
STD SO-18	Standard	13.8	3.06	0.94	3.03	0.53	3.10	0.67	1.92	0.28	1.87	0.29							
STD SO-18	Standard	14.4	3.13	0.93	2.93	0.53	3.10	0.65	1.85	0.29	1.82	0.29							
STD SO-18	Standard	14.5	2.97	0.94	3.04	0.55	3.22	0.65	1.92	0.29	1.79	0.30							
STD SO-18	Standard	15.1	3.15	0.98	3.23	0.56	3.20	0.66	1.96	0.31	1.99	0.30							
STD SO-18	Standard	14.9	3.18	0.94	3.11	0.55	3.20	0.64	1.90	0.31	1.91	0.30							
STD SO-18	Standard	14.9	3.17	1.00	3.27	0.55	3.38	0.69	2.05	0.29	1.97	0.30							
STD SO-18	Standard	14.7	3.23	0.97	3.20	0.55	3.20	0.68	2.02	0.29	1.96	0.30							
STD SO-18	Standard	15.0	3.04	0.96	3.18	0.53	3.10	0.66	1.94	0.30	1.86	0.29							
STD SO-18	Standard	14.4	3.07	0.90	3.18	0.52	3.11	0.66	1.93	0.27	1.86	0.29							
STD SO-18 Expected		14	3	0.89	2.93	0.53	3	0.62	1.84	0.27	1.79	0.27							
STD DS8 Expected													13.44	110	123	312	38.1	26	2.38
STD OREAS45CA Expected													1	494	20	60	240	3.8	0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1



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QUALITY CONTROL REPORT

VAN11003013.1

		1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
STD OREAS45CA	Standard	0.3	39.9	0.03	<0.1	0.6
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18 Expected						
STD DS8 Expected		1.69	107	0.192	5.4	5.23
STD OREAS45CA Expected		0.275	43	0.03	0.07	0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank					
BLK	Blank					
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5



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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: July 07, 2011

Report Date: August 20, 2011

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CERTIFICATE OF ANALYSIS

VAN11003014.1

CLIENT JOB INFORMATION

Project: TING PROP B
Shipment ID: Greyhound51736995855
P.O. Number
Number of Samples: 121

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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: Harsbo Minerals Ltd.
4758 Victory Street
Burnaby BC V5J 1S2
Canada

CC: Lee A. Groat
Thomas Hasek
Michael Burns
David Turner

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	117	Dry at 60C			VAN
SS80	117	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	117	Saving all or part of Soil Reject			VAN
4B02	117	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	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

VAN11003014.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-MGB-182	Soil	2195	1	3.5	6.0	12.5	4.5	11.4	88.4	2	101.6	0.7	6.0	20.8	573	1.5	179.8	39.6	25.4	38.8
11-MGB-190	Soil	1516	6	4.5	7.1	16.9	14.0	198.0	161.3	4	276.4	9.8	36.8	14.6	251	5.2	623.2	46.5	146.4	242.8
11-MGB-185	Soil	1653	<1	5.8	2.5	7.4	6.8	21.5	46.7	2	75.8	1.4	6.9	3.0	162	1.2	257.8	18.2	29.9	55.1
11-MGB-193	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-WJH-033	Soil	1815	2	2.8	4.6	12.0	6.2	27.6	76.5	2	77.3	1.4	8.9	11.3	442	2.4	250.7	23.4	37.5	59.4
11-WJH-032	Soil	2738	2	5.7	6.0	11.7	7.2	35.1	100.4	2	86.4	2.1	12.5	6.5	370	3.1	260.7	26.0	49.8	85.3
11-WJH-034	Soil	1375	1	3.1	4.9	15.8	10.2	24.6	93.9	3	123.5	1.6	10.5	4.2	192	2.2	369.2	26.7	44.1	80.9
11-WJH-041	Soil	1092	1	4.0	4.2	11.5	7.6	18.5	79.7	2	79.5	1.2	9.2	4.7	264	1.6	298.9	22.6	39.8	67.8
11-AAB-0186	Soil	978	<1	7.0	1.8	5.9	11.7	7.2	25.7	1	57.9	0.5	3.6	2.2	77	0.7	459.3	14.7	14.3	25.0
11-AAB-0187	Soil	44	<1	1.8	0.6	1.5	0.2	0.8	3.9	<1	14.3	<0.1	0.5	0.1	12	<0.5	8.6	1.5	2.1	4.1
11-AAB-0176	Soil	6502	2	14.5	4.6	15.5	12.0	12.0	62.4	2	127.4	0.9	10.7	4.2	177	1.2	480.1	32.8	43.0	80.4
11-AAB-0192	Soil	1589	<1	5.0	2.4	6.6	6.4	9.1	37.1	1	92.7	0.6	4.4	2.9	149	0.6	216.6	17.5	18.8	31.3
11-AAB-0173	Soil	1527	<1	5.0	1.9	6.9	7.6	8.8	30.1	1	55.8	0.6	5.7	3.3	152	0.8	305.2	20.2	20.9	37.5
11-AAB-0182	Soil	1061	2	3.4	6.2	17.1	8.8	11.9	70.4	2	143.1	0.8	11.9	3.3	169	2.0	321.9	27.5	35.3	63.6
11-AAB-0198	Soil	879	11	18.3	57.3	23.6	10.4	99.4	549.8	6	59.3	3.9	56.8	9.4	134	10.3	450.5	14.8	24.8	57.7
11-AAB-0185	Soil	2739	<1	4.6	2.4	7.0	37.8	9.0	34.7	<1	80.6	0.7	6.0	3.6	90	2.3	1511	22.8	19.7	33.6
11-AAB-0177	Soil	3149	<1	8.0	2.0	7.5	21.1	9.8	32.5	<1	61.1	0.7	7.3	3.3	98	1.0	850.4	20.9	19.7	37.5
11-AAB-0191	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-AAB-0168	Soil	2463	1	5.8	3.6	10.1	11.6	7.6	49.5	2	64.4	0.7	6.9	2.9	148	0.6	450.6	22.5	23.2	49.8
11-AAB-0165	Soil	835	<1	7.3	1.4	5.7	15.6	13.6	27.6	1	49.6	0.8	6.9	2.7	70	1.0	592.7	20.9	21.2	40.5
11-AAB-0167	Soil	2802	1	2.8	6.1	11.4	5.0	5.9	67.8	1	72.2	0.4	5.4	9.1	456	0.7	200.0	27.2	19.7	35.8
11-AAB-0175	Soil	4449	2	12.4	3.9	13.7	8.1	10.1	65.5	2	103.0	0.7	8.7	5.1	251	1.2	289.0	28.2	32.9	59.9
11-AAB-0253	Soil	4989	5	15.9	12.2	19.8	7.0	91.3	187.5	2	133.5	4.4	30.1	22.3	405	7.0	348.6	42.5	83.0	133.5
11-JAM-187	Soil	2588	3	6.4	11.1	25.4	4.7	22.5	113.6	3	194.0	1.2	17.3	5.4	318	1.7	169.8	27.3	47.2	83.4
11-JAM-151	Soil	1187	4	6.4	11.0	14.5	9.8	27.4	115.9	2	141.3	1.4	16.0	9.2	170	5.9	374.4	32.1	54.9	94.6
11-JAM-148	Soil	1180	4	8.8	9.3	14.3	10.4	48.8	129.2	3	117.4	2.7	22.5	5.5	167	13.6	410.4	32.4	77.3	116.9
11-JAM-145	Soil	920	5	7.0	12.2	17.0	8.4	60.6	139.9	6	61.4	2.8	26.3	4.5	177	11.3	346.0	21.7	46.7	91.1
11-JAM-197	Soil	1053	1	1.1	3.0	11.9	13.6	42.8	69.0	2	159.6	1.8	13.3	4.8	144	1.9	567.4	37.1	39.2	71.4
11-JAM-178	Soil	1274	2	4.5	6.4	18.2	10.9	34.6	118.5	3	125.1	2.1	12.1	4.0	193	2.2	395.0	27.6	45.8	85.3
11-JAM-169	Soil	9519	2	1.2	3.9	14.3	7.7	31.7	80.0	2	100.5	1.6	12.5	4.6	215	1.8	294.8	31.8	38.9	69.2



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Project: TING PROP B

Report Date: August 20, 2011

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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX			
					Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	
11-MGB-182	Soil		22.4	4.92	1.23	5.19	0.78	4.47	0.99	3.08	0.49	3.18	0.52	22.4	50.4	25.1	331	167.3	19.7	3.6	3.6	0.1			
11-MGB-190	Soil		76.9	11.63	1.87	8.04	1.23	6.95	1.44	4.28	0.68	4.66	0.73	3.5	11.7	27.3	358	48.7	18.4	3.1	1.3	0.3			
11-MGB-185	Soil		22.4	3.82	0.77	3.20	0.49	2.97	0.62	1.72	0.27	1.81	0.25	3.4	9.6	10.6	117	21.9	13.5	1.1	1.0	<0.1			
11-MGB-193	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
11-WJH-033	Soil		27.0	4.66	1.00	3.99	0.62	3.58	0.74	2.19	0.34	2.26	0.34	32.4	23.8	14.6	144	22.0	18.8	0.4	2.3	0.2			
11-WJH-032	Soil		34.8	5.96	1.27	4.60	0.69	4.28	0.88	2.48	0.38	2.52	0.37	18.0	25.9	20.0	212	40.5	28.8	0.9	1.9	0.2			
11-WJH-034	Soil		34.2	6.06	1.15	4.82	0.73	4.03	0.90	2.65	0.41	2.73	0.40	6.7	6.1	13.0	68	9.6	8.4	0.4	0.4	0.2			
11-WJH-041	Soil		29.7	4.70	0.87	3.43	0.59	3.36	0.71	2.12	0.34	2.33	0.33	16.3	16.7	10.8	136	27.1	16.2	0.3	1.1	0.1			
11-AAB-0186	Soil		10.5	2.23	0.52	2.06	0.34	2.30	0.44	1.51	0.22	1.55	0.26	1.5	8.1	6.0	68	17.4	18.3	0.3	0.2	<0.1			
11-AAB-0187	Soil		1.8	0.31	0.07	0.29	0.04	0.24	0.04	0.08	0.02	0.13	0.02	0.7	1.1	1.6	55	4.1	11.1	<0.1	<0.1	<0.1			
11-AAB-0176	Soil		37.4	6.69	1.53	5.42	0.87	5.35	1.00	2.94	0.49	3.13	0.49	3.0	18.1	15.3	96	27.5	16.6	0.4	0.2	0.2			
11-AAB-0192	Soil		15.3	2.95	0.70	2.77	0.42	2.80	0.57	1.44	0.25	1.54	0.24	7.6	12.0	12.4	73	20.3	8.7	0.8	0.7	<0.1			
11-AAB-0173	Soil		17.6	3.35	0.73	2.98	0.50	2.91	0.62	1.92	0.31	2.17	0.32	9.2	11.4	9.9	68	19.3	13.1	0.4	0.6	0.1			
11-AAB-0182	Soil		31.5	5.77	1.12	4.57	0.72	4.41	0.93	2.59	0.41	2.85	0.43	1.6	12.0	16.1	24	10.5	18.6	0.1	0.1	0.2			
11-AAB-0198	Soil		17.1	3.06	0.62	2.36	0.43	2.42	0.53	1.66	0.23	1.75	0.24	7.1	12.7	147.6	858	21.9	59.1	2.8	1.3	6.0			
11-AAB-0185	Soil		17.5	3.27	0.82	3.04	0.51	3.17	0.74	2.59	0.39	3.27	0.56	1.5	8.7	7.7	76	18.2	8.2	0.7	0.2	0.1			
11-AAB-0177	Soil		17.2	3.33	0.82	3.13	0.50	3.24	0.68	2.15	0.35	2.52	0.43	2.2	9.3	7.6	42	13.2	13.0	0.2	0.2	0.1			
11-AAB-0191	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
11-AAB-0168	Soil		28.6	6.13	1.25	4.69	0.63	3.69	0.77	2.36	0.37	2.45	0.38	3.3	12.0	10.7	33	18.0	11.3	0.2	0.3	0.1			
11-AAB-0165	Soil		17.4	3.16	0.60	2.78	0.51	3.14	0.70	2.05	0.35	2.27	0.36	1.4	5.3	6.3	33	9.1	13.3	0.1	0.3	<0.1			
11-AAB-0167	Soil		19.0	4.30	1.06	4.43	0.71	3.86	0.85	2.40	0.34	2.32	0.38	10.0	22.8	11.6	55	23.6	29.5	0.7	0.5	0.1			
11-AAB-0175	Soil		29.7	5.37	1.40	4.76	0.74	4.29	0.93	2.79	0.40	2.70	0.42	12.4	23.6	14.3	118	37.1	18.7	0.7	0.4	0.2			
11-AAB-0253	Soil		45.3	7.46	1.91	6.87	1.02	5.84	1.22	3.61	0.53	3.45	0.52	36.7	34.5	61.6	513	148.8	63.5	6.8	2.1	0.4			
11-JAM-187	Soil		35.7	7.28	1.44	5.57	0.81	4.50	0.93	2.71	0.40	2.61	0.39	6.5	14.4	29.6	69	15.4	18.6	0.4	<0.1	0.3			
11-JAM-151	Soil		40.0	7.14	1.39	5.82	0.91	5.07	1.12	3.18	0.50	3.20	0.49	13.6	18.6	44.1	127	26.1	27.6	0.6	1.2	0.5			
11-JAM-148	Soil		45.3	7.57	1.46	5.83	0.92	5.67	1.11	3.23	0.48	3.18	0.49	6.6	14.2	154.0	349	27.4	32.3	1.8	1.7	1.4			
11-JAM-145	Soil		28.0	4.58	0.92	3.86	0.62	3.70	0.79	2.21	0.36	2.35	0.35	4.0	9.1	293.4	368	23.3	24.8	1.6	1.8	2.8			
11-JAM-197	Soil		29.7	5.44	1.10	5.12	0.88	5.64	1.22	3.62	0.57	3.86	0.59	2.8	12.2	11.3	20	5.5	7.3	<0.1	0.3	0.2			
11-JAM-178	Soil		36.3	5.84	1.06	4.74	0.74	4.48	0.98	2.80	0.47	2.86	0.46	3.4	9.4	15.6	60	12.1	12.1	0.1	0.3	0.3			
11-JAM-169	Soil		30.4	5.61	1.71	4.59	0.82	5.12	1.13	3.21	0.48	2.95	0.47	7.2	23.6	17.9	29	9.3	13.8	0.2	0.4	0.2			



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Project: TING PROP B

Report Date: August 20, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-MGB-182	Soil	0.3	3.1	0.73	3.4	6.6
11-MGB-190	Soil	0.2	<0.5	0.03	0.7	1.2
11-MGB-185	Soil	0.1	<0.5	0.05	0.2	1.1
11-MGB-193	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-WJH-033	Soil	0.1	<0.5	0.08	0.6	7.7
11-WJH-032	Soil	0.3	0.7	0.18	0.7	3.5
11-WJH-034	Soil	0.2	<0.5	0.04	0.2	0.8
11-WJH-041	Soil	0.3	<0.5	0.04	1.1	1.3
11-AAB-0186	Soil	0.2	<0.5	0.03	<0.1	1.2
11-AAB-0187	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0176	Soil	0.4	<0.5	0.07	<0.1	2.5
11-AAB-0192	Soil	0.2	<0.5	0.04	0.2	1.7
11-AAB-0173	Soil	0.2	<0.5	0.04	0.2	1.8
11-AAB-0182	Soil	0.6	<0.5	0.15	<0.1	2.1
11-AAB-0198	Soil	0.2	0.7	<0.01	1.5	<0.5
11-AAB-0185	Soil	0.3	<0.5	0.04	<0.1	1.0
11-AAB-0177	Soil	0.3	<0.5	0.05	<0.1	1.8
11-AAB-0191	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-AAB-0168	Soil	0.8	<0.5	0.13	<0.1	1.8
11-AAB-0165	Soil	0.2	<0.5	0.04	<0.1	1.1
11-AAB-0167	Soil	0.4	0.7	0.25	0.5	3.0
11-AAB-0175	Soil	0.4	<0.5	0.07	0.2	4.0
11-AAB-0253	Soil	0.5	<0.5	0.17	1.0	4.3
11-JAM-187	Soil	1.2	2.1	0.21	0.4	2.0
11-JAM-151	Soil	1.5	1.2	0.03	0.6	0.6
11-JAM-148	Soil	1.1	0.8	0.04	0.5	0.6
11-JAM-145	Soil	2.0	<0.5	0.09	0.5	0.6
11-JAM-197	Soil	0.3	<0.5	0.05	0.1	1.1
11-JAM-178	Soil	0.3	<0.5	0.02	0.2	0.6
11-JAM-169	Soil	0.6	1.5	0.08	0.1	2.8



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.02
11-JAM-191	Soil	1131	<1	1.8	3.9	15.1	9.7	25.5	63.1	2	192.1	1.4	8.3	2.8	140	1.2	366.7	18.0	25.7	46.3
11-JAM-175	Soil	1033	<1	3.8	4.4	14.7	9.8	25.9	94.3	3	109.0	1.6	10.1	3.5	178	2.2	406.6	22.1	36.8	70.0
11-JAM-180	Soil	1342	2	2.0	5.6	15.5	11.2	38.3	100.6	3	155.0	1.9	13.1	4.4	193	2.1	451.6	26.2	41.5	72.7
11-JAM-190	Soil	767	1	1.8	3.4	10.9	11.2	23.4	78.2	2	91.9	1.2	8.9	2.7	117	1.5	427.2	22.3	29.3	55.1
11-JAM-181	Soil	927	1	2.9	4.4	15.4	12.3	27.0	102.7	2	113.6	1.7	10.5	3.6	148	1.8	466.2	25.8	42.5	81.5
11-JAM-167	Soil	1268	3	14.4	10.1	16.2	10.2	31.1	180.8	3	112.3	1.7	15.7	3.7	154	7.5	382.3	29.9	47.7	95.7
11-JAM-174	Soil	2159	2	3.9	4.7	17.3	9.6	48.3	123.9	2	107.5	2.3	14.8	4.1	210	2.4	386.7	25.3	43.4	79.7
11-JAM-177	Soil	1006	<1	1.7	3.9	12.1	9.9	20.7	73.0	2	85.7	1.2	9.7	3.1	127	1.6	395.5	21.0	32.4	58.9
11-JAM-144	Soil	1459	5	5.0	8.8	13.1	9.6	72.5	149.5	3	92.4	3.7	22.7	5.5	217	12.3	400.8	23.9	58.8	105.6
11-JAM-189	Soil	1053	<1	1.0	3.5	11.1	10.7	32.4	55.1	2	114.1	1.6	9.3	2.8	146	1.5	403.5	19.1	26.3	47.9
11-JAM-198	Soil	1319	2	4.6	7.2	20.3	7.2	32.8	111.6	3	200.3	2.0	19.4	4.5	201	2.1	305.8	25.8	50.0	95.0
11-JAM-142	Soil	947	2	7.3	5.1	14.1	8.9	23.3	102.6	3	119.9	1.6	14.8	3.3	136	3.1	322.8	23.7	43.9	81.4
11-JAM-153	Soil	839	3	7.0	11.8	13.0	7.6	36.9	112.4	3	122.0	2.0	50.9	15.0	110	7.7	304.7	61.2	304.6	235.7
11-JAM-183	Soil	857	<1	3.8	4.4	11.9	9.3	22.9	79.7	3	110.3	1.4	11.5	3.6	145	1.9	360.5	25.3	40.4	76.1
11-JAM-157	Soil	1073	4	10.1	10.1	14.6	8.7	32.5	103.3	4	128.7	1.8	22.3	5.3	133	6.3	315.6	28.6	65.5	122.2
11-JAM-160	Soil	910	4	7.0	10.1	15.8	10.3	53.8	121.3	4	121.1	2.9	20.0	4.2	122	13.9	392.8	22.5	48.4	87.0
11-JAM-155	Soil	907	4	9.6	7.3	14.4	8.4	32.2	142.5	3	129.5	1.9	22.3	6.7	127	6.6	313.4	35.9	105.0	110.6
11-JAM-055	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-JAM-154	Soil	1081	8	8.1	15.4	17.2	12.1	111.6	164.4	4	121.3	5.3	45.9	10.7	125	21.1	527.5	41.3	185.0	199.6
11-JAM-050	Soil	2741	1	4.2	7.5	11.0	3.8	11.7	84.9	2	61.4	0.9	9.2	5.5	800	1.5	137.4	27.6	34.1	53.6
11-JAM-172	Soil	2616	<1	2.3	5.4	13.9	8.5	58.9	121.9	3	86.8	2.6	15.3	4.3	227	2.0	329.1	20.3	41.3	70.8
11-JAM-048	Soil	3328	<1	4.1	7.0	11.5	5.1	23.5	91.4	2	81.7	1.0	11.3	6.6	509	2.1	184.3	20.6	40.8	63.8
11-JAM-188	Soil	825	<1	2.2	2.8	9.0	10.1	23.2	42.7	2	90.5	1.4	9.3	3.3	151	1.8	397.4	24.0	27.8	50.4
11-JAM-176	Soil	1402	<1	1.2	3.9	11.7	10.2	38.1	65.6	2	107.7	1.8	10.5	3.1	172	1.6	396.6	19.6	27.4	49.8
11-JAM-038	Soil	1804	1	2.6	3.9	10.2	7.4	42.1	93.9	2	91.5	2.2	14.2	6.4	263	4.0	292.5	23.9	49.5	81.8
11-JAM-193	Soil	1267	1	3.8	6.3	19.8	7.5	21.5	97.5	3	216.4	1.4	17.3	4.1	208	1.9	280.5	27.1	45.0	86.0
11-JAM-173	Soil	3530	1	2.5	5.1	15.3	7.8	62.9	113.4	2	78.6	2.5	18.2	5.0	244	1.9	324.9	24.5	43.2	75.0
11-JAM-152	Soil	1343	9	4.6	13.4	14.4	10.8	90.6	249.1	4	114.0	4.4	24.0	6.1	169	21.9	417.5	25.4	59.5	92.6
11-JAM-053	Soil	2029	2	7.1	7.1	12.8	6.5	17.5	90.6	2	80.9	1.1	10.1	5.6	445	1.8	223.9	20.4	40.5	70.0
11-JAM-091	Soil	1041	4	10.7	8.3	13.0	9.6	61.7	101.5	3	66.0	2.9	30.7	5.4	156	28.4	383.1	40.2	74.2	114.6



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CERTIFICATE OF ANALYSIS

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	Method Analyte	Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
			Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
11-JAM-191	Soil		19.9	3.45	0.73	2.97	0.46	2.69	0.61	1.74	0.28	1.85	0.29	2.0	5.5	8.2	13	2.8	4.5	<0.1
11-JAM-175	Soil		29.1	4.77	0.97	3.74	0.58	3.81	0.77	2.37	0.35	2.44	0.38	3.3	7.8	15.9	56	13.5	14.0	0.1
11-JAM-180	Soil		30.5	5.28	1.04	4.23	0.70	4.10	0.89	2.62	0.39	2.85	0.44	4.6	8.7	14.2	28	6.0	8.7	<0.1
11-JAM-190	Soil		23.8	4.04	0.75	3.25	0.55	3.41	0.74	2.39	0.36	2.31	0.37	3.1	5.7	9.8	30	5.1	8.6	<0.1
11-JAM-181	Soil		34.2	5.78	1.10	4.51	0.72	4.05	0.89	2.63	0.42	2.77	0.43	2.9	5.1	9.3	36	8.2	8.5	0.1
11-JAM-167	Soil		39.7	6.49	1.25	5.41	0.86	5.12	0.99	3.10	0.45	3.00	0.43	2.0	8.1	84.2	149	19.2	21.6	0.6
11-JAM-174	Soil		32.6	5.27	1.03	3.86	0.64	3.91	0.84	2.53	0.40	2.59	0.41	6.7	8.8	16.8	65	12.3	12.8	0.2
11-JAM-177	Soil		25.1	3.94	0.74	3.15	0.53	3.19	0.68	2.03	0.32	2.16	0.34	2.5	8.4	9.8	25	5.1	5.8	0.1
11-JAM-144	Soil		36.7	5.51	1.05	4.23	0.66	3.57	0.81	2.42	0.39	2.61	0.41	9.8	13.4	169.9	282	22.5	41.3	1.6
11-JAM-189	Soil		20.0	3.47	0.71	3.01	0.51	2.98	0.66	1.97	0.34	1.97	0.34	4.7	9.5	12.5	35	6.6	11.7	<0.1
11-JAM-198	Soil		37.2	6.45	1.28	5.26	0.83	4.36	0.93	2.66	0.43	2.60	0.44	2.8	17.2	20.2	49	10.8	9.2	0.2
11-JAM-142	Soil		31.3	5.30	1.01	4.14	0.69	3.87	0.79	2.45	0.38	2.47	0.38	3.4	6.7	153.5	144	17.2	12.5	1.0
11-JAM-153	Soil		107.5	15.03	3.14	12.68	1.93	9.67	1.83	4.72	0.70	4.22	0.60	29.8	53.4	305.9	1848	22.1	148.3	12.5
11-JAM-183	Soil		30.1	5.09	0.95	4.27	0.70	4.02	0.84	2.54	0.39	2.46	0.41	2.7	5.7	9.6	41	9.0	9.0	0.1
11-JAM-157	Soil		39.6	6.46	1.35	5.45	0.87	4.83	0.98	2.88	0.44	2.84	0.43	10.6	12.9	52.2	107	19.4	27.9	1.5
11-JAM-160	Soil		30.3	4.94	0.93	4.02	0.66	3.73	0.80	2.49	0.40	2.44	0.40	7.9	5.5	103.2	273	16.2	19.9	1.4
11-JAM-155	Soil		51.6	7.99	1.58	6.56	1.00	5.83	1.16	3.34	0.48	2.89	0.49	4.6	16.6	86.8	180	24.4	26.1	1.7
11-JAM-055	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-JAM-154	Soil		67.7	9.93	1.91	7.81	1.22	6.28	1.34	3.78	0.56	3.61	0.55	13.8	29.4	529.4	1532	22.6	39.1	16.1
11-JAM-050	Soil		24.4	4.17	0.87	3.74	0.61	3.45	0.74	2.25	0.34	1.98	0.33	19.2	20.1	15.0	371	59.1	20.6	0.6
11-JAM-172	Soil		27.6	4.31	0.78	3.40	0.54	3.24	0.69	2.05	0.33	2.15	0.35	9.9	10.1	19.3	54	10.4	14.9	0.2
11-JAM-048	Soil		25.8	4.28	0.86	3.23	0.52	2.98	0.61	1.72	0.27	1.74	0.30	25.9	23.9	16.7	279	45.5	26.5	0.7
11-JAM-188	Soil		21.1	3.59	0.77	3.29	0.58	3.53	0.79	2.36	0.35	2.40	0.38	5.4	10.1	10.7	53	11.1	11.9	0.2
11-JAM-176	Soil		21.2	3.38	0.71	2.79	0.50	2.99	0.62	1.86	0.30	2.01	0.33	6.0	9.9	15.7	31	5.8	15.5	<0.1
11-JAM-038	Soil		32.2	5.09	0.93	4.08	0.64	3.64	0.75	2.12	0.35	2.24	0.36	15.6	17.9	19.3	133	25.5	21.3	0.8
11-JAM-193	Soil		33.7	6.08	1.21	5.06	0.81	4.69	0.90	2.74	0.43	2.57	0.42	4.1	17.3	23.6	41	9.1	17.4	0.2
11-JAM-173	Soil		29.1	4.73	0.96	3.95	0.67	4.01	0.82	2.47	0.39	2.51	0.39	11.7	18.0	23.8	55	13.3	14.7	0.2
11-JAM-152	Soil		31.4	4.78	0.97	4.03	0.66	4.03	0.83	2.55	0.41	2.60	0.43	44.9	10.9	148.3	398	33.3	46.9	2.1
11-JAM-053	Soil		29.0	4.51	0.82	3.38	0.54	3.03	0.65	1.88	0.29	1.94	0.31	24.4	19.9	15.5	325	63.6	31.6	0.8
11-JAM-091	Soil		41.7	7.18	1.56	6.49	1.11	6.39	1.28	3.67	0.56	3.58	0.56	3.7	19.1	319.5	216	32.3	53.3	1.3



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-191	Soil	0.1	0.8	0.03	0.1	<0.5
11-JAM-175	Soil	1.0	<0.5	0.03	0.2	0.5
11-JAM-180	Soil	0.3	<0.5	0.05	0.2	1.3
11-JAM-190	Soil	0.3	<0.5	0.02	0.1	0.6
11-JAM-181	Soil	0.2	<0.5	0.02	0.1	<0.5
11-JAM-167	Soil	0.4	0.7	0.02	0.3	<0.5
11-JAM-174	Soil	0.3	2.4	0.02	0.2	1.3
11-JAM-177	Soil	0.5	0.8	0.04	<0.1	0.8
11-JAM-144	Soil	0.5	<0.5	0.05	0.6	1.0
11-JAM-189	Soil	0.2	<0.5	0.02	0.1	1.2
11-JAM-198	Soil	0.4	<0.5	0.03	0.1	0.7
11-JAM-142	Soil	0.8	<0.5	0.05	0.3	<0.5
11-JAM-153	Soil	8.3	5.7	0.06	0.6	0.9
11-JAM-183	Soil	0.3	<0.5	0.02	0.1	<0.5
11-JAM-157	Soil	0.6	<0.5	0.02	0.4	<0.5
11-JAM-160	Soil	0.3	<0.5	<0.01	0.3	<0.5
11-JAM-155	Soil	0.8	<0.5	0.03	0.3	<0.5
11-JAM-055	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-JAM-154	Soil	2.9	0.6	0.03	0.5	<0.5
11-JAM-050	Soil	1.1	<0.5	0.09	1.1	4.7
11-JAM-172	Soil	0.3	<0.5	0.02	0.4	2.1
11-JAM-048	Soil	0.8	0.6	0.11	0.7	5.3
11-JAM-188	Soil	0.5	<0.5	0.02	0.2	1.9
11-JAM-176	Soil	0.3	<0.5	0.03	0.2	1.4
11-JAM-038	Soil	0.1	0.9	0.10	0.7	2.1
11-JAM-193	Soil	0.3	0.9	0.06	0.1	1.0
11-JAM-173	Soil	0.5	0.9	0.05	0.3	3.8
11-JAM-152	Soil	1.2	0.8	0.02	0.8	0.7
11-JAM-053	Soil	0.3	0.8	0.06	1.3	3.4
11-JAM-091	Soil	1.4	1.2	0.09	0.7	<0.5



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-JAM-052	Soil	2602	4	8.3	10.1	13.7	6.2	12.2	99.9	2	69.9	0.8	10.7	7.5	565	1.5	202.1	44.5	42.3
11-JAM-049	Soil	1915	2	6.9	4.6	12.9	7.7	16.2	96.0	2	136.3	1.1	12.1	3.7	222	1.5	268.7	24.8	42.4
11-JAM-035	Soil	1378	6	2.8	14.6	16.3	10.9	111.3	243.4	4	148.2	5.9	21.5	7.0	162	21.7	470.6	21.5	58.3
11-JAM-036	Soil	1178	5	9.8	14.0	13.7	9.0	54.3	137.2	3	100.3	2.7	16.6	4.7	181	23.0	356.4	19.9	55.2
11-JAM-161	Soil	882	3	7.6	10.3	14.4	8.3	32.8	103.0	3	128.5	1.9	15.3	3.4	113	5.8	337.6	24.0	49.0
11-JAM-056	Soil	894	<1	4.4	4.5	12.1	7.0	15.4	83.5	2	96.6	1.0	10.4	4.0	215	1.6	261.9	18.5	35.2
11-JAM-043	Soil	3286	1	2.8	5.2	11.8	5.8	31.9	90.1	2	75.0	1.7	10.1	6.6	318	3.3	249.7	21.9	41.4
11-JAM-164	Soil	693	<1	8.9	7.5	12.6	6.7	23.9	81.4	2	76.8	1.6	11.6	3.4	119	7.5	248.0	24.7	40.2
11-JAM-150	Soil	968	4	5.0	20.2	17.4	9.9	87.4	223.2	3	179.2	4.0	24.0	6.7	117	18.1	405.5	21.7	61.6
11-JAM-146	Soil	922	1	7.1	5.4	12.1	9.0	23.7	109.2	2	101.1	1.7	13.9	3.9	142	3.8	348.9	23.3	43.3
11-JAM-195	Soil	1193	1	2.7	3.1	12.0	10.9	28.5	59.3	2	101.9	1.4	10.1	3.5	166	1.7	420.6	23.3	31.8
11-JAM-165	Soil	749	2	11.6	10.7	11.9	7.4	30.7	105.3	3	68.4	1.7	14.2	3.4	131	11.2	291.5	22.2	38.0
11-JAM-045	Soil	924	1	5.5	3.0	11.0	9.1	18.7	63.2	2	81.9	1.3	9.7	4.1	189	2.0	323.4	20.9	32.0
11-JAM-039	Soil	2238	<1	4.1	5.2	12.8	6.4	35.6	95.5	2	83.7	2.0	12.6	6.6	334	3.4	271.5	22.9	41.7
11-JAM-168	Soil	296	3	7.6	13.9	11.3	6.1	24.2	77.6	1	11.9	1.3	11.7	3.6	73	10.2	233.4	16.6	20.4
11-JAM-143	Soil	1394	3	4.5	8.7	13.8	9.0	63.3	150.0	3	90.8	3.1	17.6	4.6	200	10.6	362.3	22.5	52.2
11-JAM-159	Soil	904	9	10.2	9.9	13.0	8.8	66.2	108.5	5	65.2	2.8	28.4	5.0	140	18.6	374.7	28.7	65.1
11-JAM-166	Soil	375	2	12.5	13.1	9.9	5.0	27.4	95.6	2	35.5	1.4	9.7	2.9	85	11.2	199.2	19.8	30.9
11-JAM-149	Soil	1035	8	8.0	12.7	14.4	9.5	67.6	175.3	4	104.8	3.4	23.0	4.4	163	57.5	398.5	22.5	52.6
11-JAM-040	Soil	3002	2	3.9	8.2	15.8	6.6	35.5	116.4	3	107.5	2.0	17.3	10.8	418	3.6	270.6	29.3	49.4
11-JAM-047	Soil	1177	2	5.2	4.3	13.2	7.7	23.6	88.3	2	93.0	1.4	10.1	4.3	230	2.1	297.0	19.8	36.2
11-JAM-147	Soil	1053	3	6.1	7.7	13.2	9.5	48.7	129.9	3	94.5	2.6	16.1	5.2	210	5.7	380.8	21.9	43.3
11-JAM-094	Soil	570	6	9.0	6.5	12.6	9.7	44.1	59.7	3	42.6	2.4	31.0	5.0	124	15.9	340.8	25.7	93.7
11-JAM-042	Soil	1859	2	5.2	5.3	12.9	7.5	26.7	96.5	3	104.3	1.6	12.1	4.6	252	2.8	289.8	24.2	42.2
11-JAM-158	Soil	716	8	8.7	5.5	12.7	7.3	54.2	72.9	4	57.2	2.6	26.2	5.1	106	9.2	310.4	26.9	65.6
11-JAM-044	Soil	1962	2	2.8	5.0	12.6	7.6	46.1	140.3	2	79.1	2.7	11.7	6.0	281	3.5	322.1	20.3	40.1
11-JAM-162	Soil	1076	9	10.3	12.2	15.3	11.2	113.6	163.5	5	70.9	5.5	33.0	7.9	141	29.6	469.9	22.1	65.8
11-JAM-163	Soil	577	2	10.8	7.6	11.3	5.9	27.8	68.0	3	67.3	1.6	13.8	3.4	111	13.6	212.2	27.1	43.7
11-JAM-037	Soil	999	3	3.8	7.3	12.6	11.2	53.7	129.4	3	111.0	2.7	15.0	3.9	137	46.8	447.4	28.3	74.0
11-JAM-046	Soil	1902	2	2.7	5.4	13.0	6.2	23.4	81.1	2	88.0	1.3	10.1	8.3	351	2.5	231.2	22.4	36.8



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
11-JAM-052	Soil	37.6	7.17	1.54	6.79	1.06	5.93	1.23	3.78	0.58	3.29	0.55	31.7	36.4	20.7	377	94.7	31.6	0.9
11-JAM-049	Soil	31.2	5.72	1.12	4.66	0.73	4.19	0.82	2.38	0.36	2.41	0.36	4.5	9.9	13.0	178	28.7	10.6	1.0
11-JAM-035	Soil	30.4	4.40	0.88	3.26	0.58	3.28	0.73	2.08	0.36	2.41	0.40	9.1	8.1	77.6	122	11.4	29.1	0.8
11-JAM-036	Soil	29.5	4.72	0.85	3.56	0.58	3.14	0.66	1.98	0.31	2.01	0.32	7.9	13.5	172.5	624	33.3	43.2	4.0
11-JAM-161	Soil	33.3	5.41	1.03	4.31	0.69	3.76	0.77	2.47	0.40	2.42	0.38	2.5	5.8	55.4	181	15.6	15.5	0.9
11-JAM-056	Soil	27.0	4.34	0.82	3.63	0.56	3.21	0.61	1.95	0.31	1.92	0.30	16.5	9.4	11.4	104	19.6	14.7	0.3
11-JAM-043	Soil	26.3	4.12	0.73	3.17	0.54	3.30	0.69	1.98	0.31	1.98	0.32	21.4	22.2	19.9	134	28.1	23.5	0.5
11-JAM-164	Soil	28.3	5.43	1.07	4.61	0.77	4.33	0.82	2.33	0.37	2.31	0.37	2.2	10.8	117.3	126	20.2	29.6	0.5
11-JAM-150	Soil	28.8	4.47	0.88	3.44	0.62	3.33	0.73	2.24	0.36	2.38	0.37	19.1	8.0	164.8	298	10.2	18.7	2.7
11-JAM-146	Soil	30.3	5.25	1.01	4.08	0.66	3.99	0.79	2.32	0.38	2.35	0.39	4.0	9.1	40.7	141	20.9	18.3	0.9
11-JAM-195	Soil	23.0	3.86	0.78	3.26	0.58	3.48	0.78	2.26	0.37	2.47	0.38	6.5	10.6	14.6	54	11.2	12.2	<0.1
11-JAM-165	Soil	27.9	4.75	0.98	3.98	0.68	3.75	0.79	2.25	0.35	2.25	0.33	2.9	10.2	208.8	152	25.9	37.5	0.4
11-JAM-045	Soil	22.5	3.78	0.70	3.10	0.54	3.23	0.67	1.98	0.32	2.09	0.33	11.6	13.5	17.9	187	28.1	16.9	1.3
11-JAM-039	Soil	26.8	4.63	0.83	3.57	0.59	3.73	0.75	2.25	0.33	2.20	0.36	19.0	21.2	22.3	154	30.8	20.4	0.6
11-JAM-168	Soil	19.7	3.77	0.74	3.21	0.55	3.17	0.63	1.84	0.28	1.66	0.27	0.5	6.9	74.5	56	23.0	22.6	0.2
11-JAM-143	Soil	35.4	5.07	0.90	3.83	0.59	3.57	0.82	2.31	0.37	2.31	0.36	10.2	11.2	144.1	264	19.4	33.7	1.7
11-JAM-159	Soil	37.3	6.49	1.27	5.36	0.89	4.75	1.04	2.90	0.47	3.04	0.46	5.1	14.4	235.5	189	25.5	60.5	1.1
11-JAM-166	Soil	25.9	4.52	0.90	4.05	0.62	3.51	0.72	1.94	0.31	1.94	0.27	2.0	10.5	67.4	80	20.5	76.3	1.0
11-JAM-149	Soil	30.6	4.91	0.88	3.64	0.60	3.66	0.91	2.14	0.36	2.58	0.39	26.1	10.3	179.7	486	24.6	52.3	3.1
11-JAM-040	Soil	35.9	6.16	1.13	5.15	0.77	4.19	0.95	2.59	0.40	2.55	0.38	14.5	25.9	26.7	125	32.0	33.3	2.6
11-JAM-047	Soil	28.0	4.36	0.77	3.38	0.54	3.09	0.74	2.17	0.34	2.02	0.31	12.6	9.1	13.7	133	16.0	12.8	0.7
11-JAM-147	Soil	28.8	4.58	0.81	3.54	0.58	3.47	0.75	2.34	0.36	2.41	0.36	5.9	9.7	80.8	225	32.2	30.6	1.1
11-JAM-094	Soil	55.0	8.74	1.78	6.60	1.04	5.45	1.10	2.87	0.42	2.69	0.39	4.1	12.0	174.7	116	37.3	36.5	0.4
11-JAM-042	Soil	33.8	5.41	0.98	4.36	0.63	3.59	0.74	2.21	0.35	2.43	0.38	8.9	14.2	14.1	107	22.8	17.0	0.6
11-JAM-158	Soil	37.6	6.59	1.24	5.49	0.84	4.53	0.95	2.80	0.40	2.77	0.37	2.6	11.4	95.4	101	22.3	37.7	1.2
11-JAM-044	Soil	26.2	3.97	0.71	3.10	0.49	2.91	0.67	1.98	0.33	2.38	0.35	12.6	13.3	17.5	130	22.9	11.9	0.5
11-JAM-162	Soil	31.4	4.80	0.83	3.70	0.58	3.82	0.75	2.22	0.36	2.69	0.38	7.1	12.6	254.0	367	28.4	60.4	2.0
11-JAM-163	Soil	35.0	5.98	1.23	5.15	0.81	4.26	0.90	2.68	0.41	2.70	0.41	2.4	13.1	51.3	116	22.8	45.5	1.3
11-JAM-037	Soil	38.6	5.57	1.01	4.38	0.70	4.06	0.97	2.51	0.40	2.48	0.41	5.0	9.5	82.7	142	13.7	23.5	1.3
11-JAM-046	Soil	27.4	4.63	0.82	3.83	0.58	3.49	0.73	2.17	0.35	2.07	0.31	26.8	23.3	20.6	126	23.1	18.6	0.3



