

Geological Report

on the

Sookie Claims (1-44)
(YF20924-YF20967)

located

Northwest of the Beaver River

(NTS Mapsheet 095D10- NAD 83 Zone 9)
Watson Lake Mining District
Yukon Territory

Property Centroid: 619204 E/ 6718160 N

on

June 13, July 11th, August 9th, August 17th, and August 22nd-23rd 2012

for

Harsbo Minerals Ltd.

By

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August 15th, 2012

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1. Introduction, Location and Access

This summary and technical report details the field work completed June 13, July 11th, August 9th, August 17th, and August 22nd-23rd 2012 on the Sookie property. The property is located in the southeast Yukon, at the west end of the Beaver River, on NTS Mapsheet 095D10, lying within the Watson Lake mining district. The central coordinates for the claim block are 619204 mE, 6718160 mN, UTM Zone 9.

The property consists of 44 contiguous mineral claims - Sookie Claims (YF20924-YF20967), staked near a regional airborne magnetic anomaly to the east, an existing minfile occurrence (095D 019, 'Seraphim' - Zinc) and some Zn, Cu and Pb RGS silt anomalies. These claims have been registered with the Watson Lake Mining Recorder's Office and are in good standing (See Table 1 and Fig. 2, below).

Access is limited to sparse clearings in the creek valleys, and one ridge top clearing (clearing of more pads on the other ridge tops is suggested). All areas are heavily forested, and some creek beds are deeply incised, exposing large vertical outcrops several tens of meters high. This occurs particularly prominently in the north end of the claim block; an area that corresponds to the highest silt sample anomalies on the property.

In 2011, the claims were prospected, sampled (rocks and soils) and silt samples were obtained from drainages in the surrounding area by Mackevoy Geosciences Ltd. The program was completed by M. Burns (B.Sc.), and A. Brand (M.Sc.) along with geological assistants. The camp was located at the abandoned Smith River Airstrip (9V 643830E/6641612N), and access to the property was provided by a Tech Helicopters' R-44 out of Prince George. The work involved several days of silt and soil sampling as well as prospecting, throughout the summer on isolated dates (June 13, July 11th, August 9th, August 17th, and August 22/23rd). 106 samples (68 soils, 13 silts, and 25 rock samples) were collected in total. A Bell 206 (Capital Helicopters) out of Whitehorse was also used to access the property. M. Burns (B.Sc., Ph.D. Candidate), A. Brand (M.Sc.), J. Merola, W. Harman, and B. Quist (M.Sc.) were present for this work.

Since much of this work was conducted as regional exploration, prior to the staking of the claims on August 21, 2012, the statement of expenditures therefore only counts the work done

and the samples taken after this date (55 samples total), *i.e.*, Aug 22th/23rd, 2012. This includes two days with four people, or 8 person days.

Fig. 1. Location of the Sookie claims.

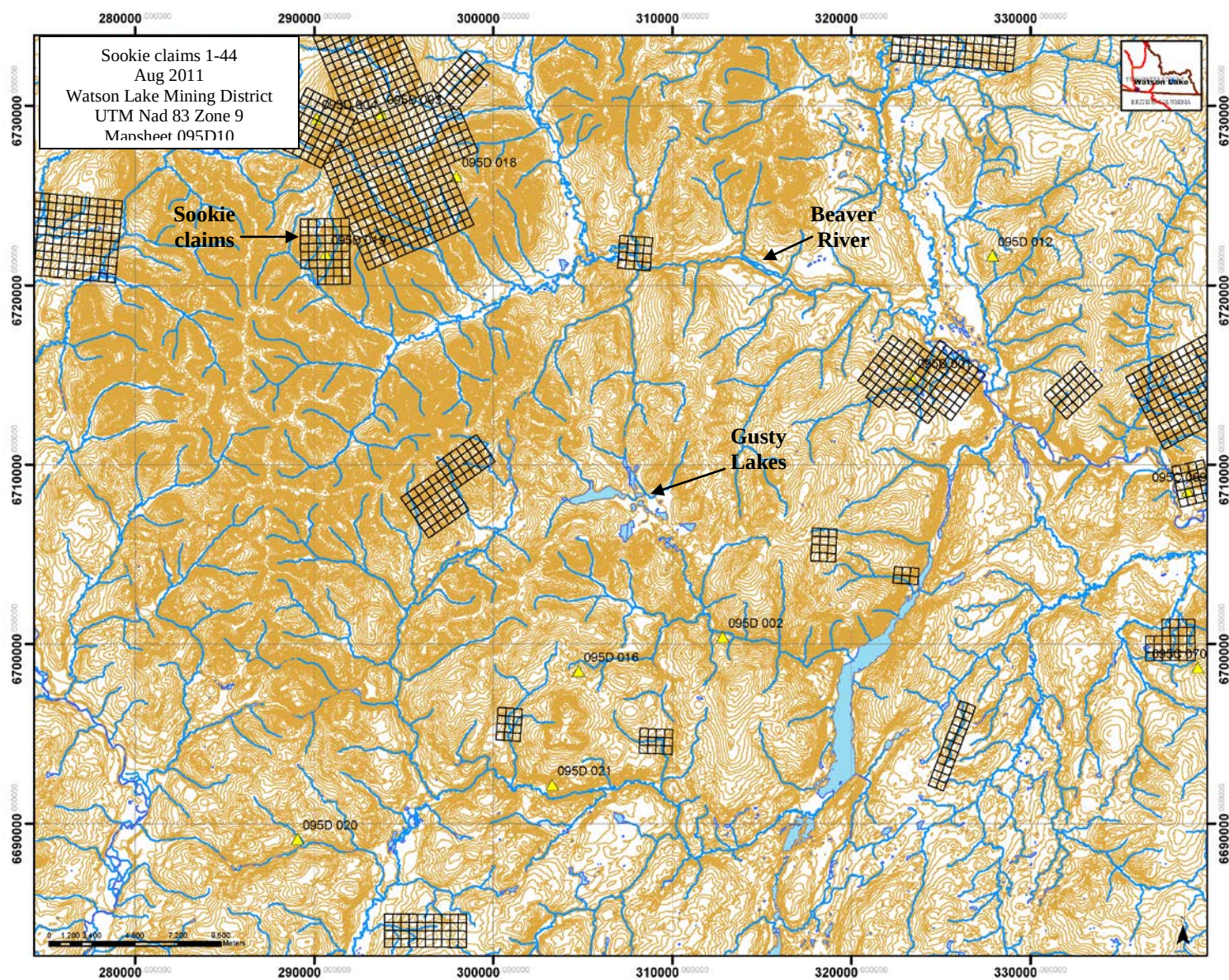
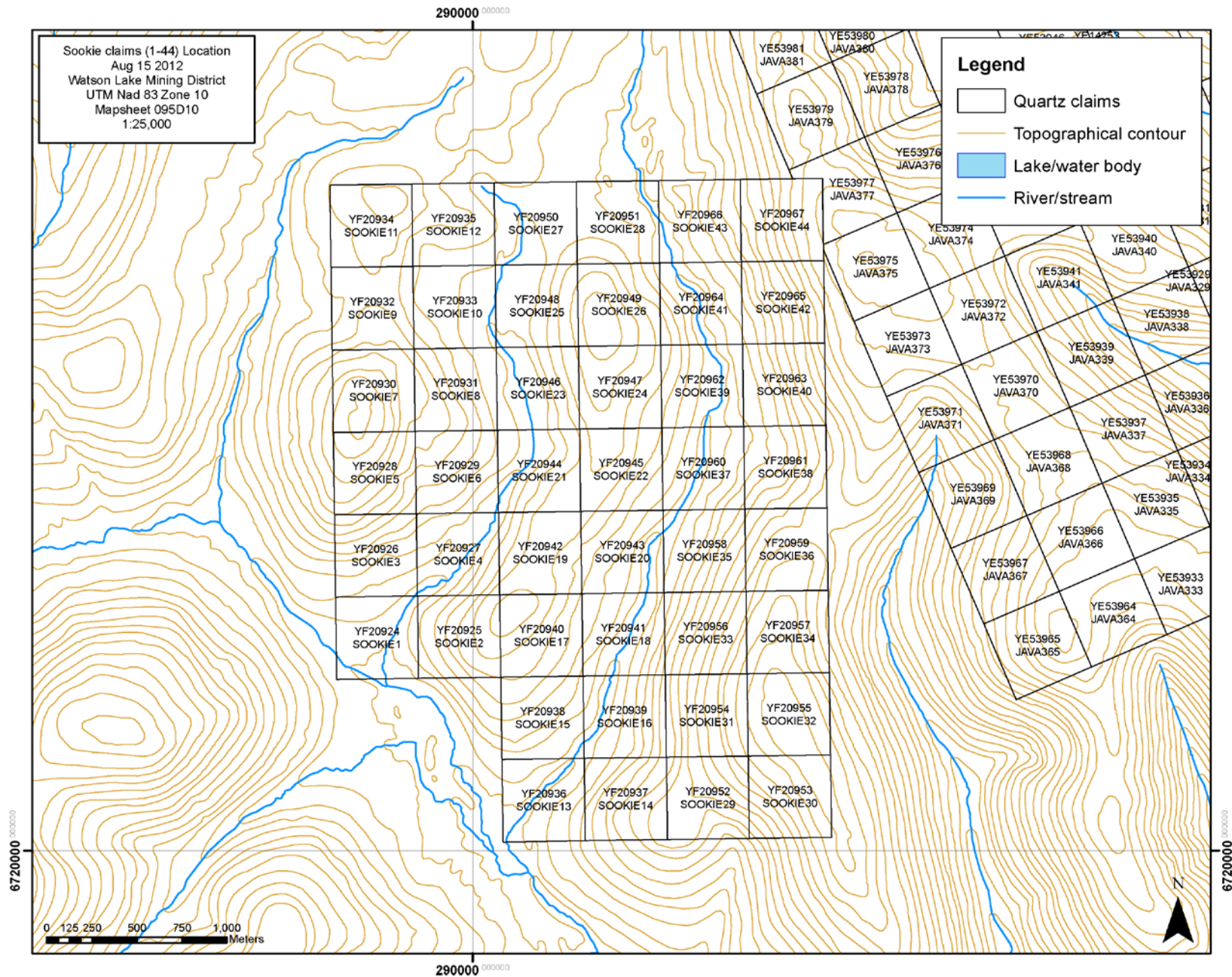