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Project: TING PROP B

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-052	Soil	3.1	2.5	0.37	1.9	5.1
11-JAM-049	Soil	1.1	1.1	0.02	0.3	1.6
11-JAM-035	Soil	0.2	1.3	0.06	0.5	<0.5
11-JAM-036	Soil	0.5	1.0	0.02	0.7	0.7
11-JAM-161	Soil	0.5	0.7	0.02	0.3	<0.5
11-JAM-056	Soil	0.3	0.8	0.06	1.3	1.0
11-JAM-043	Soil	0.2	1.2	0.11	0.7	4.3
11-JAM-164	Soil	0.5	1.1	0.03	0.4	<0.5
11-JAM-150	Soil	2.7	<0.5	0.03	0.4	<0.5
11-JAM-146	Soil	0.7	0.6	0.03	0.3	<0.5
11-JAM-195	Soil	0.6	0.6	0.04	0.2	1.4
11-JAM-165	Soil	0.2	1.1	0.02	0.6	<0.5
11-JAM-045	Soil	<0.1	<0.5	0.07	0.5	1.8
11-JAM-039	Soil	0.3	0.7	0.09	0.6	3.9
11-JAM-168	Soil	2.0	<0.5	0.04	0.8	<0.5
11-JAM-143	Soil	0.6	<0.5	0.03	0.7	1.6
11-JAM-159	Soil	0.5	1.7	0.04	0.6	0.7
11-JAM-166	Soil	0.3	<0.5	0.02	0.9	<0.5
11-JAM-149	Soil	1.5	<0.5	0.02	0.6	0.7
11-JAM-040	Soil	0.5	0.9	0.33	1.1	3.4
11-JAM-047	Soil	0.1	<0.5	0.02	0.2	1.8
11-JAM-147	Soil	0.6	<0.5	0.02	0.4	0.6
11-JAM-094	Soil	1.1	1.0	0.06	0.6	0.5
11-JAM-042	Soil	0.2	<0.5	0.07	0.4	1.6
11-JAM-158	Soil	0.6	0.9	0.05	0.3	0.6
11-JAM-044	Soil	0.1	<0.5	0.03	0.5	1.9
11-JAM-162	Soil	0.3	1.4	0.03	0.8	<0.5
11-JAM-163	Soil	0.9	1.5	0.04	0.3	0.5
11-JAM-037	Soil	0.2	0.7	0.01	0.3	0.6
11-JAM-046	Soil	0.2	1.6	0.07	0.6	6.4



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.02
11-WJH-040	Soil	1121	2	4.5	4.3	12.8	7.3	19.9	74.7	2	116.4	1.4	9.1	7.4	324	1.7	263.6	21.9	36.6	64.7
11-WJH-037	Soil	4298	4	6.2	6.8	11.2	3.8	12.1	88.8	2	104.1	0.6	8.8	5.8	604	2.0	160.9	26.2	35.5	57.5
11-WJH-027	Soil	4015	3	5.9	5.9	12.5	6.7	39.7	98.0	2	82.6	2.0	15.1	8.1	389	3.6	268.1	29.7	42.9	71.5
11-WJH-039	Soil	1911	2	8.1	6.4	12.1	7.0	15.9	83.3	2	74.5	0.9	10.2	5.6	348	2.8	248.5	28.4	39.1	71.1
11-WJH-028	Soil	2794	2	5.8	5.2	12.4	7.4	37.4	92.4	2	94.4	2.0	13.5	6.9	343	3.8	301.6	30.1	49.8	85.2
11-WJH-036	Soil	4424	3	2.6	4.1	11.9	6.5	16.1	84.0	1	77.0	1.1	9.1	3.0	193	1.6	256.6	19.4	32.9	61.2
11-WJH-026	Soil	2955	1	2.1	5.6	12.2	6.7	47.3	109.5	2	74.5	2.3	12.3	7.0	367	4.6	268.8	25.5	42.4	68.5
11-WJH-038	Soil	3212	2	6.4	6.8	11.6	4.6	17.2	87.0	1	78.4	1.0	10.2	7.1	724	1.5	193.5	25.9	37.5	61.5
11-MGB-189	Soil	1099	2	4.2	2.2	7.0	4.8	14.2	49.0	1	140.3	0.8	5.3	5.1	427	0.7	173.1	21.0	34.2	52.8
11-MGB-200	Soil	388	<1	12.6	4.7	18.8	8.5	14.5	56.9	3	148.9	1.1	12.6	3.5	192	1.4	310.9	32.3	37.8	68.8
11-MGB-197	Soil	203	<1	5.1	2.1	6.6	14.3	6.9	32.2	1	62.5	0.5	6.3	2.2	72	0.7	535.1	17.6	18.9	32.9
11-MGB-183	Soil	1187	<1	4.3	1.7	5.6	7.9	14.6	39.7	1	80.1	0.9	5.5	3.0	168	0.7	297.2	18.3	22.3	40.5
11-MGB-196	Soil	175	<1	3.8	1.8	5.3	18.2	5.5	27.6	1	59.3	0.3	5.7	2.4	60	0.7	740.6	17.1	16.8	30.6
11-MGB-186	Soil	1779	2	5.0	3.1	5.2	5.6	12.5	36.6	<1	75.9	1.0	5.9	2.5	133	1.1	206.6	14.9	41.7	83.1
11-AAB-0162	Soil	487	<1	1.8	1.1	3.6	10.6	4.7	16.3	<1	38.7	0.2	3.5	1.4	56	<0.5	457.1	12.9	15.7	29.9
11-AAB-0171	Soil	3218	2	9.2	4.2	11.0	7.8	12.9	64.3	4	97.7	1.0	8.9	7.2	354	0.9	286.7	31.6	35.5	62.9
11-AAB-0215	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-AAB-0243	Soil	1396	<1	1.0	3.3	13.3	10.7	70.8	95.2	3	130.6	2.8	11.5	4.2	187	1.6	430.1	23.0	33.0	58.4
11-AAB-0245	Soil	1390	2	3.2	5.0	14.4	8.0	24.8	85.9	2	107.6	1.7	10.5	3.4	176	1.8	315.0	19.2	36.6	69.6
11-AAB-0249	Soil	5017	2	2.5	6.7	17.2	4.9	21.6	100.0	2	172.4	1.3	10.0	5.2	245	1.0	182.5	17.3	31.3	55.7
11-AAB-0190	Soil	4834	2	7.7	6.2	13.4	6.0	14.6	103.0	2	67.5	1.0	10.8	7.8	335	0.9	205.0	24.3	29.8	58.2
11-AAB-0252	Soil	4109	3	27.5	5.0	13.9	6.1	26.4	74.7	2	89.2	1.2	12.7	4.2	171	1.4	304.9	24.1	36.5	68.4
11-AAB-0180	Soil	650	4	2.1	3.9	11.7	10.7	9.0	42.4	1	91.7	0.6	7.9	2.7	114	1.3	380.3	18.8	23.2	44.4
11-AAB-0250	Soil	8961	3	3.5	7.0	17.2	5.6	35.8	113.2	2	109.7	1.7	13.6	5.2	300	1.3	223.5	21.8	41.8	69.5
11-AAB-0248	Soil	6400	2	1.8	4.8	16.1	5.7	23.9	78.6	2	107.4	1.3	11.2	4.6	280	1.7	220.9	31.6	43.2	75.1
11-JAM-065	Soil	983	3	5.6	12.2	18.9	9.5	91.9	140.0	3	136.0	4.4	22.7	12.2	149	12.2	418.3	25.3	68.2	106.0
11-JAM-073	Soil	698	2	13.4	11.2	17.6	9.3	55.0	97.7	2	58.9	3.0	19.7	4.4	141	11.8	373.2	23.3	47.9	86.6
11-JAM-101	Soil	1099	2	5.4	12.9	20.8	10.7	103.7	170.3	3	250.5	5.3	24.4	7.1	135	21.3	480.0	25.1	75.4	126.2
11-MGB-193	Soil	430	2	9.6	3.6	12.5	6.9	11.6	59.0	1	99.8	0.8	7.9	3.1	112	0.7	254.4	23.6	28.6	53.1
11-MGB-227	Soil	298	<1	4.2	1.8	5.7	10.4	9.5	37.9	<1	39.8	0.5	6.0	1.8	41	<0.5	449.9	18.5	18.7	38.3



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	Method Analyte	Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
			Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
11-WJH-040	Soil		28.7	4.84	0.94	4.33	0.65	3.22	0.79	2.23	0.34	1.98	0.31	13.9	32.0	17.0	129	27.4	18.0	0.5
11-WJH-037	Soil		29.1	4.45	0.84	3.98	0.58	3.20	0.82	2.24	0.33	2.02	0.32	20.0	30.4	16.8	379	60.9	27.2	0.5
11-WJH-027	Soil		31.1	5.01	0.94	4.40	0.71	4.33	0.97	2.73	0.41	2.66	0.38	21.9	36.7	27.0	241	48.9	32.5	2.1
11-WJH-039	Soil		34.7	5.66	1.07	4.66	0.76	4.28	0.92	2.59	0.39	2.47	0.39	14.4	19.1	15.6	332	62.0	20.6	0.8
11-WJH-028	Soil		38.0	6.27	1.12	5.07	0.75	4.41	0.93	2.66	0.44	2.60	0.42	16.1	27.7	23.2	211	44.3	29.3	2.3
11-WJH-036	Soil		26.5	4.16	0.69	3.16	0.52	3.25	0.72	1.92	0.32	2.07	0.34	2.9	8.2	12.2	45	11.1	7.6	0.1
11-WJH-026	Soil		27.1	4.32	0.72	3.34	0.56	3.32	0.75	2.09	0.35	2.28	0.36	19.8	20.4	22.9	130	26.7	26.9	0.9
11-WJH-038	Soil		27.1	4.73	0.84	4.13	0.64	3.87	0.75	2.34	0.32	2.19	0.31	24.0	23.4	15.2	490	89.5	24.0	1.6
11-MGB-189	Soil		26.7	3.86	0.79	2.96	0.47	2.63	0.53	1.67	0.25	1.54	0.25	29.0	31.1	8.8	309	83.4	17.9	3.8
11-MGB-200	Soil		33.9	5.90	1.32	5.48	0.87	5.24	1.07	3.23	0.49	2.85	0.47	1.3	16.3	22.8	108	36.6	20.1	0.5
11-MGB-197	Soil		18.7	2.92	0.56	2.66	0.42	2.43	0.57	1.76	0.30	1.95	0.29	0.6	6.5	9.2	49	15.7	7.6	0.3
11-MGB-183	Soil		19.6	3.23	0.62	2.91	0.46	2.64	0.58	1.51	0.26	1.50	0.24	3.4	11.5	21.9	317	38.3	9.6	2.8
11-MGB-196	Soil		13.7	2.70	0.54	2.51	0.44	2.57	0.64	1.87	0.31	1.98	0.35	0.5	5.6	7.9	44	13.3	5.9	0.4
11-MGB-186	Soil		30.8	4.38	0.70	3.30	0.45	2.53	0.50	1.38	0.23	1.36	0.20	3.3	9.1	62.4	166	20.0	37.5	1.6
11-AAB-0162	Soil		13.7	2.19	0.40	1.75	0.31	1.97	0.42	1.28	0.21	1.28	0.22	1.3	3.8	4.5	14	4.6	7.4	<0.1
11-AAB-0171	Soil		29.6	5.06	0.94	4.65	0.76	4.61	1.06	2.90	0.45	2.91	0.43	28.2	34.7	16.5	228	61.8	17.3	2.4
11-AAB-0215	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-AAB-0243	Soil		25.0	3.73	0.64	3.02	0.53	3.47	0.78	2.35	0.39	2.27	0.36	8.8	6.5	18.6	27	3.5	12.7	<0.1
11-AAB-0245	Soil		29.3	4.56	0.80	3.65	0.55	3.40	0.70	2.16	0.35	2.14	0.35	3.2	5.1	13.7	40	7.4	8.7	0.2
11-AAB-0249	Soil		21.8	3.83	0.51	3.09	0.48	2.86	0.56	1.65	0.28	1.65	0.26	4.3	21.6	13.2	35	11.4	5.5	0.8
11-AAB-0190	Soil		28.4	5.15	0.78	4.30	0.69	4.11	0.86	2.32	0.32	2.17	0.30	15.7	28.9	13.7	186	36.8	21.9	2.5
11-AAB-0252	Soil		29.0	5.04	0.86	4.41	0.67	4.02	0.85	2.76	0.37	2.54	0.39	5.0	14.1	17.2	274	52.3	15.6	0.8
11-AAB-0180	Soil		22.4	3.62	0.71	3.11	0.48	2.91	0.62	1.90	0.30	2.06	0.31	0.8	6.9	13.8	21	8.4	21.1	<0.1
11-AAB-0250	Soil		30.8	4.99	0.90	4.19	0.63	3.40	0.74	1.97	0.37	2.50	0.36	8.3	24.5	19.6	56	18.5	15.2	0.5
11-AAB-0248	Soil		38.9	5.77	1.09	4.34	0.75	4.71	0.98	3.01	0.43	2.97	0.45	13.0	15.9	18.6	59	13.5	20.6	0.3
11-JAM-065	Soil		37.9	5.94	1.04	4.39	0.71	4.02	0.81	2.30	0.39	2.74	0.39	8.2	8.1	114.6	200	14.1	17.3	3.0
11-JAM-073	Soil		32.7	5.92	1.08	4.60	0.74	4.31	0.88	2.31	0.39	2.35	0.31	1.5	7.1	171.0	168	25.7	31.3	1.9
11-JAM-101	Soil		40.5	6.30	1.21	4.61	0.70	4.12	0.81	2.27	0.40	2.58	0.41	9.3	7.8	88.4	140	20.4	30.9	0.3
11-MGB-193	Soil		26.2	4.60	0.89	3.91	0.65	3.50	0.78	2.19	0.35	2.26	0.36	0.7	9.5	12.2	85	19.2	9.5	0.5
11-MGB-227	Soil		16.1	3.05	0.68	2.93	0.44	2.44	0.55	1.58	0.26	1.66	0.27	0.3	3.8	6.3	27	5.2	12.3	0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-WJH-040	Soil	1.3	<0.5	0.12	0.6	2.1
11-WJH-037	Soil	2.1	0.6	0.11	0.8	6.7
11-WJH-027	Soil	0.4	1.4	0.25	0.8	4.6
11-WJH-039	Soil	0.3	<0.5	0.11	1.1	2.6
11-WJH-028	Soil	0.3	<0.5	0.25	0.7	2.7
11-WJH-036	Soil	0.6	<0.5	0.04	0.1	1.2
11-WJH-026	Soil	0.2	0.5	0.13	0.7	3.3
11-WJH-038	Soil	0.5	1.1	0.09	1.1	6.6
11-MGB-189	Soil	0.1	<0.5	0.07	1.0	3.3
11-MGB-200	Soil	0.3	<0.5	0.06	<0.1	2.3
11-MGB-197	Soil	0.1	<0.5	0.03	<0.1	0.9
11-MGB-183	Soil	0.1	<0.5	0.12	0.7	1.4
11-MGB-196	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-MGB-186	Soil	0.1	<0.5	0.14	0.3	0.9
11-AAB-0162	Soil	0.2	<0.5	0.04	<0.1	1.0
11-AAB-0171	Soil	0.5	<0.5	0.13	1.2	5.8
11-AAB-0215	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
11-AAB-0243	Soil	0.1	<0.5	0.01	0.2	1.4
11-AAB-0245	Soil	0.7	4.6	0.03	0.2	1.3
11-AAB-0249	Soil	1.0	4.3	0.10	0.2	1.4
11-AAB-0190	Soil	0.6	1.2	0.11	0.4	6.4
11-AAB-0252	Soil	0.7	3.8	0.10	0.2	2.7
11-AAB-0180	Soil	0.5	1.5	0.11	<0.1	1.9
11-AAB-0250	Soil	1.1	2.4	0.12	0.2	3.8
11-AAB-0248	Soil	0.5	3.1	0.08	0.2	3.9
11-JAM-065	Soil	0.7	2.9	0.02	0.3	0.8
11-JAM-073	Soil	0.3	<0.5	0.03	0.5	<0.5
11-JAM-101	Soil	0.2	4.1	0.06	0.3	0.6
11-MGB-193	Soil	0.1	3.1	0.06	<0.1	1.4
11-MGB-227	Soil	<0.1	3.2	0.07	0.4	0.5



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
			Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			MDL	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-MGB-236	Soil		259	2	5.3	4.2	7.7	5.6	19.9	52.4	<1	53.3	1.3	6.5	2.2	50	0.7	220.7	15.7	30.8



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1
11-MGB-236	Soil	23.9	4.04	0.86	3.22	0.48	2.51	0.56	1.49	0.23	1.58	0.22	0.3	8.3	29.2	65	6.1	5.7	0.8	0.7	<0.1

CERTIFICATE OF ANALYSIS

VAN11003014.1

Method		1DX	1DX	1DX	1DX	1DX
Analyte		Ag	Au	Hg	Tl	Se
Unit		ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.5	0.01	0.1	0.5
11-MGB-236	Soil	<0.1	4.4	0.03	0.1	0.8



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QUALITY CONTROL REPORT

VAN11003014.1

Method Analyte Unit MDL		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
Pulp Duplicates																				
11-AAB-0187	Soil	44	<1	1.8	0.6	1.5	0.2	0.8	3.9	<1	14.3	<0.1	0.5	0.1	12	<0.5	8.6	1.5	2.1	4.1
REP 11-AAB-0187	QC																			0.49
11-JAM-178	Soil	1274	2	4.5	6.4	18.2	10.9	34.6	118.5	3	125.1	2.1	12.1	4.0	193	2.2	395.0	27.6	45.8	85.3
REP 11-JAM-178	QC	1267	1	4.2	6.1	17.8	10.4	33.2	119.5	3	122.2	1.9	12.1	3.8	192	2.5	400.9	27.4	47.0	87.0
11-JAM-177	Soil	1006	<1	1.7	3.9	12.1	9.9	20.7	73.0	2	85.7	1.2	9.7	3.1	127	1.6	395.5	21.0	32.4	58.9
REP 11-JAM-177	QC																			7.10
11-JAM-152	Soil	1343	9	4.6	13.4	14.4	10.8	90.6	249.1	4	114.0	4.4	24.0	6.1	169	21.9	417.5	25.4	59.5	92.6
REP 11-JAM-152	QC	1371	7	5.0	13.6	15.4	9.9	109.6	252.7	4	112.0	5.4	22.2	8.0	173	22.8	428.4	25.9	63.1	97.6
11-JAM-046	Soil	1902	2	2.7	5.4	13.0	6.2	23.4	81.1	2	88.0	1.3	10.1	8.3	351	2.5	231.2	22.4	36.8	60.6
REP 11-JAM-046	QC	1907	<1	3.3	5.8	12.6	6.6	23.1	81.7	2	88.6	1.1	10.2	8.0	358	2.4	240.7	23.1	35.6	59.7
11-WJH-028	Soil	2794	2	5.8	5.2	12.4	7.4	37.4	92.4	2	94.4	2.0	13.5	6.9	343	3.8	301.6	30.1	49.8	85.2
REP 11-WJH-028	QC																			10.28
11-AAB-0250	Soil	8961	3	3.5	7.0	17.2	5.6	35.8	113.2	2	109.7	1.7	13.6	5.2	300	1.3	223.5	21.8	41.8	69.5
REP 11-AAB-0250	QC																			8.42
Reference Materials																				
STD DS8	Standard																			
STD DS8	Standard																			
STD DS8	Standard																			
STD DS8	Standard																			
STD OREAS45CA	Standard																			
STD OREAS45CA	Standard																			
STD OREAS45CA	Standard																			
STD OREAS45CA	Standard																			
STD SO-18	Standard	516	<1	27.2	6.9	18.3	9.7	21.1	28.3	15	413.7	7.6	10.7	16.5	212	14.4	290.9	32.4	12.6	27.4
STD SO-18	Standard	504	<1	26.3	6.8	17.1	8.8	21.0	27.3	15	412.5	7.1	10.7	16.4	203	14.6	284.9	31.9	12.4	26.6
STD SO-18	Standard	519	<1	28.1	7.0	17.7	9.6	19.9	28.9	14	404.5	7.4	10.2	16.4	207	13.6	288.2	30.3	11.8	26.9
STD SO-18	Standard	513	2	27.1	6.9	17.6	9.5	20.2	28.5	15	405.9	7.5	10.6	16.1	206	13.6	288.7	30.4	11.8	27.4
STD SO-18	Standard	556	2	30.3	7.4	19.2	10.5	22.5	30.8	16	447.8	7.8	10.7	16.7	223	15.9	320.3	35.4	13.7	28.6



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QUALITY CONTROL REPORT

VAN11003014.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
Pulp Duplicates																				
11-AAB-0187	Soil	1.8	0.31	0.07	0.29	0.04	0.24	0.04	0.08	0.02	0.13	0.02	0.7	1.1	1.6	55	4.1	11.1	<0.1	<0.1
REP 11-AAB-0187	QC												1.5	1.2	0.8	72	7.8	14.7	<0.1	<0.1
11-JAM-178	Soil	36.3	5.84	1.06	4.74	0.74	4.48	0.98	2.80	0.47	2.86	0.46	3.4	9.4	15.6	60	12.1	12.1	0.1	0.3
REP 11-JAM-178	QC	36.1	6.16	1.12	4.73	0.76	4.40	1.00	2.85	0.41	3.03	0.46								
11-JAM-177	Soil	25.1	3.94	0.74	3.15	0.53	3.19	0.68	2.03	0.32	2.16	0.34	2.5	8.4	9.8	25	5.1	5.8	0.1	0.3
REP 11-JAM-177	QC												2.6	8.4	9.9	25	5.2	5.7	0.1	0.3
11-JAM-152	Soil	31.4	4.78	0.97	4.03	0.66	4.03	0.83	2.55	0.41	2.60	0.43	44.9	10.9	148.3	398	33.3	46.9	2.1	3.3
REP 11-JAM-152	QC	33.5	4.99	0.99	4.12	0.70	3.88	0.83	2.54	0.40	2.72	0.44								
11-JAM-046	Soil	27.4	4.63	0.82	3.83	0.58	3.49	0.73	2.17	0.35	2.07	0.31	26.8	23.3	20.6	126	23.1	18.6	0.3	1.5
REP 11-JAM-046	QC	26.2	4.52	0.85	3.99	0.59	3.12	0.75	2.20	0.32	2.18	0.34								
11-WJH-028	Soil	38.0	6.27	1.12	5.07	0.75	4.41	0.93	2.66	0.44	2.60	0.42	16.1	27.7	23.2	211	44.3	29.3	2.3	1.6
REP 11-WJH-028	QC												15.4	27.6	24.7	211	45.1	30.0	2.2	1.6
11-AAB-0250	Soil	30.8	4.99	0.90	4.19	0.63	3.40	0.74	1.97	0.37	2.50	0.36	8.3	24.5	19.6	56	18.5	15.2	0.5	0.3
REP 11-AAB-0250	QC												8.5	24.4	19.9	55	17.0	15.2	0.6	0.3
Reference Materials																				
STD DS8	Standard												13.9	102.6	117.6	298	34.7	23.7	1.9	3.5
STD DS8	Standard												13.2	117.9	122.3	321	39.6	27.4	2.5	3.8
STD DS8	Standard												14.0	119.2	111.2	312	39.5	24.8	2.3	3.6
STD DS8	Standard												13.8	109.9	122.0	314	37.3	24.7	2.4	4.0
STD OREAS45CA	Standard												0.6	479.2	19.6	55	243.3	3.2	<0.1	<0.1
STD OREAS45CA	Standard												0.8	548.0	20.2	64	267.2	3.5	<0.1	<0.1
STD OREAS45CA	Standard												0.8	497.8	20.3	60	243.5	3.0	<0.1	<0.1
STD OREAS45CA	Standard												0.6	483.8	19.0	60	229.6	3.3	0.1	<0.1
STD SO-18	Standard	13.8	2.97	0.94	2.91	0.52	2.97	0.66	1.95	0.29	1.82	0.28								
STD SO-18	Standard	13.2	2.88	0.88	2.86	0.51	2.84	0.64	1.88	0.28	1.73	0.27								
STD SO-18	Standard	14.3	2.89	0.84	2.93	0.49	3.06	0.59	1.76	0.27	1.72	0.26								
STD SO-18	Standard	14.2	2.97	0.88	2.85	0.48	2.87	0.60	1.75	0.28	1.81	0.27								
STD SO-18	Standard	16.8	3.26	1.01	3.21	0.54	3.26	0.69	1.99	0.31	2.06	0.29								



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
Pulp Duplicates						
11-AAB-0187	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
REP 11-AAB-0187	QC	<0.1	<0.5	<0.01	<0.1	<0.5
11-JAM-178	Soil	0.3	<0.5	0.02	0.2	0.6
REP 11-JAM-178	QC					
11-JAM-177	Soil	0.5	0.8	0.04	<0.1	0.8
REP 11-JAM-177	QC	0.5	<0.5	0.04	<0.1	0.8
11-JAM-152	Soil	1.2	0.8	0.02	0.8	0.7
REP 11-JAM-152	QC					
11-JAM-046	Soil	0.2	1.6	0.07	0.6	6.4
REP 11-JAM-046	QC					
11-WJH-028	Soil	0.3	<0.5	0.25	0.7	2.7
REP 11-WJH-028	QC	0.3	<0.5	0.28	0.8	3.0
11-AAB-0250	Soil	1.1	2.4	0.12	0.2	3.8
REP 11-AAB-0250	QC	1.1	4.5	0.12	0.2	2.7
Reference Materials						
STD DS8	Standard	1.8	140.3	0.22	5.2	5.0
STD DS8	Standard	1.9	102.3	0.18	5.3	5.5
STD DS8	Standard	1.9	113.2	0.22	5.3	5.2
STD DS8	Standard	1.9	198.6	0.19	5.5	5.0
STD OREAS45CA	Standard	0.3	37.1	0.01	<0.1	<0.5
STD OREAS45CA	Standard	0.3	39.3	0.03	<0.1	0.7
STD OREAS45CA	Standard	0.3	39.0	0.03	<0.1	<0.5
STD OREAS45CA	Standard	0.3	39.1	0.03	<0.1	<0.5
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					



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QUALITY CONTROL REPORT

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		4B Ba ppm 1	4B Be ppm 1	4B Co ppm 0.2	4B Cs ppm 0.1	4B Ga ppm 0.5	4B Hf ppm 0.1	4B Nb ppm 0.1	4B Rb ppm 0.1	4B Sn ppm 1	4B Sr ppm 0.5	4B Ta ppm 0.1	4B Th ppm 0.2	4B U ppm 0.1	4B V ppm 8	4B W ppm 0.5	4B Zr ppm 0.1	4B Y ppm 0.1	4B La ppm 0.1	4B Ce ppm 0.1	4B Pr ppm 0.02
STD SO-18	Standard	552	<1	29.5	7.5	19.4	10.3	22.3	30.1	15	439.9	7.4	10.9	16.7	220	15.5	318.4	34.2	13.1	28.7	3.55
STD SO-18	Standard	528	<1	27.0	7.0	19.1	10.2	21.9	30.2	16	425.1	7.5	10.5	16.8	210	15.7	308.0	35.1	13.3	28.8	3.69
STD SO-18	Standard	525	<1	27.7	7.2	19.6	10.2	22.2	30.0	15	419.5	7.7	10.3	16.9	211	16.0	314.7	35.0	13.4	28.9	3.66
STD SO-18 Expected		514	1	26.2	7.1	17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1	3.45
STD DS8 Expected																					
STD OREAS45CA Expected																					
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank																				
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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Project: TING PROP B

Report Date: August 20, 2011

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QUALITY CONTROL REPORT

VAN11003014.1

		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1
STD SO-18	Standard	14.8	3.07	0.94	3.35	0.55	3.37	0.67	2.03	0.30	1.93	0.30									
STD SO-18	Standard	13.5	3.13	0.94	3.14	0.54	3.15	0.67	1.99	0.29	1.92	0.30									
STD SO-18	Standard	15.4	3.23	0.98	3.40	0.54	3.17	0.65	1.94	0.30	1.92	0.29									
STD SO-18 Expected		14	3	0.89	2.93	0.53	3	0.62	1.84	0.27	1.79	0.27									
STD DS8 Expected													13.44	110	123	312	38.1	26	2.38	4.8	6.67
STD OREAS45CA Expected													1	494	20	60	240	3.8	0.1	0.13	0.19
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1



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Project: TING PROP B

Report Date: August 20, 2011

Page: 2 of 2 **Part** 3

QUALITY CONTROL REPORT

VAN11003014.1

		1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18 Expected						
STD DS8 Expected		1.69	107	0.192	5.4	5.23
STD OREAS45CA Expected		0.275	43	0.03	0.07	0.5
BLK	Blank					
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5



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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: July 07, 2011

Report Date: August 24, 2011

Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN11003015.1

CLIENT JOB INFORMATION

Project: TING PROP B
Shipment ID: Greyhound51736995855
P.O. Number
Number of Samples: 43

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	43	Crush, split and pulverize 250 g rock to 200 mesh			VAN
4B02	43	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

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: Harsbo Minerals Ltd.
4758 Victory Street
Burnaby BC V5J 1S2
Canada

CC: Michael Burns
Lee A. Groat
Thomas Hasek
David Turner



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: TING PROP B
Report Date: August 24, 2011

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CERTIFICATE OF ANALYSIS

VAN11003015.1

	Method Analyte Unit MDL	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-AAB-0231	Rock	1.17	1395	7	4.5	4.2	20.8	10.9	201.8	219.5	3	717.8	13.4	46.6	8.7	17	1.3	544.4	25.0	144.2	253.1
11-AAB-0197	Rock	0.70	1438	27	1.6	11.7	47.8	49.6	536.9	448.4	9	196.0	12.4	193.1	37.8	<8	38.3	3277	46.6	191.6	240.8
11-AAB-0251	Rock	1.22	189	30	0.9	21.7	47.3	60.9	911.6	604.6	7	54.4	37.5	239.4	25.6	<8	3.5	3033	67.7	244.8	395.5
11-AAB-0164	Rock	2.06	219	<1	2.1	<0.1	1.7	7.0	4.2	0.8	<1	12.3	0.2	2.2	1.0	<8	<0.5	294.1	5.6	6.2	12.6
11-AAB-0194	Rock	1.99	1438	25	2.4	5.3	27.1	31.7	423.8	500.5	10	339.0	21.6	155.9	27.3	<8	4.5	1451	52.7	160.4	282.0
11-AAB-0242	Rock	2.22	77	31	0.7	23.7	45.9	58.6	933.7	666.0	7	23.6	38.5	241.3	25.6	<8	5.7	3027	79.3	246.4	393.5
11-AAB-0237	Rock	2.24	61	6	0.7	5.6	20.6	7.6	166.4	227.5	2	53.6	7.3	128.1	13.3	<8	3.4	411.2	21.6	262.6	406.5
11-AAB-0246	Rock	1.62	64	31	0.6	21.9	45.5	58.4	900.9	622.7	6	16.3	36.4	242.1	24.8	<8	6.7	2950	76.1	251.1	405.2
11-AAB-0161	Rock	1.97	6064	6	10.9	4.0	13.9	4.8	16.9	387.4	3	251.7	1.2	10.2	14.0	1115	4.5	182.0	50.2	71.2	127.8
11-AAB-0234	Rock	1.90	916	35	9.8	4.8	22.7	23.7	543.3	130.1	8	148.8	24.4	83.5	43.4	181	2.8	1036	42.9	132.9	225.3
11-AAB-0188	Rock	2.36	37	1	0.9	0.2	1.9	7.6	4.8	3.1	<1	26.5	0.4	2.0	1.0	<8	0.8	253.9	5.9	6.5	13.5
11-AAB-0236	Rock	1.82	15	6	0.9	5.1	22.9	5.5	169.0	297.6	1	14.9	8.0	90.1	13.1	<8	2.8	275.7	14.4	203.7	296.8
11-AAB-0238	Rock	2.56	643	6	1.8	2.3	22.6	8.6	128.7	250.0	2	289.4	8.6	50.5	6.0	<8	3.5	424.1	17.8	86.1	158.2
11-AAB-0247	Rock	1.34	304	<1	0.4	0.3	1.1	8.6	3.3	3.5	<1	19.1	0.3	2.4	0.6	<8	<0.5	328.9	5.1	6.2	12.3
11-AAB-0196	Rock	1.20	2426	17	2.7	14.2	21.7	13.0	228.3	429.2	6	697.0	12.6	76.5	10.1	17	9.0	657.2	36.1	179.5	310.6
11-MGB-208	Rock	0.57	2660	7	1.4	11.9	20.3	12.3	221.2	838.8	3	292.2	9.3	57.2	24.7	16	105.0	774.7	50.9	118.9	179.0
11-AAB-0235	Rock	1.32	1076	11	1.6	5.2	33.6	47.6	736.6	198.7	3	171.8	31.0	290.4	51.5	<8	5.4	2756	69.8	244.5	438.7
11-AAB-0199	Rock	1.13	491	11	5.9	2.6	10.4	7.4	38.0	294.3	4	32.3	2.1	10.4	1.9	43	3.2	308.4	31.0	23.4	77.5
11-AAB-0193	Rock	0.70	682	36	1.6	6.7	34.1	50.9	493.5	544.6	20	213.8	23.0	182.2	50.4	<8	3.9	2250	48.4	124.5	217.1
11-AAB-0232	Rock	1.21	609	7	0.6	2.7	29.5	21.6	593.4	200.6	2	107.1	25.7	181.0	86.2	<8	2.8	985.4	38.1	282.2	484.6
11-AAB-0240	Rock	1.70	115	<1	0.5	<0.1	0.9	6.6	5.0	0.8	<1	15.6	0.4	2.6	0.8	<8	<0.5	258.6	5.1	6.3	11.4
11-AAB-0244	Rock	1.61	313	2	8.3	1.6	4.8	3.6	6.6	13.6	<1	37.0	0.5	3.1	1.0	47	0.5	142.2	7.2	9.3	19.2
11-AAB-0241	Rock	1.17	114	<1	0.3	0.1	1.1	5.4	1.9	1.7	<1	13.9	<0.1	2.3	0.7	22	<0.5	218.0	6.2	5.7	11.2
11-AAB-0233	Rock	1.32	761	9	1.6	4.0	24.8	12.2	230.9	234.5	3	313.8	13.7	68.4	12.5	26	3.0	723.9	31.7	205.6	331.4
11-AAB-0195	Rock	0.82	1689	26	1.7	9.5	31.6	62.2	496.0	516.6	13	311.5	20.4	259.2	30.4	24	58.8	3063	72.7	301.3	408.0
11-AAB-0206	Rock	4.05	109	<1	0.2	0.2	1.2	11.6	5.2	1.9	<1	80.2	0.4	3.6	1.0	18	<0.5	440.4	6.5	9.8	19.0
11-AAB-0213	Rock	4.65	66	<1	0.2	0.4	0.6	0.3	1.9	3.4	5	9.7	0.1	0.7	6.1	24	1.0	7.3	7.4	2.7	3.2
11-AAB-0172	Rock	2.58	1524	<1	0.9	0.3	<0.5	0.3	0.8	5.4	<1	1134	<0.1	0.6	2.3	45	<0.5	9.8	6.1	5.8	7.2
11-MGB-172	Rock	2.42	1832	8	5.0	19.9	24.9	12.2	231.0	354.7	3	731.6	11.2	62.8	14.0	79	18.8	653.0	29.7	172.1	269.7
11-MGB-210	Rock	0.52	4500	2	0.2	6.3	21.4	19.2	296.0	980.3	2	233.4	12.2	89.4	20.1	68	31.0	1010	57.1	66.7	97.0



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CERTIFICATE OF ANALYSIS

VAN11003015.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-AAB-0231	Rock	23.99	70.4	9.49	2.11	6.39	0.94	4.98	0.94	2.56	0.38	2.66	0.38	3.6	2.8	16.7	77	7.0	1.3	0.3	0.2
11-AAB-0197	Rock	16.17	37.3	4.72	0.81	4.03	0.79	5.94	1.43	5.48	1.15	8.82	1.43	44.5	20.8	127.2	232	0.4	7.2	2.8	0.4
11-AAB-0251	Rock	29.97	71.4	9.99	0.99	8.19	1.48	9.22	2.01	6.71	1.16	8.50	1.38	6.7	6.9	92.1	282	12.7	11.3	8.0	0.7
11-AAB-0164	Rock	1.47	5.3	0.90	0.16	0.78	0.14	0.91	0.21	0.59	0.08	0.66	0.13	0.4	3.4	3.0	7	3.2	9.3	<0.1	0.1
11-AAB-0194	Rock	24.32	65.4	9.88	1.53	7.42	1.28	7.55	1.63	5.72	0.97	6.92	1.04	2.9	2.3	64.7	57	1.1	5.7	0.4	0.5
11-AAB-0242	Rock	30.04	73.6	10.17	0.99	8.44	1.62	10.71	2.51	8.90	1.53	11.52	1.77	2.3	1.1	79.0	244	0.3	7.9	0.4	0.2
11-AAB-0237	Rock	29.47	69.7	6.50	0.79	4.35	0.68	4.02	0.77	2.38	0.37	2.33	0.38	3.8	0.9	24.0	53	0.4	2.5	0.2	<0.1
11-AAB-0246	Rock	30.53	74.1	10.36	1.06	8.64	1.63	10.66	2.47	8.40	1.49	11.03	1.78	1.2	1.0	61.3	190	0.3	10.4	0.2	0.2
11-AAB-0161	Rock	14.50	50.7	8.76	1.85	8.39	1.23	6.88	1.43	4.06	0.55	3.31	0.49	6.5	1.2	18.4	72	86.9	43.0	2.3	1.3
11-AAB-0234	Rock	18.75	49.4	7.60	0.68	5.86	1.05	6.48	1.31	4.39	0.78	6.10	1.04	5.7	1.2	39.6	114	33.1	66.3	0.8	0.7
11-AAB-0188	Rock	1.48	5.6	1.14	0.18	0.95	0.15	0.96	0.21	0.64	0.10	0.69	0.13	0.2	2.9	1.0	5	7.8	1.5	<0.1	<0.1
11-AAB-0236	Rock	20.27	45.4	4.45	0.55	3.39	0.48	2.67	0.58	1.66	0.22	1.73	0.31	4.9	1.0	10.3	25	0.3	3.1	0.1	0.1
11-AAB-0238	Rock	15.16	48.9	7.61	1.26	5.12	0.68	3.19	0.62	1.83	0.28	1.78	0.27	1.7	1.9	15.8	32	1.9	2.6	<0.1	0.2
11-AAB-0247	Rock	1.36	5.0	0.85	0.13	0.82	0.13	0.74	0.19	0.55	0.09	0.72	0.12	2.1	1.6	0.9	1	0.8	0.6	<0.1	<0.1
11-AAB-0196	Rock	26.90	81.6	11.28	2.32	8.77	1.22	6.34	1.24	3.44	0.56	3.63	0.54	24.1	4.6	47.3	54	2.1	9.3	0.6	0.7
11-MGB-208	Rock	15.25	41.9	6.55	1.48	6.41	1.25	7.81	1.57	4.45	0.69	3.92	0.62	75.6	9.8	658.5	944	8.7	566.9	18.0	21.8
11-AAB-0235	Rock	33.42	85.0	11.39	0.72	8.98	1.55	10.37	2.42	7.99	1.41	10.50	1.70	9.1	13.6	49.4	48	2.0	6.5	0.6	0.7
11-AAB-0199	Rock	8.63	34.0	6.87	1.38	6.17	1.04	5.54	1.08	3.22	0.48	3.33	0.50	1.1	0.8	16.8	56	3.0	2.8	0.3	0.6
11-AAB-0193	Rock	16.73	46.2	6.90	0.96	5.77	0.98	6.18	1.49	5.29	1.01	7.53	1.22	1.2	1.8	76.0	105	1.0	3.8	0.2	0.9
11-AAB-0232	Rock	36.29	90.6	10.80	0.76	7.86	1.28	7.07	1.50	4.32	0.71	5.09	0.80	2.6	2.8	13.5	68	0.4	5.2	0.5	0.3
11-AAB-0240	Rock	1.36	4.8	1.08	0.16	0.87	0.14	0.88	0.16	0.53	0.07	0.59	0.13	0.3	3.5	1.3	10	2.4	1.1	<0.1	<0.1
11-AAB-0244	Rock	2.07	8.8	1.56	0.28	1.21	0.17	1.24	0.26	0.81	0.12	0.86	0.14	1.9	8.2	2.6	402	22.0	9.7	<0.1	0.3
11-AAB-0241	Rock	1.37	5.8	0.99	0.17	0.92	0.17	1.04	0.23	0.70	0.11	0.55	0.11	0.6	4.7	1.0	15	1.6	1.9	<0.1	<0.1
11-AAB-0233	Rock	31.03	86.0	10.90	1.88	6.70	1.08	5.66	1.11	3.29	0.53	3.48	0.57	1.9	1.7	16.3	73	1.3	2.1	0.4	0.2
11-AAB-0195	Rock	32.99	88.7	11.86	1.99	8.23	1.55	9.84	2.27	7.88	1.51	10.54	1.80	24.4	1.4	93.1	94	0.9	4.7	1.5	0.7
11-AAB-0206	Rock	2.31	8.3	1.39	0.24	1.23	0.18	1.13	0.21	0.78	0.13	0.85	0.16	0.8	2.7	4.7	26	1.5	2.7	<0.1	<0.1
11-AAB-0213	Rock	0.49	1.7	0.51	0.13	0.63	0.10	0.50	0.13	0.44	0.06	0.37	0.06	9.3	15.4	691.5	43	21.3	21.7	0.2	18.3
11-AAB-0172	Rock	1.09	4.0	0.79	0.36	0.70	0.12	0.62	0.13	0.40	0.05	0.28	0.05	1.5	1.3	<0.1	137	6.8	2.3	1.0	0.8
11-MGB-172	Rock	25.90	76.7	10.07	2.16	6.14	1.01	5.03	1.02	2.85	0.50	3.12	0.49	18.3	7.4	12.5	49	14.3	28.3	0.3	0.5
11-MGB-210	Rock	7.80	20.8	3.60	0.87	3.95	1.09	7.50	1.92	6.54	1.15	6.72	1.03	246.0	6.0	82.4	85	3.3	135.0	<0.1	9.2