Table 1. Sookie claims – Watson Lake Mining District

GRANT_NUMB	CLAIM_LABE	OWNER_NAME	EXPIRY_DAT	DISTRICT_N
YF20924	SOOKIE 1	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20925	SOOKIE 2	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20926	SOOKIE 3	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20927	SOOKIE 4	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20928	SOOKIE 5	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20929	SOOKIE 6	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20930	SOOKIE 7	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20931	SOOKIE 8	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20932	SOOKIE 9	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20933	SOOKIE 10	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20934	SOOKIE 11	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20935	SOOKIE 12	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20936	SOOKIE 13	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20937	SOOKIE 14	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20938	SOOKIE 15	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20939	SOOKIE 16	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20940	SOOKIE 17	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20941	SOOKIE 18	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20942	SOOKIE 19	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20943	SOOKIE 20	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20944	SOOKIE 21	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20945	SOOKIE 22	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20946	SOOKIE 23	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20947	SOOKIE 24	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20948	SOOKIE 25	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20949	SOOKIE 26	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20950	SOOKIE 27	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20951	SOOKIE 28	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20952	SOOKIE 29	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20953	SOOKIE 30	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20954	SOOKIE 31	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20955	SOOKIE 32	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20956	SOOKIE 33	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20957	SOOKIE 34	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20958	SOOKIE 35	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20959	SOOKIE 36	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20960	SOOKIE 37	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20961	SOOKIE 38	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake

YF20962	SOOKIE 39	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20963	SOOKIE 40	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20964	SOOKIE 41	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20965	SOOKIE 42	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20966	SOOKIE 43	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake
YF20967	SOOKIE 44	HARSBO MINERALS LTD. - 100%	8/23/2012 0:00	Watson Lake

Fig. 2. Claim locations for Sookie 1-44.



2. Property History

The 095D mapsheet has seen little exploration compared to other areas in the Yukon due to limited access and limited public geoscience data. In the early 1970's the government sponsored a mapping project in the Flat River (Gabrielse, 1973). Heffernan (2004) described a regional study of mid-Cretaceous intrusions that included parts of the Coal and Flat Rivers. The Mineral, Energy, and Resource Assessment (MERA) study by Wright et al. (2007) covered some of the area and included work by Rasmussen et al. (2007), Yuvar et al. (2007) and Caron et al. (2007). The most recent work in the area was conducted by the YGS in 2009 and 2010; the project consisted of an extensive mapping project on mapsheet 095D by Pigage et al. (2010). Industry exploration was conducted by "Archer Cathro" in the late 1970's and early 1980's, primarily for tungsten mineralization. During the course of their exploration, they identified several granite outcrops that were not included on regional geological maps until recently (Pigage et al., 2009). Recent work by industry has focused on gold mineralization in the vicinity of the Hyland Gold claims (e.g., Jones, 1997).

Sookie was staked near a regional airborne magnetic anomaly to the east, an existing minifile occurrence (095D 019, 'Seraphim' - Zinc) and some Zn, Cu and Pb RGS silt anomalies. The 'Seraphim' property was originally staked as "D.K." (cl 1-16, YA67003; cl 17-24, YA67162; and cl 25-48, YA67309) in August - September 1982 by the Karst Syndicate (K.J. Springer, Dome Mines Ltd and others), which performed mapping and geochemical sampling in 1981 and 1982. While a high Zinc background was obtained over the shale in the area, the copper and lead response was low. No further work was documented on the property subsequent to this.

3. Regional and Property Geology

The geology of the Upper Coal River is dominated by rocks of the eastern margin of the Selwyn basin and mid-Cretaceous granitic intrusions. The marine sedimentary rocks range in age from Proterozoic to Devonian and in general grade from clastic sediments to the west (Crow Formation of the Selwyn Basin) to carbonate sediments in the east (McDonald Platform). Intrusive rocks of the Upper Coal River are dominated by the Upper Coal Batholith whose main lobe crosses into the NWT; smaller plutons are periodically exposed along the length of the watershed divide.

Granitoids in the area are variably evolved and range from homogenous equigranular granodiorite to multi-stage intrusives which can contain tourmaline- and beryl-bearing two mica granites, pegmatite dykes, aplites and quartz veins. Cu-Pb-Zn skarns are located in the area and tungsten-bearing skarns are located along the margins of some of the plutons. Work by Rasmussen et al. (2007) and Bezzola (2009) suggests that there may be a younger intrusive suite that weathers recessively. No granitoids were seen on the Sookie property.

The two main units encountered in the area are the Road River Group and the Sunblood Formation. A description of each unit (from Pigage et al., 2009) follows:

Road River Formation:

Consists of 'dark grey, noncalcareous to calcareous, graptolitic, silty shale. Interbeds within the shale include dark grey to black limestone and tan-weathering sandstone and siltstone.

Overwhelmingly, the distinctive characteristics of the Road River Group are the presence of dark grey to black, organic material and the common occurrence of graptolites'. It is Silurian-Devonian in age.

Sunblood Formation:

Consists of light to dark grey, light brownish grey-, buff- or orange-weathering, mottled, thin- to thick-bedded dolostone or limestone; commonly bioturbated; locally laminated. Another group in the Sunblood Formation consists of greyish green to green, grey-weathering, thick bedded basaltic lapilli tuffs and breccias interbedded with amygdaloidal, vesicular or massive, pillowed basaltic flows. It is Ordovician in age.

4. Property geology

The Sookie property is underlain by the Ordovician SunBlood Formation which “consists of light to dark grey, light brownish grey-, buff- or orange-weathering, mottled, thin- to thick-bedded dolostone or limestone; commonly bioturbated; locally laminated” (Pigage, 2009).

A contact with the SunBlood Formation and the Road River group (“dark grey to black, pale grey-weathering, locally calcareous or dolomitic, locally graptolitic, recessive shale or siltstone; lesser very fine-grained sandstone, bedded chert, dolostone and limestone”, Pigage, 2009) is located to the north of the property.

5. Current Mineral Exploration

The 2011 Sookie claims assessment work program was designed to follow up on a regional magnetics anomaly, accompanied by an existing minfile occurrence (095D 019) and an RGS anomaly (Cu, Zn, Pb). Prospecting and sampling of the claims was conducted over the course of the field program.

A variety of samples were taken based on geological affinity and hand sample mineralogy. Rock samples originated exclusively from outcrops of sedimentary origin. A total of 68 soil, 25 rock and 13 silt samples were collected from the Sookie property during the 2011 field season. Eleven out of the 106 samples lie outside the claim boundary, and are therefore not included in the calculations for the Statement of Expenditures at the end of the report.

Assays can be found in the accompanying certificates. Samples were submitted to Acme Labs Ltd in Vancouver, BC. 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. Table 2 shows a description of the samples taken.

Notable results include:

- Au was elevated in silt sample 11-MGB-426 to 3.8 ppb (regional average was .77 ppb).
- Ba was elevated in multiple soil samples (highest value was 9211 ppm, regional average is 1137 ppm) and in one silt sample (5324 ppm, regional average is 1260 ppm).
- Co, Cu, Ni, Mo, U, Tl and Zn were all significantly elevated in silt sample 11-J2-121; no significant Co, Cu, Ni or Zn anomalies were detected in collected rock or soil samples.
- Cu was elevated in silt sample 11-J2-120.
- V was significantly elevated in multiple soil and silt samples.

Figure 3 shows the sample locations along with Au results, while Figure 4 through 13 shows Cu, Mo, Ni, V and Zn results, respectively.

Table 2. Samples collected on the Sookie claims (1-44).

Sample ID	Type	Description	Easting	Northing
11-AAB-0453	Rock	OC (on claims?) - dark grey massive fgr crystalline LS (?) white veins/infilled fractures of cc and limonite. 65-85 cps. Dense.	620617	6718929
11-AAB-0456	Rock	subcrop - OC in place but rotated. Dark grey fgr crystalline LS/SS (?) interbedded? Very dense. Stockwork (approx.) rusty q.v. (+/-cc) veins sub-mm to mm wide, pervasive throughout.	620464	6718917
11-J2-110	Rock	no description	619029	6717043
11-J2-199	Rock	fairly large skree slope, non-magnetic, doesn't fizz, weathers grey, buff on fresh surface, slightly oxidized. Meta sed wacke? Sanstone? Subhorizontally bedded, outcrop 25x15m, visible from the air, qtz veins infilled.	618226	6718243
11-J2-201	Rock	limestone float angular. Dark grey oxidized in areas with calcite veining. No visible sulphides, but oxidation suggest mineralization (Cu source?)	618315	6717955
11-J2-205	Rock	limestone? Fizzes with acid, med grey, calcite veins, kind of muddled looking, very small outcrop 1.5x.5 m rounded and moss covered	618200	6717508
11-J2-207	Rock	subcrop, angular, limestone with huge (1.5 cm calcite crystals), oxidized in area.	618274	6717269
11-MGB-326	Rock	talus close to source in cliffs above, Mafic chlorite alteration. Fine grained, no suilphides.	645621	6698416
11-MGB-327	Rock	outcrop and subcrop small 1cm vein or sphalerite / galena? X cutting finegrained mafic volcanic.	645487	6698355
11-MGB-328	Rock	outcrop, 5cm qtz calcite with geothite alteration x cutting rusty weathering volcanic.	645409	6698430
11-MGB-427	Rock	rock qtz sandstone in float but very angular rusty orange weather cut by micro veinlets of qtz	619283	6717797
11-MGB-431	Rock	rock very rusty from tree topple	619245	6717405
11-MGB-432	Rock	rock oc qtz feldspar schist with cm qtz veins vuggy cutting exposure	619143	6717228
11-WJH-044	Rock	rounded float. But no other rocks around; a lot of different looking seds rocks. Sample is of intrsuive float though; mgr, weathered, biot + hbl'd (alteration?) Also ss and other layered and non-layered seds. 120 cps.	619922	6718756
11-WJH-046	Rock	OC - mgr sandstone with kfsp and random quartz veins of variable widths (1-3 mm) stockwork? Grey-beige. Empty vugs with occasional fsp infill.	619814	6718833
11-WJH-048	Rock	OC- grey mgr recrystallized ss (as above) but increased density of quartz veining, and decreased overall weathering intensity. Grey.	619788	6718868
11-WJH-050	Rock	OC - rusty orange alt'd, porous greywake/ss. More alt'd, less veins than - 048.	619716	6718987
11-WJH-052	Rock	OC- rusty mgr ss, (as above) but veined w/ 1-2 mm wide randomly oriented QV.	619600	6719076
11-WJH-056	Rock	subcrop;rusty fgr planar bedded siltstone dk grey/rusty; occasional thin veins (qtz, <1mm) along and crosscutting bedding.	619537	6719524
11-WJH-059	Rock	OC - yellow-orange and rusty red fgr volcanic? Alt'd rhyolite? Very very low density, scints higher: 180cps.	619581	6719495
11-WJH-060	Rock	OC- much more dense fgr (lower rusty) dark grey bedded siltstone.	619582	6719495
11-WJH-064	Rock	subcrop - fgr bedded siltstone w/ rusty weathering	619904	6719000
11-WJH-066	Rock	OC -low scint - <100. rusty porous laminated quartzite and siltstone. Platy micas and pyrolusite.	619877	6718882
11-WJH-068	Rock	float. Talus - vfgr platy siltstone; rusty w/ cc/qtz vein ?	619975	6718707
11-J2-202	Rock	sedimentary (sandstone), varies, some is coarser grained and more altered/oxidized. Other stuff is finer grained, more pristine almost cherty looking	618284	6717917
11-BCQ-	Silt		618422	6716396

0152				
11-BCQ-0153	Silt		618338	6716726
11-BCQ-0154	Silt		618381	6716825
11-BCQ-0155	Silt		619238	6716215
11-J2-119	Silt		618965	6718324
11-J2-120	Silt		619261	6719997
11-J2-121	Silt		619280	6719928
11-J2-122	Silt		619370	6719787
11-J2-123	Silt		619375	6719792
11-MGB-329	Silt		643838	6698628
11-MGB-426	Silt		620014	6718566
11-MGB-433	Silt		618708	6716503
11-WJH-058	Silt		619559	6719493
11-AAB-0451	Soil		620871	6718976
11-AAB-0452	Soil		620616	6718928
11-AAB-0454	Soil		620486	6718915
11-AAB-0455	Soil		620463	6718918
11-AAB-0457	Soil		620367	6718927
11-AAB-0458	Soil		620309	6718901
11-AAB-0459	Soil		620225	6718906
11-AAB-0460	Soil		620126	6718867
11-AAB-0461	Soil		620092	6718801
11-AAB-0462	Soil		620035	6718777
11-AAB-0463	Soil		619908	6718498
11-AAB-0464	Soil		619894	6718438
11-AAB-0465	Soil		619868	6718383
11-J2-091	Soil		619990	6718564
11-J2-092	Soil		619892	6718560
11-J2-093	Soil		619792	6718541
11-J2-094	Soil		619722	6718514
11-J2-095	Soil		619628	6718483
11-J2-096	Soil		619522	6718428
11-J2-097	Soil		619455	6718335
11-J2-098	Soil		619474	6718172
11-J2-099	Soil		619417	6718071
11-J2-100	Soil		619394	6717972
11-J2-101	Soil		619348	6717885
11-J2-102	Soil		619256	6717792
11-J2-103	Soil		619165	6717716
11-J2-104	Soil		619201	6717609
11-J2-105	Soil		619152	6717500
11-J2-106	Soil		619167	6717385
11-J2-107	Soil		619160	6717286
11-J2-108	Soil		619117	6717182
11-J2-109	Soil		619060	6717095
11-J2-111	Soil		619001	6717016
11-J2-112	Soil		618969	6716919
11-J2-113	Soil		618990	6716814
11-J2-114	Soil		618971	6716709

11-J2-115	Soil		618932	6716614
11-J2-116	Soil		618904	6716567
11-J2-117	Soil		618854	6716468
11-J2-118	Soil		618760	6716482
11-J2-191	Soil		618612	6718745
11-J2-192	Soil		618499	6718783
11-J2-193	Soil		618428	6718814
11-J2-194	Soil		618352	6718861
11-J2-195	Soil		618365	6718742
11-J2-196	Soil		618418	6718622
11-J2-197	Soil		618382	6718481
11-J2-198	Soil		618344	6718325
11-MGB-428	Soil		619324	6717510
11-MGB-429	Soil		619260	6717468
11-MGB-430	Soil		619242	6717410
11-WJH-045	Soil		619922	6718756
11-WJH-047	Soil		619811	6718837
11-WJH-049	Soil		619786	6718863
11-WJH-051	Soil		619717	6718989
11-WJH-053	Soil		619598	6719074
11-WJH-054	Soil		619537	6719214
11-WJH-055	Soil		619488	6719424
11-WJH-057	Soil		619535	6719528
11-WJH-061	Soil		619648	6719464
11-WJH-062	Soil		619695	6719383
11-WJH-063	Soil		619761	6719231
11-WJH-065	Soil		619904	6719000
11-WJH-067	Soil		619975	6718707
11-J2-200	Soil		618326	6718035
11-J2-203	Soil		618191	6717722
11-J2-204	Soil		618188	6717523
11-J2-206	Soil		618266	6717293

Fig. 3. Sample Location Map for the Sookie claims (2011), along with Au values.