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Project: TING PROP B

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CERTIFICATE OF ANALYSIS

VAN11003015.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX
		Bi	Ag	Au	Hg	Tl	Se
		ppm	ppm	ppb	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5
11-AAB-0231	Rock	0.1	<0.1	1.9	<0.01	0.3	<0.5
11-AAB-0197	Rock	1.8	0.6	1.8	<0.01	0.5	<0.5
11-AAB-0251	Rock	1.0	0.5	9.8	0.03	2.4	<0.5
11-AAB-0164	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0194	Rock	0.8	<0.1	1.8	<0.01	0.2	<0.5
11-AAB-0242	Rock	1.0	<0.1	0.9	<0.01	1.7	<0.5
11-AAB-0237	Rock	0.2	<0.1	<0.5	<0.01	0.3	<0.5
11-AAB-0246	Rock	0.8	<0.1	0.8	<0.01	1.1	<0.5
11-AAB-0161	Rock	0.4	<0.1	0.6	<0.01	0.1	<0.5
11-AAB-0234	Rock	4.5	0.2	2.7	<0.01	0.3	<0.5
11-AAB-0188	Rock	<0.1	<0.1	*	<0.01	<0.1	<0.5
11-AAB-0236	Rock	0.1	<0.1	<0.5	<0.01	0.3	<0.5
11-AAB-0238	Rock	0.1	<0.1	0.9	<0.01	0.1	<0.5
11-AAB-0247	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0196	Rock	0.4	0.1	1.0	<0.01	0.4	<0.5
11-MGB-208	Rock	18.3	4.5	5.3	<0.01	2.4	<0.5
11-AAB-0235	Rock	0.6	0.2	1.9	<0.01	0.3	1.7
11-AAB-0199	Rock	0.2	<0.1	<0.5	<0.01	0.1	<0.5
11-AAB-0193	Rock	1.4	<0.1	4.8	<0.01	0.2	<0.5
11-AAB-0232	Rock	0.1	<0.1	<0.5	<0.01	<0.1	0.7
11-AAB-0240	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0244	Rock	<0.1	<0.1	<0.5	0.03	<0.1	0.8
11-AAB-0241	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	0.6
11-AAB-0233	Rock	0.1	<0.1	2.8	<0.01	0.1	<0.5
11-AAB-0195	Rock	1.3	0.4	2.3	<0.01	0.6	<0.5
11-AAB-0206	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	0.5
11-AAB-0213	Rock	0.3	1.3	<0.5	0.58	1.3	1.8
11-AAB-0172	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	1.7
11-MGB-172	Rock	0.2	<0.1	<0.5	0.01	0.9	0.7
11-MGB-210	Rock	2.1	4.6	1.4	<0.01	0.3	0.8



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-MGB-176	Rock	1.71	13340	3	5.2	3.8	12.4	2.6	9.7	323.3	3	129.8	0.5	6.8	15.7	1769	2.1	96.4	22.3	23.9	43.8
11-MGB-209	Rock	0.91	1103	8	2.0	15.3	24.5	14.8	283.8	574.3	4	188.3	10.3	913.0	14.8	19	35.2	929.1	27.4	303.1	370.4
11-MGB-205	Rock	1.12	109	9	1.0	19.0	25.3	10.6	270.3	397.4	2	356.4	11.1	66.7	15.9	17	10.5	619.9	18.0	137.0	193.4
11-MGB-213	Rock	7.34	1412	43	7.7	54.4	20.6	13.4	435.2	1056	5	59.2	12.5	121.2	80.6	14	6.5	683.0	25.7	81.4	112.2
11-MGB-203	Rock	1.40	3059	9	2.1	13.4	18.4	9.4	140.8	786.0	2	90.5	6.0	44.1	10.7	368	23.2	520.0	17.5	48.2	69.1
11-MGB-178	Rock	2.52	96	24	0.8	4.9	42.8	77.2	1337	729.2	14	13.4	64.6	344.4	61.5	<8	27.2	3891	103.8	508.8	732.8
11-MGB-175	Rock	1.09	618	6	1.6	2.6	24.4	10.2	146.1	298.8	2	255.5	7.0	68.8	8.2	18	6.4	538.4	19.6	157.2	209.9
11-MGB-206	Rock	1.31	2141	4	<0.2	5.4	20.4	13.6	307.1	741.8	6	359.0	11.4	82.6	8.4	32	74.2	863.1	22.3	45.4	70.8
11-MGB-212	Rock	1.60	88	12	<0.2	10.4	37.4	15.9	601.3	406.1	3	77.3	16.9	133.0	112.6	<8	8.8	1049	18.5	154.3	177.5
11-MGB-204	Rock	0.84	150	22	0.5	16.9	42.4	41.4	358.0	591.6	5	95.8	9.0	88.9	26.3	<8	25.8	2559	38.4	234.9	249.3
11-MGB-207	Rock	0.27	491	100	3.9	161.9	108.5	96.8	1520	2105	8	82.3	15.5	>10000	1427	8	19.9	8021	61.5	414.7	576.9
11-MGB-181	Rock	0.55	2200	3	5.8	2.0	26.6	17.3	404.5	245.9	3	37.7	6.5	121.2	14.3	70	11.4	1086	12.3	64.9	75.9
11-MGB-152	Rock	1.17	10	1	<0.2	0.2	1.1	0.3	4.9	4.0	<1	65.4	<0.1	13.4	1.5	<8	<0.5	12.1	2.8	3.7	7.4



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CERTIFICATE OF ANALYSIS

VAN11003015.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-MGB-176	Rock	6.19	22.9	4.23	0.99	3.89	0.60	3.11	0.65	1.80	0.30	1.65	0.27	1.8	3.6	38.4	101	92.0	31.8	1.7	1.3
11-MGB-209	Rock	25.78	62.1	6.89	1.34	4.44	0.76	4.38	0.90	2.86	0.50	2.87	0.50	18.0	5.5	100.6	414	4.8	9.0	14.2	2.3
11-MGB-205	Rock	15.94	37.6	4.38	0.81	2.96	0.52	2.86	0.62	2.25	0.38	2.49	0.39	4.6	1.6	37.2	86	0.5	2.3	1.3	0.2
11-MGB-213	Rock	8.50	20.0	2.83	0.51	2.32	0.49	3.24	0.74	2.42	0.47	3.19	0.50	2.7	2.6	23.1	266	3.2	3.7	0.9	0.3
11-MGB-203	Rock	6.43	15.6	2.42	0.45	1.61	0.37	2.21	0.54	1.85	0.32	2.26	0.38	44.1	11.7	44.1	216	40.6	60.0	0.1	4.2
11-MGB-178	Rock	63.25	163.8	21.45	2.09	14.40	2.92	16.51	3.61	10.97	1.97	13.06	2.08	1.9	0.6	178.2	43	0.2	4.4	0.3	0.8
11-MGB-175	Rock	20.06	59.7	7.28	1.18	4.19	0.65	3.25	0.65	1.89	0.34	2.13	0.34	2.5	1.3	30.5	65	0.8	16.5	0.6	0.2
11-MGB-206	Rock	6.53	17.0	2.56	0.68	1.95	0.45	2.81	0.75	2.58	0.47	3.09	0.47	66.2	5.6	923.7	282	0.5	66.8	0.3	4.0
11-MGB-212	Rock	11.67	24.6	2.27	0.41	1.38	0.35	2.30	0.54	2.08	0.42	2.98	0.52	6.0	1.3	55.0	72	0.4	2.7	0.5	0.2
11-MGB-204	Rock	16.55	33.0	3.94	0.66	2.73	0.67	4.47	1.21	4.13	0.92	6.35	1.12	6.6	23.8	223.7	250	0.4	5.4	2.5	0.2
11-MGB-207	Rock	39.39	83.1	9.61	1.50	6.27	1.30	7.82	1.97	6.73	1.40	9.53	1.60	12.8	2.5	1114	2512	3.8	3.2	2.4	1.1
11-MGB-181	Rock	5.38	11.7	1.50	0.24	1.12	0.25	1.36	0.40	1.22	0.27	1.91	0.32	3.4	8.7	39.2	45	109.2	12.0	0.1	0.3
11-MGB-152	Rock	0.96	3.4	0.70	0.16	0.63	0.10	0.47	0.09	0.22	0.03	0.13	0.02	<0.1	0.3	3.7	5	1.3	1.2	<0.1	<0.1



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX
		Bi	Ag	Au	Hg	Tl	Se
		ppm	ppm	ppb	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5
11-MGB-176	Rock	0.3	0.1	1.8	0.01	<0.1	<0.5
11-MGB-209	Rock	0.4	0.5	1.8	<0.01	1.5	<0.5
11-MGB-205	Rock	0.7	0.2	<0.5	<0.01	0.7	<0.5
11-MGB-213	Rock	0.2	0.2	5.9	<0.01	1.9	<0.5
11-MGB-203	Rock	1.3	0.6	1.3	<0.01	0.5	1.6
11-MGB-178	Rock	1.1	0.6	0.9	<0.01	0.2	<0.5
11-MGB-175	Rock	0.2	0.1	1.6	<0.01	0.2	<0.5
11-MGB-206	Rock	5.6	4.6	3.5	<0.01	0.8	<0.5
11-MGB-212	Rock	3.0	0.2	4.7	<0.01	0.8	<0.5
11-MGB-204	Rock	2.2	0.7	3.7	<0.01	1.5	<0.5
11-MGB-207	Rock	32.1	3.4	5.3	<0.01	6.6	<0.5
11-MGB-181	Rock	0.7	<0.1	<0.5	<0.01	0.1	<0.5
11-MGB-152	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5



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QUALITY CONTROL REPORT

VAN11003015.1

	Method Analyte Unit MDL	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
Pulp Duplicates																					
REP G1	QC																				
11-AAB-0251	Rock	1.22	189	30	0.9	21.7	47.3	60.9	911.6	604.6	7	54.4	37.5	239.4	25.6	<8	3.5	3033	67.7	244.8	395.5
REP 11-AAB-0251	QC		198	29	1.1	20.9	48.7	57.3	949.1	604.7	9	55.0	37.0	238.0	25.6	<8	3.8	3066	67.7	246.9	399.7
11-MGB-212	Rock	1.60	88	12	<0.2	10.4	37.4	15.9	601.3	406.1	3	77.3	16.9	133.0	112.6	<8	8.8	1049	18.5	154.3	177.5
REP 11-MGB-212	QC		87	11	0.3	11.1	38.1	16.8	626.0	415.5	3	77.0	17.7	110.6	109.7	<8	9.4	1053	18.7	160.4	186.3
Core Reject Duplicates																					
11-AAB-0247	Rock	1.34	304	<1	0.4	0.3	1.1	8.6	3.3	3.5	<1	19.1	0.3	2.4	0.6	<8	<0.5	328.9	5.1	6.2	12.3
DUP 11-AAB-0247	QC		316	<1	0.8	0.2	1.5	8.6	2.9	3.3	<1	18.4	0.2	1.8	0.8	<8	<0.5	311.9	5.2	5.6	11.3
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD SO-18	Standard		520	2	26.5	7.0	17.4	9.6	20.2	27.6	15	413.5	7.3	10.4	16.2	183	13.6	286.9	29.5	11.9	27.4
STD SO-18	Standard		528	1	26.3	7.2	18.3	9.7	21.4	28.6	15	418.6	7.0	10.7	16.1	183	13.6	292.9	30.6	11.6	27.3
STD SO-18	Standard		552	2	25.8	7.5	18.3	10.4	21.4	29.0	15	421.8	7.8	10.6	16.2	195	15.4	303.4	31.2	13.2	27.9
STD SO-18	Standard		545	2	26.6	7.4	19.3	9.9	21.7	29.4	16	435.9	7.8	11.1	17.6	199	15.4	309.6	32.5	13.5	28.8
STD SO-18 Expected			514	1	26.2	7.1	17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1
STD DS8 Expected																					
STD OREAS45CA Expected																					
BLK	Blank		<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1
BLK	Blank		<1	<1	<0.2	<0.1	<0.5	<0.1	0.5	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	1006	3	5.7	5.4	18.9	4.1	27.7	134.4	2	788.5	1.9	11.8	4.6	35	<0.5	153.7	17.2	32.5	66.9
G1	Prep Blank	<0.01	1051	3	5.4	5.3	20.0	4.8	29.0	136.9	2	805.8	2.0	10.2	4.1	34	<0.5	158.7	17.3	35.1	69.0
G1	Prep Blank																				



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QUALITY CONTROL REPORT

VAN11003015.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
Pulp Duplicates																					
REP G1	QC													0.2	3.1	3.6	48	3.3	0.5	<0.1	<0.1
11-AAB-0251	Rock	29.97	71.4	9.99	0.99	8.19	1.48	9.22	2.01	6.71	1.16	8.50	1.38	6.7	6.9	92.1	282	12.7	11.3	8.0	0.7
REP 11-AAB-0251	QC	30.51	71.5	10.09	0.99	8.74	1.50	9.10	2.09	6.56	1.16	8.56	1.35								
11-MGB-212	Rock	11.67	24.6	2.27	0.41	1.38	0.35	2.30	0.54	2.08	0.42	2.98	0.52	6.0	1.3	55.0	72	0.4	2.7	0.5	0.2
REP 11-MGB-212	QC	12.10	23.6	2.60	0.44	1.55	0.39	2.43	0.58	2.10	0.43	3.07	0.55								
Core Reject Duplicates																					
11-AAB-0247	Rock	1.36	5.0	0.85	0.13	0.82	0.13	0.74	0.19	0.55	0.09	0.72	0.12	2.1	1.6	0.9	1	0.8	0.6	<0.1	<0.1
DUP 11-AAB-0247	QC	1.25	5.2	0.90	0.12	0.82	0.12	0.83	0.18	0.50	0.08	0.63	0.11	2.1	1.6	0.9	<1	0.9	0.6	<0.1	<0.1
Reference Materials																					
STD DS8	Standard													14.3	117.8	120.4	309	38.8	25.5	2.3	3.8
STD DS8	Standard													14.5	117.5	125.3	322	41.0	25.4	2.5	3.7
STD OREAS45CA	Standard													0.8	500.7	20.8	63	249.1	3.4	0.1	<0.1
STD OREAS45CA	Standard													0.7	502.5	19.8	59	231.4	3.2	0.1	<0.1
STD SO-18	Standard	3.24	13.7	2.87	0.86	2.81	0.49	2.87	0.60	1.81	0.26	1.75	0.27								
STD SO-18	Standard	3.26	13.5	2.82	0.87	2.84	0.48	2.88	0.59	1.84	0.24	1.74	0.27								
STD SO-18	Standard	3.59	13.9	3.11	0.93	3.08	0.54	3.25	0.65	1.87	0.29	1.82	0.29								
STD SO-18	Standard	3.69	14.4	3.13	0.96	3.12	0.55	3.26	0.68	1.92	0.29	1.94	0.30								
STD SO-18 Expected		3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.27	1.79	0.27								
STD DS8 Expected														13.44	110	123	312	38.1	26	2.38	4.8
STD OREAS45CA Expected														1	494	20	60	240	3.8	0.1	0.13
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
Prep Wash																					
G1	Prep Blank	7.33	26.5	4.53	1.18	3.48	0.54	2.96	0.52	1.66	0.27	1.80	0.30	0.2	3.4	4.1	49	3.1	0.7	<0.1	<0.1
G1	Prep Blank	7.58	26.6	4.40	1.16	3.56	0.53	2.98	0.60	1.79	0.28	1.90	0.32								
G1	Prep Blank													0.2	3.1	3.8	48	3.4	0.5	<0.1	<0.1



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Project: TING PROP B

Report Date: August 24, 2011

Page: 1 of 1 **Part** 3

QUALITY CONTROL REPORT

VAN11003015.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	Bi	Ag	Au	Hg	Tl	Se
		Unit	ppm	ppm	ppb	ppm	ppm	ppm
		MDL	0.1	0.1	0.5	0.01	0.1	0.5
Pulp Duplicates								
REP G1	QC		0.1	<0.1	0.7	<0.01	0.3	<0.5
11-AAB-0251	Rock		1.0	0.5	9.8	0.03	2.4	<0.5
REP 11-AAB-0251	QC							
11-MGB-212	Rock		3.0	0.2	4.7	<0.01	0.8	<0.5
REP 11-MGB-212	QC							
Core Reject Duplicates								
11-AAB-0247	Rock		<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
DUP 11-AAB-0247	QC		<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
Reference Materials								
STD DS8	Standard		6.3	1.7	100.8	0.19	5.0	5.4
STD DS8	Standard		6.4	1.8	101.9	0.21	5.5	5.0
STD OREAS45CA	Standard		0.2	0.3	33.0	0.03	<0.1	<0.5
STD OREAS45CA	Standard		0.2	0.3	37.8	0.03	<0.1	<0.5
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18	Standard							
STD SO-18 Expected								
STD DS8 Expected			6.67	1.69	107	0.192	5.4	5.23
STD OREAS45CA Expected			0.19	0.275	43	0.03	0.07	0.5
BLK	Blank							
BLK	Blank							
BLK	Blank		<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank		<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
Prep Wash								
G1	Prep Blank		0.1	<0.1	1.9	<0.01	0.3	<0.5
G1	Prep Blank							
G1	Prep Blank		0.1	<0.1	1.6	<0.01	0.3	<0.5



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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: July 18, 2011

Report Date: August 31, 2011

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CERTIFICATE OF ANALYSIS

VAN11003254.1

CLIENT JOB INFORMATION

Project: TING PROP C
Shipment ID: Greyhound51737223543
P.O. Number
Number of Samples: 225

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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: Harsbo Minerals Ltd.
4758 Victory Street
Burnaby BC V5J 1S2
Canada

CC: David Turner
Michael Burns
Lee A. Groat
Thomas Hasek

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	225	Dry at 60C			VAN
SS80	225	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	225	Saving all or part of Soil Reject			VAN
4B02	225	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	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: TING PROP C
Report Date: August 31, 2011

Page: 2 of 9 **Part** 1

CERTIFICATE OF ANALYSIS

VAN11003254.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-AAB-0257	Soil	497	2	8.5	3.1	11.1	12.8	10.3	42.5	2	105.3	0.6	8.5	2.8	109	1.1	502.6	24.7	26.8	49.3
11-AAB-0264	Soil	698	2	11.6	3.3	13.4	10.5	12.8	42.6	2	141.7	0.7	10.5	3.3	149	1.3	400.3	29.6	33.2	61.4
11-AAB-0266	Soil	548	1	22.6	3.3	12.7	19.2	11.7	45.5	2	130.4	0.8	10.3	3.5	121	1.2	739.1	27.7	31.4	59.0
11-AAB-0300	Soil	2052	3	2.4	5.7	12.8	8.0	61.1	112.4	2	110.0	3.1	14.9	7.0	344	5.2	319.6	25.5	50.1	77.5
11-AAB-0262	Soil	1149	1	11.4	3.3	12.1	19.5	12.1	53.0	2	102.4	0.7	10.6	4.2	161	1.0	800.6	27.5	29.9	55.0
11-AAB-0263	Soil	677	2	10.2	3.4	12.8	11.6	13.0	45.5	3	138.0	0.8	11.1	3.9	147	1.3	432.3	30.6	32.0	61.1
11-AAB-0272	Soil	578	2	12.6	4.9	13.5	6.2	12.0	76.3	2	81.4	0.8	10.4	2.7	133	1.5	227.1	21.8	29.8	55.4
11-AAB-0254	Soil	687	2	14.1	4.3	14.8	8.2	13.9	60.5	3	116.9	0.9	11.6	4.0	173	1.5	300.6	31.6	36.3	65.4
11-AAB-0261	Soil	791	2	9.9	3.7	11.4	6.6	9.5	53.8	2	97.8	0.6	9.0	4.6	155	1.1	261.8	24.8	25.9	48.3
11-AAB-0259	Soil	504	3	11.8	3.8	12.8	5.4	11.3	51.5	3	136.1	0.9	10.6	3.1	135	1.4	208.5	26.7	32.2	58.5
11-AAB-0281	Soil	573	3	13.9	7.4	18.6	5.4	15.3	100.0	2	107.4	1.2	12.3	3.3	157	1.4	187.6	27.1	36.4	70.2
11-AAB-0277	Soil	898	3	7.6	7.4	16.4	6.2	13.2	96.9	2	93.3	0.8	10.9	3.1	153	1.1	226.9	22.0	31.7	60.1
11-AAB-0258	Soil	466	3	12.4	5.1	18.1	9.1	13.2	68.4	3	167.9	0.9	12.2	3.4	149	1.4	343.6	30.5	36.4	68.5
11-AAB-0286	Soil	825	2	13.4	5.9	15.5	6.0	13.7	91.3	2	101.7	0.9	10.9	3.2	156	1.5	217.4	25.6	32.7	62.9
11-AAB-0287	Soil	1159	1	15.8	4.2	11.3	13.6	10.3	69.9	2	90.8	0.8	9.0	3.2	131	1.1	530.1	25.6	25.4	48.2
11-AAB-0296	Soil	4305	2	4.6	5.4	11.1	7.2	46.7	102.2	2	104.6	2.4	15.5	10.0	437	3.3	293.6	24.0	48.1	76.6
11-AAB-0275	Soil	531	2	21.4	4.4	12.1	6.5	9.1	69.9	2	73.1	0.6	8.6	2.8	125	1.1	246.1	24.1	25.1	50.0
11-AAB-0289	Soil	586	1	23.1	5.3	15.5	5.1	11.2	90.8	2	96.6	0.8	8.9	2.4	145	1.1	183.9	24.2	28.9	56.5
11-AAB-0278	Soil	313	1	21.0	2.4	7.7	7.5	6.9	38.8	1	69.8	0.4	6.2	2.3	77	0.7	293.8	19.4	18.9	37.7
11-AAB-0280	Soil	723	3	12.2	8.2	19.7	5.1	16.1	110.5	3	117.8	1.1	12.3	3.0	168	1.5	181.6	25.1	36.8	70.3
11-AAB-0271	Soil	951	2	9.0	4.2	9.9	12.1	12.6	71.1	2	84.5	1.0	8.0	3.0	137	1.2	470.6	24.7	26.1	51.3
11-AAB-0304	Soil	746	<1	0.7	2.2	8.7	10.7	12.7	40.3	2	58.1	1.0	7.4	2.7	125	1.4	389.1	19.3	27.6	50.1
11-AAB-0285	Soil	450	<1	6.7	3.1	7.6	9.8	7.5	46.6	1	56.1	0.5	5.5	2.1	83	0.6	388.1	16.5	18.3	34.6
11-AAB-0279	Soil	223	2	7.1	1.9	5.9	10.4	5.4	28.4	1	60.9	0.4	5.0	1.9	57	0.6	408.4	14.6	15.1	29.2
11-AAB-0274	Soil	313	<1	6.1	2.7	6.4	11.0	7.0	42.5	1	55.8	0.5	5.4	2.3	69	0.7	447.6	17.2	18.1	33.6
11-AAB-0267	Soil	695	3	22.2	4.5	16.2	7.5	11.9	59.3	2	136.3	0.7	10.8	3.1	153	1.4	269.0	29.4	35.7	69.6
11-AAB-0265	Soil	663	2	19.3	3.8	13.0	8.8	9.7	51.8	4	92.2	0.7	9.3	2.6	126	1.1	301.4	25.5	29.7	57.6
11-LAG-012	Soil	458	2	6.6	7.8	15.9	7.2	22.1	127.1	3	176.0	2.3	18.2	55.9	55	2.2	265.9	39.6	47.9	87.3
11-LAG-019	Soil	727	2	10.8	22.5	15.6	4.0	10.5	161.8	2	148.3	0.8	7.5	3.2	73	16.8	167.1	17.7	26.4	61.0
11-JAM-305	Soil	3828	4	5.9	5.7	12.1	5.4	50.8	107.8	2	121.4	2.9	20.0	10.3	381	4.9	265.1	28.5	50.7	80.0



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CERTIFICATE OF ANALYSIS

VAN11003254.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
11-AAB-0257	Soil	21.6	4.36	0.90	3.65	0.65	3.90	0.80	2.44	0.39	2.52	0.42	0.9	7.9	11.8	67	20.9	11.1	0.4
11-AAB-0264	Soil	29.0	5.08	1.05	4.49	0.80	4.58	0.95	2.99	0.47	3.01	0.47	1.4	11.2	15.9	102	30.0	18.1	0.4
11-AAB-0266	Soil	27.0	4.91	1.01	4.17	0.76	4.54	0.94	2.85	0.46	3.07	0.49	1.0	7.7	13.1	94	24.9	13.6	0.3
11-AAB-0300	Soil	28.5	4.64	0.93	3.47	0.61	3.71	0.76	2.33	0.38	2.52	0.37	16.1	14.1	25.2	141	28.1	24.0	0.7
11-AAB-0262	Soil	25.7	4.78	0.96	4.08	0.74	4.48	0.96	2.82	0.46	3.00	0.48	2.6	11.6	16.2	134	29.9	14.4	0.9
11-AAB-0263	Soil	27.3	5.19	1.08	4.56	0.77	4.69	0.95	3.06	0.47	3.01	0.47	1.7	12.0	16.9	93	28.9	16.2	0.5
11-AAB-0272	Soil	24.9	4.36	0.96	3.61	0.63	3.81	0.74	2.20	0.35	2.26	0.34	0.7	18.3	16.4	105	21.2	13.1	0.1
11-AAB-0254	Soil	31.4	5.75	1.25	4.85	0.83	4.89	1.07	3.11	0.49	2.98	0.47	2.4	19.3	25.9	127	37.0	21.0	1.0
11-AAB-0261	Soil	23.8	4.17	0.91	3.72	0.66	3.96	0.82	2.45	0.38	2.42	0.38	4.3	11.9	14.7	128	33.2	17.8	0.6
11-AAB-0259	Soil	26.7	5.03	1.09	4.17	0.73	4.22	0.83	2.55	0.39	2.53	0.39	1.7	13.1	16.6	108	33.8	15.8	0.5
11-AAB-0281	Soil	31.8	5.68	1.21	4.54	0.76	4.51	0.88	2.58	0.42	2.79	0.40	0.5	23.5	18.6	98	21.8	12.3	0.1
11-AAB-0277	Soil	24.3	4.36	0.96	3.47	0.62	3.53	0.76	2.26	0.36	2.33	0.35	1.2	23.0	19.9	79	15.3	15.4	0.1
11-AAB-0258	Soil	32.6	5.85	1.28	5.20	0.84	4.92	1.00	3.09	0.46	3.01	0.47	1.0	14.2	18.5	82	30.6	13.5	0.5
11-AAB-0286	Soil	27.5	5.18	1.15	4.26	0.75	4.45	0.93	2.71	0.40	2.69	0.42	0.8	21.2	16.2	94	22.7	13.1	<0.1
11-AAB-0287	Soil	22.7	4.32	0.99	4.02	0.70	4.04	0.90	2.72	0.41	2.70	0.45	0.7	19.5	13.4	104	32.1	13.6	0.2
11-AAB-0296	Soil	29.0	4.74	0.77	3.54	0.61	3.38	0.75	2.09	0.36	2.24	0.36	33.2	25.3	21.5	209	56.8	29.8	2.2
11-AAB-0275	Soil	25.0	4.75	1.05	4.11	0.69	3.85	0.79	2.27	0.34	2.16	0.36	0.8	17.9	14.3	101	29.9	15.1	0.2
11-AAB-0289	Soil	26.4	5.04	1.12	4.31	0.72	4.12	0.87	2.34	0.37	2.40	0.37	0.8	28.1	16.9	122	44.1	10.9	0.1
11-AAB-0278	Soil	17.7	3.41	0.81	3.46	0.57	3.24	0.71	1.98	0.29	1.84	0.29	1.0	11.6	12.1	107	41.8	13.6	0.4
11-AAB-0280	Soil	30.3	5.27	1.06	4.18	0.72	3.99	0.89	2.57	0.39	2.57	0.39	0.9	25.0	21.4	90	21.1	11.2	<0.1
11-AAB-0271	Soil	22.1	4.11	0.91	3.56	0.64	3.75	0.85	2.52	0.43	2.66	0.44	0.5	14.5	12.0	80	17.0	11.1	<0.1
11-AAB-0304	Soil	21.9	3.56	0.61	2.77	0.50	2.94	0.65	1.87	0.30	1.90	0.30	3.4	4.5	8.1	11	3.2	5.6	<0.1
11-AAB-0285	Soil	16.1	2.95	0.65	2.61	0.43	2.37	0.55	1.69	0.25	1.77	0.28	0.5	12.0	8.8	57	14.4	7.9	<0.1
11-AAB-0279	Soil	13.3	2.63	0.55	2.17	0.39	2.19	0.52	1.44	0.25	1.53	0.26	0.6	6.4	8.5	59	18.0	8.4	0.2
11-AAB-0274	Soil	15.6	3.06	0.68	2.83	0.48	2.76	0.59	1.74	0.27	1.88	0.29	0.6	9.9	9.3	52	14.6	8.1	0.1
11-AAB-0267	Soil	29.4	5.72	1.18	4.60	0.81	4.76	0.94	2.92	0.45	2.86	0.44	1.5	12.5	20.1	117	34.5	20.4	0.3
11-AAB-0265	Soil	26.4	5.10	1.04	4.31	0.72	4.01	0.87	2.62	0.38	2.42	0.39	1.1	9.1	15.3	94	25.1	17.2	0.3
11-LAG-012	Soil	38.5	7.08	1.17	5.87	1.02	6.01	1.27	3.73	0.61	3.82	0.62	1.2	7.3	21.0	87	10.3	4.3	0.4
11-LAG-019	Soil	19.2	3.51	0.86	2.91	0.49	2.70	0.54	1.57	0.25	1.49	0.24	43.5	35.6	402.1	454	14.2	21.5	2.3
11-JAM-305	Soil	29.3	4.72	0.88	4.11	0.65	3.69	0.86	2.37	0.37	2.37	0.37	16.3	25.6	33.0	465	89.3	26.2	8.8



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Project: TING PROP C
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CERTIFICATE OF ANALYSIS

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	Method	1DX	1DX	1DX	1DX	1DX
	Analyte	Ag	Au	Hg	Tl	Se
	Unit	ppm	ppb	ppm	ppm	ppm
	MDL	0.1	0.5	0.01	0.1	0.5
11-AAB-0257	Soil	0.1	2.9	0.03	<0.1	0.7
11-AAB-0264	Soil	0.2	<0.5	0.04	<0.1	1.3
11-AAB-0266	Soil	0.3	<0.5	0.05	<0.1	0.8
11-AAB-0300	Soil	0.8	0.7	0.06	0.7	2.5
11-AAB-0262	Soil	0.2	<0.5	0.04	0.1	1.7
11-AAB-0263	Soil	0.2	<0.5	0.08	0.1	1.9
11-AAB-0272	Soil	0.2	<0.5	0.05	<0.1	<0.5
11-AAB-0254	Soil	0.3	<0.5	0.09	0.1	2.0
11-AAB-0261	Soil	0.2	<0.5	0.05	0.1	1.7
11-AAB-0259	Soil	0.2	<0.5	0.04	<0.1	1.6
11-AAB-0281	Soil	0.1	<0.5	0.04	<0.1	1.1
11-AAB-0277	Soil	0.1	<0.5	0.05	<0.1	1.2
11-AAB-0258	Soil	0.2	<0.5	0.30	0.2	1.5
11-AAB-0286	Soil	0.1	<0.5	0.05	<0.1	<0.5
11-AAB-0287	Soil	0.1	<0.5	0.06	<0.1	0.6
11-AAB-0296	Soil	0.6	<0.5	0.20	1.4	3.2
11-AAB-0275	Soil	0.1	<0.5	0.04	<0.1	0.9
11-AAB-0289	Soil	0.1	<0.5	0.05	<0.1	0.6
11-AAB-0278	Soil	0.1	<0.5	0.04	<0.1	0.7
11-AAB-0280	Soil	0.1	<0.5	0.03	<0.1	0.6
11-AAB-0271	Soil	0.1	<0.5	0.05	<0.1	0.5
11-AAB-0304	Soil	0.1	<0.5	0.01	<0.1	<0.5
11-AAB-0285	Soil	<0.1	<0.5	0.02	<0.1	0.5
11-AAB-0279	Soil	<0.1	<0.5	0.02	<0.1	0.9
11-AAB-0274	Soil	0.1	<0.5	0.03	<0.1	<0.5
11-AAB-0267	Soil	0.2	<0.5	0.05	<0.1	1.3
11-AAB-0265	Soil	0.2	<0.5	0.06	<0.1	1.3
11-LAG-012	Soil	0.1	4.8	0.01	0.2	<0.5
11-LAG-019	Soil	0.4	0.8	0.01	0.6	<0.5
11-JAM-305	Soil	0.5	0.5	0.11	0.4	1.7



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-JAM-308	Soil	3337	3	3.8	4.1	8.3	4.3	39.6	84.4	1	94.4	2.0	13.9	10.4	288	4.6	216.8	23.7	43.8
11-JAM-316	Soil	2019	5	3.3	7.2	17.0	16.2	197.2	210.1	3	84.4	7.9	37.0	7.1	245	1.9	757.4	34.9	77.1
11-JAM-312	Soil	957	4	4.1	26.0	14.8	9.1	76.5	158.9	3	103.0	3.7	21.9	7.1	294	1.8	386.6	23.3	48.7
11-JAM-322	Soil	1238	3	2.3	4.5	11.7	7.6	41.6	82.8	2	71.3	2.0	11.1	8.5	320	1.8	291.0	21.6	36.5
11-JAM-302	Soil	4967	2	5.0	6.6	14.5	6.7	53.9	111.3	2	108.2	2.9	17.6	10.7	462	3.7	310.0	28.0	53.7
11-JAM-320	Soil	928	2	1.7	5.5	14.2	10.2	69.1	130.2	3	95.1	3.2	13.8	5.1	212	1.9	423.8	22.4	40.0
11-JAM-321	Soil	911	2	2.8	4.2	11.9	6.8	44.9	93.7	2	76.9	1.9	10.2	4.8	271	2.0	295.7	18.6	34.1
11-JAM-301	Soil	3467	4	3.8	7.1	14.1	6.2	83.0	137.9	2	130.5	4.1	24.1	7.2	387	6.6	303.7	29.2	68.0
11-JAM-319	Soil	1065	5	6.4	4.9	13.9	8.6	38.4	102.4	3	108.6	2.1	23.5	5.2	251	2.3	354.4	28.8	51.8
11-JAM-323	Soil	1170	4	1.9	3.4	9.2	4.5	19.7	67.0	2	65.0	1.1	8.4	9.5	374	1.7	181.5	20.5	30.9
11-JAM-313	Soil	1085	9	2.5	9.9	21.8	20.2	301.2	250.9	4	46.9	11.4	62.0	8.4	300	2.6	939.6	29.7	62.4
11-JAM-295	Soil	2098	8	6.2	11.1	16.2	5.4	55.0	156.7	3	181.9	2.4	37.7	16.0	534	8.4	258.7	53.8	174.3
11-JAM-306	Soil	3203	5	4.2	5.6	14.3	9.5	116.1	147.9	2	169.6	5.8	28.3	8.0	279	8.0	433.6	31.2	81.9
11-MGB-282	Soil	627	7	7.7	7.9	16.8	6.7	14.1	98.5	5	202.7	1.4	16.2	4.5	81	2.2	235.2	26.0	43.9
11-MGB-276	Soil	742	2	7.3	3.4	8.5	6.5	12.3	62.0	2	107.1	0.8	11.4	2.4	102	0.9	233.0	21.0	43.2
11-MGB-274	Soil	658	3	9.7	4.5	10.8	9.6	16.7	86.0	2	136.1	1.2	15.3	3.1	93	2.2	342.4	28.9	50.5
11-MGB-272	Soil	606	3	10.2	6.4	13.6	6.5	18.1	104.8	8	150.7	1.4	15.3	7.3	96	17.3	251.3	28.6	46.3
11-MGB-277	Soil	697	2	6.8	3.3	8.7	7.5	13.1	63.8	3	105.6	0.9	9.8	2.1	99	1.3	261.5	21.0	36.4
11-MGB-283	Soil	528	3	11.6	10.7	17.3	6.1	13.5	98.3	5	212.8	1.1	16.2	3.6	69	6.3	233.4	27.0	49.5
11-JAM-303	Soil	3144	5	5.7	8.2	16.6	6.1	74.8	128.3	4	126.4	3.7	24.0	7.7	359	6.1	273.8	28.4	65.4
11-JAM-310	Soil	978	5	3.5	8.4	14.2	10.4	95.8	150.1	3	86.8	4.1	19.5	6.0	278	1.9	420.6	20.2	42.3
11-JAM-279	Soil	1774	8	6.9	5.5	13.1	8.1	46.8	102.2	3	109.5	2.5	24.4	10.8	241	12.1	346.1	37.6	86.6
11-JAM-311	Soil	890	6	5.6	7.7	15.5	10.0	86.3	141.6	3	96.5	3.7	22.2	5.6	271	1.9	421.8	21.3	43.3
11-JAM-281	Soil	995	4	6.8	6.3	14.4	7.8	25.0	95.2	4	117.6	1.5	14.1	3.8	279	4.4	299.7	24.8	48.2
11-JAM-260	Soil	1052	10	5.7	21.6	23.1	14.0	179.7	215.1	5	212.3	7.7	26.3	6.8	182	8.0	758.7	29.2	82.3
11-JAM-287	Soil	1613	5	4.9	10.2	17.6	12.4	117.8	146.6	3	115.3	6.3	22.4	8.8	283	10.7	564.2	25.6	80.2
11-JAM-304	Soil	2697	3	3.9	6.7	15.4	7.6	84.3	137.4	3	151.8	4.8	22.0	6.6	284	6.7	346.6	25.8	63.5
11-JAM-284	Soil	2381	8	2.3	9.8	19.2	16.0	180.4	241.3	4	139.1	9.0	23.1	9.8	200	25.5	772.3	24.5	83.6
11-JAM-258	Soil	796	2	8.4	5.1	11.2	18.6	34.6	82.3	3	81.9	2.0	17.4	4.5	198	3.8	718.2	28.9	59.6
11-JAM-288	Soil	1256	7	4.6	8.7	18.7	10.3	73.9	113.9	3	139.7	3.7	32.0	7.5	144	10.9	394.8	25.4	81.5