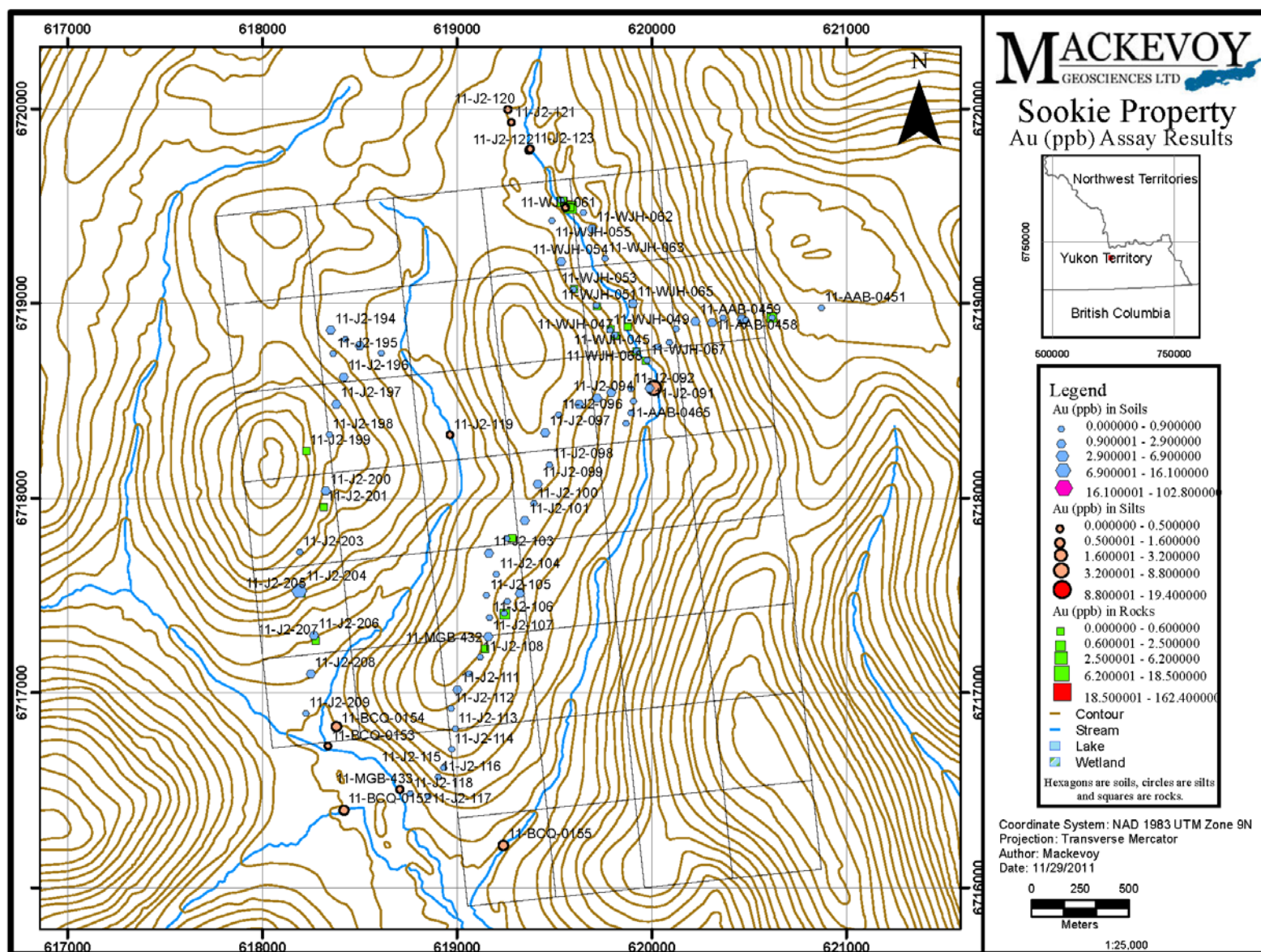


Fig. 4. Copper results.

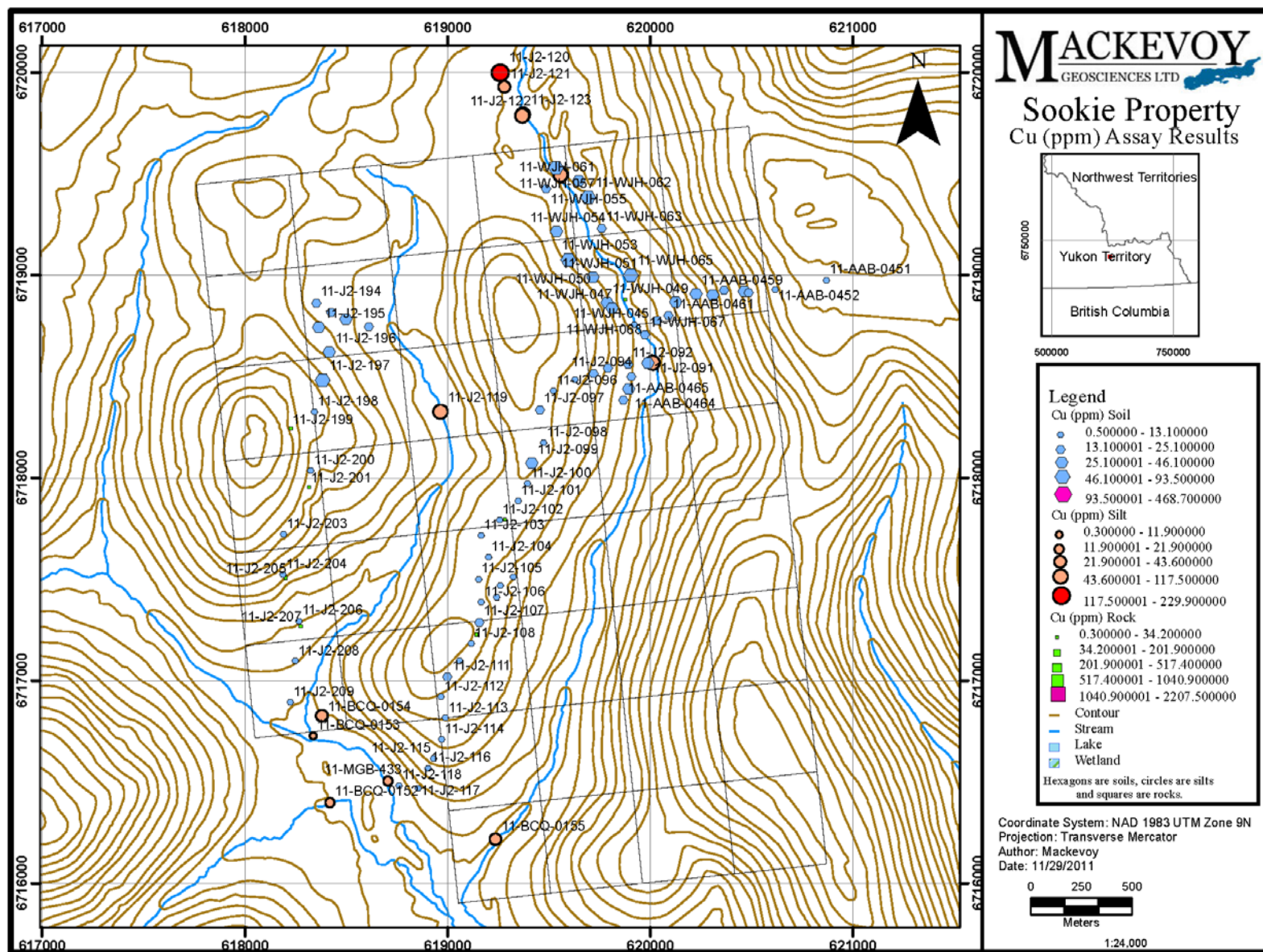


Fig. 5. Molybdenum results.

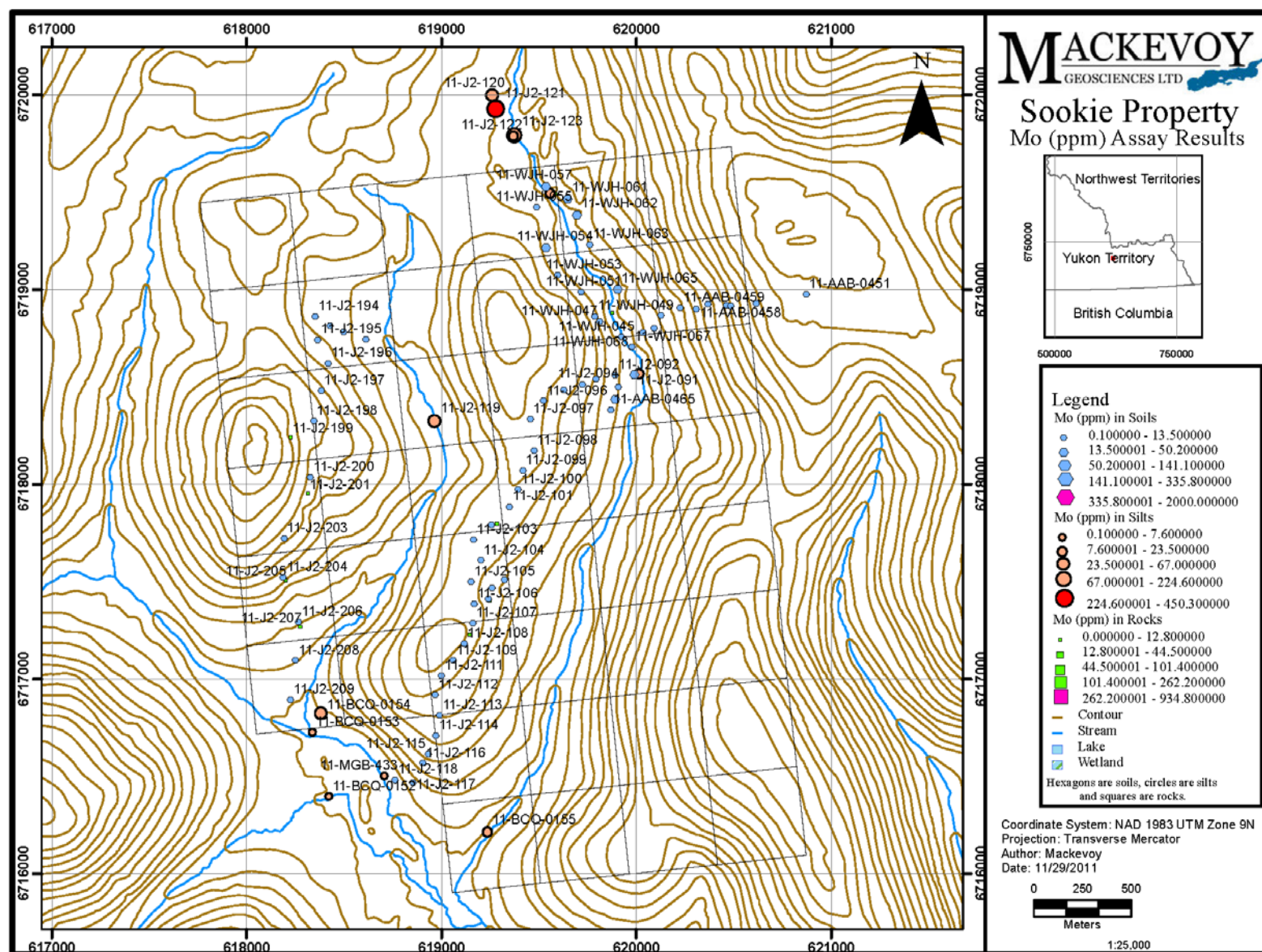


Fig. 6. Nickel results.

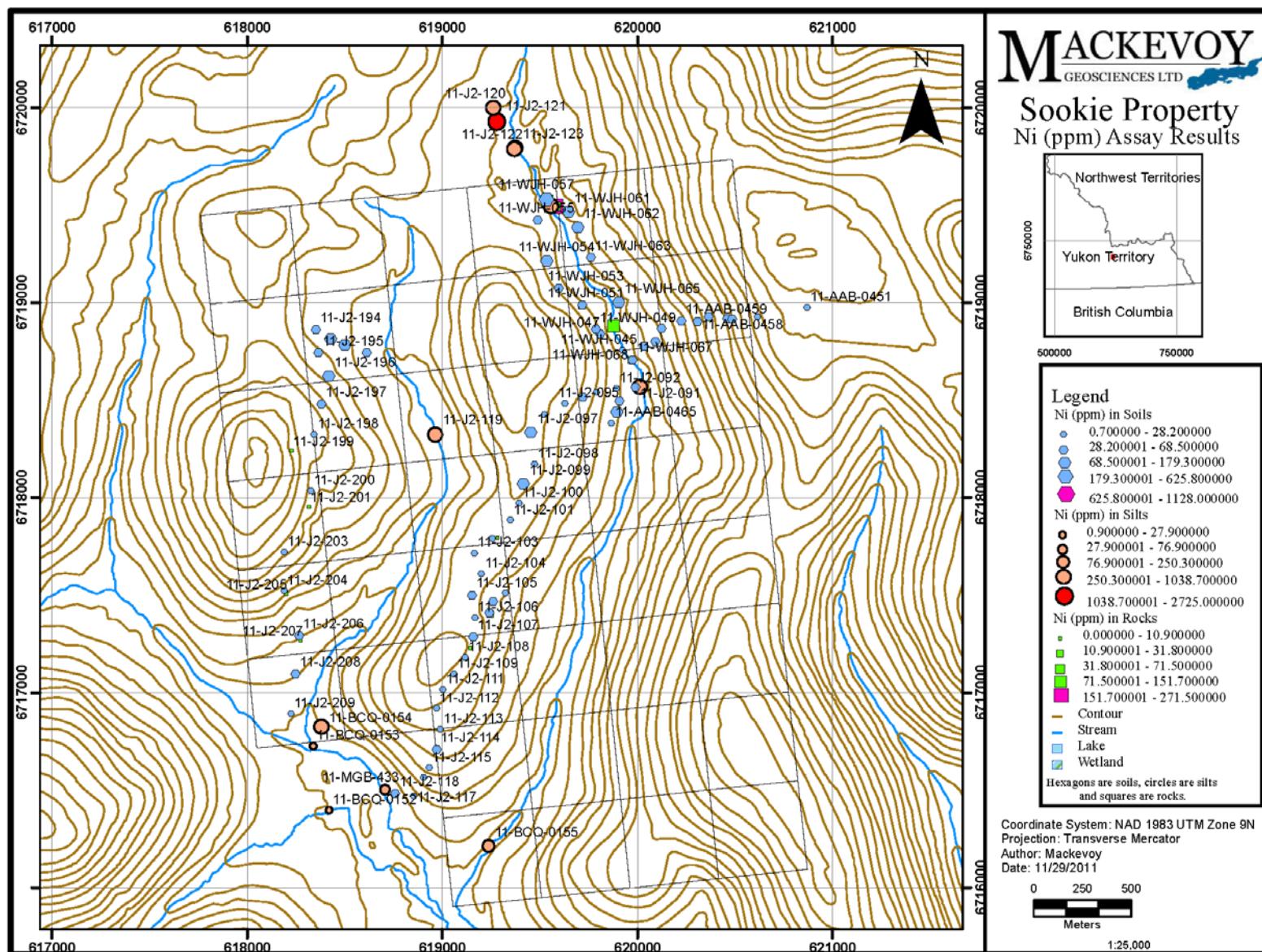


Fig. 7. Vanadium results.