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm 0.3	ppm 0.05	ppm 0.02	ppm 0.05	ppm 0.01	ppm 0.05	ppm 0.02	ppm 0.03	ppm 0.01	ppm 0.05	ppm 0.01	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.5	ppm 0.1	ppm 0.1
11-JAM-308	Soil	24.2	4.01	0.77	3.38	0.55	3.12	0.68	1.98	0.33	2.08	0.32	8.4	23.9	28.5	471	85.0	18.7	10.6	3.3
11-JAM-316	Soil	37.9	5.72	0.87	4.39	0.78	4.69	1.06	3.59	0.60	3.91	0.65	11.4	16.6	34.1	363	93.4	20.5	1.0	1.6
11-JAM-312	Soil	29.9	5.14	0.88	3.83	0.63	3.77	0.79	2.33	0.39	2.53	0.40	29.1	14.0	18.1	93	16.4	14.8	0.3	1.6
11-JAM-322	Soil	25.8	4.35	0.85	3.79	0.57	3.03	0.71	2.00	0.32	2.06	0.30	58.7	28.2	13.3	52	12.9	17.7	<0.1	2.2
11-JAM-302	Soil	33.3	5.32	0.98	4.18	0.71	3.89	0.88	2.57	0.40	2.67	0.39	32.8	26.4	25.2	253	63.7	32.0	2.9	2.0
11-JAM-320	Soil	29.6	4.75	0.85	3.61	0.62	3.32	0.75	2.11	0.37	2.38	0.39	15.4	4.1	11.4	27	5.2	6.8	0.2	0.9
11-JAM-321	Soil	27.1	4.27	0.84	3.46	0.52	3.08	0.65	1.88	0.30	1.90	0.31	42.1	10.2	13.0	41	7.8	12.1	0.1	2.1
11-JAM-301	Soil	39.9	5.83	1.16	4.68	0.72	4.36	0.88	2.63	0.41	2.78	0.41	19.3	19.2	36.2	219	48.8	28.5	2.1	2.2
11-JAM-319	Soil	37.7	6.18	1.08	4.82	0.82	4.59	0.98	2.88	0.45	3.06	0.46	10.6	16.1	16.6	104	23.6	12.8	0.4	1.0
11-JAM-323	Soil	23.8	4.13	0.88	3.87	0.56	3.45	0.60	1.93	0.26	1.52	0.27	83.7	31.9	11.7	42	8.2	21.6	0.2	3.6
11-JAM-313	Soil	27.7	4.76	0.68	3.59	0.67	4.27	0.88	2.85	0.52	3.71	0.59	27.8	14.3	45.7	172	26.0	16.9	0.4	1.9
11-JAM-295	Soil	84.0	12.56	1.98	9.67	1.48	8.32	1.59	4.62	0.70	4.57	0.65	10.0	25.5	27.2	495	49.1	51.9	13.4	2.0
11-JAM-306	Soil	43.7	6.35	1.29	5.10	0.80	4.94	0.97	3.02	0.48	3.16	0.49	15.5	20.5	29.8	208	46.7	25.4	1.5	3.3
11-MGB-282	Soil	37.8	6.25	1.28	5.27	0.82	4.57	0.92	2.50	0.38	2.71	0.38	0.5	11.2	12.8	82	14.8	3.3	0.4	0.2
11-MGB-276	Soil	40.0	6.36	1.13	4.58	0.68	3.64	0.70	1.94	0.31	2.05	0.31	0.6	9.7	14.2	95	17.4	15.8	0.8	0.9
11-MGB-274	Soil	39.3	6.85	1.17	5.90	0.90	4.97	0.96	2.95	0.47	3.01	0.45	0.9	11.8	24.2	112	19.1	32.7	0.9	0.9
11-MGB-272	Soil	37.9	7.00	1.35	5.87	0.94	5.08	1.05	2.87	0.48	3.06	0.45	1.0	17.0	41.3	114	18.9	26.8	0.8	0.9
11-MGB-277	Soil	31.9	5.42	1.01	4.08	0.63	3.46	0.69	1.98	0.31	1.99	0.31	0.7	8.0	14.3	91	15.3	11.6	0.5	0.7
11-MGB-283	Soil	36.1	6.57	1.33	5.44	0.91	4.91	1.02	2.91	0.43	2.84	0.42	0.3	13.9	7.0	60	21.0	1.9	0.3	<0.1
11-JAM-303	Soil	38.3	5.68	1.30	4.86	0.71	4.19	0.86	2.74	0.41	2.74	0.43	18.8	23.4	41.3	242	49.8	28.1	1.7	2.6
11-JAM-310	Soil	26.9	4.45	0.81	3.42	0.57	3.09	0.67	1.98	0.32	2.23	0.38	30.7	14.4	17.9	88	18.4	14.1	0.2	1.7
11-JAM-279	Soil	44.6	7.64	1.51	6.43	1.00	5.57	1.17	3.59	0.56	3.76	0.58	10.6	32.1	29.7	311	51.1	25.5	2.8	2.9
11-JAM-311	Soil	30.6	4.85	0.92	3.96	0.63	3.80	0.70	2.30	0.36	2.63	0.40	28.0	16.5	22.1	92	19.7	14.4	0.3	1.7
11-JAM-281	Soil	33.4	5.56	0.94	4.08	0.66	3.78	0.78	2.37	0.40	2.39	0.41	13.1	8.2	21.7	215	41.9	16.4	1.6	0.9
11-JAM-260	Soil	47.9	6.67	1.42	4.37	0.72	4.26	0.86	2.57	0.48	3.56	0.56	21.9	5.5	96.1	419	12.7	15.9	1.0	1.1
11-JAM-287	Soil	39.4	5.80	0.97	3.91	0.63	3.50	0.77	2.31	0.42	2.60	0.40	39.4	11.0	22.9	191	49.7	31.5	1.1	2.3
11-JAM-304	Soil	34.7	5.42	1.03	4.07	0.68	3.53	0.81	2.52	0.40	2.50	0.41	14.6	17.2	30.2	155	32.3	22.6	0.9	2.0
11-JAM-284	Soil	39.8	5.38	0.93	3.69	0.63	3.82	0.79	2.33	0.44	2.75	0.44	15.5	7.4	16.8	178	19.3	13.7	1.9	4.0
11-JAM-258	Soil	41.9	6.59	1.22	5.07	0.82	4.74	1.02	3.06	0.50	3.06	0.52	5.5	12.3	78.1	178	27.4	25.3	1.2	1.8
11-JAM-288	Soil	42.4	6.65	1.14	4.93	0.77	4.13	0.91	2.66	0.41	2.84	0.42	10.6	11.3	28.7	88	17.3	12.6	1.1	0.7



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-308	Soil	0.7	2.3	0.11	0.4	3.0
11-JAM-316	Soil	0.3	1.9	0.10	1.0	2.1
11-JAM-312	Soil	<0.1	<0.5	0.03	0.5	3.3
11-JAM-322	Soil	<0.1	0.5	0.08	0.4	5.4
11-JAM-302	Soil	0.7	1.2	0.16	1.3	3.4
11-JAM-320	Soil	<0.1	<0.5	<0.01	0.5	0.9
11-JAM-321	Soil	<0.1	3.1	0.04	0.4	4.0
11-JAM-301	Soil	0.7	4.0	0.13	1.0	2.2
11-JAM-319	Soil	<0.1	1.8	0.04	0.5	2.2
11-JAM-323	Soil	<0.1	2.1	0.19	0.5	10.4
11-JAM-313	Soil	<0.1	<0.5	0.06	1.0	2.1
11-JAM-295	Soil	0.3	1.2	0.05	0.4	1.9
11-JAM-306	Soil	0.5	0.7	0.11	0.9	2.3
11-MGB-282	Soil	<0.1	0.7	0.04	0.3	<0.5
11-MGB-276	Soil	<0.1	1.7	0.06	0.2	<0.5
11-MGB-274	Soil	<0.1	0.6	0.06	0.2	<0.5
11-MGB-272	Soil	0.1	2.1	0.08	0.2	0.8
11-MGB-277	Soil	<0.1	1.1	0.05	0.1	<0.5
11-MGB-283	Soil	<0.1	1.4	0.02	0.3	<0.5
11-JAM-303	Soil	0.7	2.0	0.15	0.9	2.6
11-JAM-310	Soil	<0.1	1.1	0.06	0.5	3.7
11-JAM-279	Soil	0.5	2.3	0.10	0.3	1.6
11-JAM-311	Soil	<0.1	0.6	0.07	0.5	3.8
11-JAM-281	Soil	0.3	0.9	0.02	0.2	<0.5
11-JAM-260	Soil	0.2	0.7	0.02	0.8	0.7
11-JAM-287	Soil	<0.1	1.7	0.01	0.4	1.0
11-JAM-304	Soil	0.3	2.3	0.08	0.6	2.0
11-JAM-284	Soil	<0.1	1.6	0.01	0.3	1.3
11-JAM-258	Soil	0.3	2.1	0.07	0.4	1.1
11-JAM-288	Soil	0.3	2.3	0.02	0.3	<0.5



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Project: TING PROP C
Report Date: August 31, 2011

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CERTIFICATE OF ANALYSIS

VAN11003254.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-JAM-283	Soil	2410	9	4.6	7.4	20.3	11.7	145.5	176.6	4	134.7	6.6	22.6	9.8	250	26.2	537.1	22.6	68.0
11-JAM-261	Soil	858	4	6.3	7.7	14.0	10.3	43.0	110.0	3	110.6	2.2	17.1	4.0	145	4.7	403.0	21.0	50.6
11-JAM-296	Soil	2742	10	5.3	9.5	17.2	11.7	127.2	228.7	4	131.5	5.3	31.0	10.4	568	29.8	599.9	32.4	109.0
11-JAM-297	Soil	2150	6	6.8	7.1	14.4	6.8	50.5	128.5	2	123.6	2.4	22.0	9.2	503	5.3	276.0	31.8	62.8
11-JAM-293	Soil	2377	11	3.8	13.1	19.3	10.5	141.5	186.5	4	125.9	6.6	34.2	8.2	312	36.9	501.5	25.4	109.2
11-JAM-286	Soil	2315	10	2.1	11.6	21.9	15.3	189.2	209.6	4	154.4	9.8	29.9	10.0	136	26.0	720.2	25.7	88.5
11-JAM-290	Soil	2154	8	4.1	9.0	25.2	14.4	221.1	221.8	4	123.6	10.8	43.9	10.7	173	20.4	695.5	21.2	97.7
11-JAM-285	Soil	1582	6	4.0	8.9	16.3	11.6	108.1	164.6	4	124.1	5.1	22.0	7.0	201	16.5	596.1	25.9	66.4
11-JAM-292	Soil	1545	10	4.0	8.7	15.0	8.1	74.9	105.5	3	129.7	3.3	34.0	9.2	387	13.6	349.0	27.8	115.3
11-JAM-280	Soil	2912	10	4.4	4.4	19.6	12.3	128.5	200.5	4	159.0	5.8	17.6	8.8	299	23.8	612.9	24.5	68.5
11-JAM-298	Soil	4343	5	5.4	3.4	10.3	1.6	11.2	70.8	2	55.1	0.5	6.5	7.3	760	9.1	66.3	41.8	43.4
11-JAM-294	Soil	3443	16	4.7	6.6	15.6	12.2	150.1	154.2	4	126.6	7.2	60.4	19.9	708	35.6	695.2	68.1	203.1
11-JAM-289	Soil	2301	6	4.7	9.0	22.7	13.2	189.1	213.3	4	120.9	9.0	45.1	11.7	228	29.9	683.5	23.1	85.9
11-JAM-277	Soil	2178	3	4.8	4.7	14.4	9.5	63.5	134.3	3	128.7	3.5	17.8	7.4	287	9.0	390.4	28.3	56.0
11-JAM-309	Soil	6669	3	9.4	5.3	12.3	5.0	43.5	96.3	2	132.4	2.1	17.2	9.9	541	6.2	217.5	31.3	49.4
11-JAM-307	Soil	2924	2	7.3	6.2	14.7	7.4	40.5	104.6	2	151.9	2.2	17.9	8.8	387	3.8	288.9	33.2	54.6
11-JAM-300	Soil	3560	3	4.1	6.1	13.4	7.9	82.1	131.3	2	125.9	4.5	21.0	8.6	424	7.5	353.7	27.9	62.4
11-JAM-299	Soil	2868	2	4.4	5.7	13.5	7.0	68.1	122.3	2	110.4	3.6	18.1	7.6	372	5.9	304.4	24.5	50.0
11-JAM-278	Soil	1693	2	5.5	6.0	14.8	9.7	41.9	104.4	3	130.9	2.4	16.5	5.4	224	14.6	364.4	23.2	43.8
11-JAM-291	Soil	1547	5	2.5	10.4	17.0	11.9	133.8	169.6	3	106.7	6.4	23.7	8.7	155	20.7	562.7	20.5	60.5
11-JAM-317	Soil	1218	5	2.0	8.0	17.1	13.7	188.6	255.3	3	85.3	8.4	28.8	10.1	243	3.1	637.8	33.6	60.0
11-JAM-276	Soil	5082	2	7.3	7.6	17.0	10.8	55.1	175.2	3	132.0	3.0	14.1	6.0	376	42.4	433.9	28.6	40.6
11-JAM-314	Soil	813	5	2.9	14.2	20.0	12.5	164.5	276.1	3	95.2	7.1	25.7	4.8	148	2.0	512.0	21.3	49.1
11-JAM-315	Soil	2118	2	4.6	4.5	10.2	8.6	40.6	126.3	2	77.0	2.0	11.1	4.3	256	1.6	299.6	20.9	34.0
11-JAM-318	Soil	983	4	4.6	6.9	15.5	13.7	144.4	209.1	3	71.6	6.1	26.2	7.1	302	1.7	597.4	26.2	45.1
11-AAB-0273	Soil	490	1	10.5	5.1	12.9	7.9	11.7	67.6	2	79.3	0.8	9.9	2.7	129	1.4	280.7	20.8	28.8
11-AAB-0288	Soil	117	<1	3.2	1.2	2.9	12.1	3.2	20.2	<1	25.5	0.2	3.1	1.8	32	<0.5	427.3	9.9	8.9
11-AAB-0270	Soil	746	1	10.0	4.0	11.0	7.1	10.4	65.5	1	82.3	0.7	8.6	3.0	148	1.1	270.8	19.6	25.1
11-AAB-0283	Soil	413	2	8.7	5.5	13.3	5.6	11.3	72.3	2	81.2	0.7	9.5	2.7	130	1.2	181.9	17.7	26.5
11-AAB-0269	Soil	475	2	13.0	3.8	14.6	11.7	11.5	47.4	2	88.6	0.7	11.9	3.3	174	1.5	420.2	27.2	33.3



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-JAM-283	Soil	31.5	4.83	0.98	3.91	0.61	3.57	0.72	2.16	0.41	2.45	0.39	20.5	11.2	32.7	659	54.4	21.2	2.9	2.9
11-JAM-261	Soil	29.5	4.95	0.97	4.07	0.63	3.28	0.77	2.29	0.38	2.36	0.38	35.3	8.6	91.5	167	18.2	17.3	0.9	1.2
11-JAM-296	Soil	48.3	7.12	1.23	5.70	0.87	4.93	1.03	3.06	0.52	3.41	0.56	11.0	18.5	27.8	552	47.0	45.8	7.4	3.2
11-JAM-297	Soil	34.4	5.55	1.06	4.65	0.75	4.47	0.98	2.99	0.47	2.98	0.47	11.5	28.8	31.2	581	74.2	28.3	11.9	2.1
11-JAM-293	Soil	47.0	6.41	1.10	4.50	0.71	4.03	0.83	2.38	0.42	2.76	0.41	25.7	12.0	21.3	108	41.8	39.8	0.7	2.1
11-JAM-286	Soil	41.9	5.90	0.95	4.16	0.68	3.92	0.86	2.62	0.45	3.02	0.47	9.9	6.8	30.2	103	13.6	12.2	3.3	0.9
11-JAM-290	Soil	37.9	5.40	0.71	3.53	0.58	3.48	0.71	2.26	0.39	2.47	0.43	14.8	13.9	34.0	112	37.2	27.8	0.4	1.6
11-JAM-285	Soil	36.2	5.44	0.91	3.83	0.65	3.64	0.79	2.42	0.42	2.53	0.40	52.2	7.7	32.3	228	21.1	18.7	2.0	1.9
11-JAM-292	Soil	47.4	6.69	0.98	4.73	0.78	4.27	0.86	2.47	0.43	2.60	0.39	13.9	21.4	33.5	69	31.0	46.2	1.3	0.7
11-JAM-280	Soil	31.5	4.80	0.91	3.72	0.61	3.72	0.73	2.28	0.37	2.31	0.37	9.9	8.8	25.0	347	42.4	14.7	2.2	4.3
11-JAM-298	Soil	28.6	5.06	1.00	4.73	0.71	4.18	0.96	2.77	0.42	2.60	0.40	26.8	47.9	137.5	980	334.4	98.3	3.8	4.9
11-JAM-294	Soil	100.5	14.78	2.21	10.67	1.75	10.21	2.05	6.24	1.00	6.37	0.98	6.1	20.4	37.4	814	60.9	53.7	11.8	4.5
11-JAM-289	Soil	38.1	5.45	0.86	4.04	0.63	3.75	0.79	2.38	0.39	2.81	0.45	25.6	12.1	34.2	150	44.7	30.6	0.6	2.0
11-JAM-277	Soil	36.0	5.59	1.11	4.69	0.78	4.51	0.92	2.73	0.41	2.81	0.44	11.7	16.5	26.7	166	29.5	20.0	1.3	2.2
11-JAM-309	Soil	29.9	5.15	1.00	4.67	0.76	4.49	0.90	2.74	0.40	2.66	0.43	8.5	28.9	99.4	627	124.1	52.4	7.1	3.4
11-JAM-307	Soil	37.6	6.77	1.38	5.78	0.93	5.38	1.06	3.22	0.49	3.06	0.49	13.0	23.6	27.1	276	56.8	24.1	3.4	2.0
11-JAM-300	Soil	36.8	5.56	1.05	4.53	0.72	4.43	0.92	2.66	0.41	2.77	0.43	21.5	25.1	33.8	276	55.3	26.6	2.1	2.2
11-JAM-299	Soil	28.7	4.52	0.91	3.71	0.62	3.84	0.76	2.33	0.35	2.47	0.38	25.6	22.2	33.1	255	58.2	27.7	1.2	2.2
11-JAM-278	Soil	30.8	5.28	0.99	4.13	0.70	4.23	0.87	2.55	0.40	2.71	0.42	7.1	8.6	20.6	167	22.0	11.5	3.2	0.9
11-JAM-291	Soil	29.4	4.30	0.72	3.29	0.55	3.45	0.73	2.30	0.37	2.53	0.41	32.5	8.2	20.9	82	21.8	16.2	0.4	1.2
11-JAM-317	Soil	29.9	5.07	0.96	4.50	0.75	4.76	1.07	3.43	0.57	4.13	0.68	17.2	10.0	39.1	148	52.1	16.6	0.8	2.6
11-JAM-276	Soil	31.4	5.47	0.82	4.76	0.78	4.39	0.94	2.78	0.43	2.73	0.43	4.0	26.2	19.2	263	78.0	9.5	3.1	2.3
11-JAM-314	Soil	27.9	4.44	0.78	3.59	0.60	3.56	0.77	2.43	0.41	2.85	0.45	6.4	4.5	22.2	117	11.4	4.9	0.4	0.4
11-JAM-315	Soil	23.7	4.08	0.73	3.43	0.58	3.58	0.77	2.45	0.36	2.28	0.37	11.9	6.8	12.2	185	25.9	12.5	0.5	0.8
11-JAM-318	Soil	28.8	4.72	0.81	3.74	0.66	4.29	0.89	2.95	0.48	3.45	0.55	24.8	16.8	32.9	199	24.7	18.3	0.4	1.5
11-AAB-0273	Soil	24.7	4.65	1.01	4.03	0.67	3.86	0.79	2.35	0.35	2.42	0.37	0.4	19.4	17.3	88	20.8	10.2	<0.1	<0.1
11-AAB-0288	Soil	8.1	1.52	0.35	1.31	0.24	1.52	0.34	1.08	0.18	1.24	0.23	0.5	4.0	4.0	25	10.6	4.8	0.2	<0.1
11-AAB-0270	Soil	21.7	4.26	0.91	3.40	0.58	3.59	0.75	2.23	0.33	2.35	0.36	0.4	15.8	12.6	83	18.3	10.6	0.1	<0.1
11-AAB-0283	Soil	23.3	4.23	0.90	3.42	0.58	3.46	0.70	2.02	0.31	1.98	0.30	0.5	20.5	16.6	79	18.2	10.2	<0.1	<0.1
11-AAB-0269	Soil	28.8	5.55	1.15	4.80	0.81	4.93	1.06	3.04	0.47	3.01	0.48	1.3	11.8	21.4	93	25.6	18.2	0.2	0.1



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-283	Soil	0.4	0.9	0.01	0.2	0.6
11-JAM-261	Soil	0.3	<0.5	0.02	0.5	<0.5
11-JAM-296	Soil	<0.1	2.0	0.18	0.4	1.4
11-JAM-297	Soil	0.3	2.2	0.06	0.4	2.3
11-JAM-293	Soil	<0.1	2.5	0.01	0.4	<0.5
11-JAM-286	Soil	0.2	1.0	0.03	0.2	<0.5
11-JAM-290	Soil	<0.1	2.6	0.03	0.3	0.8
11-JAM-285	Soil	0.2	1.6	0.01	0.3	0.5
11-JAM-292	Soil	0.6	2.7	0.04	0.3	<0.5
11-JAM-280	Soil	<0.1	<0.5	<0.01	0.2	<0.5
11-JAM-298	Soil	1.0	<0.5	0.03	0.3	4.9
11-JAM-294	Soil	0.2	2.4	0.03	0.3	1.4
11-JAM-289	Soil	<0.1	5.3	0.02	0.4	1.1
11-JAM-277	Soil	0.2	2.0	0.05	0.4	1.8
11-JAM-309	Soil	0.6	2.3	0.15	0.5	3.0
11-JAM-307	Soil	0.5	2.4	0.17	0.6	1.9
11-JAM-300	Soil	0.4	2.7	0.08	0.9	2.1
11-JAM-299	Soil	0.3	2.3	0.06	0.8	2.9
11-JAM-278	Soil	0.2	0.8	0.01	0.3	<0.5
11-JAM-291	Soil	0.1	2.0	0.01	0.3	<0.5
11-JAM-317	Soil	0.2	1.7	0.02	0.8	1.2
11-JAM-276	Soil	<0.1	<0.5	<0.01	0.3	<0.5
11-JAM-314	Soil	<0.1	0.7	0.03	0.6	<0.5
11-JAM-315	Soil	<0.1	<0.5	0.02	0.8	1.0
11-JAM-318	Soil	<0.1	0.6	0.06	0.8	2.8
11-AAB-0273	Soil	<0.1	0.8	0.03	<0.1	0.7
11-AAB-0288	Soil	<0.1	0.8	<0.01	<0.1	<0.5
11-AAB-0270	Soil	0.1	1.5	0.05	<0.1	0.8
11-AAB-0283	Soil	0.1	1.1	0.04	<0.1	0.6
11-AAB-0269	Soil	0.2	<0.5	0.06	<0.1	1.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-AAB-0276	Soil	719	1	9.2	3.8	9.1	8.4	8.7	55.3	1	67.7	0.5	8.0	2.7	122	1.1	307.2	17.4	21.4
11-AAB-0299	Soil	1915	2	0.5	5.4	12.7	3.9	29.6	88.8	1	40.7	1.7	5.6	5.3	306	2.6	144.5	11.9	35.5
11-AAB-0305	Soil	1249	1	3.3	3.2	10.1	9.1	28.8	65.0	2	82.9	1.6	12.5	5.1	217	2.7	344.9	20.9	39.5
11-AAB-0302	Soil	1174	<1	1.1	3.0	7.3	10.7	21.6	52.2	2	53.1	1.2	7.1	3.3	162	2.1	404.1	14.5	27.5
11-AAB-0301	Soil	1676	<1	1.7	4.9	11.0	4.8	26.8	68.3	2	103.5	1.5	8.5	4.6	289	2.2	189.5	12.6	29.0
11-AAB-0303	Soil	1555	1	3.0	4.8	12.9	9.4	58.2	98.5	2	128.1	3.3	12.8	5.3	216	4.6	335.6	18.7	42.7
11-MGB-275	Soil	697	1	9.7	4.8	11.5	8.0	16.0	74.2	2	122.1	1.2	13.1	2.7	102	4.2	275.4	24.2	41.7
11-MGB-284	Soil	602	2	11.6	6.2	15.5	11.1	14.7	86.9	5	244.6	1.3	23.6	5.6	102	3.6	401.2	28.8	71.4
11-MGB-273	Soil	510	1	8.4	5.0	12.1	5.9	12.4	83.5	3	147.9	1.0	15.6	2.8	68	1.8	207.2	20.0	40.1
11-MGB-285	Soil	544	1	15.1	4.0	14.0	10.6	15.9	64.5	4	304.6	1.4	11.6	4.9	121	2.1	392.3	24.9	47.1
11-MGB-293	Soil	614	2	14.1	7.9	14.1	5.8	19.4	91.0	2	175.6	1.3	8.9	3.2	112	7.6	208.1	18.9	32.3
11-MGB-294	Soil	506	2	7.9	10.2	13.1	7.5	16.7	99.0	2	209.2	1.1	8.6	3.3	89	64.7	262.4	20.6	35.5
11-MGB-278	Soil	817	1	6.5	3.3	8.6	5.7	12.3	55.6	3	124.2	1.2	9.1	2.6	99	1.3	218.5	18.7	34.2
11-MGB-281	Soil	593	3	9.5	6.9	16.9	7.6	17.9	111.2	5	222.6	1.7	26.6	16.5	62	5.3	263.0	34.6	66.0
11-MGB-280	Soil	501	2	16.6	7.5	16.3	7.5	14.7	76.5	4	244.4	1.2	17.4	4.3	97	1.9	271.1	25.2	62.6
11-AAB-0255	Soil	502	2	12.4	3.7	12.9	7.4	11.3	44.5	2	126.3	0.7	9.8	3.2	146	1.2	259.5	22.4	30.5
11-AAB-0324	Soil	819	1	15.7	5.7	15.6	6.6	10.3	78.5	2	104.1	0.7	9.6	3.0	191	1.2	226.0	21.7	30.2
11-AAB-0311	Soil	470	1	8.4	3.2	9.3	8.8	7.9	46.5	1	72.9	0.6	7.3	2.4	121	0.9	298.8	16.2	22.7
11-AAB-0315	Soil	702	1	11.0	3.5	11.5	9.9	8.9	54.8	2	89.6	0.7	9.0	3.1	130	1.1	348.3	23.6	24.4
11-AAB-0314	Soil	300	<1	8.4	2.1	6.5	11.9	6.8	38.2	1	50.0	0.4	5.8	2.6	80	0.7	451.7	16.7	16.5
11-AAB-0327	Soil	549	2	16.6	4.2	13.5	4.8	9.3	73.2	2	103.7	0.7	9.8	3.0	167	1.1	183.1	23.1	29.1
11-AAB-0322	Soil	942	1	22.6	6.0	15.9	5.0	10.3	97.1	2	112.8	0.7	10.6	3.3	205	1.3	173.6	24.1	31.4
11-AAB-0306	Soil	625	2	17.0	4.0	17.0	11.0	12.3	52.2	3	150.4	0.9	12.4	3.5	175	1.5	386.7	30.2	35.0
11-AAB-0328	Soil	437	1	14.5	2.9	10.0	8.7	7.4	49.1	2	71.2	0.5	7.8	2.4	117	0.8	304.2	19.8	21.9
11-AAB-0309	Soil	377	1	12.3	2.6	8.9	10.6	7.6	43.6	1	75.9	0.6	7.0	2.9	104	1.0	392.6	18.8	20.9
11-AAB-0308	Soil	558	1	13.6	3.9	11.0	6.5	9.1	60.0	2	80.6	0.6	8.7	2.6	134	1.0	227.8	22.3	24.1
11-AAB-0312	Soil	343	<1	10.6	2.6	7.4	13.0	7.5	45.9	1	56.6	0.5	6.2	2.5	106	0.7	496.3	18.2	18.5
11-WJH-043	Soil	1205	8	8.9	6.6	14.6	7.3	32.8	101.6	2	190.5	1.5	152.3	7.0	593	24.2	292.8	32.9	67.7
11-JAM-238	Soil	1755	7	4.7	14.3	23.7	13.4	167.2	184.7	3	179.9	7.7	38.4	11.9	165	15.1	639.1	25.1	90.0
11-JAM-228	Soil	940	3	8.3	22.0	18.1	10.0	75.1	161.6	2	141.4	3.3	27.1	5.8	141	5.4	418.9	20.6	47.1



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-AAB-0276	Soil	18.1	3.44	0.77	3.03	0.55	3.33	0.69	2.07	0.30	2.18	0.34	0.9	16.0	14.2	99	23.2	15.0	<0.1	<0.1
11-AAB-0299	Soil	25.9	3.87	0.61	2.40	0.37	2.17	0.44	1.31	0.21	1.52	0.24	17.3	2.8	7.0	9	1.9	4.1	<0.1	1.5
11-AAB-0305	Soil	27.4	4.61	0.88	3.73	0.64	3.86	0.82	2.45	0.37	2.47	0.39	10.1	11.6	18.4	88	18.6	17.0	0.3	1.4
11-AAB-0302	Soil	21.2	3.16	0.54	2.57	0.42	2.50	0.56	1.69	0.27	1.82	0.30	13.7	5.0	9.9	56	16.3	10.4	<0.1	0.9
11-AAB-0301	Soil	20.1	3.02	0.56	2.25	0.37	2.18	0.48	1.45	0.23	1.62	0.26	16.9	11.6	16.5	73	15.1	19.1	0.4	1.8
11-AAB-0303	Soil	29.7	4.70	0.90	3.54	0.61	3.55	0.74	2.19	0.35	2.40	0.37	13.3	8.5	20.1	86	17.8	20.8	0.3	1.3
11-MGB-275	Soil	36.7	6.56	1.31	5.27	0.85	4.79	0.95	2.63	0.41	2.73	0.41	0.7	16.0	31.6	120	23.1	19.4	1.0	0.9
11-MGB-284	Soil	60.4	10.56	1.86	8.12	1.17	6.23	1.20	3.25	0.52	3.47	0.53	0.4	14.7	8.6	63	18.2	2.9	0.4	0.1
11-MGB-273	Soil	31.2	5.40	1.05	4.36	0.71	4.05	0.79	2.27	0.34	2.23	0.33	0.4	9.6	22.1	98	14.8	17.0	0.4	0.9
11-MGB-285	Soil	41.6	7.26	1.70	5.93	0.94	5.13	1.05	2.98	0.46	2.99	0.47	0.4	9.1	7.1	55	14.7	2.5	0.3	<0.1
11-MGB-293	Soil	29.3	5.42	1.30	4.47	0.73	3.97	0.79	2.15	0.34	2.10	0.33	9.4	24.5	111.7	249	20.0	54.1	0.9	1.0
11-MGB-294	Soil	30.1	5.51	1.40	4.61	0.71	3.93	0.75	2.24	0.33	2.19	0.35	11.5	27.5	108.0	203	11.1	19.2	0.5	0.7
11-MGB-278	Soil	27.8	5.00	0.94	4.15	0.64	3.62	0.77	2.16	0.33	2.08	0.31	0.8	8.5	12.9	89	15.9	15.6	0.6	0.8
11-MGB-281	Soil	52.2	9.67	1.56	8.01	1.22	6.95	1.36	4.05	0.57	3.92	0.58	1.8	12.3	13.7	85	17.2	4.1	0.3	<0.1
11-MGB-280	Soil	58.3	10.38	1.97	7.53	1.07	5.56	1.02	2.94	0.44	2.84	0.43	0.3	15.3	8.8	74	24.4	3.4	0.2	<0.1
11-AAB-0255	Soil	27.2	5.12	1.08	4.42	0.73	4.31	0.84	2.63	0.39	2.68	0.40	1.3	12.5	17.7	89	30.0	14.5	0.5	0.2
11-AAB-0324	Soil	27.0	5.08	1.05	4.12	0.73	4.34	0.90	2.62	0.40	2.62	0.41	1.0	21.5	17.1	139	41.1	30.2	0.1	0.1
11-AAB-0311	Soil	19.6	3.78	0.78	3.51	0.55	3.31	0.67	2.00	0.31	1.99	0.32	0.5	13.6	12.1	82	22.6	12.4	0.2	0.1
11-AAB-0315	Soil	21.7	4.30	0.97	4.05	0.70	4.18	0.84	2.53	0.38	2.68	0.42	1.2	14.3	14.9	110	25.0	16.5	0.1	0.2
11-AAB-0314	Soil	14.5	2.83	0.67	2.69	0.47	2.84	0.63	1.92	0.27	1.99	0.32	0.6	10.5	9.8	85	23.8	10.3	0.4	0.1
11-AAB-0327	Soil	26.5	5.22	1.08	4.42	0.70	4.09	0.82	2.45	0.35	2.44	0.38	1.0	18.9	16.0	116	33.1	21.8	0.2	0.2
11-AAB-0322	Soil	27.9	5.41	1.21	4.62	0.77	4.55	0.90	2.67	0.40	2.71	0.41	1.4	23.7	21.1	146	45.3	24.5	0.2	0.2
11-AAB-0306	Soil	33.2	5.86	1.25	5.43	0.88	5.34	1.12	3.22	0.46	3.33	0.51	1.0	12.6	17.8	111	36.3	19.1	0.3	<0.1
11-AAB-0328	Soil	20.3	4.01	0.91	3.81	0.60	3.58	0.73	2.11	0.31	2.14	0.34	1.0	15.6	15.7	115	31.8	22.8	0.3	0.2
11-AAB-0309	Soil	19.4	3.78	0.83	3.44	0.55	3.42	0.69	2.02	0.29	2.07	0.35	1.0	12.2	15.1	88	22.3	16.0	0.3	0.2
11-AAB-0308	Soil	21.8	4.04	0.90	3.90	0.66	4.06	0.83	2.37	0.34	2.37	0.37	0.9	16.9	14.7	95	24.8	15.1	0.2	0.1
11-AAB-0312	Soil	17.4	3.33	0.75	3.10	0.52	3.13	0.65	2.01	0.30	2.18	0.35	0.7	13.1	11.3	117	27.9	9.8	0.5	0.1
11-WJH-043	Soil	32.0	5.34	1.21	4.96	0.79	5.04	1.03	3.13	0.46	3.11	0.48	4.0	21.3	97.8	2019	120.3	48.8	22.7	2.3
11-JAM-238	Soil	37.3	5.35	1.06	4.47	0.69	4.14	0.88	2.67	0.44	3.19	0.49	12.4	9.5	68.7	171	24.0	16.1	1.5	1.5
11-JAM-228	Soil	30.8	4.68	0.93	3.67	0.59	3.58	0.77	2.18	0.34	2.54	0.39	50.2	10.6	62.2	167	15.6	8.3	0.9	1.1



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-AAB-0276	Soil	0.2	<0.5	0.07	<0.1	1.0
11-AAB-0299	Soil	2.1	1.7	0.06	2.0	<0.5
11-AAB-0305	Soil	0.1	2.0	0.04	0.4	1.1
11-AAB-0302	Soil	0.1	<0.5	0.02	0.4	0.6
11-AAB-0301	Soil	0.3	1.2	0.02	0.7	2.1
11-AAB-0303	Soil	0.1	<0.5	0.02	0.4	0.8
11-MGB-275	Soil	0.2	2.3	0.08	0.2	0.5
11-MGB-284	Soil	<0.1	1.2	0.03	0.2	<0.5
11-MGB-273	Soil	<0.1	2.3	0.04	0.1	<0.5
11-MGB-285	Soil	<0.1	1.2	0.02	0.2	0.6
11-MGB-293	Soil	0.3	2.9	0.05	0.8	0.6
11-MGB-294	Soil	0.3	2.3	0.02	0.3	0.6
11-MGB-278	Soil	<0.1	<0.5	0.04	0.1	<0.5
11-MGB-281	Soil	<0.1	1.4	0.02	0.3	<0.5
11-MGB-280	Soil	<0.1	1.1	0.02	0.2	<0.5
11-AAB-0255	Soil	0.2	<0.5	0.04	<0.1	1.4
11-AAB-0324	Soil	0.2	<0.5	0.08	<0.1	1.2
11-AAB-0311	Soil	0.1	0.6	0.05	<0.1	0.9
11-AAB-0315	Soil	0.1	1.9	0.06	<0.1	1.2
11-AAB-0314	Soil	0.1	0.9	0.07	<0.1	0.9
11-AAB-0327	Soil	0.2	0.7	0.07	<0.1	1.1
11-AAB-0322	Soil	0.1	0.9	0.06	<0.1	1.6
11-AAB-0306	Soil	0.2	<0.5	0.06	<0.1	1.4
11-AAB-0328	Soil	0.2	1.0	0.07	<0.1	0.6
11-AAB-0309	Soil	0.2	<0.5	0.05	<0.1	0.9
11-AAB-0308	Soil	0.2	1.5	0.06	<0.1	0.9
11-AAB-0312	Soil	<0.1	<0.5	0.05	<0.1	0.5
11-WJH-043	Soil	0.3	<0.5	0.04	0.6	0.6
11-JAM-238	Soil	0.3	1.8	0.04	0.6	0.8
11-JAM-228	Soil	0.4	1.1	0.03	0.4	0.6



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-JAM-272	Soil	4488	3	22.6	9.8	17.7	4.8	17.0	111.6	3	94.7	1.0	12.5	33.6	622	2.2	190.0	47.2	41.7
11-JAM-227	Soil	2316	3	6.0	8.7	13.7	7.9	60.2	118.9	2	111.4	2.9	24.0	9.0	438	4.4	339.4	26.1	65.6
11-JAM-259	Soil	2031	4	5.3	17.5	17.1	10.4	84.6	171.4	3	106.4	3.7	40.6	9.0	385	8.4	427.5	25.0	69.5
11-JAM-206	Soil	1631	7	8.2	9.6	19.3	12.3	135.8	155.9	3	104.2	6.1	48.5	8.8	232	9.2	536.8	25.8	97.8
11-JAM-222	Soil	2624	4	5.9	9.0	15.8	8.5	41.6	140.0	4	137.8	2.3	25.2	8.9	306	4.7	327.0	39.3	102.0
11-JAM-242	Soil	3414	9	3.4	23.9	20.9	17.3	165.7	223.3	4	141.4	7.6	79.0	12.3	288	19.8	817.6	26.6	86.2
11-JAM-204	Soil	897	22	10.0	15.9	16.7	11.8	123.9	138.8	3	42.9	4.4	48.5	7.7	150	8.5	560.5	42.1	100.3
11-JAM-343	Soil	1061	1	1.8	3.1	9.2	5.8	14.0	61.8	1	59.7	1.0	6.5	6.7	356	1.9	202.7	15.0	29.3
11-JAM-326	Soil	883	1	1.5	4.0	12.9	8.9	40.3	89.7	2	73.6	2.0	10.3	6.7	286	2.4	319.6	19.0	40.8
11-JAM-335	Soil	1207	1	1.2	3.2	8.0	4.1	11.6	65.6	2	44.9	0.8	5.0	8.4	627	1.8	154.4	19.0	24.0
11-JAM-253	Soil	1848	4	4.4	10.3	17.4	12.2	117.1	194.6	3	171.5	5.9	31.3	8.4	213	8.1	575.1	25.5	69.1
11-JAM-243	Soil	1686	5	7.1	13.8	17.2	13.5	94.3	166.4	3	154.9	5.0	35.3	9.0	212	6.6	569.9	29.2	84.2
11-JAM-217	Soil	1733	2	3.6	4.3	12.8	8.3	47.1	136.2	2	115.4	2.8	14.7	6.1	279	4.5	346.8	23.1	46.0
11-JAM-328	Soil	1156	2	0.9	2.6	6.9	4.3	11.1	41.1	1	47.6	0.8	4.9	10.5	419	2.0	155.7	16.0	34.4
11-JAM-264	Soil	1278	6	5.0	11.2	18.4	10.5	128.4	135.6	3	110.2	6.3	38.9	7.6	204	12.6	462.4	20.5	72.0
11-JAM-267	Soil	2687	3	6.8	5.0	12.8	6.7	26.6	94.5	2	102.6	1.5	12.2	5.0	334	4.3	274.4	21.8	36.1
11-JAM-327	Soil	1013	1	1.2	3.5	9.4	6.6	16.9	63.8	2	55.9	1.2	7.4	8.0	450	2.9	246.4	18.6	34.7
11-JAM-336	Soil	818	1	3.4	3.9	10.5	7.5	15.1	75.6	2	68.0	1.1	8.6	5.5	392	1.6	279.1	17.7	31.4
11-JAM-213	Soil	803	2	4.5	9.7	14.9	8.1	52.5	152.2	3	111.1	2.5	14.2	3.8	137	4.2	320.9	17.4	40.3
11-JAM-216	Soil	2318	2	4.8	6.2	16.6	12.2	109.2	183.3	3	172.6	5.5	20.7	7.5	192	10.2	532.8	22.2	55.7
11-JAM-329	Soil	1098	2	1.0	2.3	7.2	3.9	10.0	40.6	<1	42.5	0.7	4.8	11.4	412	2.0	126.9	14.8	31.3
11-JAM-214	Soil	1039	3	4.7	8.1	17.8	9.8	55.7	135.5	3	141.4	2.8	13.4	4.3	210	5.7	401.7	21.9	44.4
11-JAM-209	Soil	1263	11	8.4	9.8	21.8	10.8	185.1	156.4	3	306.9	8.4	59.6	9.2	127	10.2	581.6	20.0	83.9
11-JAM-211	Soil	934	3	3.4	5.5	18.7	10.7	82.2	88.6	3	222.8	4.5	19.0	6.0	122	7.3	463.7	22.1	56.3
11-JAM-240	Soil	1351	4	6.2	12.0	20.5	10.0	102.9	166.9	3	154.8	4.8	23.3	7.3	192	5.9	471.9	25.2	68.7
11-JAM-339	Soil	1066	2	1.6	3.0	11.5	6.3	13.8	55.6	2	72.1	0.8	8.1	9.5	329	1.8	229.7	18.9	35.4
11-JAM-330	Soil	1224	2	4.8	3.8	11.7	5.1	21.7	75.0	2	84.1	1.2	9.4	7.8	324	1.6	231.1	18.6	37.8
11-JAM-324	Soil	1288	1	0.7	2.5	6.3	2.1	14.1	41.6	<1	31.0	0.7	4.3	14.6	524	2.1	86.7	15.8	32.8
11-JAM-270	Soil	3829	3	12.2	5.1	9.1	4.4	20.3	75.7	2	109.4	1.1	11.0	14.0	609	6.9	196.0	26.2	35.0
11-JAM-200	Soil	1035	4	5.8	10.4	21.6	8.9	121.6	157.6	3	133.1	5.7	28.7	8.2	193	7.6	436.6	21.1	50.7



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-JAM-272	Soil	42.4	9.05	2.08	9.08	1.30	7.56	1.55	4.61	0.66	4.69	0.74	54.1	28.7	79.0	410	96.7	64.5	6.5	1.4
11-JAM-227	Soil	36.0	5.75	1.13	4.56	0.75	4.14	0.87	2.54	0.38	2.66	0.42	37.0	28.0	87.6	369	54.7	30.2	1.2	3.7
11-JAM-259	Soil	39.4	5.83	1.16	4.46	0.67	4.07	0.85	2.70	0.41	3.00	0.45	15.1	16.1	166.5	313	32.1	38.4	1.0	2.6
11-JAM-206	Soil	47.3	6.46	1.05	4.75	0.76	4.57	0.88	2.81	0.42	3.08	0.50	34.2	11.5	65.1	211	50.8	32.4	0.7	1.8
11-JAM-222	Soil	52.3	8.51	1.62	7.44	1.14	6.62	1.31	3.87	0.55	3.69	0.57	13.7	29.4	46.3	186	34.6	15.8	2.0	1.7
11-JAM-242	Soil	37.9	5.42	1.40	4.09	0.65	4.14	0.88	2.89	0.47	3.61	0.55	8.8	8.0	37.6	179	30.7	16.5	1.0	4.9
11-JAM-204	Soil	41.4	6.55	1.35	6.03	0.99	6.15	1.31	4.04	0.61	4.41	0.69	30.6	11.6	44.1	154	33.1	27.6	0.4	1.4
11-JAM-343	Soil	22.7	3.89	0.72	2.87	0.44	2.59	0.52	1.56	0.22	1.56	0.26	61.1	16.6	8.0	45	9.0	13.5	0.2	2.7
11-JAM-326	Soil	31.6	4.93	0.92	3.62	0.59	3.32	0.66	2.13	0.31	2.22	0.35	41.3	13.3	8.2	32	6.6	9.3	0.2	1.9
11-JAM-335	Soil	20.3	3.39	0.66	2.97	0.47	2.79	0.60	1.77	0.24	1.65	0.25	90.5	19.6	5.7	34	11.6	23.4	0.3	7.3
11-JAM-253	Soil	34.7	5.25	1.10	4.18	0.68	4.21	0.89	2.85	0.43	3.13	0.48	10.3	10.2	37.9	152	23.6	18.3	0.7	2.6
11-JAM-243	Soil	43.6	6.72	1.30	5.19	0.84	5.01	0.98	2.98	0.46	3.26	0.51	9.2	10.2	36.9	129	23.5	15.8	0.9	2.0
11-JAM-217	Soil	32.3	5.08	0.92	3.85	0.63	3.98	0.78	2.37	0.35	2.56	0.38	14.4	11.9	20.1	120	20.1	14.8	0.8	2.3
11-JAM-328	Soil	27.5	4.07	0.73	3.10	0.46	2.59	0.50	1.43	0.20	1.40	0.22	81.1	31.8	5.5	23	5.8	14.2	0.3	3.8
11-JAM-264	Soil	36.1	5.32	0.89	3.70	0.65	3.91	0.78	2.42	0.38	2.62	0.43	4.8	17.2	161.9	860	148.8	59.1	5.2	3.3
11-JAM-267	Soil	28.0	4.78	0.91	3.83	0.63	3.85	0.76	2.23	0.33	2.27	0.37	6.1	10.9	65.2	455	41.1	55.4	2.2	2.0
11-JAM-327	Soil	30.4	4.87	0.94	3.88	0.60	3.54	0.67	2.00	0.29	1.95	0.32	57.2	21.3	9.6	45	7.9	18.8	0.1	3.6
11-JAM-336	Soil	25.6	4.09	0.78	3.18	0.53	3.33	0.65	1.93	0.29	2.06	0.33	26.9	11.5	12.3	71	11.9	13.1	0.3	1.7
11-JAM-213	Soil	27.2	4.31	0.81	3.06	0.49	3.06	0.66	2.13	0.29	2.04	0.33	19.0	6.8	38.8	128	15.4	11.5	0.7	0.8
11-JAM-216	Soil	33.0	5.16	0.93	3.75	0.65	3.95	0.83	2.60	0.39	2.70	0.43	9.0	7.9	33.8	217	20.3	10.8	0.8	1.1
11-JAM-329	Soil	25.5	3.87	0.72	2.99	0.46	2.54	0.50	1.34	0.19	1.38	0.21	96.5	36.9	6.6	25	6.1	21.6	0.2	5.2
11-JAM-214	Soil	33.1	5.21	0.99	3.81	0.66	3.99	0.82	2.55	0.37	2.61	0.42	39.5	7.2	29.8	126	13.6	12.2	0.8	0.6
11-JAM-209	Soil	42.5	6.02	1.49	4.22	0.71	4.12	0.82	2.46	0.39	2.68	0.43	13.3	10.4	151.7	202	27.5	26.5	0.7	2.2
11-JAM-211	Soil	36.0	5.72	1.09	4.24	0.68	4.01	0.83	2.52	0.39	2.84	0.44	18.5	6.9	47.5	46	6.3	5.7	0.6	0.4
11-JAM-240	Soil	30.9	4.90	1.00	3.75	0.68	3.80	0.82	2.66	0.41	2.69	0.47	12.8	7.5	30.4	120	24.8	12.0	0.5	0.9
11-JAM-339	Soil	25.5	4.42	0.82	3.34	0.54	2.87	0.59	1.81	0.26	1.62	0.28	73.5	19.6	9.0	31	6.8	18.1	<0.1	2.3
11-JAM-330	Soil	26.1	4.21	0.84	3.21	0.54	2.94	0.61	1.73	0.26	1.77	0.28	64.7	28.5	13.9	132	19.4	20.6	0.4	1.9
11-JAM-324	Soil	22.7	3.53	0.68	2.88	0.44	2.40	0.47	1.31	0.19	0.99	0.17	128.3	50.4	6.6	21	7.0	25.7	<0.1	5.5
11-JAM-270	Soil	25.1	4.33	0.89	3.67	0.59	3.38	0.76	2.27	0.33	2.11	0.35	11.3	26.4	62.3	827	198.4	121.2	8.3	2.5
11-JAM-200	Soil	30.4	4.68	0.89	3.38	0.62	3.30	0.69	2.16	0.36	2.26	0.39	22.3	10.9	35.3	181	20.6	22.5	0.7	0.5



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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-272	Soil	1.9	3.5	0.32	1.5	4.1
11-JAM-227	Soil	0.3	1.9	0.11	1.2	5.5
11-JAM-259	Soil	0.3	1.7	0.07	1.2	2.5
11-JAM-206	Soil	0.3	2.2	0.05	0.7	1.5
11-JAM-222	Soil	0.4	1.7	0.10	0.5	2.1
11-JAM-242	Soil	<0.1	<0.5	0.02	0.5	1.2
11-JAM-204	Soil	0.3	1.4	0.05	0.5	1.1
11-JAM-343	Soil	<0.1	1.0	0.04	0.4	6.3
11-JAM-326	Soil	<0.1	0.8	0.02	0.3	5.7
11-JAM-335	Soil	<0.1	1.0	0.02	0.3	10.1
11-JAM-253	Soil	0.2	0.6	0.03	0.7	0.7
11-JAM-243	Soil	0.1	0.9	0.02	0.7	0.9
11-JAM-217	Soil	0.2	<0.5	0.04	0.4	2.8
11-JAM-328	Soil	<0.1	0.9	0.06	0.4	10.1
11-JAM-264	Soil	2.1	2.5	0.17	2.8	0.6
11-JAM-267	Soil	0.3	7.4	0.05	0.4	0.8
11-JAM-327	Soil	1.3	0.6	0.10	1.3	6.6
11-JAM-336	Soil	<0.1	0.9	0.05	0.3	5.4
11-JAM-213	Soil	0.3	0.8	0.02	0.3	<0.5
11-JAM-216	Soil	<0.1	0.7	0.01	0.3	<0.5
11-JAM-329	Soil	<0.1	2.7	0.13	0.4	15.0
11-JAM-214	Soil	<0.1	<0.5	0.02	0.2	<0.5
11-JAM-209	Soil	0.2	2.2	0.06	0.5	0.5
11-JAM-211	Soil	0.5	0.6	0.03	0.2	<0.5
11-JAM-240	Soil	<0.1	2.0	0.04	0.5	<0.5
11-JAM-339	Soil	<0.1	2.8	0.04	0.2	8.0
11-JAM-330	Soil	<0.1	2.8	0.06	0.4	5.8
11-JAM-324	Soil	<0.1	4.0	0.15	0.3	17.4
11-JAM-270	Soil	0.6	2.3	0.12	0.8	4.4
11-JAM-200	Soil	0.2	0.8	0.04	0.3	0.5



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	Method	Analyte	Unit	MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B			
					Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02
11-JAM-247	Soil			1846	7	6.5	12.1	17.4	8.4	103.5	168.7	3	243.9	5.1	44.1	14.9	230	6.3	454.9	64.5	395.3	283.9	48.02	
11-JAM-331	Soil			890	4	3.6	4.3	13.6	8.7	69.8	104.9	2	101.9	2.9	18.5	6.6	260	1.7	373.3	24.4	43.6	68.9	8.37	
11-JAM-205	Soil			1606	4	4.9	12.1	19.8	10.5	141.7	184.8	3	140.8	6.1	31.4	6.9	233	11.7	488.5	23.0	83.2	120.8	12.42	
11-JAM-332	Soil			878	2	3.3	5.2	14.6	7.4	42.9	115.8	3	90.5	2.2	11.5	5.5	265	2.2	317.0	20.4	42.4	70.9	8.91	
11-JAM-254	Soil			2195	4	5.3	9.8	16.3	11.2	118.7	174.4	3	167.1	5.7	40.2	10.6	291	7.3	588.6	35.9	108.7	145.9	16.68	
11-JAM-333	Soil			1515	1	0.9	3.3	7.5	3.2	12.9	45.5	<1	50.6	0.8	4.2	9.0	448	1.7	124.6	12.5	28.2	36.4	5.90	
11-JAM-224	Soil			2610	10	5.9	14.5	19.5	4.2	49.8	116.1	2	148.5	2.1	31.7	19.8	422	4.8	203.2	43.8	132.3	162.3	16.76	
11-JAM-250	Soil			1675	5	8.1	17.6	21.1	9.6	106.3	202.8	3	134.2	4.9	31.2	8.3	221	6.2	448.8	25.4	77.9	111.2	11.57	
11-JAM-338	Soil			1093	2	1.9	3.4	8.9	6.0	14.3	58.6	1	68.8	0.9	6.7	7.8	361	1.8	235.2	17.8	33.0	51.3	6.94	
11-JAM-237	Soil			1764	6	5.0	14.9	20.3	12.9	157.5	207.1	3	186.3	7.9	35.6	12.0	175	8.2	644.7	28.2	111.8	156.6	15.07	
11-JAM-244	Soil			1988	6	3.3	13.4	18.0	15.3	161.8	246.8	4	177.4	8.0	29.3	9.8	189	11.6	747.5	25.7	85.0	120.9	12.56	
11-JAM-239	Soil			1652	7	3.9	10.6	21.4	14.5	178.8	192.8	3	172.1	8.2	61.0	12.5	152	7.9	704.8	30.0	120.1	165.0	16.78	
11-JAM-341	Soil			1051	<1	2.2	3.2	9.6	4.4	11.9	46.0	1	57.2	0.8	6.5	8.7	337	2.0	197.5	16.4	33.9	49.6	7.44	
11-JAM-215	Soil			1063	2	5.2	5.5	14.2	9.8	27.9	140.8	3	123.4	1.7	13.7	3.6	178	6.5	349.8	24.3	47.8	86.1	10.35	
11-AAB-0319	Soil			426	1	10.7	4.6	19.3	8.8	15.0	52.3	3	190.0	1.1	14.9	3.5	175	1.6	335.5	35.2	45.6	82.5	10.71	
11-AAB-0329	Soil			398	2	11.2	3.8	13.2	9.0	12.6	49.2	2	139.3	0.9	11.7	2.9	127	1.4	343.9	31.2	36.6	67.8	8.72	
11-AAB-0330	Soil			500	2	12.9	3.4	13.7	10.2	12.0	49.3	2	128.4	0.7	11.4	3.7	153	1.5	389.0	29.2	36.0	62.1	8.42	
11-AAB-0320	Soil			693	1	17.0	6.1	15.2	6.1	12.1	99.6	2	115.9	0.8	10.9	3.4	187	1.6	217.1	26.5	35.2	63.7	8.21	
11-AAB-0323	Soil			675	2	15.3	3.5	10.1	14.7	8.8	57.2	1	90.8	0.7	9.1	3.1	116	1.0	606.4	25.3	27.4	49.1	6.45	
11-AAB-0313	Soil			378	2	9.8	3.2	8.9	10.8	8.2	53.4	1	63.8	0.6	7.5	2.7	99	1.1	450.0	20.9	21.7	38.2	5.00	
11-AAB-0321	Soil			324	<1	7.8	2.2	6.2	10.0	5.4	37.2	<1	50.4	0.3	5.5	2.2	77	0.6	374.3	15.7	16.2	29.4	3.91	
11-AAB-0307	Soil			651	2	15.4	4.2	17.2	9.1	12.6	57.0	3	165.6	0.9	11.6	3.6	162	1.4	337.2	33.0	40.3	74.2	9.68	
11-AAB-0317	Soil			522	2	16.0	4.9	15.5	6.2	10.9	65.4	2	125.3	0.7	11.7	3.3	155	1.5	261.0	28.3	36.0	64.8	8.38	
11-AAB-0325	Soil			306	1	7.8	2.5	8.9	9.9	7.6	37.0	1	91.7	0.5	8.2	2.4	85	0.9	399.8	20.8	25.5	44.8	5.94	
11-AAB-0318	Soil			249	2	10.9	3.4	14.6	11.4	13.5	42.2	2	170.6	0.8	13.4	3.7	109	1.3	440.0	34.7	37.2	65.0	8.93	
11-JAM-248	Soil			1641	4	5.3	13.1	16.5	15.1	159.3	203.4	4	154.2	7.9	29.1	8.4	180	9.0	748.2	26.1	87.8	131.5	13.72	
11-JAM-234	Soil			1807	2	4.4	5.5	13.1	10.5	65.7	146.2	3	155.9	3.9	17.7	5.5	189	6.6	466.7	25.9	69.1	105.7	12.50	
11-JAM-334	Soil			1308	2	5.5	4.6	13.3	7.6	18.3	94.1	2	122.8	1.1	10.4	4.8	334	2.1	292.8	22.3	42.5	70.1	9.06	
11-JAM-257	Soil			974	3	5.7	5.1	12.5	10.0	31.3	96.3	2	111.3	1.8	14.4	4.1	139	3.2	387.7	24.8	47.6	82.8	9.73	
11-JAM-266	Soil			1571	5	6.4	8.5	12.4	8.0	40.0	100.8	2	98.7	2.2	19.7	7.9	624	7.1	328.3	37.0	59.8	77.0	11.17	



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	Method Analyte	Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
			Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
11-JAM-247	Soil		119.7	16.33	3.50	11.21	1.92	9.81	2.01	5.83	0.78	4.91	0.76	10.5	18.7	67.6	163	28.5	15.2	3.7
11-JAM-331	Soil		25.1	4.45	0.86	3.61	0.64	3.68	0.79	2.54	0.39	2.42	0.40	26.9	14.7	17.7	170	20.3	11.3	0.3
11-JAM-205	Soil		37.3	4.94	0.99	3.63	0.63	3.66	0.71	2.55	0.38	2.50	0.42	26.5	8.4	40.8	128	31.9	27.3	0.4
11-JAM-332	Soil		28.1	4.65	0.87	3.41	0.58	3.27	0.67	2.21	0.33	2.08	0.35	39.0	11.7	12.6	105	11.7	13.6	0.5
11-JAM-254	Soil		46.6	7.61	1.59	5.73	0.98	5.49	1.14	3.61	0.54	3.61	0.56	11.5	22.8	46.8	193	38.1	23.7	1.3
11-JAM-333	Soil		19.8	3.22	0.59	2.34	0.36	1.86	0.38	1.21	0.16	1.13	0.17	100.5	22.4	7.0	36	8.2	23.4	<0.1
11-JAM-224	Soil		46.6	8.26	1.88	6.99	1.20	6.26	1.31	3.95	0.54	3.22	0.49	20.5	57.0	80.1	315	61.3	14.8	13.2
11-JAM-250	Soil		34.4	5.35	1.08	3.85	0.69	3.90	0.83	2.53	0.39	2.59	0.43	23.7	12.1	84.7	217	25.8	14.5	2.5
11-JAM-338	Soil		24.6	3.86	0.74	2.97	0.47	2.81	0.59	1.71	0.26	1.68	0.28	66.0	20.3	11.6	57	13.1	23.4	0.2
11-JAM-237	Soil		42.0	5.81	1.21	4.30	0.72	4.03	0.92	2.91	0.44	3.02	0.50	16.3	11.4	74.8	175	23.0	10.9	2.3
11-JAM-244	Soil		36.4	5.12	1.18	3.77	0.66	3.96	0.83	2.67	0.45	2.96	0.49	9.7	9.2	28.6	114	19.4	13.2	0.6
11-JAM-239	Soil		44.1	6.34	1.25	4.81	0.79	4.26	0.98	3.06	0.52	3.42	0.57	9.4	10.5	71.3	147	21.7	16.1	0.9
11-JAM-341	Soil		27.7	4.05	0.80	2.88	0.45	2.38	0.50	1.49	0.23	1.50	0.22	65.5	26.4	9.9	46	10.5	17.4	<0.1
11-JAM-215	Soil		33.4	5.53	1.11	4.13	0.73	3.62	0.89	2.54	0.42	2.60	0.43	11.1	6.2	15.4	114	16.3	10.5	1.0
11-AAB-0319	Soil		38.4	6.66	1.53	5.53	0.97	5.18	1.23	3.65	0.54	3.27	0.55	0.9	12.1	17.1	86	29.7	14.6	0.2
11-AAB-0329	Soil		30.7	5.62	1.20	5.01	0.87	4.70	1.07	3.28	0.48	2.94	0.50	0.9	10.0	15.5	89	28.9	13.3	0.4
11-AAB-0330	Soil		29.6	5.41	1.14	4.46	0.77	4.36	1.00	2.88	0.43	2.91	0.47	1.5	12.4	17.2	103	34.0	14.8	0.5
11-AAB-0320	Soil		28.8	5.13	1.21	4.26	0.75	4.25	0.96	2.96	0.45	2.82	0.46	0.9	19.6	15.9	146	40.9	16.7	0.2
11-AAB-0323	Soil		22.7	4.39	0.98	3.94	0.68	3.75	0.84	2.54	0.42	2.53	0.44	1.0	14.3	13.4	109	35.6	19.9	0.4
11-AAB-0313	Soil		16.7	3.29	0.78	2.99	0.55	3.16	0.74	2.14	0.37	2.17	0.38	0.5	9.9	9.4	93	24.4	8.5	0.1
11-AAB-0321	Soil		14.9	2.64	0.64	2.47	0.44	2.31	0.55	1.62	0.25	1.69	0.29	0.7	8.3	8.8	64	17.5	9.4	0.2
11-AAB-0307	Soil		33.4	6.14	1.40	5.45	0.91	5.18	1.15	3.37	0.53	3.21	0.53	1.0	12.5	18.8	100	29.8	20.0	0.3
11-AAB-0317	Soil		28.8	5.28	1.19	4.72	0.80	4.58	0.97	2.90	0.43	2.72	0.42	1.3	20.1	19.6	141	43.7	23.1	0.4
11-AAB-0325	Soil		21.8	4.00	0.86	3.31	0.56	2.94	0.68	2.03	0.33	2.05	0.33	0.9	10.5	10.8	80	24.0	13.1	0.3
11-AAB-0318	Soil		31.1	5.56	1.25	5.14	0.89	5.19	1.11	3.51	0.52	3.14	0.52	0.9	11.6	16.3	125	38.5	14.1	0.7
11-JAM-248	Soil		37.9	5.53	1.23	4.09	0.68	3.70	0.82	2.81	0.44	2.85	0.51	16.8	9.7	55.0	225	26.7	14.2	0.6
11-JAM-234	Soil		38.0	5.87	1.17	4.29	0.72	3.67	0.89	2.64	0.40	2.59	0.44	12.4	9.3	33.8	129	18.2	11.9	0.8
11-JAM-334	Soil		31.1	4.87	1.00	3.92	0.62	3.35	0.73	2.35	0.35	2.13	0.36	19.2	12.4	14.1	152	18.1	12.2	0.5
11-JAM-257	Soil		34.0	5.11	1.01	3.93	0.69	3.80	0.84	2.48	0.41	2.62	0.42	5.7	7.2	65.6	150	16.7	14.1	1.0
11-JAM-266	Soil		37.3	6.14	1.35	5.72	0.92	5.35	1.13	3.37	0.53	3.28	0.50	4.9	20.2	113.4	684	75.9	80.3	4.1



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-247	Soil	0.3	2.2	0.05	0.6	1.6
11-JAM-331	Soil	<0.1	1.2	0.05	0.3	4.1
11-JAM-205	Soil	0.1	1.1	0.03	0.6	0.7
11-JAM-332	Soil	<0.1	0.8	0.02	0.4	3.4
11-JAM-254	Soil	0.2	<0.5	0.10	0.8	1.7
11-JAM-333	Soil	<0.1	1.3	0.03	0.6	4.9
11-JAM-224	Soil	2.2	0.7	0.26	0.9	3.6
11-JAM-250	Soil	0.6	0.8	0.04	0.7	1.1
11-JAM-338	Soil	<0.1	0.7	0.06	0.4	5.7
11-JAM-237	Soil	0.2	0.6	0.02	0.6	0.6
11-JAM-244	Soil	0.2	<0.5	0.03	0.5	1.1
11-JAM-239	Soil	0.2	<0.5	0.04	0.6	1.1
11-JAM-341	Soil	0.2	<0.5	0.06	0.3	10.8
11-JAM-215	Soil	0.2	<0.5	0.02	0.2	0.7
11-AAB-0319	Soil	0.1	<0.5	0.06	<0.1	0.9
11-AAB-0329	Soil	0.2	<0.5	0.04	<0.1	1.5
11-AAB-0330	Soil	0.3	<0.5	0.06	<0.1	1.5
11-AAB-0320	Soil	<0.1	<0.5	0.05	<0.1	0.7
11-AAB-0323	Soil	0.1	<0.5	0.05	<0.1	0.7
11-AAB-0313	Soil	<0.1	0.9	0.05	<0.1	0.5
11-AAB-0321	Soil	<0.1	<0.5	0.03	<0.1	0.6
11-AAB-0307	Soil	0.2	<0.5	0.07	<0.1	1.8
11-AAB-0317	Soil	0.2	<0.5	0.07	<0.1	1.7
11-AAB-0325	Soil	0.1	<0.5	0.05	<0.1	0.9
11-AAB-0318	Soil	0.3	<0.5	0.05	<0.1	1.6
11-JAM-248	Soil	<0.1	<0.5	0.02	0.5	1.3
11-JAM-234	Soil	0.1	<0.5	0.05	0.3	0.9
11-JAM-334	Soil	<0.1	0.6	0.04	0.4	2.6
11-JAM-257	Soil	0.3	<0.5	0.02	0.2	0.6
11-JAM-266	Soil	0.7	0.7	0.12	0.6	2.0



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-JAM-236	Soil	1296	7	4.5	9.8	18.5	12.7	143.0	164.1	3	121.6	5.8	48.4	10.7	145	12.2	645.3	24.9	92.7	132.7
11-JAM-218	Soil	2259	3	8.4	8.5	17.9	7.7	30.3	166.3	3	124.6	1.8	19.2	7.7	396	4.4	286.5	30.3	56.9	89.2
11-JAM-251	Soil	1520	3	5.2	8.6	16.7	11.1	66.0	164.6	3	144.2	3.5	17.9	5.4	200	4.8	453.4	24.9	56.6	91.1
11-JAM-221	Soil	1463	3	3.1	19.4	16.9	10.8	54.5	159.1	3	146.3	2.6	17.9	6.1	162	4.1	417.0	26.9	58.3	95.9
11-JAM-225	Soil	1890	3	4.4	8.9	16.3	7.8	50.9	146.3	2	156.1	2.5	15.7	6.7	301	4.1	320.5	24.4	61.3	91.9
11-JAM-271	Soil	4532	3	10.6	5.6	10.0	5.5	23.8	83.4	2	103.2	1.2	16.8	20.7	670	4.6	237.4	31.8	36.8	56.8
11-JAM-245	Soil	2037	4	4.4	12.8	19.1	13.8	149.6	266.1	3	161.9	7.5	29.8	9.0	235	8.1	639.2	25.2	64.4	102.1
11-JAM-226	Soil	1878	2	3.9	8.8	13.7	8.7	79.1	156.9	2	111.2	4.1	16.4	7.2	281	4.4	394.5	21.8	56.9	88.3
11-JAM-233	Soil	1903	4	5.2	10.6	16.5	8.5	55.9	159.6	3	171.4	2.8	27.7	7.2	218	4.7	346.6	24.9	82.9	115.3
11-JAM-340	Soil	1316	<1	2.4	3.1	9.8	5.2	12.7	51.8	2	69.6	0.8	6.8	9.4	375	1.9	179.7	18.7	29.3	46.1
11-JAM-249	Soil	1664	4	6.0	12.2	17.2	11.5	93.0	173.0	3	147.7	4.7	27.2	6.6	186	5.8	526.6	25.6	72.9	109.0
11-JAM-273	Soil	1951	3	7.2	3.6	9.1	5.0	24.1	61.3	2	61.6	1.3	9.6	4.7	339	4.1	199.8	25.9	33.6	55.2
11-JAM-256	Soil	2263	3	3.0	12.3	14.4	6.7	65.5	161.8	3	90.2	3.2	16.3	6.4	296	11.9	298.4	17.0	40.8	66.0
11-JAM-263	Soil	813	13	6.3	9.4	13.2	8.2	88.5	95.7	2	55.6	3.5	37.1	5.9	115	11.4	378.0	22.9	60.8	87.1
11-JAM-344	Soil	1000	2	0.4	2.9	7.2	3.6	9.1	39.3	<1	50.9	0.6	4.3	7.3	285	1.7	131.8	11.7	29.4	39.9
11-JAM-230	Soil	1489	2	4.1	11.0	14.2	9.0	76.0	147.1	2	145.6	3.8	16.5	7.1	239	4.8	369.2	21.4	50.2	80.5
11-JAM-246	Soil	1317	2	4.3	7.2	13.4	9.6	50.2	116.4	2	107.8	2.8	15.9	5.3	210	4.1	374.3	22.0	56.4	86.3
11-JAM-235	Soil	1932	6	4.9	11.2	18.2	13.3	153.6	183.2	3	135.8	7.3	47.6	11.7	189	8.9	678.9	29.2	104.1	146.2
11-JAM-325	Soil	1108	2	0.7	4.6	13.2	12.2	156.5	146.2	2	36.3	6.3	26.3	12.9	364	2.1	542.2	21.2	44.9	62.2
11-JAM-212	Soil	828	2	4.9	7.7	15.1	10.2	59.6	113.1	3	140.0	3.3	15.5	4.2	141	4.9	399.6	22.0	42.5	75.4
11-JAM-220	Soil	1969	3	2.6	18.0	14.4	10.5	103.0	244.0	3	134.9	5.1	20.3	8.1	194	6.7	460.3	21.6	52.5	84.2
11-JAM-232	Soil	1640	2	3.3	10.4	14.3	11.6	84.8	200.5	3	164.7	4.4	17.8	5.9	168	5.9	508.9	22.0	49.3	82.6
11-JAM-274	Soil	3823	2	11.2	6.9	11.6	8.2	16.7	79.4	2	73.7	1.1	10.5	16.0	393	2.1	294.3	29.0	34.1	61.1
11-JAM-268	Soil	2133	2	12.1	4.4	13.6	7.3	22.4	88.0	3	149.1	1.4	14.2	4.1	240	4.2	262.4	24.8	43.2	78.5
11-JAM-265	Soil	1395	9	10.9	14.1	15.2	9.5	65.4	116.3	3	75.3	3.0	31.2	7.7	258	9.3	414.5	43.4	127.9	114.6
11-JAM-241	Soil	1891	4	5.5	9.4	15.3	8.1	67.3	137.5	2	111.5	3.8	22.8	7.1	306	5.5	338.0	21.4	55.6	88.5
11-JAM-203	Soil	1120	3	2.9	9.5	18.5	11.2	112.9	134.7	3	111.5	5.5	27.6	6.1	172	9.7	484.7	21.3	58.0	96.0
11-JAM-255	Soil	1033	5	4.5	7.2	12.7	10.4	62.9	103.1	2	93.6	3.3	17.5	4.4	156	8.8	407.6	20.4	46.4	80.1
11-JAM-282	Soil	2204	4	4.6	6.3	17.8	11.0	101.6	156.1	4	150.8	5.2	18.6	8.2	201	47.4	482.4	21.9	62.4	98.0
11-JAM-229	Soil	1423	7	4.0	17.3	21.3	13.5	196.1	206.2	4	260.3	9.3	27.3	8.8	107	11.0	671.0	25.4	62.6	106.3



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
11-JAM-236	Soil	39.7	5.49	1.12	4.22	0.72	4.33	0.86	2.57	0.40	2.97	0.47	10.6	11.8	87.0	98	23.2	15.9	1.0
11-JAM-218	Soil	37.6	6.59	1.28	5.25	0.87	4.83	1.03	3.03	0.42	3.04	0.45	15.3	29.5	47.2	233	36.9	20.6	3.9
11-JAM-251	Soil	37.4	5.68	1.12	4.19	0.72	4.15	0.85	2.70	0.41	2.96	0.46	8.6	7.2	27.8	121	19.7	11.7	0.4
11-JAM-221	Soil	39.7	6.15	1.12	4.75	0.79	4.71	0.94	2.95	0.42	3.08	0.47	11.3	7.2	30.5	92	11.1	5.5	1.5
11-JAM-225	Soil	36.7	5.44	1.15	4.42	0.70	4.07	0.81	2.48	0.36	2.54	0.37	20.6	14.9	54.9	222	29.4	11.8	1.8
11-JAM-271	Soil	28.0	4.84	1.08	4.58	0.75	4.36	0.96	2.79	0.41	2.96	0.46	11.0	31.6	69.5	638	179.3	67.2	5.1
11-JAM-245	Soil	34.1	4.76	1.08	3.78	0.66	3.98	0.87	2.83	0.43	3.29	0.50	16.0	11.4	34.3	165	31.9	17.9	0.5
11-JAM-226	Soil	34.0	4.96	0.99	3.77	0.62	3.79	0.79	2.27	0.35	2.51	0.38	21.7	10.7	45.0	164	23.7	13.3	0.5
11-JAM-233	Soil	40.9	5.86	1.22	4.54	0.75	4.59	0.85	2.54	0.38	2.68	0.40	14.9	18.0	90.2	183	24.3	10.2	2.4
11-JAM-340	Soil	24.8	4.10	0.85	3.40	0.53	2.96	0.59	1.77	0.24	1.74	0.26	101.8	24.1	10.6	54	11.6	23.4	<0.1
11-JAM-249	Soil	37.6	5.78	1.15	4.45	0.74	4.24	0.90	2.75	0.41	2.97	0.46	11.4	11.9	59.4	192	32.3	15.4	1.2
11-JAM-273	Soil	24.9	4.36	0.92	4.10	0.68	3.93	0.78	2.41	0.34	2.30	0.35	9.0	23.9	149.0	589	82.6	60.9	5.6
11-JAM-256	Soil	25.5	3.72	0.66	2.60	0.45	2.54	0.56	1.85	0.29	2.19	0.34	17.4	11.5	125.4	188	17.2	31.4	1.2
11-JAM-263	Soil	26.3	4.11	0.84	3.60	0.63	3.78	0.77	2.37	0.36	2.57	0.39	8.7	11.5	137.9	753	78.6	46.6	7.7
11-JAM-344	Soil	23.3	3.30	0.60	2.35	0.35	1.84	0.37	1.12	0.15	1.04	0.16	29.7	9.2	3.9	9	1.7	3.8	<0.1
11-JAM-230	Soil	31.0	4.69	0.95	3.52	0.60	3.60	0.76	2.34	0.36	2.48	0.38	30.9	11.3	54.9	163	22.8	14.5	0.8
11-JAM-246	Soil	32.2	4.94	1.00	4.07	0.66	3.80	0.78	2.41	0.37	2.60	0.40	9.1	10.7	42.8	114	23.8	14.4	0.5
11-JAM-235	Soil	44.9	6.45	1.27	4.79	0.82	4.80	1.02	3.05	0.48	3.48	0.54	12.0	16.5	106.7	260	35.7	18.1	2.5
11-JAM-325	Soil	26.0	4.01	0.69	3.37	0.56	3.43	0.67	2.18	0.34	2.70	0.42	81.0	32.4	24.1	51	11.3	19.2	0.2
11-JAM-212	Soil	30.2	4.73	0.92	3.69	0.64	3.89	0.78	2.50	0.38	2.70	0.42	34.8	8.2	34.5	110	15.2	13.2	0.6
11-JAM-220	Soil	30.2	4.79	0.86	3.59	0.60	3.55	0.75	2.46	0.38	2.55	0.41	10.3	8.6	27.8	101	12.0	4.7	1.3
11-JAM-232	Soil	30.3	4.92	0.91	3.66	0.61	3.79	0.75	2.42	0.37	2.62	0.43	13.9	8.4	35.4	109	12.5	7.6	1.6
11-JAM-274	Soil	32.6	6.05	1.28	5.20	0.83	4.87	1.01	2.90	0.43	3.09	0.49	18.9	18.5	60.9	241	57.9	36.8	3.0
11-JAM-268	Soil	32.3	5.59	1.12	4.70	0.75	4.40	0.91	2.75	0.39	2.76	0.41	3.3	16.4	46.9	328	47.2	35.9	2.0
11-JAM-265	Soil	49.3	7.89	1.51	6.68	1.09	6.62	1.32	3.97	0.55	3.80	0.58	3.5	26.5	101.1	455	68.5	173.0	4.0
11-JAM-241	Soil	32.1	5.02	1.00	3.60	0.64	3.64	0.71	2.23	0.35	2.47	0.38	15.1	16.4	39.4	170	36.9	22.3	1.0
11-JAM-203	Soil	33.3	4.87	0.87	3.67	0.61	3.74	0.75	2.36	0.35	2.55	0.42	35.3	8.1	56.3	138	19.8	19.6	0.9
11-JAM-255	Soil	30.9	4.67	0.87	3.45	0.57	3.48	0.74	2.24	0.36	2.47	0.38	7.4	6.4	125.1	296	17.9	24.2	1.2
11-JAM-282	Soil	34.0	5.24	1.05	4.01	0.66	3.94	0.79	2.49	0.38	2.64	0.42	13.5	11.1	31.1	511	42.9	16.6	2.3
11-JAM-229	Soil	34.6	5.16	1.18	3.92	0.70	4.35	0.91	2.83	0.43	3.10	0.49	39.5	9.5	84.1	451	16.2	21.1	0.8



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-236	Soil	0.1	1.5	0.06	0.4	1.3
11-JAM-218	Soil	0.6	2.9	0.07	0.6	1.4
11-JAM-251	Soil	<0.1	1.1	<0.01	0.5	0.7
11-JAM-221	Soil	0.3	1.4	0.02	0.4	<0.5
11-JAM-225	Soil	0.2	0.9	0.04	0.7	1.3
11-JAM-271	Soil	0.7	2.5	0.15	0.8	6.2
11-JAM-245	Soil	0.1	0.8	0.01	0.7	0.9
11-JAM-226	Soil	0.2	1.9	0.04	0.8	1.6
11-JAM-233	Soil	0.8	1.2	0.05	0.5	1.1
11-JAM-340	Soil	0.4	2.1	0.09	0.4	8.1
11-JAM-249	Soil	0.6	0.6	0.05	0.6	1.0
11-JAM-273	Soil	0.7	1.0	0.26	1.0	1.4
11-JAM-256	Soil	0.4	1.9	0.02	1.1	1.7
11-JAM-263	Soil	1.4	2.8	0.05	1.3	<0.5
11-JAM-344	Soil	<0.1	1.3	0.02	0.4	2.8
11-JAM-230	Soil	0.2	0.6	0.02	0.7	2.8
11-JAM-246	Soil	0.2	1.6	0.03	0.5	0.9
11-JAM-235	Soil	0.3	1.9	0.06	0.7	1.7
11-JAM-325	Soil	<0.1	1.9	0.05	0.5	10.4
11-JAM-212	Soil	0.3	0.8	0.03	0.2	<0.5
11-JAM-220	Soil	0.2	1.5	<0.01	0.6	0.6
11-JAM-232	Soil	0.3	0.9	0.02	0.3	0.8
11-JAM-274	Soil	1.2	2.4	0.21	1.0	2.7
11-JAM-268	Soil	0.3	1.5	0.03	0.4	<0.5
11-JAM-265	Soil	1.1	1.8	0.05	0.9	1.1
11-JAM-241	Soil	0.2	1.8	0.06	0.7	1.8
11-JAM-203	Soil	0.2	1.3	0.04	0.3	0.6
11-JAM-255	Soil	0.5	2.3	0.02	0.4	<0.5
11-JAM-282	Soil	0.3	1.6	<0.01	0.2	<0.5
11-JAM-229	Soil	0.3	16.1	0.01	0.7	<0.5