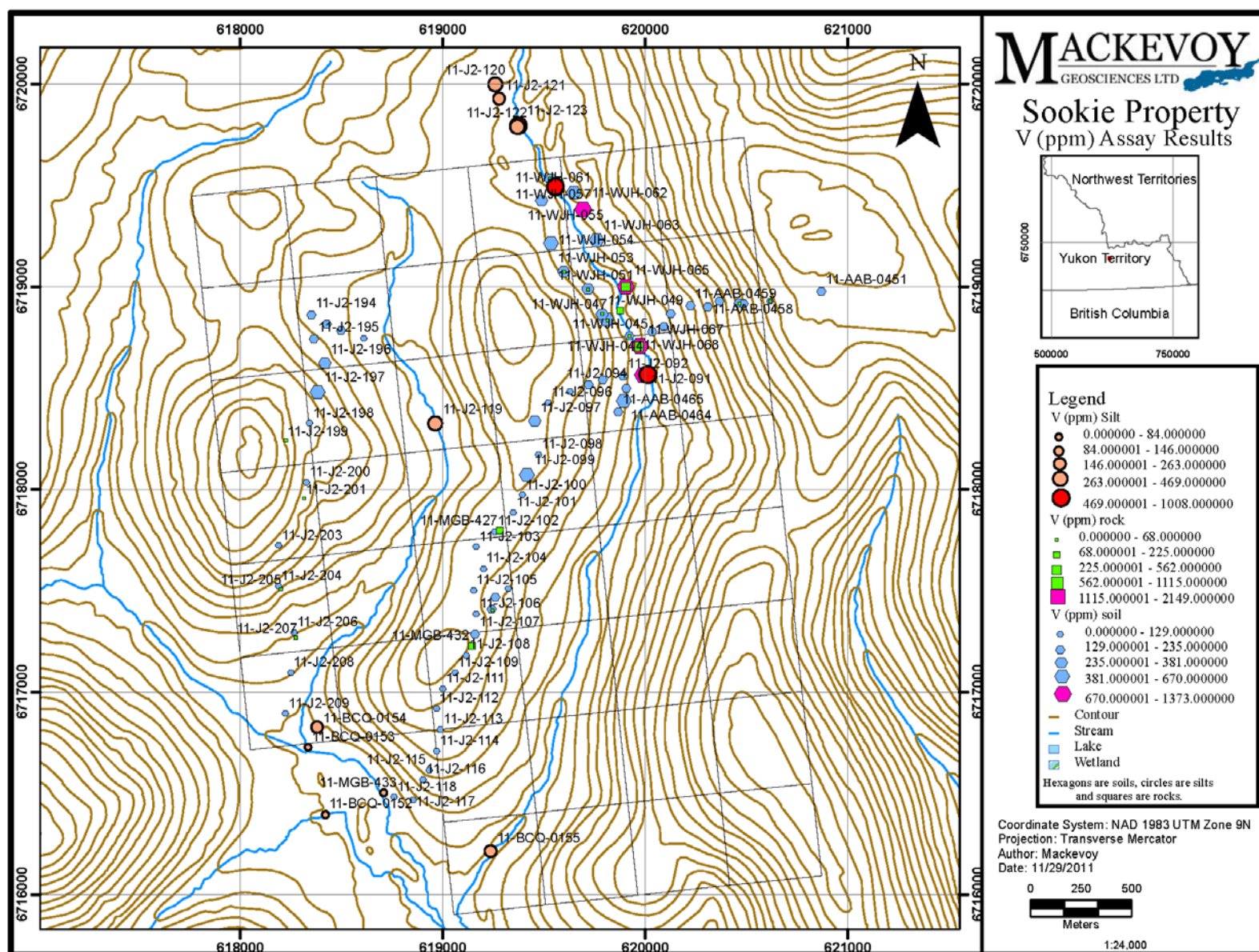
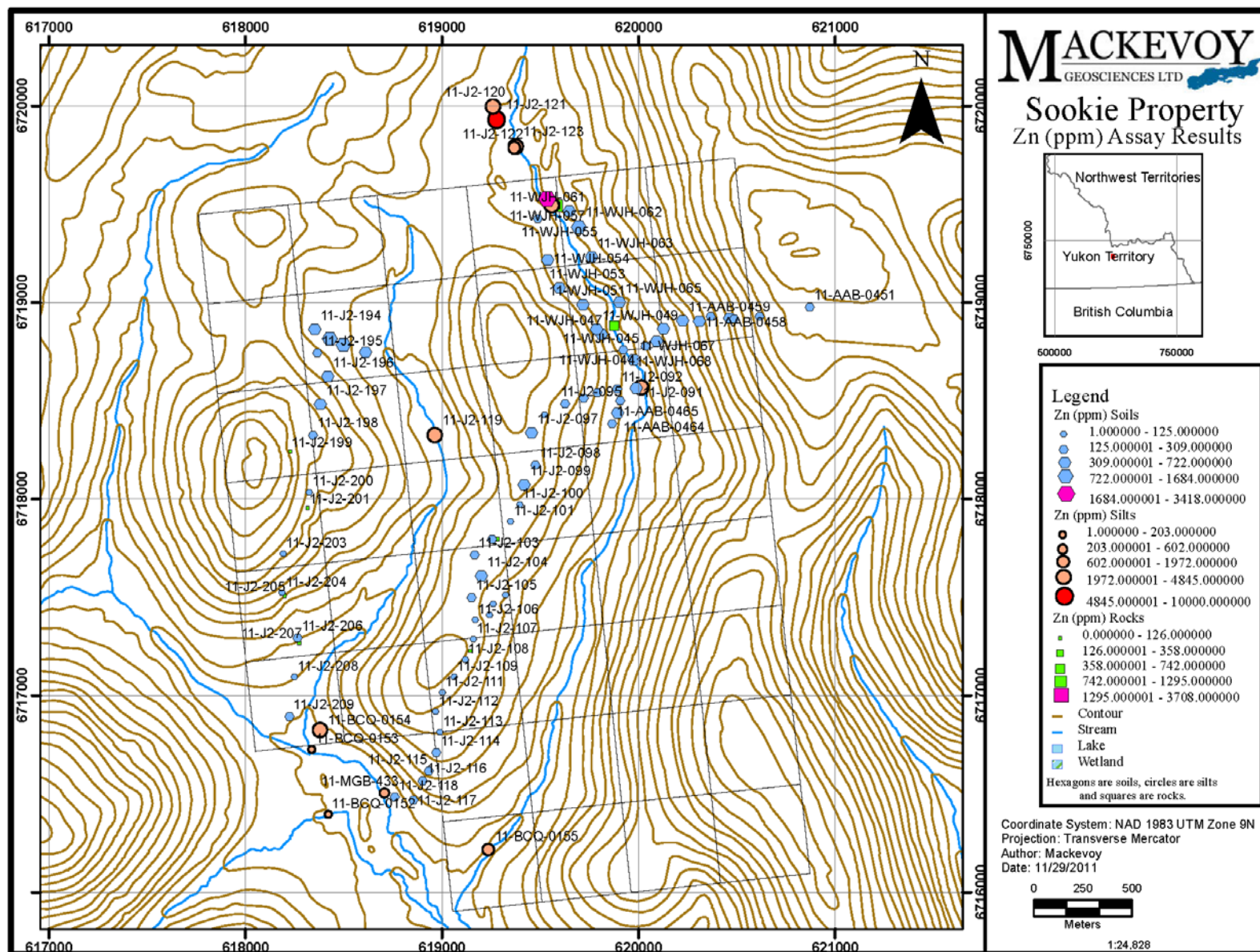


Fig. 8. Zinc results.



6. Conclusions and Recommendations

The source of the anomalies detected in silt sample 11-J2-121 remains unknown, although the topography and drainage at the sample site is suggestive of a local source. The east side of the creek has not been investigated and should be prospected and soil sampled to aid in determining the source of the Ni, Pb, Zn, Co, Cu, U, Tl and of the Ba. Prospecting and sampling should also continue further upstream north of the current claim block, and further up onto the steeper eastern ridge, although this area is currently claimed by another owner. There is a magnetic high located to the northeast, and interaction of the source of the magnetic high with the calcareous country rock may be the source of the anomalous mineralization present in sample 11-J2-121. High Tl is sometimes correlated with Au, thus anomalous Tl is a possible indicator for Au on the Sookie claims. Additional claim staking adjacent and north of the current Sookie claim group is strongly recommended.

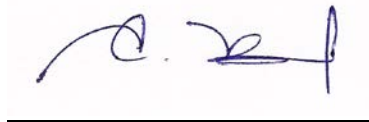
Statement of Qualifications

I, Michael Burns, graduated from The University of Victoria in 2010 with a B.Sc. in geology and I am currently a Ph.D. Student in Geology at Laurentian University. I have practiced my profession as a geologist since 2007 and have worked on mineral exploration projects throughout western Canada.

A handwritten signature in blue ink, appearing to read "Michael Burns", written over a horizontal line.

Michael Burns, M.Sc. Candidate

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.

A handwritten signature in blue ink, appearing to read "Allison Brand", written over a horizontal line.

Allison Brand, M.Sc.

Statement of Expenditures

	Total
Field Wages for 8 person days (2 days at 1 geologist @ \$625 / day, 1 geologist @ \$562 / day, 1 assistant at \$250/day , 1 assistant at \$312.50/day)	\$ 3,500.00
Report Writing and Interpretation (1 days, @ \$625/ day)	\$625.00
Helicopter (Capital Helicopters)	\$3,573.15
Heli Fuel	\$123.42
Daily Field Expenses (@\$100 / person-day; 8 person days)	\$800.00
Equipment + communications	\$300.00
Truck rental	\$224.00
Shipping	\$80.00
Assays – Acme Laboratories: 4-B02 (116 samples within claim boundaries)	\$ 2,648.32
Total Cost	\$11,873.88

References

Caron, M-E., Grasby, S.E., & Ryan, M.C., 2007: Spring geochemistry: A tool for exploration in the South Nahanni River basin of the Mackenzie Mountains, Northwest Territories, in Mineral and Energy Resource Assessment of the Greater Nahanni Ecosystem Under Consideration for the Expansion of the Nahanni National Park Reserve, Northwest Territories, (eds.) D.F. Wright, D. Lemkow, and J.R. Harris; Geological Survey of Canada, Open File 5344, p. 31-74

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Pigage, L.C., 2009. Bedrock geology of NTS 95C/5 (Pool Creek) and NTS 95D/8 map sheets, southeast Yukon. Bulletin 16, 150 p.