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B			
					Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02
11-JAM-342	Soil			822	<1	3.4	2.8	10.0	6.5	15.3	63.4	2	69.2	1.1	7.7	4.9	227	1.7	249.1	15.7	31.4	54.1	6.97	
11-JAM-223	Soil			1618	2	2.0	10.4	16.2	10.8	107.1	135.6	3	134.1	5.5	33.2	10.5	237	7.1	457.2	20.3	53.8	84.0	9.34	
11-JAM-231	Soil			1765	3	4.4	10.4	14.4	9.5	93.1	158.8	2	151.7	5.2	27.3	7.8	231	5.2	464.1	23.2	71.4	106.1	11.83	
11-JAM-337	Soil			1271	3	6.1	4.4	11.0	7.5	15.2	71.9	2	92.0	1.1	10.5	6.3	256	1.7	261.0	22.8	36.6	66.6	8.35	
11-JAM-275	Soil			2523	3	9.9	4.4	11.3	5.7	25.4	65.4	2	84.2	1.5	11.9	7.2	398	3.9	211.8	28.5	40.1	67.2	8.60	
11-JAM-199	Soil			1176	3	4.7	7.9	16.4	10.3	95.9	142.8	2	130.4	5.1	17.1	5.4	148	6.9	423.8	18.9	45.4	80.4	8.85	
11-JAM-207	Soil			1370	10	5.9	10.2	20.7	12.4	164.4	175.9	3	104.8	6.9	49.1	8.8	170	12.7	585.4	26.4	106.3	170.3	14.94	
11-JAM-252	Soil			1609	3	3.6	11.6	15.8	11.9	86.3	185.8	3	160.3	4.2	31.8	7.3	191	7.2	536.8	31.6	78.5	123.7	13.05	
11-JAM-208	Soil			1283	7	7.4	11.1	17.4	11.5	140.0	148.3	3	100.4	6.2	64.0	10.2	239	8.4	584.8	24.4	95.3	147.8	14.06	
11-JAM-269	Soil			2646	2	6.7	8.3	10.3	3.2	14.4	74.5	1	275.3	0.8	9.1	2.7	341	2.9	120.5	23.6	27.3	47.9	5.95	
11-JAM-201	Soil			927	3	4.9	8.9	16.8	9.1	46.1	114.6	2	100.9	2.5	13.7	3.9	182	4.9	369.9	20.3	37.1	72.9	7.59	
11-JAM-219	Soil			1951	2	3.2	8.1	13.1	7.2	56.2	143.3	2	97.4	2.7	12.3	8.2	325	4.2	291.2	22.5	40.5	72.0	7.90	
11-JAM-202	Soil			1147	3	3.5	8.9	16.1	10.0	86.8	139.4	3	121.8	4.4	14.4	5.3	188	9.8	445.9	19.9	48.5	88.2	8.91	
11-JAM-210	Soil			1186	10	9.1	12.0	21.4	11.0	167.9	140.9	3	268.6	7.5	37.3	9.9	143	8.7	560.3	25.6	96.5	158.4	14.75	
11-JAM-262	Soil			1299	12	7.8	10.2	18.3	13.7	137.2	171.4	4	99.3	6.5	56.2	12.8	219	12.2	663.8	50.6	149.5	176.5	19.32	



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-JAM-342	Soil	24.9	3.99	0.73	2.95	0.49	2.81	0.56	1.79	0.25	1.71	0.28	43.7	13.4	11.2	57	12.1	13.2	0.1	1.0
11-JAM-223	Soil	29.1	4.53	0.87	3.27	0.54	3.27	0.67	2.17	0.33	2.30	0.38	17.7	17.5	40.3	95	15.4	6.0	3.9	1.1
11-JAM-231	Soil	36.2	5.54	1.14	4.36	0.69	4.18	0.83	2.51	0.39	2.62	0.41	18.9	14.8	71.1	211	27.4	14.2	1.2	1.8
11-JAM-337	Soil	30.6	5.25	1.02	4.43	0.71	4.13	0.81	2.35	0.36	2.27	0.35	29.3	23.0	14.9	89	25.6	15.5	0.3	0.9
11-JAM-275	Soil	32.1	5.44	1.10	4.97	0.78	4.59	0.89	2.76	0.41	2.73	0.41	11.3	25.4	135.1	580	81.4	58.5	8.9	3.4
11-JAM-199	Soil	28.0	4.56	0.82	3.49	0.58	3.37	0.70	2.25	0.33	2.31	0.37	24.4	6.8	30.3	132	18.3	13.0	0.4	0.6
11-JAM-207	Soil	44.9	5.63	0.86	4.46	0.69	4.05	0.84	2.62	0.46	2.91	0.45	21.2	10.9	57.9	171	48.2	40.6	0.7	1.2
11-JAM-252	Soil	42.7	6.48	1.32	5.26	0.84	5.01	0.97	3.00	0.52	3.19	0.49	9.1	7.1	25.7	113	16.1	9.8	0.9	1.0
11-JAM-208	Soil	41.3	5.64	0.98	4.47	0.71	4.28	0.81	2.41	0.46	2.76	0.43	26.8	17.0	87.1	224	54.3	34.9	0.7	2.3
11-JAM-269	Soil	22.9	4.17	0.85	3.85	0.55	3.49	0.66	2.13	0.36	1.98	0.31	4.6	24.6	51.1	367	79.2	52.1	4.2	3.4
11-JAM-201	Soil	25.6	4.26	0.75	3.40	0.53	3.27	0.67	2.05	0.38	2.30	0.36	49.3	10.5	31.8	147	19.2	15.3	0.3	0.5
11-JAM-219	Soil	27.2	4.27	0.88	3.69	0.58	3.65	0.70	2.12	0.36	2.17	0.34	27.9	17.3	27.1	134	24.7	21.7	0.9	2.2
11-JAM-202	Soil	30.1	4.46	0.86	3.61	0.53	3.36	0.65	1.97	0.34	2.09	0.34	30.6	8.0	22.9	189	22.9	20.1	0.6	0.8
11-JAM-210	Soil	46.8	6.79	1.41	5.23	0.78	4.60	0.84	2.52	0.44	2.72	0.41	32.2	11.6	90.2	164	32.9	18.7	0.5	1.2
11-JAM-262	Soil	61.0	9.06	1.75	7.81	1.18	7.29	1.47	4.46	0.77	4.84	0.70	26.2	19.0	300.3	722	69.3	64.4	3.7	5.0



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-342	Soil	0.2	1.6	0.04	0.2	3.6
11-JAM-223	Soil	0.4	1.9	0.02	0.5	1.0
11-JAM-231	Soil	0.6	2.4	0.05	0.7	1.1
11-JAM-337	Soil	<0.1	2.9	0.06	0.4	2.6
11-JAM-275	Soil	0.7	3.0	0.18	0.8	0.9
11-JAM-199	Soil	0.1	1.2	0.01	0.3	<0.5
11-JAM-207	Soil	0.2	4.1	0.05	0.5	0.7
11-JAM-252	Soil	0.2	2.3	0.03	0.5	<0.5
11-JAM-208	Soil	0.1	4.3	0.09	0.8	1.8
11-JAM-269	Soil	0.5	2.1	0.12	1.1	0.7
11-JAM-201	Soil	0.2	0.6	0.03	0.3	0.6
11-JAM-219	Soil	0.2	1.3	0.04	0.5	4.1
11-JAM-202	Soil	0.3	<0.5	0.03	0.3	0.7
11-JAM-210	Soil	1.1	1.1	0.10	0.5	1.0
11-JAM-262	Soil	0.9	1.8	0.13	1.0	1.1



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QUALITY CONTROL REPORT

VAN11003254.1

Method Analyte Unit MDL		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
Pulp Duplicates																				
11-AAB-0257	Soil	497	2	8.5	3.1	11.1	12.8	10.3	42.5	2	105.3	0.6	8.5	2.8	109	1.1	502.6	24.7	26.8	49.3
REP 11-AAB-0257	QC	421	1	8.6	2.8	9.7	14.0	10.8	41.9	2	105.1	0.7	9.1	2.7	105	1.0	506.9	24.4	26.6	49.6
11-AAB-0278	Soil	313	1	21.0	2.4	7.7	7.5	6.9	38.8	1	69.8	0.4	6.2	2.3	77	0.7	293.8	19.4	18.9	37.7
REP 11-AAB-0278	QC																			
11-MGB-282	Soil	627	7	7.7	7.9	16.8	6.7	14.1	98.5	5	202.7	1.4	16.2	4.5	81	2.2	235.2	26.0	43.9	89.6
REP 11-MGB-282	QC	636	5	7.8	7.8	15.9	7.1	14.4	99.1	4	203.8	1.3	15.8	4.7	85	2.6	258.0	26.0	46.0	93.9
11-JAM-280	Soil	2912	10	4.4	4.4	19.6	12.3	128.5	200.5	4	159.0	5.8	17.6	8.8	299	23.8	612.9	24.5	68.5	116.2
REP 11-JAM-280	QC																			
11-JAM-314	Soil	813	5	2.9	14.2	20.0	12.5	164.5	276.1	3	95.2	7.1	25.7	4.8	148	2.0	512.0	21.3	49.1	80.4
REP 11-JAM-314	QC																			
11-AAB-0288	Soil	117	<1	3.2	1.2	2.9	12.1	3.2	20.2	<1	25.5	0.2	3.1	1.8	32	<0.5	427.3	9.9	8.9	16.2
REP 11-AAB-0288	QC	107	<1	3.1	1.1	3.0	12.5	3.6	20.8	<1	26.3	0.3	3.0	1.8	29	<0.5	468.7	10.6	10.1	18.1
11-AAB-0315	Soil	702	1	11.0	3.5	11.5	9.9	8.9	54.8	2	89.6	0.7	9.0	3.1	130	1.1	348.3	23.6	24.4	45.6
REP 11-AAB-0315	QC																			
11-JAM-211	Soil	934	3	3.4	5.5	18.7	10.7	82.2	88.6	3	222.8	4.5	19.0	6.0	122	7.3	463.7	22.1	56.3	92.9
REP 11-JAM-211	QC	903	4	3.2	5.6	18.4	10.8	80.8	86.1	4	213.8	4.2	18.2	5.6	121	6.5	462.9	22.0	57.4	91.2
11-JAM-332	Soil	878	2	3.3	5.2	14.6	7.4	42.9	115.8	3	90.5	2.2	11.5	5.5	265	2.2	317.0	20.4	42.4	70.9
REP 11-JAM-332	QC																			
11-JAM-237	Soil	1764	6	5.0	14.9	20.3	12.9	157.5	207.1	3	186.3	7.9	35.6	12.0	175	8.2	644.7	28.2	111.8	156.6
REP 11-JAM-237	QC	1760	5	5.2	15.8	20.8	12.6	153.9	206.0	3	185.3	7.4	34.2	11.9	174	8.5	593.0	27.8	117.8	163.5
11-JAM-218	Soil	2259	3	8.4	8.5	17.9	7.7	30.3	166.3	3	124.6	1.8	19.2	7.7	396	4.4	286.5	30.3	56.9	89.2
REP 11-JAM-218	QC	2318	3	7.7	8.8	17.3	7.9	33.9	162.5	3	121.5	2.0	19.7	8.3	381	4.9	296.9	28.5	57.5	90.7
11-JAM-251	Soil	1520	3	5.2	8.6	16.7	11.1	66.0	164.6	3	144.2	3.5	17.9	5.4	200	4.8	453.4	24.9	56.6	91.1
REP 11-JAM-251	QC																			
Reference Materials																				
STD DS8	Standard																			
STD DS8	Standard																			
STD DS8	Standard																			



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Client: **Mackevoy Geosciences**

537 Kenneth Street

Victoria BC V8Z 2B6 Canada

Project: TING PROP C

Report Date: August 31, 2011

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

VAN11003254.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
Pulp Duplicates																				
11-AAB-0257	Soil	21.6	4.36	0.90	3.65	0.65	3.90	0.80	2.44	0.39	2.52	0.42	0.9	7.9	11.8	67	20.9	11.1	0.4	0.2
REP 11-AAB-0257	QC	23.5	4.30	0.90	3.76	0.65	3.85	0.80	2.34	0.39	2.71	0.41								
11-AAB-0278	Soil	17.7	3.41	0.81	3.46	0.57	3.24	0.71	1.98	0.29	1.84	0.29	1.0	11.6	12.1	107	41.8	13.6	0.4	0.1
REP 11-AAB-0278	QC												1.0	11.3	11.4	104	40.8	14.3	0.3	0.2
11-MGB-282	Soil	37.8	6.25	1.28	5.27	0.82	4.57	0.92	2.50	0.38	2.71	0.38	0.5	11.2	12.8	82	14.8	3.3	0.4	0.2
REP 11-MGB-282	QC	39.2	6.88	1.31	5.39	0.85	4.71	0.89	2.62	0.42	2.77	0.38								
11-JAM-280	Soil	31.5	4.80	0.91	3.72	0.61	3.72	0.73	2.28	0.37	2.31	0.37	9.9	8.8	25.0	347	42.4	14.7	2.2	4.3
REP 11-JAM-280	QC												10.3	9.1	24.1	338	40.8	13.7	2.5	4.0
11-JAM-314	Soil	27.9	4.44	0.78	3.59	0.60	3.56	0.77	2.43	0.41	2.85	0.45	6.4	4.5	22.2	117	11.4	4.9	0.4	0.4
REP 11-JAM-314	QC												6.4	4.3	22.1	119	11.3	5.0	0.3	0.4
11-AAB-0288	Soil	8.1	1.52	0.35	1.31	0.24	1.52	0.34	1.08	0.18	1.24	0.23	0.5	4.0	4.0	25	10.6	4.8	0.2	<0.1
REP 11-AAB-0288	QC	9.0	1.70	0.37	1.61	0.28	1.74	0.36	1.11	0.19	1.36	0.23								
11-AAB-0315	Soil	21.7	4.30	0.97	4.05	0.70	4.18	0.84	2.53	0.38	2.68	0.42	1.2	14.3	14.9	110	25.0	16.5	0.1	0.2
REP 11-AAB-0315	QC												1.0	14.0	14.6	115	25.0	16.7	0.2	0.2
11-JAM-211	Soil	36.0	5.72	1.09	4.24	0.68	4.01	0.83	2.52	0.39	2.84	0.44	18.5	6.9	47.5	46	6.3	5.7	0.6	0.4
REP 11-JAM-211	QC	35.3	5.36	1.09	4.05	0.67	4.19	0.85	2.60	0.38	2.78	0.44								
11-JAM-332	Soil	28.1	4.65	0.87	3.41	0.58	3.27	0.67	2.21	0.33	2.08	0.35	39.0	11.7	12.6	105	11.7	13.6	0.5	1.3
REP 11-JAM-332	QC												39.3	11.1	12.8	102	11.8	13.4	0.5	1.2
11-JAM-237	Soil	42.0	5.81	1.21	4.30	0.72	4.03	0.92	2.91	0.44	3.02	0.50	16.3	11.4	74.8	175	23.0	10.9	2.3	0.9
REP 11-JAM-237	QC	42.7	5.84	1.16	4.40	0.75	3.98	0.89	2.85	0.46	3.05	0.51								
11-JAM-218	Soil	37.6	6.59	1.28	5.25	0.87	4.83	1.03	3.03	0.42	3.04	0.45	15.3	29.5	47.2	233	36.9	20.6	3.9	0.9
REP 11-JAM-218	QC	38.4	6.56	1.35	5.33	0.89	5.04	1.03	2.92	0.43	2.92	0.45								
11-JAM-251	Soil	37.4	5.68	1.12	4.19	0.72	4.15	0.85	2.70	0.41	2.96	0.46	8.6	7.2	27.8	121	19.7	11.7	0.4	1.1
REP 11-JAM-251	QC												9.2	7.8	28.7	123	20.6	11.8	0.7	1.1
Reference Materials																				
STD DS8	Standard												14.4	114.6	125.0	312	39.9	25.8	2.2	4.0
STD DS8	Standard												13.5	112.3	137.4	325	40.2	26.1	2.8	4.8
STD DS8	Standard												14.4	111.9	137.6	341	39.5	28.0	2.7	4.8



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Report Date: August 31, 2011

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QUALITY CONTROL REPORT

VAN11003254.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
Pulp Duplicates						
11-AAB-0257	Soil	0.1	2.9	0.03	<0.1	0.7
REP 11-AAB-0257	QC					
11-AAB-0278	Soil	0.1	<0.5	0.04	<0.1	0.7
REP 11-AAB-0278	QC	<0.1	<0.5	0.04	<0.1	0.9
11-MGB-282	Soil	<0.1	0.7	0.04	0.3	<0.5
REP 11-MGB-282	QC					
11-JAM-280	Soil	<0.1	<0.5	<0.01	0.2	<0.5
REP 11-JAM-280	QC	<0.1	1.9	<0.01	0.2	0.6
11-JAM-314	Soil	<0.1	0.7	0.03	0.6	<0.5
REP 11-JAM-314	QC	<0.1	1.7	<0.01	0.6	<0.5
11-AAB-0288	Soil	<0.1	0.8	<0.01	<0.1	<0.5
REP 11-AAB-0288	QC					
11-AAB-0315	Soil	0.1	1.9	0.06	<0.1	1.2
REP 11-AAB-0315	QC	0.1	1.3	0.05	<0.1	0.6
11-JAM-211	Soil	0.5	0.6	0.03	0.2	<0.5
REP 11-JAM-211	QC					
11-JAM-332	Soil	<0.1	0.8	0.02	0.4	3.4
REP 11-JAM-332	QC	<0.1	7.5	0.02	0.4	2.9
11-JAM-237	Soil	0.2	0.6	0.02	0.6	0.6
REP 11-JAM-237	QC					
11-JAM-218	Soil	0.6	2.9	0.07	0.6	1.4
REP 11-JAM-218	QC					
11-JAM-251	Soil	<0.1	1.1	<0.01	0.5	0.7
REP 11-JAM-251	QC	<0.1	<0.5	0.01	0.6	0.8
Reference Materials						
STD DS8	Standard	1.7	156.0	0.24	5.1	5.2
STD DS8	Standard	1.9	118.3	0.23	5.8	5.4
STD DS8	Standard	2.1	116.8	0.23	6.0	5.5



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QUALITY CONTROL REPORT

VAN11003254.1

		4B Ba ppm 1	4B Be ppm 1	4B Co ppm 0.2	4B Cs ppm 0.1	4B Ga ppm 0.5	4B Hf ppm 0.1	4B Nb ppm 0.1	4B Rb ppm 0.1	4B Sn ppm 1	4B Sr ppm 0.5	4B Ta ppm 0.1	4B Th ppm 0.2	4B U ppm 0.1	4B V ppm 8	4B W ppm 0.5	4B Zr ppm 0.1	4B Y ppm 0.1	4B La ppm 0.1	4B Ce ppm 0.1	4B Pr ppm 0.02
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD SO-18	Standard	522	1	27.0	6.8	18.0	9.4	20.8	28.1	15	405.0	7.2	10.0	15.0	202	14.0	287.4	31.5	12.7	29.3	3.54
STD SO-18	Standard	516	1	26.1	7.0	17.5	9.2	20.6	28.3	15	398.9	7.2	10.8	15.1	206	14.5	288.5	31.2	12.7	28.6	3.41
STD SO-18	Standard	516	1	24.0	7.0	16.2	8.7	19.2	27.3	14	397.3	6.7	10.0	15.2	184	13.7	279.1	30.7	12.4	26.1	3.35
STD SO-18	Standard	532	2	27.5	7.3	17.5	9.4	20.7	29.0	15	413.7	7.1	11.0	16.9	202	15.4	297.2	32.2	13.0	27.5	3.47
STD SO-18	Standard	516	<1	26.1	6.9	16.5	9.2	19.4	26.9	15	418.0	7.0	10.5	16.0	207	13.9	274.2	29.6	12.0	26.0	3.40
STD SO-18	Standard	500	<1	25.5	6.5	16.3	8.9	19.2	26.6	14	376.2	6.6	10.8	15.9	204	14.0	264.4	29.5	11.5	25.2	3.24
STD SO-18	Standard	509	<1	26.5	6.9	17.3	9.6	19.8	27.0	15	398.1	7.2	10.5	16.9	211	14.5	283.3	30.4	12.3	26.4	3.42
STD SO-18	Standard	524	<1	27.1	7.0	17.2	10.0	20.3	27.7	15	403.1	7.2	10.9	16.7	211	15.2	288.2	31.1	12.2	26.6	3.51
STD SO-18	Standard	546	1	28.3	7.4	17.4	9.8	20.5	28.3	16	416.4	7.3	10.9	17.4	221	15.2	291.8	31.3	12.6	27.4	3.59
STD SO-18	Standard	535	1	27.6	7.2	17.4	9.8	20.2	28.2	15	410.4	7.4	10.7	17.3	218	15.3	291.7	31.1	12.5	26.1	3.51
STD SO-18	Standard	547	2	28.6	7.3	18.1	10.1	21.5	28.9	15	440.9	7.6	11.6	17.0	217	14.9	297.7	34.2	13.7	27.9	3.73
STD SO-18	Standard	544	<1	27.6	7.3	18.4	9.6	21.2	28.8	15	431.9	7.4	11.6	16.9	233	14.6	295.1	34.1	13.7	27.7	3.68
STD SO-18	Standard	532	1	27.0	7.2	18.4	10.0	21.9	29.2	15	422.6	7.4	10.3	16.1	209	14.9	304.1	33.6	12.6	29.4	3.53
STD SO-18	Standard	529	<1	26.2	7.3	17.7	9.6	21.1	28.6	14	410.6	7.1	10.4	15.7	202	14.3	293.9	32.8	12.4	27.3	3.39
STD SO-18 Expected		514	1	26.2	7.1	17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1	3.45
STD DS8 Expected																					



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QUALITY CONTROL REPORT

VAN11003254.1

		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
STD DS8	Standard												12.6	113.6	128.0	337	39.7	27.5	2.3
STD DS8	Standard												14.5	108.1	127.0	336	36.5	25.9	2.6
STD DS8	Standard												15.7	114.1	138.2	328	40.9	25.2	2.3
STD DS8	Standard												13.2	115.4	128.5	322	39.2	25.0	2.3
STD DS8	Standard												13.0	113.0	121.5	308	38.2	26.0	2.6
STD OREAS45CA	Standard												0.8	533.6	21.7	62	261.5	3.9	0.1
STD OREAS45CA	Standard												0.8	559.8	24.3	66	269.5	3.8	0.2
STD OREAS45CA	Standard												0.7	536.6	25.5	69	256.6	3.6	0.1
STD OREAS45CA	Standard												0.9	529.2	24.6	65	253.3	3.9	0.1
STD OREAS45CA	Standard												0.9	547.0	22.1	68	275.2	3.6	0.2
STD OREAS45CA	Standard												0.8	522.9	21.6	64	265.0	3.3	<0.1
STD OREAS45CA	Standard												0.8	514.5	22.5	63	248.2	3.3	<0.1
STD OREAS45CA	Standard												0.9	503.8	20.5	63	252.6	3.1	0.1
STD SO-18	Standard	14.1	3.07	0.92	3.08	0.52	3.01	0.67	1.90	0.29	1.86	0.28							
STD SO-18	Standard	14.1	2.99	0.92	3.04	0.52	3.20	0.66	1.96	0.28	1.85	0.28							
STD SO-18	Standard	13.3	2.81	0.85	2.81	0.49	2.73	0.62	1.75	0.27	1.63	0.27							
STD SO-18	Standard	13.7	2.99	0.91	2.94	0.51	3.10	0.64	1.89	0.28	1.80	0.28							
STD SO-18	Standard	13.7	2.95	0.90	3.00	0.51	3.10	0.65	1.85	0.27	1.89	0.28							
STD SO-18	Standard	13.5	2.80	0.84	2.85	0.48	2.96	0.61	1.81	0.26	1.74	0.27							
STD SO-18	Standard	13.4	2.96	0.91	2.97	0.50	3.12	0.65	1.85	0.28	1.83	0.28							
STD SO-18	Standard	13.9	2.98	0.93	2.98	0.52	3.12	0.67	1.97	0.29	1.94	0.29							
STD SO-18	Standard	14.7	3.10	0.94	3.13	0.54	3.19	0.67	2.04	0.29	1.90	0.29							
STD SO-18	Standard	14.1	3.01	0.93	3.07	0.52	3.16	0.67	1.91	0.28	1.93	0.28							
STD SO-18	Standard	14.9	3.05	0.96	3.03	0.55	3.14	0.72	1.92	0.30	1.80	0.29							
STD SO-18	Standard	14.2	3.06	0.96	3.08	0.56	3.25	0.70	2.02	0.28	1.86	0.30							
STD SO-18	Standard	14.1	3.09	0.93	3.14	0.53	3.01	0.65	1.92	0.31	1.86	0.28							
STD SO-18	Standard	14.4	3.03	0.91	3.05	0.50	3.06	0.62	1.86	0.30	1.83	0.27							
STD SO-18 Expected		14	3	0.89	2.93	0.53	3	0.62	1.84	0.27	1.79	0.27							
STD DS8 Expected													13.44	110	123	312	38.1	26	2.38
																		4.8	6.67



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QUALITY CONTROL REPORT

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		1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
STD DS8	Standard	2.1	106.0	0.22	5.7	6.0
STD DS8	Standard	2.4	114.5	0.23	5.8	5.7
STD DS8	Standard	1.8	94.6	0.20	5.5	6.0
STD DS8	Standard	1.6	109.4	0.20	5.7	5.2
STD DS8	Standard	1.8	92.3	0.21	5.4	5.3
STD OREAS45CA	Standard	0.3	42.0	0.03	<0.1	<0.5
STD OREAS45CA	Standard	0.3	43.4	0.04	0.1	0.7
STD OREAS45CA	Standard	0.3	48.9	0.04	<0.1	0.7
STD OREAS45CA	Standard	0.3	44.7	0.04	<0.1	<0.5
STD OREAS45CA	Standard	0.3	41.9	0.04	<0.1	0.5
STD OREAS45CA	Standard	0.3	35.1	0.04	<0.1	<0.5
STD OREAS45CA	Standard	0.3	35.9	0.03	<0.1	<0.5
STD OREAS45CA	Standard	0.3	36.5	0.03	<0.1	0.5
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18 Expected						
STD DS8 Expected		1.69	107	0.192	5.4	5.23



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QUALITY CONTROL REPORT

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		4B Ba ppm 1	4B Be ppm 1	4B Co ppm 0.2	4B Cs ppm 0.1	4B Ga ppm 0.5	4B Hf ppm 0.1	4B Nb ppm 0.1	4B Rb ppm 0.1	4B Sn ppm 1	4B Sr ppm 0.5	4B Ta ppm 0.1	4B Th ppm 0.2	4B U ppm 0.1	4B V ppm 8	4B W ppm 0.5	4B Zr ppm 0.1	4B Y ppm 0.1	4B La ppm 0.1	4B Ce ppm 0.1	4B Pr ppm 0.02
STD OREAS45CA Expected																					
BLK	Blank																				
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.8	<0.1	<0.1	<0.1	<0.02
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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537 Kenneth Street

Victoria BC V8Z 2B6 Canada

Project: TING PROP C

Report Date: August 31, 2011

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

VAN11003254.1

		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
STD OREAS45CA Expected													1	494	20	60	240	3.8	0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01	<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1



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Project: TING PROP C

Report Date: August 31, 2011

Page: 3 of 3 **Part** 3

QUALITY CONTROL REPORT

VAN11003254.1

		1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
STD OREAS45CA Expected		0.275	43	0.03	0.07	0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5



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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: July 18, 2011

Report Date: August 28, 2011

Page: 1 of 5

CERTIFICATE OF ANALYSIS

VAN11003255.1

CLIENT JOB INFORMATION

Project: TING PROP C
Shipment ID: Greyhound51737223543
P.O. Number
Number of Samples: 100

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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: Harsbo Minerals Ltd.
4758 Victory Street
Burnaby BC V5J 1S2
Canada

CC: David Turner
Lee A. Groat
Thomas Hasek
Michael Burns

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	100	Dry at 60C			VAN
SS80	100	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	100	Saving all or part of Soil Reject			VAN
4B02	100	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	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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537 Kenneth Street
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Project: TING PROP C
Report Date: August 28, 2011

Page: 2 of 5 Part 1

CERTIFICATE OF ANALYSIS

VAN11003255.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-MGB-301	Soil	1915	2	22.8	5.3	16.9	7.6	13.0	79.5	2	200.3	0.8	11.1	4.7	189	1.1	297.0	28.8	40.6
11-MGB-297	Soil	2213	2	21.8	4.5	12.2	9.6	11.7	71.1	2	161.4	0.7	9.9	5.4	175	1.0	345.0	26.2	33.0
11-MGB-305	Soil	4136	<1	8.2	2.7	8.9	5.8	11.2	53.0	2	106.4	0.7	7.5	2.8	202	0.7	228.7	22.0	28.0
11-MGB-315	Soil	3347	1	19.3	4.8	10.2	3.0	6.9	78.1	1	65.1	0.5	7.2	8.7	397	0.7	113.7	23.2	23.0
11-MGB-312	Soil	3118	2	5.2	7.4	13.0	3.5	12.7	89.9	2	90.4	0.7	10.2	7.4	502	1.6	117.6	41.9	38.6
11-MGB-306	Soil	4081	<1	16.4	3.4	10.5	5.5	11.6	62.9	2	109.6	0.8	8.9	3.9	226	1.1	212.2	24.5	33.3
11-MGB-318	Soil	4391	1	20.1	6.4	10.9	5.0	7.6	79.6	2	88.4	0.5	7.2	18.1	469	1.0	175.7	28.0	27.6
11-AAB-0356	Soil	350	<1	6.8	2.1	5.8	7.2	7.8	36.4	1	54.6	0.4	5.5	2.5	73	<0.5	296.5	19.3	18.9
11-AAB-0355	Soil	318	<1	6.6	1.9	6.0	19.0	8.3	37.5	1	53.6	0.5	5.7	3.1	73	0.7	743.4	23.4	21.0
11-AAB-0365	Soil	459	2	14.1	3.2	10.0	10.4	8.8	57.3	1	69.1	0.6	8.0	2.7	103	0.8	401.8	24.0	24.8
11-AAB-0361	Soil	197	<1	3.7	1.3	3.3	22.9	7.9	22.7	<1	42.0	0.6	5.2	2.7	41	<0.5	914.5	22.1	15.8
11-AAB-0349	Soil	614	1	25.5	5.5	15.3	7.2	12.3	84.6	2	104.4	0.8	11.0	3.0	176	1.4	282.1	30.0	35.6
11-AAB-0363	Soil	511	2	17.3	3.9	10.2	8.0	10.0	64.1	1	85.4	0.5	9.6	3.1	126	0.9	296.3	27.2	29.7
11-AAB-0358	Soil	250	<1	7.1	1.8	5.8	8.4	5.7	32.8	<1	47.4	0.2	5.3	2.0	65	0.5	325.6	15.3	15.8
11-AAB-0357	Soil	287	<1	5.9	2.6	6.1	6.6	6.7	39.5	1	57.3	0.5	4.7	2.2	75	0.6	266.7	16.2	17.5
11-JAM-362	Soil	922	1	6.5	4.6	15.6	8.7	20.8	82.8	2	102.1	1.4	11.5	3.5	167	2.0	291.4	22.2	40.2
11-JAM-361	Soil	1029	<1	1.6	3.3	13.9	9.0	46.7	84.1	3	82.4	3.2	12.9	6.1	312	2.3	320.4	27.0	52.3
11-JAM-353	Soil	1074	2	2.0	3.1	11.2	8.3	28.0	69.7	2	97.7	1.8	11.4	5.6	265	2.1	305.0	25.9	42.7
11-JAM-351	Soil	976	2	6.8	4.1	15.4	7.0	17.1	80.2	2	109.1	1.2	13.2	5.1	255	1.4	258.1	23.1	40.2
11-JAM-360	Soil	784	2	5.2	4.4	16.1	7.5	19.5	85.4	3	90.5	1.3	11.3	3.3	175	1.9	270.0	20.5	39.0
11-JAM-355	Soil	1418	3	1.5	2.3	8.6	6.6	51.5	46.9	2	74.0	3.1	13.4	9.7	434	2.2	272.4	28.6	57.3
11-JAM-358	Soil	888	<1	3.2	4.5	16.0	8.7	22.5	108.4	2	88.9	1.6	11.6	3.8	211	2.1	304.9	22.6	38.9
11-JAM-379	Soil	3007	2	6.9	7.4	10.2	6.1	20.8	113.3	2	74.6	1.2	12.8	7.4	386	5.2	220.1	34.7	43.4
11-JAM-345	Soil	1977	3	0.9	2.6	11.1	5.5	51.0	59.6	2	98.9	2.4	16.7	11.9	451	2.2	239.2	34.6	67.4
11-JAM-350	Soil	866	2	1.4	2.4	12.6	7.6	44.5	54.2	2	73.7	2.5	13.3	7.8	356	2.7	304.2	31.7	62.3
11-JAM-357	Soil	1800	2	5.3	3.9	13.5	5.7	37.4	75.4	2	64.8	1.9	13.4	7.5	406	2.2	210.4	20.5	38.8
11-JAM-374	Soil	3784	5	6.4	7.6	12.3	8.6	74.6	151.5	2	65.7	3.2	30.6	8.3	387	9.2	391.0	36.7	69.7
11-JAM-373	Soil	2747	2	4.0	6.3	13.5	7.4	71.2	139.4	2	79.9	4.1	19.3	8.1	428	25.9	301.0	26.2	63.1
11-JAM-376	Soil	4143	7	5.3	10.3	18.3	11.7	193.5	278.1	3	108.8	10.0	60.8	15.4	235	5.1	555.4	38.9	157.9
11-JAM-377	Soil	1823	2	6.3	4.6	11.8	6.5	34.9	72.3	2	88.3	2.1	15.9	6.0	879	3.4	280.4	50.5	61.6



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Project: TING PROP C

Report Date: August 28, 2011

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CERTIFICATE OF ANALYSIS

VAN11003255.1

	Method Analyte	Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
			Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
11-MGB-301	Soil		30.8	5.50	1.33	4.79	0.83	4.38	0.94	2.74	0.44	2.71	0.47	4.1	16.4	21.7	262	49.6	18.1	1.5
11-MGB-297	Soil		28.3	4.97	1.19	4.42	0.77	4.17	0.92	2.57	0.38	2.37	0.44	21.7	15.4	18.3	573	97.7	60.1	1.4
11-MGB-305	Soil		23.7	4.24	1.03	3.68	0.64	3.32	0.81	2.16	0.30	1.89	0.33	3.7	13.5	12.4	130	28.9	12.0	0.8
11-MGB-315	Soil		20.0	3.65	0.86	3.72	0.59	3.23	0.71	2.08	0.31	1.97	0.34	6.6	25.6	11.6	647	85.2	38.9	14.7
11-MGB-312	Soil		33.0	6.38	1.51	6.19	1.02	5.34	1.20	3.20	0.46	2.89	0.47	2.3	31.6	71.4	356	51.7	18.2	6.1
11-MGB-306	Soil		28.4	4.99	1.14	4.44	0.69	3.50	0.79	2.31	0.34	1.98	0.35	4.8	19.6	17.3	238	48.9	18.0	1.9
11-MGB-318	Soil		25.6	4.51	1.09	4.16	0.71	3.90	0.92	2.42	0.36	2.25	0.39	32.5	29.0	14.4	378	70.5	45.1	3.6
11-AAB-0356	Soil		17.5	3.49	0.79	3.17	0.52	2.93	0.59	1.76	0.27	1.71	0.29	1.2	9.8	8.2	68	20.1	5.1	0.3
11-AAB-0355	Soil		18.5	3.47	0.79	3.44	0.59	3.32	0.79	2.37	0.37	2.54	0.42	1.3	9.3	7.3	72	20.0	5.0	0.3
11-AAB-0365	Soil		22.5	4.03	0.95	3.70	0.63	3.54	0.78	2.36	0.35	2.32	0.39	0.8	21.7	10.9	90	32.7	10.6	0.3
11-AAB-0361	Soil		16.5	2.96	0.65	2.83	0.51	2.86	0.72	2.30	0.36	2.37	0.45	0.5	5.0	4.2	38	10.7	2.9	0.2
11-AAB-0349	Soil		30.3	5.72	1.33	5.25	0.87	4.81	1.03	3.04	0.45	2.86	0.46	0.9	26.1	18.8	136	52.4	18.8	0.3
11-AAB-0363	Soil		27.7	5.31	1.21	4.95	0.81	4.48	0.97	2.63	0.41	2.45	0.41	1.1	21.9	15.7	99	38.2	13.9	0.3
11-AAB-0358	Soil		13.8	2.52	0.57	2.34	0.41	2.42	0.50	1.60	0.23	1.61	0.27	0.6	8.0	7.0	61	16.4	5.6	0.2
11-AAB-0357	Soil		16.2	3.02	0.67	2.56	0.46	2.42	0.52	1.59	0.22	1.58	0.27	1.6	10.4	7.6	75	19.5	6.2	0.3
11-JAM-362	Soil		28.7	4.66	0.92	3.80	0.63	3.54	0.78	2.35	0.35	2.35	0.39	9.5	11.9	17.8	114	17.2	11.9	0.3
11-JAM-361	Soil		35.8	5.46	1.01	4.22	0.72	3.86	0.88	2.54	0.38	2.42	0.41	21.8	8.8	13.4	29	4.3	7.4	0.2
11-JAM-353	Soil		29.4	4.78	1.00	4.15	0.64	3.67	0.86	2.56	0.38	2.52	0.38	25.7	13.0	13.4	53	17.5	12.7	0.2
11-JAM-351	Soil		32.0	5.19	0.99	4.04	0.65	3.69	0.80	2.29	0.35	2.32	0.36	13.4	17.3	19.1	86	26.1	14.2	0.2
11-JAM-360	Soil		29.0	4.71	0.91	3.64	0.62	3.33	0.75	2.23	0.33	2.07	0.35	8.1	11.2	20.9	92	16.5	14.8	0.4
11-JAM-355	Soil		33.9	4.80	1.17	4.43	0.69	3.85	0.86	2.29	0.36	2.25	0.34	65.5	30.2	15.4	86	23.6	24.5	0.2
11-JAM-358	Soil		30.1	4.88	0.91	3.80	0.63	3.64	0.78	2.40	0.36	2.35	0.37	8.7	5.7	16.3	50	8.7	11.5	0.3
11-JAM-379	Soil		33.5	5.75	1.32	5.35	0.89	4.93	1.01	3.05	0.45	2.81	0.49	7.6	28.4	52.0	352	69.2	26.7	4.3
11-JAM-345	Soil		39.0	6.03	1.46	5.46	0.80	4.52	0.96	2.68	0.37	2.25	0.37	90.0	26.9	36.3	105	23.3	50.3	0.3
11-JAM-350	Soil		41.7	6.21	1.33	5.20	0.82	4.48	1.00	2.87	0.43	2.63	0.40	57.5	21.3	15.5	32	6.2	15.3	<0.1
11-JAM-357	Soil		24.4	3.92	0.86	3.22	0.52	3.02	0.63	1.94	0.30	1.92	0.30	45.7	27.1	31.6	368	79.2	79.2	1.3
11-JAM-374	Soil		36.8	6.28	1.37	5.63	0.91	4.95	1.12	3.17	0.49	3.05	0.52	15.9	25.0	50.5	461	91.0	32.8	6.2
11-JAM-373	Soil		36.9	5.49	1.04	3.95	0.64	3.42	0.80	2.43	0.36	2.41	0.38	19.9	24.1	43.7	431	103.9	52.9	1.7
11-JAM-376	Soil		76.9	10.23	2.03	7.01	1.17	6.32	1.33	3.92	0.60	3.89	0.65	17.4	13.4	127.7	1085	46.3	68.6	4.8
11-JAM-377	Soil		41.6	7.18	1.65	6.69	1.07	5.87	1.37	4.01	0.55	3.58	0.57	22.4	36.2	60.0	321	70.5	81.2	7.0



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Project: TING PROP C

Report Date: August 28, 2011

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CERTIFICATE OF ANALYSIS

VAN11003255.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-MGB-301	Soil	0.3	3.8	0.07	0.1	2.2
11-MGB-297	Soil	0.3	3.7	0.08	0.2	1.1
11-MGB-305	Soil	0.1	<0.5	0.06	0.2	1.0
11-MGB-315	Soil	1.3	3.5	0.46	0.8	12.2
11-MGB-312	Soil	0.6	4.0	0.43	0.9	4.4
11-MGB-306	Soil	0.3	2.1	0.07	0.2	1.6
11-MGB-318	Soil	0.7	2.3	0.69	0.8	5.6
11-AAB-0356	Soil	<0.1	1.4	0.04	<0.1	0.9
11-AAB-0355	Soil	<0.1	0.8	0.04	<0.1	0.8
11-AAB-0365	Soil	<0.1	1.3	0.03	<0.1	0.6
11-AAB-0361	Soil	<0.1	0.8	0.02	<0.1	<0.5
11-AAB-0349	Soil	0.1	1.4	0.06	<0.1	0.8
11-AAB-0363	Soil	0.1	1.1	0.07	0.1	0.9
11-AAB-0358	Soil	<0.1	1.0	0.03	<0.1	0.6
11-AAB-0357	Soil	0.1	0.6	0.04	<0.1	1.2
11-JAM-362	Soil	3.8	4.4	0.09	0.3	1.0
11-JAM-361	Soil	0.9	<0.5	0.03	0.3	2.7
11-JAM-353	Soil	0.4	1.2	0.05	0.5	2.9
11-JAM-351	Soil	4.2	2.4	0.09	0.3	1.8
11-JAM-360	Soil	1.5	1.5	0.09	0.2	0.8
11-JAM-355	Soil	0.2	1.7	0.12	0.4	10.1
11-JAM-358	Soil	0.8	0.7	0.04	0.3	0.8
11-JAM-379	Soil	1.7	1.4	0.18	1.0	2.1
11-JAM-345	Soil	1.3	1.4	0.04	1.1	9.3
11-JAM-350	Soil	0.6	0.9	0.03	0.3	7.1
11-JAM-357	Soil	0.5	1.4	0.03	1.3	4.5
11-JAM-374	Soil	0.4	1.1	0.14	0.8	2.1
11-JAM-373	Soil	0.1	1.5	0.19	1.1	2.5
11-JAM-376	Soil	1.2	<0.5	0.03	0.5	2.1
11-JAM-377	Soil	1.7	0.8	0.07	0.7	2.6



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Project: TING PROP C

Report Date: August 28, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1
11-JAM-378	Soil	2326	3	3.1	5.6	8.3	3.2	30.7	83.1	1	69.9	1.4	13.4	11.0	286	2.7	111.9	26.2	32.4
11-JAM-380	Soil	2452	2	4.8	5.7	9.6	4.0	28.0	89.4	1	90.4	1.4	10.7	7.1	349	7.0	147.4	21.2	34.1
11-JAM-381	Soil	5328	5	9.9	14.1	15.0	5.0	43.2	197.8	2	76.4	2.6	17.7	13.9	553	22.1	208.4	34.8	63.3
11-JAM-382	Soil	2841	2	2.9	4.9	11.5	7.9	63.6	141.3	2	91.3	3.3	13.6	6.6	304	8.7	346.3	23.8	55.0
11-JAM-375	Soil	4528	1	7.8	12.1	15.8	5.0	27.7	137.9	2	74.6	1.4	16.6	7.5	443	17.8	222.7	31.1	44.9
11-JAM-388	Soil	2493	12	39.6	9.2	15.1	7.1	107.6	120.3	2	49.4	5.3	31.7	152.0	965	12.4	385.4	86.6	92.3
11-JAM-384	Soil	2083	3	2.2	7.9	16.3	6.7	56.3	157.9	2	138.4	3.5	17.3	9.6	353	4.0	277.8	23.3	71.1
11-JAM-392	Soil	4086	3	7.8	11.1	22.4	10.8	162.8	241.4	2	104.7	9.0	38.8	11.0	224	10.6	499.5	34.4	107.3
11-JAM-383	Soil	1778	1	2.6	4.0	10.3	4.8	24.0	84.9	1	69.6	1.6	8.5	5.2	299	2.9	199.3	21.0	37.4
11-JAM-385	Soil	5920	4	4.4	8.8	16.1	7.1	77.0	163.1	1	71.3	4.4	22.3	9.7	365	13.0	281.0	22.6	70.5
11-JAM-386	Soil	11513	6	18.4	11.8	20.6	9.1	144.4	232.0	2	112.9	7.7	37.5	21.5	498	38.6	453.9	29.1	121.5
11-JAM-390	Soil	4778	3	5.6	11.7	19.2	9.8	165.2	262.0	2	85.6	9.1	41.1	13.5	288	9.8	487.2	34.3	125.6
11-JAM-395	Soil	5070	5	4.3	14.3	22.9	10.2	118.2	226.8	2	110.0	6.7	44.3	18.8	311	8.4	460.1	39.6	109.4
11-JAM-389	Soil	3881	3	3.8	12.0	17.8	9.7	106.7	191.7	3	71.4	5.5	36.7	28.9	468	9.7	482.5	43.4	87.6
11-JAM-393	Soil	3252	4	6.1	9.2	19.5	12.4	105.2	182.0	3	133.4	5.3	27.7	7.6	273	11.3	519.3	28.4	78.5
11-JAM-387	Soil	4380	5	5.4	9.4	17.2	8.5	105.5	163.9	2	70.4	5.6	28.5	14.3	505	14.7	385.5	34.7	76.0
11-JAM-391	Soil	4163	4	5.2	10.9	21.5	11.4	185.8	266.3	3	112.1	9.6	36.2	12.1	267	9.0	549.8	32.8	118.2
11-JAM-369	Soil	2623	2	13.8	4.9	11.9	3.1	25.9	70.4	2	75.1	1.7	10.1	30.0	399	1.6	119.4	29.5	29.0
11-JAM-370	Soil	3532	2	14.0	5.1	11.8	4.5	27.6	81.6	1	71.8	1.7	10.6	35.2	456	2.1	159.3	31.4	30.4
11-JAM-365	Soil	1423	3	4.0	4.6	17.5	8.7	50.8	105.4	3	105.2	3.7	15.1	5.6	261	2.7	314.5	24.3	43.5
11-JAM-397	Soil	4428	4	4.4	9.2	18.5	11.5	176.7	231.6	3	103.3	10.0	42.4	14.9	181	11.8	548.8	31.0	111.4
11-MGB-323	Soil	1551	2	10.1	4.1	12.9	7.2	18.3	79.1	2	74.8	1.2	11.0	4.1	206	1.1	248.5	26.8	38.6
11-MGB-311	Soil	2048	1	9.0	4.6	11.9	6.7	17.2	75.2	<1	68.7	1.2	10.3	6.0	179	1.2	246.5	24.9	36.1
11-MGB-313	Soil	3545	2	10.5	3.5	11.1	8.4	13.1	71.2	1	83.6	0.9	9.8	9.2	239	0.7	265.8	25.1	36.2
11-MGB-298	Soil	853	1	4.7	2.8	6.4	3.3	6.0	36.7	<1	99.7	0.4	4.2	20.5	81	0.8	137.2	15.8	14.4
11-MGB-310	Soil	20951	3	2.7	7.2	17.7	4.5	9.1	120.5	2	145.8	0.7	10.1	6.8	423	1.3	164.8	22.4	59.8
11-MGB-314	Soil	3494	2	18.2	4.1	13.7	5.8	16.0	81.2	1	99.1	0.9	9.7	5.3	294	1.4	203.4	29.0	35.0
11-MGB-321	Soil	4750	<1	7.8	4.2	6.4	14.1	15.0	43.7	3	57.4	1.5	8.1	4.9	227	2.0	580.7	25.6	37.7
11-MGB-302	Soil	2588	2	23.4	3.7	16.0	5.2	11.1	75.5	1	210.2	0.7	9.4	4.6	193	1.0	165.1	22.0	29.1
11-MGB-299	Soil	329	<1	17.7	1.0	1.9	0.4	0.7	11.3	<1	24.2	<0.1	1.8	0.5	24	<0.5	14.1	4.9	4.9



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Report Date: August 28, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm 0.3	ppm 0.05	ppm 0.02	ppm 0.05	ppm 0.01	ppm 0.05	ppm 0.02	ppm 0.03	ppm 0.01	ppm 0.05	ppm 0.01	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.5	ppm 0.1
11-JAM-378	Soil	21.2	3.95	0.83	3.61	0.59	3.34	0.75	2.17	0.31	2.02	0.31	5.5	40.2	34.6	271	57.8	13.4	5.3
11-JAM-380	Soil	22.8	3.91	0.82	3.13	0.53	2.90	0.63	1.81	0.28	1.78	0.29	9.6	29.3	31.0	316	51.6	27.4	5.6
11-JAM-381	Soil	35.8	5.83	1.24	5.00	0.85	4.47	1.03	3.09	0.45	2.92	0.47	4.4	51.5	60.8	751	124.7	32.0	10.4
11-JAM-382	Soil	32.5	4.93	0.98	3.58	0.61	3.44	0.77	2.29	0.37	2.49	0.39	16.1	16.0	37.6	175	38.2	26.1	1.0
11-JAM-375	Soil	29.9	5.69	1.26	5.06	0.83	4.35	0.96	2.85	0.43	2.71	0.41	11.9	30.4	37.3	386	108.0	25.9	3.4
11-JAM-388	Soil	51.1	10.23	2.64	11.08	1.84	10.55	2.34	6.66	0.91	6.04	0.96	141.1	203.7	84.1	2397	1128	324.4	19.1
11-JAM-384	Soil	43.8	7.06	1.63	6.03	0.87	4.43	0.73	2.11	0.35	2.26	0.34	77.0	9.7	133.2	92	16.8	14.1	1.8
11-JAM-392	Soil	52.7	7.44	1.78	5.66	0.97	5.40	1.11	3.36	0.53	3.30	0.53	13.5	23.8	79.6	384	102.0	36.9	2.4
11-JAM-383	Soil	27.4	4.76	0.96	3.55	0.59	3.12	0.67	2.04	0.30	1.92	0.31	14.6	15.5	20.5	118	21.4	22.0	0.6
11-JAM-385	Soil	39.4	5.76	1.29	4.23	0.63	3.52	0.70	2.05	0.34	2.31	0.35	20.8	20.8	81.0	243	46.6	27.3	5.0
11-JAM-386	Soil	52.8	7.89	1.99	5.72	0.87	4.70	0.95	2.88	0.50	3.10	0.49	48.7	50.4	116.4	1147	282.8	203.7	1.5
11-JAM-390	Soil	60.4	8.21	1.93	6.18	0.93	4.87	1.05	3.15	0.49	3.21	0.52	27.5	35.8	102.7	359	64.2	37.9	3.1
11-JAM-395	Soil	56.0	9.14	2.01	6.99	1.14	6.17	1.27	3.71	0.60	3.53	0.59	14.3	27.0	68.4	417	101.4	40.9	3.5
11-JAM-389	Soil	46.5	7.38	1.62	6.56	1.08	6.22	1.28	3.64	0.58	3.70	0.57	27.2	43.7	79.7	368	120.9	71.3	4.4
11-JAM-393	Soil	39.7	6.34	1.30	4.77	0.79	4.49	0.87	2.78	0.46	3.11	0.46	10.1	22.8	42.1	390	97.2	31.9	1.7
11-JAM-387	Soil	42.0	6.35	1.29	5.18	0.85	4.96	1.00	2.99	0.52	2.89	0.47	36.0	33.8	76.3	451	97.5	62.3	3.6
11-JAM-391	Soil	58.2	7.98	1.92	6.37	0.98	5.00	1.08	3.23	0.54	3.35	0.51	20.2	25.3	85.9	402	84.3	43.8	2.6
11-JAM-369	Soil	24.8	4.62	1.07	4.30	0.68	3.86	0.84	2.61	0.45	2.74	0.50	45.5	33.8	21.2	334	94.9	63.1	4.0
11-JAM-370	Soil	25.1	4.83	1.15	4.32	0.72	4.02	0.88	2.80	0.46	3.05	0.50	53.2	33.0	23.0	395	99.0	89.9	2.8
11-JAM-365	Soil	29.5	5.26	1.00	4.04	0.70	3.99	0.83	2.45	0.39	2.40	0.39	20.1	9.2	16.4	78	13.2	15.7	0.5
11-JAM-397	Soil	52.3	7.62	1.71	5.57	0.88	4.98	1.08	3.07	0.54	3.54	0.51	15.1	22.2	75.1	279	51.2	34.2	2.7
11-MGB-323	Soil	30.8	5.93	1.22	4.83	0.83	4.32	0.93	2.61	0.41	2.63	0.41	2.3	17.5	33.2	159	26.4	12.3	1.8
11-MGB-311	Soil	28.7	5.06	1.09	4.40	0.75	4.07	0.89	2.40	0.39	2.37	0.39	1.8	19.4	35.0	212	27.8	18.2	4.0
11-MGB-313	Soil	28.2	4.82	1.17	4.32	0.72	3.97	0.84	2.42	0.38	2.35	0.38	3.9	23.3	18.7	480	74.2	16.6	5.0
11-MGB-298	Soil	11.9	2.26	0.57	2.26	0.37	2.01	0.43	1.44	0.21	1.25	0.20	450.3	7.3	9.3	679	40.5	1559	1.8
11-MGB-310	Soil	53.0	8.16	3.02	5.72	0.76	4.03	0.75	2.15	0.34	2.15	0.34	16.4	32.5	23.5	59	11.1	22.6	0.3
11-MGB-314	Soil	28.1	5.28	1.31	4.87	0.81	4.30	0.97	2.62	0.41	2.54	0.39	9.9	31.4	23.7	472	95.3	32.9	4.4
11-MGB-321	Soil	27.8	4.52	1.10	3.99	0.68	3.87	0.88	2.37	0.39	2.55	0.40	3.9	17.4	65.1	363	32.1	54.8	3.6
11-MGB-302	Soil	25.4	4.38	1.08	4.03	0.67	3.70	0.78	2.22	0.34	2.24	0.35	4.5	19.5	34.4	234	38.5	26.6	1.9
11-MGB-299	Soil	4.9	1.01	0.26	0.91	0.16	0.83	0.19	0.48	0.08	0.51	0.07	0.4	5.0	4.7	651	36.2	3.7	0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-378	Soil	0.7	1.5	0.23	0.8	5.5
11-JAM-380	Soil	0.5	1.0	0.21	0.8	2.3
11-JAM-381	Soil	1.0	3.9	0.08	1.2	2.2
11-JAM-382	Soil	0.3	0.8	0.08	0.9	1.9
11-JAM-375	Soil	0.5	1.2	0.25	1.0	1.9
11-JAM-388	Soil	<0.1	1.1	0.10	7.3	10.8
11-JAM-384	Soil	1.1	2.2	0.04	2.8	3.9
11-JAM-392	Soil	<0.1	1.0	0.05	0.7	1.4
11-JAM-383	Soil	0.8	1.2	0.09	0.4	3.0
11-JAM-385	Soil	0.4	<0.5	0.09	1.0	5.9
11-JAM-386	Soil	0.2	1.8	0.06	0.8	9.7
11-JAM-390	Soil	0.2	0.7	0.03	0.7	2.5
11-JAM-395	Soil	0.5	1.8	0.15	0.8	2.1
11-JAM-389	Soil	0.1	<0.5	0.05	1.1	3.9
11-JAM-393	Soil	0.1	1.3	0.04	1.0	1.4
11-JAM-387	Soil	0.3	1.3	0.20	0.9	5.2
11-JAM-391	Soil	<0.1	<0.5	0.04	0.6	2.3
11-JAM-369	Soil	2.1	2.9	0.23	0.6	8.6
11-JAM-370	Soil	2.0	2.0	0.21	0.8	7.2
11-JAM-365	Soil	0.5	0.9	0.01	0.3	2.1
11-JAM-397	Soil	0.2	1.2	0.03	0.5	1.7
11-MGB-323	Soil	0.2	1.4	0.11	0.2	0.9
11-MGB-311	Soil	0.3	1.4	0.14	0.3	2.0
11-MGB-313	Soil	0.3	2.2	0.14	0.4	2.6
11-MGB-298	Soil	0.1	0.9	0.03	0.3	0.8
11-MGB-310	Soil	0.7	1.0	0.11	0.6	10.3
11-MGB-314	Soil	0.4	0.7	0.13	0.4	2.2
11-MGB-321	Soil	0.5	<0.5	0.30	0.4	1.5
11-MGB-302	Soil	0.2	0.6	0.05	0.1	1.7
11-MGB-299	Soil	0.2	0.9	0.10	0.1	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-MGB-325	Soil	2627	1	7.0	2.9	9.8	7.8	9.6	51.2	<1	70.2	0.7	7.0	4.6	276	1.0	283.5	21.5	27.6	52.2
11-MGB-307	Soil	10324	2	25.2	4.2	12.3	8.3	12.3	74.9	1	116.9	0.9	9.0	3.9	236	1.2	309.4	25.4	49.1	97.4
11-MGB-319	Soil	4594	2	6.8	7.6	15.2	3.3	8.7	94.2	2	201.0	0.6	8.4	9.0	694	1.2	125.5	22.2	29.7	54.2
11-MGB-296	Soil	2164	2	8.2	4.3	12.4	20.4	14.4	68.5	3	138.5	1.0	10.5	4.2	131	2.1	770.2	31.8	35.1	67.9
11-MGB-316	Soil	4060	<1	26.7	5.5	13.0	3.9	9.1	102.6	2	79.2	0.5	8.1	7.4	565	1.2	132.9	23.9	26.5	47.9
11-MGB-322	Soil	1248	<1	14.5	3.5	9.5	6.6	19.2	63.6	1	62.2	1.1	8.9	3.2	160	1.5	248.1	25.1	34.5	68.2
11-MGB-309	Soil	1475	2	7.5	2.0	5.5	3.6	8.8	39.8	<1	60.4	0.4	5.0	2.6	116	<0.5	145.8	53.2	20.1	40.6
11-MGB-304	Soil	2254	2	15.9	4.7	12.0	7.2	12.2	74.9	2	121.8	0.8	8.9	3.9	163	0.9	249.9	25.1	29.5	59.8
11-MGB-324	Soil	2166	3	12.6	2.9	8.6	7.5	14.5	60.9	<1	75.6	0.9	8.1	4.1	169	1.4	274.2	24.7	29.7	59.8
11-MGB-329	Soil	503	2	2.7	1.3	4.4	4.7	6.9	40.8	<1	56.8	0.4	4.1	1.8	67	0.6	169.7	12.1	14.5	27.1
11-AAB-0343	Soil	1143	<1	5.2	5.0	15.3	7.8	15.9	78.6	2	129.6	1.0	7.5	2.4	119	1.5	268.4	18.0	30.6	57.5
11-AAB-0336	Soil	1345	<1	3.9	4.2	13.5	8.1	14.1	89.8	2	112.4	1.1	7.6	2.8	133	1.7	278.5	19.5	28.2	56.8
11-AAB-0341	Soil	1279	1	8.6	6.1	17.8	7.5	16.4	129.9	2	187.6	1.0	7.5	3.0	157	1.5	279.6	23.0	34.5	67.9
11-AAB-0331	Soil	2163	2	9.4	10.9	18.6	7.1	9.5	105.3	2	169.8	0.6	10.6	12.9	208	1.2	254.2	26.3	30.8	59.9
11-AAB-0359	Soil	221	<1	3.3	1.2	4.0	17.0	6.8	27.4	<1	46.0	0.4	4.6	2.8	41	0.5	680.0	21.3	15.2	28.7
11-AAB-0348	Soil	504	2	11.9	4.0	16.3	7.9	13.0	53.3	2	157.9	1.0	11.1	3.2	164	1.4	285.5	31.4	36.2	69.3
11-AAB-0364	Soil	368	<1	13.1	3.2	10.8	10.2	9.0	44.9	1	82.5	0.6	7.3	2.5	105	1.0	408.9	24.7	24.4	48.5
11-AAB-0346	Soil	1741	2	12.4	6.0	17.0	4.5	16.0	85.8	2	168.6	0.9	11.0	6.9	209	1.3	164.8	29.8	36.8	73.7
11-AAB-0350	Soil	351	1	8.8	2.5	8.6	8.5	8.0	43.6	1	66.1	0.6	6.0	2.5	86	0.7	345.4	19.2	21.2	42.9
11-AAB-0351	Soil	244	<1	6.1	1.3	4.3	6.2	5.3	26.0	<1	45.0	0.4	3.2	1.6	47	<0.5	240.4	13.5	13.6	26.3
11-AAB-0344	Soil	1264	1	8.2	4.4	16.9	5.6	13.7	59.8	1	269.1	1.0	9.6	3.2	134	1.4	215.7	22.2	30.7	65.4
11-AAB-0360	Soil	413	1	10.4	3.0	8.3	11.2	9.5	55.4	<1	68.5	0.6	7.5	2.8	89	0.8	423.8	25.0	21.9	45.8
11-AAB-0347	Soil	541	1	11.9	3.2	14.3	9.0	12.2	48.4	2	122.6	0.8	9.6	3.1	141	1.2	355.8	29.7	31.6	61.4
11-JAM-348	Soil	812	1	2.3	3.2	13.6	8.0	25.0	64.6	2	89.8	1.8	10.2	5.0	221	2.3	310.2	25.0	40.4	75.1
11-JAM-349	Soil	2175	4	0.7	2.7	15.3	7.5	113.5	75.4	2	89.5	6.2	22.8	20.2	1188	3.8	371.1	67.4	110.4	168.2
11-JAM-367	Soil	1548	2	2.3	4.3	14.5	6.8	56.3	98.8	2	82.2	3.7	14.2	6.4	344	2.2	269.8	24.7	42.8	74.2
11-JAM-365	Soil	999	1	2.9	3.9	14.3	7.3	40.8	97.8	3	71.6	2.9	12.3	5.2	281	1.9	275.5	24.5	35.2	66.9
11-JAM-371	Soil	2148	3	2.7	4.5	14.9	5.2	31.3	91.1	2	61.2	2.0	10.7	6.1	404	2.8	181.8	20.6	28.5	53.5
11-JAM-394	Soil	3719	5	4.8	10.3	22.1	9.7	172.5	248.4	3	173.2	8.9	39.0	15.2	257	17.5	491.9	32.4	107.6	181.1
11-JAM-396	Soil	5182	5	7.3	14.7	22.6	10.0	126.0	239.5	3	109.7	6.5	41.9	18.9	336	8.0	461.9	41.0	108.7	172.6



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Report Date: August 28, 2011

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm 0.3	ppm 0.05	ppm 0.02	ppm 0.05	ppm 0.01	ppm 0.05	ppm 0.02	ppm 0.03	ppm 0.01	ppm 0.05	ppm 0.01	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.5	ppm 0.1	ppm 0.1
11-MGB-325	Soil	23.4	4.08	0.92	3.59	0.61	3.17	0.73	2.09	0.32	2.12	0.33	5.2	18.5	11.3	169	27.0	10.5	2.1	1.5
11-MGB-307	Soil	41.0	6.62	1.72	5.20	0.78	4.14	0.81	2.35	0.39	2.31	0.37	4.5	17.0	12.9	544	91.7	12.1	4.5	0.8
11-MGB-319	Soil	24.6	4.76	1.17	4.04	0.65	3.71	0.77	2.27	0.33	2.10	0.32	35.8	28.2	23.4	116	16.8	28.6	0.6	4.0
11-MGB-296	Soil	30.4	5.51	1.15	5.00	0.82	5.12	1.02	3.31	0.54	3.33	0.58	2.0	18.6	24.0	126	28.6	13.9	0.7	0.5
11-MGB-316	Soil	25.4	4.29	0.99	3.86	0.58	3.28	0.82	2.18	0.34	2.31	0.35	14.9	32.3	15.4	976	152.3	35.8	10.4	9.0
11-MGB-322	Soil	30.6	5.54	1.11	4.63	0.71	4.26	0.87	2.51	0.38	2.48	0.38	2.7	18.6	58.1	174	29.6	20.5	2.4	1.3
11-MGB-309	Soil	23.9	6.04	1.56	8.13	1.41	7.12	1.60	4.32	0.61	3.60	0.53	5.2	21.3	10.0	872	48.2	120.2	2.0	1.4
11-MGB-304	Soil	29.7	4.98	1.12	4.54	0.69	3.98	0.86	2.46	0.40	2.61	0.39	3.3	22.4	29.9	218	42.7	18.6	2.0	0.8
11-MGB-324	Soil	25.9	4.96	1.09	4.33	0.66	3.82	0.82	2.47	0.36	2.37	0.36	3.5	21.3	22.2	303	55.4	17.5	3.3	1.3
11-MGB-329	Soil	13.7	2.42	0.54	2.06	0.31	2.13	0.40	1.15	0.19	1.31	0.19	0.8	6.9	11.4	92	11.5	3.9	1.5	0.9
11-AAB-0343	Soil	25.7	3.89	0.81	3.03	0.48	2.92	0.67	1.84	0.30	1.97	0.31	2.3	7.2	18.1	103	13.3	9.8	0.3	0.2
11-AAB-0336	Soil	23.9	4.22	0.84	3.19	0.54	3.28	0.64	2.00	0.35	2.20	0.34	2.5	10.5	19.8	78	15.7	17.1	0.2	0.3
11-AAB-0341	Soil	28.2	4.67	0.93	3.66	0.58	3.61	0.76	2.39	0.40	2.42	0.35	1.8	10.1	16.4	71	14.3	12.2	0.3	0.2
11-AAB-0331	Soil	27.0	5.13	1.15	4.50	0.68	4.15	0.81	2.53	0.42	2.70	0.42	2.8	17.7	21.6	104	22.2	13.9	0.5	0.2
11-AAB-0359	Soil	15.9	2.90	0.63	2.93	0.49	3.04	0.61	1.95	0.35	2.29	0.35	0.7	4.6	4.2	53	12.2	3.4	0.6	0.1
11-AAB-0348	Soil	32.3	6.01	1.23	5.31	0.84	5.11	1.04	2.99	0.50	3.17	0.47	1.5	12.3	17.2	100	36.0	17.2	0.6	0.2
11-AAB-0364	Soil	22.0	4.38	0.89	4.19	0.65	4.02	0.81	2.32	0.40	2.34	0.37	1.2	13.6	12.8	126	40.1	18.2	0.3	0.1
11-AAB-0346	Soil	32.8	6.19	1.41	5.38	0.84	4.93	0.98	2.69	0.45	2.65	0.42	2.4	22.3	23.0	169	31.8	16.0	1.4	0.5
11-AAB-0350	Soil	19.2	3.76	0.78	3.33	0.54	3.34	0.63	2.01	0.31	1.92	0.30	0.7	12.5	9.3	74	24.1	9.4	0.3	0.1
11-AAB-0351	Soil	12.2	2.48	0.56	2.22	0.36	2.23	0.44	1.26	0.22	1.35	0.21	0.9	9.0	6.4	53	15.5	7.1	0.2	0.1
11-AAB-0344	Soil	25.4	4.47	1.00	3.72	0.61	3.73	0.72	2.19	0.37	2.15	0.32	2.6	12.3	20.3	69	16.1	8.9	0.2	0.3
11-AAB-0360	Soil	23.8	4.46	0.99	4.24	0.67	4.04	0.77	2.39	0.38	2.38	0.38	1.1	13.6	9.0	129	38.8	6.7	0.4	<0.1
11-AAB-0347	Soil	27.1	5.16	1.03	4.75	0.78	4.63	0.94	2.69	0.44	2.75	0.41	1.4	11.9	16.4	94	33.5	17.1	0.5	0.1
11-JAM-348	Soil	31.8	5.04	0.97	4.12	0.67	4.08	0.80	2.46	0.39	2.46	0.38	13.6	9.3	12.0	49	9.7	13.7	0.2	0.9
11-JAM-349	Soil	72.3	11.85	2.74	11.31	1.69	9.77	1.83	5.07	0.76	4.44	0.60	137.6	66.5	22.9	43	10.1	43.2	<0.1	5.7
11-JAM-367	Soil	31.1	5.30	0.92	3.99	0.62	3.73	0.73	2.22	0.36	2.21	0.34	30.8	14.8	21.8	65	13.7	29.8	0.2	2.5
11-JAM-365	Soil	27.1	4.54	0.82	3.92	0.59	3.59	0.74	2.28	0.37	2.31	0.35	21.2	15.1	18.1	67	14.8	22.4	0.3	2.3
11-JAM-371	Soil	21.2	3.47	0.71	3.04	0.48	2.86	0.62	1.83	0.29	1.86	0.28	27.9	27.4	25.1	125	56.1	37.6	0.6	3.9
11-JAM-394	Soil	54.2	7.65	1.68	6.06	0.86	5.04	0.95	2.86	0.50	3.17	0.48	14.2	22.4	55.4	674	233.7	47.0	4.2	2.6
11-JAM-396	Soil	59.0	8.69	1.97	7.63	1.09	6.24	1.21	3.59	0.56	3.66	0.56	19.6	28.3	74.6	415	104.5	35.8	3.7	2.3



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-MGB-325	Soil	0.3	1.3	0.15	0.2	1.9
11-MGB-307	Soil	0.3	0.5	0.07	0.2	2.6
11-MGB-319	Soil	1.3	<0.5	0.12	0.6	20.4
11-MGB-296	Soil	0.3	1.0	0.05	0.1	1.3
11-MGB-316	Soil	1.1	1.0	0.20	0.6	5.0
11-MGB-322	Soil	0.2	1.1	0.13	0.2	0.9
11-MGB-309	Soil	0.2	<0.5	0.11	0.3	1.1
11-MGB-304	Soil	0.3	1.1	0.10	0.2	1.6
11-MGB-324	Soil	0.3	1.2	0.19	0.3	1.5
11-MGB-329	Soil	<0.1	<0.5	0.03	0.2	<0.5
11-AAB-0343	Soil	0.2	0.5	0.01	0.1	<0.5
11-AAB-0336	Soil	0.1	<0.5	<0.01	0.1	0.7
11-AAB-0341	Soil	0.1	0.6	0.03	<0.1	<0.5
11-AAB-0331	Soil	0.5	1.5	0.10	0.2	1.0
11-AAB-0359	Soil	<0.1	<0.5	0.03	<0.1	0.8
11-AAB-0348	Soil	0.2	<0.5	0.07	<0.1	1.7
11-AAB-0364	Soil	0.2	<0.5	0.07	<0.1	1.3
11-AAB-0346	Soil	0.3	0.7	0.19	0.3	1.3
11-AAB-0350	Soil	<0.1	<0.5	0.04	<0.1	0.6
11-AAB-0351	Soil	<0.1	0.7	0.03	<0.1	0.7
11-AAB-0344	Soil	<0.1	<0.5	0.03	<0.1	<0.5
11-AAB-0360	Soil	0.1	0.8	0.06	<0.1	1.1
11-AAB-0347	Soil	0.2	<0.5	0.06	<0.1	0.8
11-JAM-348	Soil	1.8	<0.5	0.09	0.2	1.3
11-JAM-349	Soil	0.5	1.9	0.05	0.2	30.6
11-JAM-367	Soil	0.3	1.6	0.03	0.3	3.9
11-JAM-365	Soil	0.7	1.1	0.03	0.3	2.7
11-JAM-371	Soil	0.6	1.4	0.05	0.6	4.0
11-JAM-394	Soil	0.2	1.1	0.12	1.5	0.9
11-JAM-396	Soil	0.3	0.8	0.09	0.7	1.8



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-JAM-354	Soil	1220	1	1.8	1.9	8.5	6.9	45.2	48.3	1	70.0	2.4	10.5	8.1	370	4.5	294.5	28.7	48.7	76.8
11-JAM-356	Soil	1528	1	1.9	2.3	9.0	5.8	38.8	68.0	1	66.2	2.1	9.7	7.3	343	2.6	248.4	22.7	40.0	61.6
11-JAM-346	Soil	876	2	4.5	3.8	14.8	7.3	21.9	71.6	2	95.4	1.5	9.6	4.4	199	2.2	277.6	21.5	37.4	70.0
11-JAM-359	Soil	1075	<1	2.9	4.3	16.8	7.6	29.7	106.4	3	83.5	2.0	11.1	3.8	215	2.0	291.8	22.9	36.9	72.2
11-JAM-363	Soil	920	1	1.7	2.7	14.8	8.5	40.7	72.0	3	76.5	2.8	11.0	5.1	286	2.1	322.9	25.4	43.0	78.8
11-JAM-372	Soil	2567	2	14.1	5.1	15.4	7.7	29.8	94.1	2	100.4	1.8	12.7	31.2	359	2.6	291.9	35.3	41.5	76.2
11-JAM-368	Soil	1949	2	4.4	4.6	12.9	7.3	43.5	96.6	2	87.5	2.7	10.3	5.4	268	3.1	283.0	19.4	33.0	59.5
11-JAM-347	Soil	801	2	3.9	4.1	15.2	7.9	21.3	91.4	3	111.6	1.4	12.0	4.6	142	1.6	322.7	23.4	38.3	74.8
11-JAM-352	Soil	1154	2	1.3	2.4	10.6	5.2	29.2	58.6	1	57.9	1.9	8.4	13.3	745	2.0	219.6	30.7	42.7	63.7
11-JAM-364	Soil	1312	<1	3.6	3.6	18.0	8.4	38.7	99.9	3	102.6	3.0	13.9	4.8	201	2.1	318.8	23.7	43.9	78.8



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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-JAM-354	Soil	33.5	5.41	1.04	4.59	0.69	4.16	0.86	2.48	0.39	2.37	0.35	49.7	23.7	13.3	53	16.7	21.2	0.2	4.1
11-JAM-356	Soil	26.3	4.26	0.88	3.54	0.56	3.32	0.66	1.97	0.32	1.84	0.30	46.4	21.5	21.9	112	34.1	48.9	0.4	4.1
11-JAM-346	Soil	29.3	4.84	0.90	3.87	0.59	3.56	0.73	2.22	0.34	2.16	0.32	28.2	12.9	17.0	79	17.7	18.0	0.4	1.1
11-JAM-359	Soil	29.6	4.51	0.81	3.68	0.58	3.32	0.73	2.15	0.35	2.38	0.35	7.3	6.2	14.3	42	8.2	9.3	0.3	1.0
11-JAM-363	Soil	32.2	5.37	0.94	4.28	0.66	3.94	0.86	2.42	0.37	2.56	0.37	22.4	8.6	15.2	34	6.2	13.5	0.2	1.6
11-JAM-372	Soil	35.7	6.44	1.30	5.82	0.86	5.16	1.06	3.16	0.53	3.46	0.56	38.7	38.1	27.5	304	92.2	45.0	1.2	2.3
11-JAM-368	Soil	23.4	3.93	0.69	3.22	0.50	2.90	0.59	1.84	0.31	1.88	0.29	25.5	9.2	25.3	128	24.7	35.4	0.3	1.9
11-JAM-347	Soil	31.0	5.26	0.95	4.17	0.63	3.80	0.77	2.31	0.39	2.37	0.36	9.2	9.4	14.7	72	13.5	9.0	0.4	0.3
11-JAM-352	Soil	31.7	5.30	1.05	4.70	0.72	4.22	0.87	2.34	0.38	2.17	0.32	72.2	32.4	14.5	46	8.8	29.9	0.2	4.3
11-JAM-364	Soil	32.1	5.01	0.88	3.93	0.62	3.75	0.79	2.31	0.36	2.38	0.39	16.7	5.4	12.8	58	8.8	9.9	0.4	0.9



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CERTIFICATE OF ANALYSIS

VAN11003255.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
11-JAM-354	Soil	0.4	<0.5	0.06	0.2	7.2
11-JAM-356	Soil	0.3	1.3	0.04	0.6	4.3
11-JAM-346	Soil	4.4	1.5	0.09	0.3	1.9
11-JAM-359	Soil	0.4	1.1	0.03	0.2	1.0
11-JAM-363	Soil	0.5	<0.5	0.04	0.2	2.9
11-JAM-372	Soil	1.7	1.2	0.22	0.5	2.9
11-JAM-368	Soil	0.3	0.5	0.02	0.4	1.5
11-JAM-347	Soil	1.8	0.9	0.07	0.3	<0.5
11-JAM-352	Soil	0.6	3.4	0.06	0.2	9.9
11-JAM-364	Soil	0.5	1.2	0.03	0.2	1.0



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Part 1

QUALITY CONTROL REPORT

VAN11003255.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr
		ppm 1	ppm 1	ppm 0.2	ppm 0.1	ppm 0.5	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.5	ppm 0.1	ppm 0.2	ppm 0.1	ppm 8	ppm 0.5	ppm 0.1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 0.02
Pulp Duplicates																					
11-AAB-0357	Soil	287	<1	5.9	2.6	6.1	6.6	6.7	39.5	1	57.3	0.5	4.7	2.2	75	0.6	266.7	16.2	17.5	28.9	4.19
REP 11-AAB-0357	QC	279	1	6.0	2.7	6.7	6.4	6.5	40.4	1	60.2	0.5	5.1	2.1	74	0.6	262.8	16.7	17.9	29.9	4.22
11-JAM-351	Soil	976	2	6.8	4.1	15.4	7.0	17.1	80.2	2	109.1	1.2	13.2	5.1	255	1.4	258.1	23.1	40.2	73.2	8.99
REP 11-JAM-351	QC																				
11-MGB-311	Soil	2048	1	9.0	4.6	11.9	6.7	17.2	75.2	<1	68.7	1.2	10.3	6.0	179	1.2	246.5	24.9	36.1	72.0	8.32
REP 11-MGB-311	QC	2105	2	9.9	4.3	12.4	6.6	17.7	80.1	1	68.9	1.1	10.7	5.9	193	1.4	241.1	25.8	37.1	72.3	8.43
11-MGB-324	Soil	2166	3	12.6	2.9	8.6	7.5	14.5	60.9	<1	75.6	0.9	8.1	4.1	169	1.4	274.2	24.7	29.7	59.8	7.04
REP 11-MGB-324	QC																				
11-AAB-0336	Soil	1345	<1	3.9	4.2	13.5	8.1	14.1	89.8	2	112.4	1.1	7.6	2.8	133	1.7	278.5	19.5	28.2	56.8	6.66
REP 11-AAB-0336	QC	1405	3	3.7	4.3	14.5	8.3	13.5	90.3	1	113.5	1.2	7.3	2.6	124	1.6	277.0	21.1	30.4	59.9	7.34
11-JAM-346	Soil	876	2	4.5	3.8	14.8	7.3	21.9	71.6	2	95.4	1.5	9.6	4.4	199	2.2	277.6	21.5	37.4	70.0	8.00
REP 11-JAM-346	QC	890	2	4.9	3.8	13.2	7.5	22.1	72.0	3	93.9	1.4	10.7	4.8	199	2.2	280.3	21.6	39.2	73.6	8.53
11-JAM-347	Soil	801	2	3.9	4.1	15.2	7.9	21.3	91.4	3	111.6	1.4	12.0	4.6	142	1.6	322.7	23.4	38.3	74.8	8.46
REP 11-JAM-347	QC																				
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD SO-18	Standard	496	<1	25.0	6.9	16.8	8.8	20.4	27.6	13	394.3	7.5	10.0	16.3	198	15.1	288.2	30.6	12.5	26.6	3.36
STD SO-18	Standard	488	1	23.9	6.9	17.4	9.8	20.7	27.0	13	392.8	7.1	10.6	16.2	193	15.2	285.5	30.9	12.6	26.7	3.37
STD SO-18	Standard	551	2	28.7	7.2	19.3	9.6	22.2	30.6	17	439.6	7.7	10.4	17.9	212	16.7	311.1	34.2	13.5	28.3	3.67
STD SO-18	Standard	552	3	27.5	7.5	18.1	10.3	21.4	29.9	15	428.0	7.8	10.4	17.1	202	15.1	301.3	33.2	12.9	27.7	3.56
STD SO-18	Standard	527	<1	26.9	6.9	17.8	9.6	21.2	28.7	15	427.7	7.4	10.9	16.8	209	14.6	296.7	33.8	13.5	28.1	3.70



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX			
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi			
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm			
		0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1			
Pulp Duplicates																								
11-AAB-0357	Soil	16.2	3.02	0.67	2.56	0.46	2.42	0.52	1.59	0.22	1.58	0.27	1.6	10.4	7.6	75	19.5	6.2	0.3	<0.1	<0.1			
REP 11-AAB-0357	QC	14.3	3.06	0.68	2.69	0.44	2.60	0.55	1.73	0.27	1.54	0.26												
11-JAM-351	Soil	32.0	5.19	0.99	4.04	0.65	3.69	0.80	2.29	0.35	2.32	0.36	13.4	17.3	19.1	86	26.1	14.2	0.2	0.6	0.3			
REP 11-JAM-351	QC													13.1	16.0	19.0	86	25.1	13.6	0.2	0.5	0.3		
11-MGB-311	Soil	28.7	5.06	1.09	4.40	0.75	4.07	0.89	2.40	0.39	2.37	0.39	1.8	19.4	35.0	212	27.8	18.2	4.0	0.9	0.2			
REP 11-MGB-311	QC	29.9	5.37	1.23	4.73	0.79	4.02	0.85	2.47	0.37	2.34	0.37												
11-MGB-324	Soil	25.9	4.96	1.09	4.33	0.66	3.82	0.82	2.47	0.36	2.37	0.36	3.5	21.3	22.2	303	55.4	17.5	3.3	1.3	0.2			
REP 11-MGB-324	QC													3.5	21.8	21.6	291	57.3	16.6	3.3	1.4	0.2		
11-AAB-0336	Soil	23.9	4.22	0.84	3.19	0.54	3.28	0.64	2.00	0.35	2.20	0.34	2.5	10.5	19.8	78	15.7	17.1	0.2	0.3	0.5			
REP 11-AAB-0336	QC	26.2	4.49	0.77	3.43	0.54	3.67	0.69	2.23	0.37	2.26	0.37												
11-JAM-346	Soil	29.3	4.84	0.90	3.87	0.59	3.56	0.73	2.22	0.34	2.16	0.32	28.2	12.9	17.0	79	17.7	18.0	0.4	1.1	0.3			
REP 11-JAM-346	QC	29.6	4.82	0.90	3.89	0.60	3.73	0.71	2.16	0.32	2.31	0.35												
11-JAM-347	Soil	31.0	5.26	0.95	4.17	0.63	3.80	0.77	2.31	0.39	2.37	0.36	9.2	9.4	14.7	72	13.5	9.0	0.4	0.3	0.3			
REP 11-JAM-347	QC													8.4	9.2	13.9	68	13.1	8.6	0.5	0.3	0.3		
Reference Materials																								
STD DS8	Standard													13.4	107.5	128.3	312	36.0	26.4	2.3	3.9	7.2		
STD DS8	Standard													14.4	114.6	125.0	312	39.9	25.8	2.2	4.0	6.5		
STD DS8	Standard													12.6	109.8	130.2	329	39.0	26.5	2.3	5.3	7.7		
STD DS8	Standard													14.6	111.1	132.0	331	38.1	29.0	2.4	4.6	6.9		
STD OREAS45CA	Standard													1.0	498.8	22.0	62	255.7	4.0	0.2	<0.1	0.2		
STD OREAS45CA	Standard													0.8	533.6	21.7	62	261.5	3.9	0.1	<0.1	0.2		
STD OREAS45CA	Standard													0.9	527.6	22.3	65	262.6	3.3	0.1	<0.1	0.2		
STD OREAS45CA	Standard													0.9	527.3	21.0	63	268.0	3.2	<0.1	<0.1	0.2		
STD SO-18	Standard	13.8	2.85	0.91	2.98	0.50	2.97	0.64	1.82	0.27	1.79	0.28												
STD SO-18	Standard	14.0	2.92	0.87	2.88	0.50	2.95	0.61	1.85	0.28	1.77	0.27												
STD SO-18	Standard	14.6	3.10	0.98	3.19	0.56	3.17	0.71	2.00	0.30	1.91	0.29												
STD SO-18	Standard	13.6	3.10	0.92	3.01	0.54	3.07	0.66	1.98	0.29	1.85	0.29												
STD SO-18	Standard	14.0	3.08	0.97	3.01	0.55	3.09	0.69	2.08	0.29	1.90	0.29												