Pigage, L.C., Abbott, J.G. and Roots, C.F., 2010. Bedrock geology of Coal River map area (NTS 95D), Yukon (1:250 000 scale). Yukon Geological Survey, Open File 2010.

Pigage, L., Abbott, J.G. and Roots, C.F., 2010. Bedrock geology of Coal River map area (NTS 95D), Yukon (1:250 000 scale). Yukon Geological Survey, Open File – (in press). Yukon Exploration and Geology 1982, p. 85.

R.H. Seraphim Engineering Ltd., 1982. Assessment Report #091080 by R.H. Seraphim.

Assay Certificates



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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: June 17, 2011

Report Date: July 16, 2011

Page: 1 of 7

CERTIFICATE OF ANALYSIS

VAN11002656.1

CLIENT JOB INFORMATION

Project: TING_RG
Shipment ID:
P.O. Number
Number of Samples: 177

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: Michael Burns
Lee A. Groat
Thomas Hasek
David Turner

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	177	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	177	Dry at 60C			VAN
RJSV	177	Saving all or part of Soil Reject			VAN
4B02	177	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.
** 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_RG

Report Date: July 16, 2011

Page: 2 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11002656.1

	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-AAB-0072	Soil	431	2	11.2	3.1	11.3	8.8	10.3	62.7	1	77.7	0.7	7.5	2.7	81	0.9	351.7	25.1	22.8
11-AAB-0083	Soil	450	2	8.5	2.6	9.5	11.2	10.3	52.2	1	74.3	0.8	8.4	2.7	69	1.0	453.5	25.4	23.2
11-AAB-0068	Soil	522	<1	6.5	2.1	7.9	19.8	10.4	42.9	1	67.4	0.8	6.8	3.4	62	0.9	835.3	28.6	19.5
11-AAB-0071	Soil	486	1	9.0	2.8	9.7	10.5	9.1	52.8	1	74.7	0.7	7.2	2.8	74	0.7	435.1	22.5	23.7
11-AAB-0096	Soil	844	1	1.2	8.0	19.2	12.4	18.5	145.9	3	515.6	1.4	16.4	3.4	154	2.0	455.5	28.5	54.9
11-AAB-0095	Soil	874	2	1.6	5.5	15.3	9.3	15.4	103.4	2	353.7	1.1	13.4	2.8	127	1.6	375.2	23.2	40.0
11-BSW-108	Soil	1009	<1	7.9	1.9	6.9	13.2	6.8	33.5	<1	60.9	0.5	6.7	2.9	90	0.5	534.4	17.9	18.0
11-BSW-114	Soil	830	1	5.1	3.1	13.9	9.2	17.7	78.4	2	115.9	1.2	9.1	3.3	132	1.7	379.1	22.5	36.6
11-BSW-120	Soil	935	1	6.2	3.4	13.2	9.5	16.9	79.8	2	119.4	1.2	9.5	3.4	132	1.8	387.3	23.8	36.4
11-BSW-121	Soil	897	2	7.7	4.9	13.7	8.5	11.6	86.7	2	88.4	0.8	10.4	4.1	172	1.0	344.3	33.1	33.6
11-BSW-118	Soil	474	2	10.5	8.1	18.0	6.9	10.4	108.9	2	155.9	0.8	11.0	3.3	143	1.0	262.2	33.6	34.0
11-BSW-117	Soil	383	1	6.4	3.0	9.6	6.3	9.3	52.5	1	116.8	0.6	7.6	2.6	102	1.0	239.7	20.4	23.5
11-BSW-126	Soil	530	4	8.1	4.2	15.4	8.2	106.1	108.9	2	225.4	5.2	19.3	4.8	97	2.4	411.8	24.7	70.1
11-BSW-107	Soil	374	1	6.2	2.8	9.1	13.8	9.4	50.3	1	69.5	0.7	6.9	3.2	98	0.8	523.3	19.9	22.2
11-BSW-119	Soil	495	2	7.7	4.3	12.9	9.8	13.2	73.3	2	91.0	0.9	9.3	3.8	123	1.4	350.3	25.3	30.1
11-BSW-122	Soil	429	<1	4.1	2.7	8.2	11.0	11.9	54.8	1	62.3	0.8	6.2	3.0	109	1.2	417.5	18.4	23.0
11-BSW-112	Soil	514	1	3.4	2.4	10.8	8.9	14.5	53.1	2	98.7	1.0	7.7	2.9	105	1.3	328.6	17.3	29.7
11-BSW-124	Soil	677	3	10.1	3.6	15.7	9.1	125.7	114.1	1	329.9	6.6	19.8	5.3	82	3.8	450.5	25.2	88.9
11-BSW-110	Soil	553	<1	3.3	1.2	4.9	8.1	6.2	25.6	<1	50.7	0.9	3.8	2.8	74	0.5	320.0	12.1	15.8
11-BSW-123	Soil	750	5	2.9	3.3	19.1	9.5	242.3	180.1	1	607.1	12.7	30.7	8.0	26	1.0	492.1	21.0	132.6
11-BSW-115	Soil	831	1	5.5	3.0	13.5	9.0	17.9	74.9	3	143.5	1.3	10.0	3.0	110	1.8	325.5	22.0	38.0
11-BSW-128	Soil	762	4	9.8	4.7	15.9	8.2	85.4	103.2	1	234.1	4.4	17.1	4.5	110	2.6	366.9	30.2	76.5
11-BSW-127	Soil	640	2	9.7	4.0	14.3	8.6	68.2	96.2	2	190.0	3.8	14.6	4.2	93	2.3	383.8	23.7	51.1
11-BSW-109	Soil	415	<1	3.7	2.1	8.1	10.3	10.0	53.1	1	58.0	0.8	5.7	2.4	108	0.9	397.1	14.6	19.7
11-BSW-105	Soil	702	1	3.7	3.2	12.9	8.8	17.4	83.7	2	111.1	1.2	10.1	3.2	123	1.5	351.4	22.7	36.2
11-BSW-113	Soil	1449	1	6.3	2.1	6.5	12.6	6.4	39.1	1	63.8	0.6	5.7	3.1	108	0.6	469.1	18.5	18.4
11-BSW-106	Soil	702	2	8.5	3.2	10.8	7.7	11.7	65.6	1	63.9	0.8	7.8	3.6	153	1.0	291.5	21.7	31.6
11-BSW-116	Soil	588	1	7.3	2.4	7.3	10.0	8.0	40.2	1	64.6	0.6	6.2	3.0	85	0.9	380.5	18.3	20.1
11-BSW-129	Soil	757	4	8.6	6.4	16.4	8.9	138.9	110.2	2	293.9	5.7	17.4	5.0	89	2.4	398.9	18.1	62.7
11-BSW-111	Soil	852	2	8.6	3.0	14.2	8.7	17.0	75.0	2	119.8	1.3	10.2	3.2	136	1.6	317.0	20.6	33.4