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX
		Ag	Au	Hg	Tl	Se
		ppm	ppb	ppm	ppm	ppm
		0.1	0.5	0.01	0.1	0.5
Pulp Duplicates						
11-AAB-0357	Soil	0.1	0.6	0.04	<0.1	1.2
REP 11-AAB-0357	QC					
11-JAM-351	Soil	4.2	2.4	0.09	0.3	1.8
REP 11-JAM-351	QC	4.1	2.2	0.11	0.3	1.8
11-MGB-311	Soil	0.3	1.4	0.14	0.3	2.0
REP 11-MGB-311	QC					
11-MGB-324	Soil	0.3	1.2	0.19	0.3	1.5
REP 11-MGB-324	QC	0.3	1.7	0.18	0.3	1.4
11-AAB-0336	Soil	0.1	<0.5	<0.01	0.1	0.7
REP 11-AAB-0336	QC					
11-JAM-346	Soil	4.4	1.5	0.09	0.3	1.9
REP 11-JAM-346	QC					
11-JAM-347	Soil	1.8	0.9	0.07	0.3	<0.5
REP 11-JAM-347	QC	1.8	<0.5	0.08	0.3	0.5
Reference Materials						
STD DS8	Standard	1.7	117.7	0.23	5.3	5.0
STD DS8	Standard	1.7	156.0	0.24	5.1	5.2
STD DS8	Standard	1.7	98.4	0.18	5.6	4.9
STD DS8	Standard	2.0	124.5	0.23	6.0	5.6
STD OREAS45CA	Standard	0.3	43.7	0.03	<0.1	0.7
STD OREAS45CA	Standard	0.3	42.0	0.03	<0.1	<0.5
STD OREAS45CA	Standard	0.3	43.7	0.03	<0.1	0.8
STD OREAS45CA	Standard	0.3	41.9	0.04	0.1	<0.5
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					



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QUALITY CONTROL REPORT

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		4B Ba ppm 1	4B Be ppm 1	4B Co ppm 0.2	4B Cs ppm 0.1	4B Ga ppm 0.5	4B Hf ppm 0.1	4B Nb ppm 0.1	4B Rb ppm 0.1	4B Sn ppm 1	4B Sr ppm 0.5	4B Ta ppm 0.1	4B Th ppm 0.2	4B U ppm 0.1	4B V ppm 8	4B W ppm 0.5	4B Zr ppm 0.1	4B Y ppm 0.1	4B La ppm 0.1	4B Ce ppm 0.1	4B Pr ppm 0.02
STD SO-18	Standard	536	<1	27.6	7.1	17.4	10.1	20.8	28.8	15	432.0	7.3	11.2	17.0	211	14.8	300.0	34.2	14.1	28.3	3.77
STD SO-18	Standard	532	1	27.0	7.2	18.4	10.0	21.9	29.2	15	422.6	7.4	10.3	16.1	209	14.9	304.1	33.6	12.6	29.4	3.53
STD SO-18	Standard	529	<1	26.2	7.3	17.7	9.6	21.1	28.6	14	410.6	7.1	10.4	15.7	202	14.3	293.9	32.8	12.4	27.3	3.39
STD SO-18	Standard	482	1	24.4	6.5	16.8	9.4	19.0	26.8	14	376.1	6.7	9.6	15.2	166	14.2	272.3	29.1	11.9	25.9	3.21
STD SO-18	Standard	522	2	26.5	7.0	17.8	9.8	21.1	28.7	15	415.3	7.4	10.5	15.9	189	15.1	295.5	31.2	12.2	27.4	3.42
STD SO-18 Expected		514	1	26.2	7.1	17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1	3.45
STD DS8 Expected																					
STD OREAS45CA Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	1.3	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.8	<0.1	<0.1	<0.1	<0.02
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	0.4	<0.1	<0.02
BLK	Blank																				
BLK	Blank																				



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QUALITY CONTROL REPORT

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		4B Nd ppm 0.3	4B Sm ppm 0.05	4B Eu ppm 0.02	4B Gd ppm 0.05	4B Tb ppm 0.01	4B Dy ppm 0.05	4B Ho ppm 0.02	4B Er ppm 0.03	4B Tm ppm 0.01	4B Yb ppm 0.05	4B Lu ppm 0.01	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ni ppm 0.1	1DX As ppm 0.5	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1
STD SO-18	Standard	14.4	3.07	0.97	3.05	0.54	3.06	0.70	2.02	0.29	1.83	0.30									
STD SO-18	Standard	14.1	3.09	0.93	3.14	0.53	3.01	0.65	1.92	0.31	1.86	0.28									
STD SO-18	Standard	14.4	3.03	0.91	3.05	0.50	3.06	0.62	1.86	0.30	1.83	0.27									
STD SO-18	Standard	12.5	2.80	0.86	2.83	0.48	2.99	0.59	1.85	0.27	1.72	0.27									
STD SO-18	Standard	14.0	3.11	0.89	2.93	0.50	2.99	0.64	1.79	0.29	1.84	0.28									
STD SO-18 Expected		14	3	0.89	2.93	0.53	3	0.62	1.84	0.27	1.79	0.27									
STD DS8 Expected													13.44	110	123	312	38.1	26	2.38	4.8	6.67
STD OREAS45CA Expected													1	494	20	60	240	3.8	0.1	0.13	0.19
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01									
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1	<0.1



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537 Kenneth Street

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Project: TING PROP C

Report Date: August 28, 2011

Page: 2 of 2 **Part** 3

QUALITY CONTROL REPORT

VAN11003255.1

		1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18	Standard					
STD SO-18 Expected						
STD DS8 Expected		1.69	107	0.192	5.4	5.23
STD OREAS45CA Expected		0.275	43	0.03	0.07	0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.5	<0.01	<0.1	<0.5



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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: July 18, 2011

Report Date: August 23, 2011

Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN11003256.1

CLIENT JOB INFORMATION

Project: TING PROP C
Shipment ID: Greyhound51737223543
P.O. Number
Number of Samples: 44

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	44	Crush, split and pulverize 250 g rock to 200 mesh			VAN
4B02	44	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

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: Harsbo Minerals Ltd.
4758 Victory Street
Burnaby BC V5J 1S2
Canada

CC: David Turner
Lee A. Groat
Thomas Hasek
Michael Burns



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: TING PROP C

Report Date: August 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11003256.1

	Method Analyte Unit MDL	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-AAB-0292	Rock	1.42	1320	10	3.2	2.0	12.5	6.7	31.0	68.2	2	151.6	0.6	10.2	4.5	72	8.8	210.1	18.4	42.5	69.0
11-AAB-0291	Rock	1.42	1182	2	5.6	10.1	19.9	11.2	271.6	212.1	2	739.4	14.4	38.2	7.0	80	3.4	548.0	32.2	203.9	339.3
11-AAB-0293	Rock	1.43	1654	12	1.6	10.2	19.1	9.8	223.1	113.6	6	396.0	12.9	43.5	11.1	120	31.9	510.7	28.3	171.6	274.3
11-MGB-258	Rock	1.19	1931	7	10.0	6.7	20.7	8.6	194.7	202.6	2	1358	11.4	42.1	10.5	67	2.4	460.0	29.4	160.9	267.8
11-MGB-259	Rock	0.64	1456	7	3.1	2.9	18.5	15.4	110.9	239.2	2	79.8	5.1	29.7	6.8	100	3.5	807.9	20.5	37.1	54.5
11-MGB-291	Rock	0.53	627	<1	1.5	0.6	4.3	0.8	1.7	48.5	<1	32.9	<0.1	2.4	0.7	19	<0.5	39.6	2.5	8.8	18.0
11-MGB-295	Drill Core	5.78	16	4	6.8	3.4	13.1	2.2	9.7	29.0	68	41.0	0.8	9.9	7.1	35	417.1	63.1	12.7	17.2	31.9
11-MGB-292	Rock	1.74	6	<1	<0.2	0.1	0.6	0.1	0.3	1.0	<1	0.8	<0.1	0.2	0.1	<8	<0.5	2.3	0.3	0.6	0.9
11-MGB-264	Rock	3.60	130	32	1.8	15.4	55.8	70.3	921.1	327.8	20	131.1	21.9	736.1	39.2	15	37.8	4529	91.2	455.8	514.3
11-MGB-283	Rock	1.01	15	30	3.7	1.1	16.0	1.6	22.1	12.9	16	27.0	15.7	7.7	4.1	18	0.6	40.9	12.3	22.2	34.7
11-MGB-262	Rock	1.72	1443	4	8.6	5.3	19.6	8.2	196.0	185.6	2	1200	11.0	45.8	8.7	64	3.6	460.8	25.9	151.9	252.2
11-MGB-268	Rock	6.25	422	68	2.1	3.3	117.7	50.7	457.1	121.6	10	161.6	6.3	8589	116.1	1681	44.6	3928	110.3	489.5	471.9
11-MGB-266	Rock	1.10	355	13	1.6	4.2	28.5	10.8	201.4	437.2	7	167.7	9.8	109.8	32.2	11	8.1	519.4	23.1	135.3	222.5
11-MGB-270	Rock	3.48	907	217	1.8	2.5	24.5	7.3	198.9	63.8	6	193.5	1.2	617.9	23.9	2149	9.7	590.8	52.1	167.4	172.4
11-MGB-267	Rock	3.34	2397	74	0.2	1.2	31.5	8.6	268.1	69.6	8	107.1	15.0	1470	15.5	123	23.3	256.1	189.5	1643	1338
11-MGB-260	Rock	1.12	128	5	0.7	9.8	17.6	7.4	204.1	212.1	2	139.1	13.9	45.4	8.2	24	7.1	413.0	18.6	111.9	191.8
11-MGB-263	Rock	1.05	1440	4	6.2	10.0	23.8	11.5	211.4	237.5	3	973.6	11.3	45.8	11.6	48	6.6	735.5	26.0	145.6	231.1
11-MGB-287	Rock	0.90	759	<1	43.1	5.9	20.4	5.4	31.6	36.6	2	123.7	1.4	6.0	0.8	276	0.5	192.2	20.5	22.8	45.9
11-MGB-269	Rock	2.20	285	22	0.6	64.6	28.5	1.3	97.4	2018	<1	94.3	<0.1	44.6	10.9	79	0.7	117.5	23.8	25.0	29.3
11-MGB-288	Rock	2.23	597	2	28.6	1.4	21.5	7.3	46.1	33.7	2	290.6	2.7	9.4	2.0	216	2.9	274.5	32.7	36.2	74.0
11-MGB-290	Rock	2.88	720	1	34.3	2.2	15.7	5.5	26.5	82.1	2	229.4	1.5	5.1	2.4	225	2.4	193.4	22.4	24.6	52.8
11-MGB-289	Rock	1.51	754	2	34.7	5.2	22.5	6.5	36.7	106.3	2	182.4	2.6	10.5	3.4	132	2.3	232.3	30.9	47.2	91.3
11-AAB-0294	Rock	1.53	16088	6	1.5	6.8	21.3	16.5	350.3	422.4	6	285.7	14.8	98.6	15.1	123	25.4	1002	31.8	138.2	218.5
11-AAB-0297	Rock	1.03	36	7	<0.2	7.0	37.2	12.1	152.5	395.6	2	8.8	4.1	59.7	18.7	<8	7.7	805.9	9.1	59.5	61.9
11-AAB-0298	Rock	0.99	127	3	0.4	4.2	35.2	7.2	92.8	345.1	2	12.1	3.0	30.8	18.8	<8	2.2	418.3	6.4	40.3	54.7
11-AAB-0290	Rock	1.27	2235	10	0.6	7.7	36.0	23.4	465.3	426.3	5	71.0	24.4	129.8	60.2	22	24.9	1214	26.3	120.5	199.6
11-AAB-0295	Rock	2.19	5114	14	2.2	2.1	60.4	44.3	501.3	237.7	8	245.0	10.6	329.3	55.6	22	5.2	3124	38.7	243.4	235.7
11-AAB-338	Rock	1.72	2331	3	20.9	1.7	15.3	2.7	13.9	42.3	1	693.3	0.8	9.4	2.4	152	1.0	108.4	16.0	26.0	47.5
11-AAB-345	Rock	1.29	803	3	9.3	3.0	18.9	3.5	14.4	93.7	<1	553.6	1.1	11.6	2.9	87	0.7	131.4	14.9	29.0	53.6
11-AAB-333	Rock	1.34	1884	<1	2.8	0.2	6.3	6.6	5.6	3.6	<1	19.9	0.5	4.5	1.5	57	0.5	264.4	18.1	15.8	27.8



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Project: TING PROP C

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CERTIFICATE OF ANALYSIS

VAN11003256.1

	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1
11-AAB-0292	Rock	7.64	21.7	4.20	0.93	3.38	0.54	3.05	0.56	1.69	0.27	1.64	0.26	33.0	9.4	127.2	685	15.6	10.3	6.4
11-AAB-0291	Rock	33.63	94.0	12.50	3.23	8.26	1.28	6.21	1.20	3.34	0.51	3.27	0.49	6.3	6.8	24.4	78	9.1	2.7	0.4
11-AAB-0293	Rock	28.39	80.8	10.65	1.66	6.85	1.02	4.93	1.01	2.49	0.45	2.52	0.41	934.8	6.0	13.7	49	6.5	10.7	0.7
11-MGB-258	Rock	28.02	81.4	11.55	3.24	7.54	1.15	6.09	1.07	2.93	0.45	2.61	0.42	0.8	12.1	10.2	62	14.0	2.6	0.3
11-MGB-259	Rock	5.44	14.8	2.91	0.42	2.50	0.47	2.79	0.65	2.31	0.40	2.96	0.47	0.9	1.6	28.8	52	4.1	2.3	0.3
11-MGB-291	Rock	1.78	6.2	0.88	0.23	0.60	0.11	0.60	0.10	0.26	0.04	0.28	0.04	1.1	3.3	1.1	11	0.4	0.6	<0.1
11-MGB-295	Drill Core	3.64	12.8	2.71	0.54	2.26	0.39	2.15	0.42	1.21	0.19	1.41	0.20	12.2	133.8	2.3	23	0.8	20.8	<0.1
11-MGB-292	Rock	0.11	0.4	0.09	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01	1.4	1.4	11.9	<1	0.7	0.5	<0.1
11-MGB-264	Rock	34.02	68.0	7.89	1.22	6.23	1.41	9.38	2.42	8.16	1.57	11.42	1.82	16.6	3.1	2129	503	0.5	3.7	5.3
11-MGB-283	Rock	5.30	18.4	3.45	0.31	2.72	0.45	2.24	0.46	1.45	0.21	1.31	0.18	1.1	2.0	<0.1	1	0.9	<0.5	<0.1
11-MGB-262	Rock	25.84	82.1	10.67	2.82	6.81	1.06	5.02	1.00	2.53	0.39	2.75	0.39	3.1	9.7	13.9	42	11.7	2.0	0.1
11-MGB-268	Rock	28.89	57.9	7.27	1.24	6.46	1.55	10.63	2.88	10.99	2.14	15.09	2.39	585.2	22.2	154.4	998	131.1	347.5	17.0
11-MGB-266	Rock	16.37	45.7	6.28	0.79	3.76	0.71	3.67	0.80	2.50	0.47	3.25	0.50	19.6	1.1	20.9	48	0.3	5.5	0.8
11-MGB-270	Rock	12.15	27.8	3.88	0.75	3.56	0.75	4.37	1.09	3.79	0.61	4.58	0.78	37.9	93.6	154.2	2910	271.5	111.9	21.7
11-MGB-267	Rock	78.42	163.9	22.82	4.62	17.82	4.27	25.84	6.01	19.86	3.33	21.71	3.26	1.6	8.0	768.7	652	7.9	100.8	6.1
11-MGB-260	Rock	18.78	52.4	6.49	1.21	3.90	0.67	3.34	0.66	1.98	0.28	1.95	0.30	5.3	1.7	22.9	59	1.0	4.0	0.4
11-MGB-263	Rock	23.08	69.6	9.51	2.43	5.95	0.96	4.52	0.91	2.60	0.37	2.68	0.44	3.5	6.3	89.7	76	6.8	2.9	0.4
11-MGB-287	Rock	5.83	26.2	5.15	1.71	4.85	0.79	4.45	0.79	1.85	0.30	1.86	0.30	0.2	50.4	3.8	74	94.9	1.0	<0.1
11-MGB-269	Rock	2.09	5.4	0.71	0.13	0.74	0.19	1.20	0.38	1.54	0.28	2.26	0.35	0.8	0.4	12.9	313	14.0	1.8	0.5
11-MGB-288	Rock	9.61	37.5	7.91	2.45	7.23	1.27	6.10	1.21	3.14	0.46	2.73	0.44	0.3	113.2	3.1	57	33.0	1.1	<0.1
11-MGB-290	Rock	6.80	26.7	5.60	1.45	5.33	0.88	4.53	0.90	2.34	0.32	1.97	0.31	3.6	70.4	3.0	57	76.8	1.4	0.3
11-MGB-289	Rock	10.91	41.8	7.47	1.80	6.07	1.04	5.29	1.13	3.23	0.48	2.80	0.49	0.7	29.2	5.0	33	33.6	<0.5	<0.1
11-AAB-0294	Rock	19.92	54.6	7.72	1.12	5.14	0.94	4.84	1.11	3.31	0.54	3.86	0.63	3.4	9.2	22.3	111	8.6	8.4	2.4
11-AAB-0297	Rock	3.77	8.6	0.78	0.13	0.48	0.15	0.95	0.26	1.04	0.22	1.83	0.37	2.4	1.3	21.9	35	2.1	8.4	0.4
11-AAB-0298	Rock	3.87	8.8	0.95	0.16	0.69	0.14	0.83	0.23	0.71	0.13	1.05	0.22	1.1	0.9	8.9	28	1.2	1.9	0.2
11-AAB-0290	Rock	16.02	43.8	5.28	0.58	3.02	0.65	3.63	0.86	3.00	0.52	4.13	0.74	24.1	5.9	25.0	33	1.1	7.8	0.5
11-AAB-0295	Rock	13.49	24.6	2.70	0.59	2.28	0.51	3.58	0.98	3.82	0.75	5.24	0.92	31.8	36.5	2.8	959	8.3	58.5	23.8
11-AAB-338	Rock	5.52	19.1	3.72	1.13	3.30	0.54	3.00	0.61	1.79	0.26	1.50	0.28	1.0	22.9	1.9	40	52.4	<0.5	<0.1
11-AAB-345	Rock	6.19	22.7	3.89	1.05	2.97	0.51	2.60	0.53	1.43	0.24	1.54	0.27	<0.1	8.7	11.5	37	7.6	0.5	<0.1
11-AAB-333	Rock	3.90	13.5	2.70	0.55	2.54	0.49	2.56	0.59	1.82	0.28	1.76	0.30	0.1	12.2	6.9	58	15.9	1.1	<0.1



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Project: TING PROP C
Report Date: August 23, 2011

Page: 2 of 3 **Part** 3

CERTIFICATE OF ANALYSIS

VAN11003256.1

	Method Analyte	Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX
			Bi	Ag	Au	Hg	Tl	Se
			ppm	ppm	ppb	ppm	ppm	ppm
			0.1	0.1	0.5	0.01	0.1	0.5
11-AAB-0292	Rock		0.2	0.5	0.7	<0.01	<0.1	0.7
11-AAB-0291	Rock		0.2	<0.1	0.6	<0.01	0.3	<0.5
11-AAB-0293	Rock		4.2	0.1	*	<0.01	0.8	2.3
11-MGB-258	Rock		0.2	0.2	<0.5	<0.01	0.3	<0.5
11-MGB-259	Rock		0.7	<0.1	<0.5	<0.01	0.1	<0.5
11-MGB-291	Rock		<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-295	Drill Core		8.6	<0.1	2.8	<0.01	<0.1	<0.5
11-MGB-292	Rock		<0.1	<0.1	1.6	<0.01	<0.1	<0.5
11-MGB-264	Rock		44.1	3.1	<0.5	0.01	3.5	1.3
11-MGB-283	Rock		0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-262	Rock		0.3	<0.1	<0.5	<0.01	0.3	<0.5
11-MGB-268	Rock		0.2	*	<0.5	<0.01	0.4	1.6
11-MGB-266	Rock		1.7	0.2	1.9	<0.01	0.3	<0.5
11-MGB-270	Rock		0.1	*	<0.5	0.01	<0.1	2.0
11-MGB-267	Rock		1.3	1.1	<0.5	0.03	0.2	1.6
11-MGB-260	Rock		0.3	0.1	<0.5	<0.01	0.4	<0.5
11-MGB-263	Rock		0.2	0.1	4.1	<0.01	0.5	<0.5
11-MGB-287	Rock		<0.1	<0.1	1.4	<0.01	0.2	<0.5
11-MGB-269	Rock		<0.1	<0.1	1.3	<0.01	2.2	<0.5
11-MGB-288	Rock		0.9	0.2	3.0	<0.01	<0.1	<0.5
11-MGB-290	Rock		0.4	<0.1	<0.5	<0.01	<0.1	0.7
11-MGB-289	Rock		0.3	<0.1	<0.5	<0.01	0.2	0.5
11-AAB-0294	Rock		0.2	<0.1	<0.5	<0.01	0.2	<0.5
11-AAB-0297	Rock		0.8	0.1	<0.5	<0.01	0.9	<0.5
11-AAB-0298	Rock		1.6	<0.1	0.9	<0.01	0.8	<0.5
11-AAB-0290	Rock		0.5	<0.1	0.7	0.01	0.3	<0.5
11-AAB-0295	Rock		5.0	<0.1	1.4	<0.01	0.2	3.0
11-AAB-338	Rock		<0.1	<0.1	0.8	<0.01	<0.1	0.6
11-AAB-345	Rock		<0.1	<0.1	0.9	<0.01	<0.1	<0.5
11-AAB-333	Rock		<0.1	<0.1	<0.5	<0.01	<0.1	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
11-AAB-337	Rock	1.54	977	1	10.8	2.9	18.9	3.6	13.0	95.1	2	557.4	0.8	11.6	3.0	98	1.1	138.4	16.7	30.6	57.6
11-AAB-342	Rock	1.14	875	2	10.1	2.3	19.4	3.4	13.6	89.6	1	625.1	1.0	12.0	3.4	98	1.1	141.0	15.6	31.6	58.1
11-AAB-339	Rock	1.33	208	<1	0.5	0.4	2.1	5.0	2.9	11.5	<1	20.3	0.2	3.3	1.1	23	<0.5	221.2	10.7	10.7	19.5
11-AAB-332	Rock	1.38	882	1	12.5	3.4	18.7	3.2	11.7	84.0	2	533.0	0.8	10.2	2.2	104	<0.5	126.4	17.1	29.0	56.4
11-AAB-354	Rock	1.98	210	<1	1.4	1.8	3.3	0.9	1.8	14.9	<1	27.8	<0.1	1.4	1.0	31	<0.5	40.9	3.8	6.5	8.1
11-AAB-334	Rock	1.48	1304	5	8.2	0.6	17.7	3.8	12.2	74.0	2	575.9	0.9	10.4	3.2	86	1.1	125.8	14.3	29.6	54.9
11-AAB-340	Rock	1.18	1021	2	11.1	3.9	18.8	3.9	11.7	91.4	2	564.5	1.1	10.0	3.1	100	0.7	128.4	16.0	29.0	53.9
11-AAB-353	Rock	4.71	234	6	1.9	4.8	10.4	1.1	2.5	95.3	2	28.5	0.2	2.3	1.8	127	<0.5	41.7	9.4	8.6	11.5
11-AAB-335	Rock	0.62	955	8	8.4	1.5	20.0	4.6	12.8	90.1	<1	548.9	1.0	10.7	3.4	88	0.9	133.6	14.5	29.2	55.7
11-MGB-300	Rock	4.18	335	1	1.9	0.5	2.0	9.4	3.4	5.1	<1	23.0	0.2	3.0	0.9	14	<0.5	316.9	11.3	10.2	22.0
11-MGB-326	Rock	1.02	60	<1	46.6	0.5	18.0	1.9	8.5	13.5	1	84.8	0.5	1.2	0.3	188	<0.5	69.8	20.2	8.7	19.0
11-MGB-328	Rock	1.44	149	<1	12.0	0.2	3.3	0.2	1.9	9.7	<1	120.7	0.1	<0.2	0.1	46	<0.5	13.0	21.9	2.7	8.4
11-MGB-327	Rock	0.33	71	<1	34.8	0.8	15.0	1.7	7.1	33.4	<1	127.5	0.5	1.5	0.3	165	<0.5	62.5	19.0	7.4	17.0
11-MGB-320	Rock	1.63	2067	1	0.6	2.8	6.6	1.9	3.2	40.1	<1	68.4	0.2	3.0	3.5	657	0.9	67.1	7.7	11.4	18.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
11-AAB-337	Rock	6.70	22.5	4.09	1.12	2.94	0.58	2.99	0.62	1.82	0.27	1.70	0.27	0.2	8.9	10.3	43	6.2	0.6	<0.1	<0.1
11-AAB-342	Rock	6.55	23.0	3.98	1.09	3.40	0.55	2.63	0.56	1.77	0.26	1.80	0.29	0.5	8.7	16.1	52	5.9	0.7	<0.1	<0.1
11-AAB-339	Rock	2.50	9.2	1.75	0.36	1.66	0.33	1.63	0.38	0.99	0.16	0.96	0.17	0.1	2.8	30.5	8	2.8	11.2	<0.1	0.3
11-AAB-332	Rock	6.22	19.7	4.03	1.11	3.59	0.54	2.58	0.66	1.60	0.25	1.94	0.25	0.1	10.4	10.1	46	10.2	<0.5	0.3	<0.1
11-AAB-354	Rock	1.21	4.2	0.75	0.14	0.64	0.09	0.56	0.15	0.42	0.08	0.38	0.08	1.8	2.6	1.3	8	2.4	2.9	<0.1	<0.1
11-AAB-334	Rock	6.35	21.8	3.88	0.96	3.17	0.51	2.91	0.57	1.38	0.24	1.45	0.24	0.8	6.9	6.4	58	7.1	<0.5	0.2	<0.1
11-AAB-340	Rock	6.23	20.3	4.17	1.06	3.39	0.55	2.75	0.63	1.89	0.26	1.50	0.25	0.2	10.7	9.2	44	9.6	0.5	<0.1	<0.1
11-AAB-353	Rock	1.62	4.6	0.76	0.15	0.77	0.14	1.03	0.26	0.72	0.13	0.66	0.12	0.2	8.4	1.4	32	6.9	2.1	0.1	<0.1
11-AAB-335	Rock	6.17	23.1	3.94	1.05	3.41	0.52	3.10	0.56	1.52	0.23	1.44	0.24	0.5	5.4	30.2	69	6.8	0.8	0.5	<0.1
11-MGB-300	Rock	2.51	10.4	1.78	0.37	1.67	0.28	1.86	0.38	1.05	0.19	1.49	0.21	0.1	3.2	2.7	50	8.4	3.1	0.2	0.6
11-MGB-326	Rock	2.43	9.8	3.39	1.21	4.16	0.66	3.78	0.72	2.12	0.28	1.50	0.24	0.1	40.4	2.2	66	167.5	<0.5	0.3	<0.1
11-MGB-328	Rock	1.32	7.3	2.76	1.52	4.67	0.81	4.33	0.69	1.96	0.21	1.34	0.16	<0.1	49.8	1.2	17	14.3	1.3	<0.1	0.1
11-MGB-327	Rock	2.17	8.9	3.02	1.27	3.71	0.66	3.64	0.70	1.85	0.26	1.48	0.23	0.3	44.5	1.9	60	115.7	1.2	<0.1	<0.1
11-MGB-320	Rock	2.30	10.4	1.51	0.31	1.26	0.19	1.15	0.22	0.59	0.10	0.71	0.12	9.3	12.5	5.8	19	5.9	8.6	<0.1	2.3



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX
		Bi	Ag	Au	Hg	Tl	Se
		ppm	ppm	ppb	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5
11-AAB-337	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-342	Rock	0.1	<0.1	3.3	0.01	<0.1	<0.5
11-AAB-339	Rock	<0.1	0.1	1.0	<0.01	<0.1	<0.5
11-AAB-332	Rock	<0.1	<0.1	1.8	0.02	<0.1	<0.5
11-AAB-354	Rock	<0.1	<0.1	1.6	0.02	<0.1	<0.5
11-AAB-334	Rock	<0.1	<0.1	1.7	<0.01	<0.1	<0.5
11-AAB-340	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-353	Rock	<0.1	<0.1	1.6	0.02	<0.1	0.6
11-AAB-335	Rock	0.1	<0.1	1.3	0.01	<0.1	<0.5
11-MGB-300	Rock	<0.1	<0.1	2.6	<0.01	<0.1	<0.5
11-MGB-326	Rock	<0.1	<0.1	1.3	<0.01	<0.1	<0.5
11-MGB-328	Rock	<0.1	<0.1	0.5	<0.01	<0.1	<0.5
11-MGB-327	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-320	Rock	<0.1	0.3	<0.5	0.04	<0.1	3.1



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QUALITY CONTROL REPORT

VAN11003256.1

	Method Analyte Unit MDL	WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
Pulp Duplicates																					
REP G1	QC		1085	4	4.4	4.7	19.9	4.7	27.2	135.3	1	809.7	1.6	10.9	3.9	49	<0.5	157.8	17.2	32.0	62.7
11-AAB-0292	Rock	1.42	1320	10	3.2	2.0	12.5	6.7	31.0	68.2	2	151.6	0.6	10.2	4.5	72	8.8	210.1	18.4	42.5	69.0
REP 11-AAB-0292	QC																				
11-MGB-270	Rock	3.48	907	217	1.8	2.5	24.5	7.3	198.9	63.8	6	193.5	1.2	617.9	23.9	2149	9.7	590.8	52.1	167.4	172.4
REP 11-MGB-270	QC																				
11-AAB-353	Rock	4.71	234	6	1.9	4.8	10.4	1.1	2.5	95.3	2	28.5	0.2	2.3	1.8	127	<0.5	41.7	9.4	8.6	11.5
REP 11-AAB-353	QC		229	7	1.5	4.8	11.1	1.4	2.4	96.3	1	28.7	0.3	2.9	1.7	127	<0.5	45.5	9.1	7.3	11.9
Core Reject Duplicates																					
11-MGB-258	Rock	1.19	1931	7	10.0	6.7	20.7	8.6	194.7	202.6	2	1358	11.4	42.1	10.5	67	2.4	460.0	29.4	160.9	267.8
DUP 11-MGB-258	QC		1892	5	11.0	6.5	21.0	8.7	200.1	200.2	3	1326	11.4	43.5	10.8	71	2.5	454.4	28.9	162.9	269.1
11-AAB-335	Rock	0.62	955	8	8.4	1.5	20.0	4.6	12.8	90.1	<1	548.9	1.0	10.7	3.4	88	0.9	133.6	14.5	29.2	55.7
DUP 11-AAB-335	QC		971	1	8.0	1.3	20.8	3.8	12.8	91.8	2	561.7	1.0	11.1	3.1	90	1.0	137.0	16.2	30.6	58.4
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD SO-18	Standard		520	<1	26.0	6.7	18.7	9.3	20.6	28.2	15	413.8	7.4	11.3	16.8	186	15.2	297.6	31.5	12.7	27.3
STD SO-18	Standard		522	<1	25.7	6.9	17.9	9.8	20.9	28.7	14	410.8	7.3	10.3	16.1	187	15.6	295.5	30.6	13.1	27.8
STD SO-18	Standard		530	<1	26.2	7.0	18.0	9.6	21.2	27.9	15	413.8	7.0	10.5	16.0	220	14.6	293.4	31.7	12.6	27.1
STD SO-18	Standard		518	<1	27.0	7.2	17.7	8.9	21.1	28.4	14	405.2	7.3	10.1	16.2	199	15.4	294.0	31.3	13.1	27.0
STD SO-18 Expected			514	1	26.2	7.1	17.6	9.8	21.3	28.7	15	407.4	7.4	9.9	16.4	200	14.8	280	31	12.3	27.1
STD DS8 Expected																					
STD OREAS45CA Expected																					
BLK	Blank																				
BLK	Blank																				



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
Pulp Duplicates																					
REP G1	QC	7.44	26.7	4.80	1.30	3.52	0.56	3.09	0.59	1.78	0.29	2.05	0.34								
11-AAB-0292	Rock	7.64	21.7	4.20	0.93	3.38	0.54	3.05	0.56	1.69	0.27	1.64	0.26	33.0	9.4	127.2	685	15.6	10.3	6.4	1.5
REP 11-AAB-0292	QC													34.3	9.7	124.4	673	15.3	10.7	6.3	1.3
11-MGB-270	Rock	12.15	27.8	3.88	0.75	3.56	0.75	4.37	1.09	3.79	0.61	4.58	0.78	37.9	93.6	154.2	2910	271.5	111.9	21.7	11.7
REP 11-MGB-270	QC													36.7	90.2	149.7	2821	261.0	110.1	20.5	11.0
11-AAB-353	Rock	1.62	4.6	0.76	0.15	0.77	0.14	1.03	0.26	0.72	0.13	0.66	0.12	0.2	8.4	1.4	32	6.9	2.1	0.1	<0.1
REP 11-AAB-353	QC	1.70	4.8	0.81	0.16	1.00	0.15	0.92	0.26	0.84	0.11	0.69	0.10								
Core Reject Duplicates																					
11-MGB-258	Rock	28.02	81.4	11.55	3.24	7.54	1.15	6.09	1.07	2.93	0.45	2.61	0.42	0.8	12.1	10.2	62	14.0	2.6	0.3	<0.1
DUP 11-MGB-258	QC	27.92	87.0	11.50	3.20	7.84	1.16	5.91	1.10	2.81	0.43	2.56	0.43	2.6	9.1	10.6	66	13.4	2.8	0.3	0.1
11-AAB-335	Rock	6.17	23.1	3.94	1.05	3.41	0.52	3.10	0.56	1.52	0.23	1.44	0.24	0.5	5.4	30.2	69	6.8	0.8	0.5	<0.1
DUP 11-AAB-335	QC	6.33	21.9	4.05	0.99	3.44	0.52	2.71	0.58	1.59	0.27	1.52	0.25	0.3	5.1	31.5	68	7.2	0.9	0.5	<0.1
Reference Materials																					
STD DS8	Standard													14.1	111.4	135.8	323	48.0	27.4	2.5	4.5
STD DS8	Standard													12.0	106.8	134.2	308	37.5	23.8	2.3	4.9
STD DS8	Standard													12.8	106.6	118.5	308	35.4	25.3	2.5	3.8
STD OREAS45CA	Standard													0.8	513.7	19.6	59	258.8	4.6	<0.1	<0.1
STD OREAS45CA	Standard													0.7	503.1	21.9	59	241.6	3.0	<0.1	<0.1
STD OREAS45CA	Standard													0.6	442.1	17.7	57	204.0	3.3	0.1	<0.1
STD SO-18	Standard	3.49	14.4	2.92	0.88	2.80	0.52	2.97	0.66	1.84	0.27	1.72	0.29								
STD SO-18	Standard	3.54	13.3	2.93	0.91	2.98	0.52	3.23	0.67	1.86	0.30	1.80	0.27								
STD SO-18	Standard	3.47	14.0	3.11	0.95	3.10	0.52	3.03	0.61	1.92	0.31	1.86	0.29								
STD SO-18	Standard	3.52	13.2	3.04	0.89	3.00	0.52	2.87	0.63	1.84	0.29	1.85	0.29								
STD SO-18 Expected		3.45	14	3	0.89	2.93	0.53	3	0.62	1.84	0.27	1.79	0.27								
STD DS8 Expected														13.44	110	123	312	38.1	26	2.38	4.8
STD OREAS45CA Expected														1	494	20	60	240	3.8	0.1	0.13
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX
		Bi	Ag	Au	Hg	Tl	Se
		ppm	ppm	ppb	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5
Pulp Duplicates							
REP G1	QC						
11-AAB-0292	Rock	0.2	0.5	0.7	<0.01	<0.1	0.7
REP 11-AAB-0292	QC	0.2	0.5	<0.5	<0.01	<0.1	<0.5
11-MGB-270	Rock	0.1	*	<0.5	0.01	<0.1	2.0
REP 11-MGB-270	QC	0.1	*	<0.5	0.01	<0.1	1.6
11-AAB-353	Rock	<0.1	<0.1	1.6	0.02	<0.1	0.6
REP 11-AAB-353	QC						
Core Reject Duplicates							
11-MGB-258	Rock	0.2	0.2	<0.5	<0.01	0.3	<0.5
DUP 11-MGB-258	QC	0.2	0.1	<0.5	<0.01	0.3	<0.5
11-AAB-335	Rock	0.1	<0.1	1.3	0.01	<0.1	<0.5
DUP 11-AAB-335	QC	0.1	<0.1	0.6	<0.01	<0.1	<0.5
Reference Materials							
STD DS8	Standard	6.8	1.8	273.6	0.19	5.6	5.6
STD DS8	Standard	7.3	1.8	99.1	0.22	5.4	5.2
STD DS8	Standard	6.1	1.7	107.4	0.18	5.2	4.5
STD OREAS45CA	Standard	0.2	0.3	39.5	0.03	<0.1	<0.5
STD OREAS45CA	Standard	0.2	0.3	43.3	0.02	<0.1	0.6
STD OREAS45CA	Standard	0.1	0.3	37.2	0.02	<0.1	<0.5
STD SO-18	Standard						
STD SO-18	Standard						
STD SO-18	Standard						
STD SO-18	Standard						
STD SO-18 Expected							
STD DS8 Expected		6.67	1.69	107	0.192	5.4	5.23
STD OREAS45CA Expected		0.19	0.275	43	0.03	0.07	0.5
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5



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		WGHT	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
BLK	Blank		<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1
BLK	Blank		<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	1218	3	4.3	5.4	19.2	3.6	25.8	135.4	1	814.2	1.6	10.1	3.6	54	<0.5	152.6	17.6	35.2	67.1
G1	Prep Blank	<0.01																			
G1	Prep Blank		1082	3	4.1	4.6	17.8	4.3	27.5	133.9	2	771.6	1.7	9.7	3.9	49	<0.5	153.1	16.9	30.5	60.2



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QUALITY CONTROL REPORT

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		4B Pr ppm 0.02	4B Nd ppm 0.3	4B Sm ppm 0.05	4B Eu ppm 0.02	4B Gd ppm 0.05	4B Tb ppm 0.01	4B Dy ppm 0.05	4B Ho ppm 0.02	4B Er ppm 0.03	4B Tm ppm 0.01	4B Yb ppm 0.05	4B Lu ppm 0.01	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ni ppm 0.1	1DX As ppm 0.5	1DX Cd ppm 0.1	1DX Sb ppm 0.1
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
Prep Wash																					
G1	Prep Blank	7.99	26.6	5.05	1.36	3.83	0.59	3.10	0.65	1.80	0.33	2.09	0.33	2.5	43.9	3.9	51	3.1	<0.5	<0.1	<0.1
G1	Prep Blank													2.8	13.7	3.4	48	3.6	<0.5	<0.1	<0.1
G1	Prep Blank	7.15	24.8	4.74	1.22	3.51	0.56	3.01	0.60	2.00	0.30	2.01	0.35								



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		1DX Bi ppm 0.1	1DX Ag ppm 0.1	1DX Au ppb 0.5	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX Se ppm 0.5
BLK	Blank						
BLK	Blank						
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
Prep Wash							
G1	Prep Blank	0.2	<0.1	65.7	<0.01	0.3	<0.5
G1	Prep Blank	<0.1	<0.1	1.9	<0.01	0.3	<0.5
G1	Prep Blank						