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Report Date: July 16, 2011

Page: 2 of 7 Part 2

CERTIFICATE OF ANALYSIS

VAN11002656.1

	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 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-AAB-0072	Soil	22.0	4.21	0.89	3.95	0.67	3.94	0.82	2.41	0.38	2.37	0.37	0.8	13.3	9.7	51	22.1	5.7	0.2
11-AAB-0083	Soil	23.3	4.62	0.95	4.03	0.69	4.04	0.83	2.53	0.41	2.60	0.42	0.8	12.6	9.3	52	21.8	6.1	0.2
11-AAB-0068	Soil	18.8	3.91	0.80	3.80	0.68	4.43	0.93	2.80	0.45	3.01	0.48	1.1	9.6	7.2	45	16.9	5.3	0.2
11-AAB-0071	Soil	22.0	4.01	0.84	3.57	0.60	3.59	0.72	2.19	0.34	2.18	0.34	1.2	12.4	9.2	51	19.7	6.2	0.2
11-AAB-0096	Soil	47.2	7.75	1.35	4.26	0.67	4.47	0.95	3.06	0.52	3.36	0.53	0.7	2.2	15.7	1	0.9	13.5	<0.1
11-AAB-0095	Soil	37.1	6.07	1.09	3.54	0.56	3.58	0.76	2.40	0.40	2.67	0.41	0.8	4.9	14.3	12	3.5	15.0	<0.1
11-BSW-108	Soil	17.2	3.24	0.62	2.61	0.45	2.68	0.58	1.73	0.28	1.83	0.31	3.0	10.2	10.0	65	19.3	7.3	0.6
11-BSW-114	Soil	29.6	4.55	0.82	3.40	0.57	3.58	0.73	2.17	0.35	2.32	0.36	3.7	5.8	12.4	46	12.6	7.4	0.3
11-BSW-120	Soil	29.6	5.03	0.90	3.74	0.63	3.82	0.77	2.32	0.38	2.44	0.38	2.4	6.9	13.6	56	11.6	6.8	0.6
11-BSW-121	Soil	30.6	6.04	1.31	5.71	0.89	5.14	1.03	2.92	0.44	2.74	0.43	3.5	15.2	14.7	102	33.5	10.1	0.6
11-BSW-118	Soil	32.8	6.69	1.45	6.40	1.00	5.64	1.11	3.06	0.47	2.97	0.45	0.6	17.5	12.5	82	34.7	7.2	0.3
11-BSW-117	Soil	21.7	4.04	0.80	3.54	0.57	3.30	0.71	2.05	0.32	2.09	0.32	1.0	11.8	10.2	58	23.9	5.7	0.5
11-BSW-126	Soil	36.6	5.44	1.19	4.68	0.70	4.02	0.86	2.48	0.39	2.61	0.39	1.8	13.1	15.1	70	21.1	5.7	0.4
11-BSW-107	Soil	21.4	3.76	0.73	3.23	0.53	3.08	0.69	2.02	0.33	2.24	0.35	1.6	10.4	11.5	59	20.1	7.3	0.4
11-BSW-119	Soil	26.0	4.67	0.89	3.85	0.64	3.97	0.89	2.62	0.42	2.66	0.41	1.7	14.6	12.6	80	24.2	8.4	0.9
11-BSW-122	Soil	19.8	3.11	0.55	2.41	0.43	2.59	0.65	1.92	0.32	2.16	0.34	3.4	8.3	11.9	63	16.0	8.9	0.4
11-BSW-112	Soil	25.0	4.01	0.67	2.99	0.46	2.89	0.61	1.80	0.30	1.97	0.31	3.2	7.4	9.8	46	9.3	8.1	0.2
11-BSW-124	Soil	46.8	6.64	1.56	5.23	0.75	4.37	0.83	2.39	0.39	2.62	0.39	4.7	12.4	14.4	74	24.4	6.9	0.2
11-BSW-110	Soil	13.8	2.38	0.44	2.00	0.33	1.99	0.40	1.18	0.19	1.26	0.21	1.4	4.9	5.7	39	8.2	4.1	0.3
11-BSW-123	Soil	57.0	6.67	1.67	4.71	0.66	3.73	0.76	2.24	0.39	2.56	0.40	0.4	2.6	18.8	55	2.6	4.3	<0.1
11-BSW-115	Soil	32.4	5.48	0.93	4.03	0.63	3.70	0.78	2.17	0.36	2.29	0.35	1.6	3.9	10.9	49	11.0	6.4	0.3
11-BSW-128	Soil	47.1	7.25	1.61	6.00	0.90	5.16	1.04	2.95	0.47	2.89	0.45	2.1	18.1	16.0	87	26.7	9.4	0.3
11-BSW-127	Soil	33.0	5.52	1.20	4.74	0.73	4.14	0.84	2.42	0.38	2.49	0.38	1.5	11.6	13.4	88	20.9	6.7	0.5
11-BSW-109	Soil	17.1	2.70	0.48	1.95	0.35	2.24	0.50	1.54	0.26	1.71	0.27	2.7	3.7	9.6	42	10.8	10.1	0.3
11-BSW-105	Soil	30.2	4.89	0.84	3.84	0.61	3.76	0.79	2.34	0.37	2.38	0.37	2.4	5.5	11.1	37	8.7	6.9	0.3
11-BSW-113	Soil	16.1	3.11	0.56	2.86	0.47	2.78	0.61	1.77	0.28	1.87	0.30	2.9	10.9	10.0	89	17.2	7.4	1.2
11-BSW-106	Soil	27.4	4.65	0.85	3.68	0.58	3.54	0.72	2.06	0.32	2.07	0.32	4.4	10.6	17.8	114	26.4	10.1	0.8
11-BSW-116	Soil	17.7	3.27	0.64	2.82	0.48	2.82	0.60	1.80	0.29	1.99	0.31	2.1	9.8	10.4	67	17.7	7.1	0.5
11-BSW-129	Soil	30.6	4.16	0.92	3.44	0.49	2.87	0.61	1.76	0.30	2.01	0.30	3.0	8.9	18.4	75	19.5	6.7	0.3
11-BSW-111	Soil	28.6	4.67	0.90	3.78	0.60	3.49	0.73	2.16	0.33	2.18	0.36	2.5	6.5	13.5	64	18.4	8.3	0.2



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Project: TING_RG

Report Date: July 16, 2011

Page: 2 of 7 Part 3

CERTIFICATE OF ANALYSIS

VAN11002656.1

	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-0072	Soil	<0.1	<0.5	0.02	<0.1	0.6
11-AAB-0083	Soil	<0.1	0.6	0.01	<0.1	0.6
11-AAB-0068	Soil	<0.1	<0.5	0.01	<0.1	0.6
11-AAB-0071	Soil	<0.1	0.7	0.01	<0.1	0.6
11-AAB-0096	Soil	<0.1	<0.5	0.02	0.1	<0.5
11-AAB-0095	Soil	0.1	<0.5	0.04	<0.1	<0.5
11-BSW-108	Soil	<0.1	0.8	0.02	<0.1	1.0
11-BSW-114	Soil	<0.1	<0.5	0.01	0.1	0.5
11-BSW-120	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-BSW-121	Soil	0.3	0.8	0.07	0.1	1.7
11-BSW-118	Soil	0.6	1.4	0.11	<0.1	3.7
11-BSW-117	Soil	0.2	0.9	0.04	<0.1	2.1
11-BSW-126	Soil	0.2	0.5	0.04	0.2	<0.5
11-BSW-107	Soil	0.1	<0.5	0.02	<0.1	1.1
11-BSW-119	Soil	0.1	<0.5	0.01	<0.1	0.9
11-BSW-122	Soil	<0.1	<0.5	<0.01	<0.1	0.7
11-BSW-112	Soil	<0.1	<0.5	0.02	<0.1	0.6
11-BSW-124	Soil	0.1	1.1	0.02	0.2	0.7
11-BSW-110	Soil	<0.1	4.1	0.02	<0.1	0.8
11-BSW-123	Soil	<0.1	0.5	0.02	0.3	0.5
11-BSW-115	Soil	<0.1	0.8	<0.01	<0.1	<0.5
11-BSW-128	Soil	0.2	0.9	0.03	0.2	0.7
11-BSW-127	Soil	<0.1	0.6	0.02	0.1	<0.5
11-BSW-109	Soil	<0.1	<0.5	<0.01	<0.1	0.8
11-BSW-105	Soil	<0.1	<0.5	<0.01	<0.1	0.7
11-BSW-113	Soil	0.1	<0.5	0.06	<0.1	1.9
11-BSW-106	Soil	<0.1	1.0	0.03	0.2	1.3
11-BSW-116	Soil	0.1	<0.5	0.03	0.1	1.4
11-BSW-129	Soil	<0.1	<0.5	0.03	0.1	<0.5
11-BSW-111	Soil	<0.1	1.0	<0.01	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	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-BSW-125	Soil	669	3	9.6	3.2	12.6	9.7	95.7	94.7	1	269.4	5.1	16.3	4.2	77	4.0	422.4	24.7	71.8	124.4	12.03
11-BCQ-0098	Soil	249	1	2.9	7.3	4.3	2.0	5.7	35.2	<1	70.2	0.2	3.6	1.0	20	0.7	80.7	11.0	13.4	23.0	2.94
11-BCQ-0117	Soil	424	<1	3.0	1.2	4.1	3.7	7.6	29.0	<1	92.0	0.5	4.1	1.4	36	0.5	146.2	9.9	17.5	34.8	3.93
11-BCQ-0095	Soil	999	2	5.1	5.4	20.0	6.1	14.6	77.6	3	132.8	1.2	9.9	4.3	224	1.4	220.8	20.4	33.0	63.2	7.37
11-BCQ-0120	Soil	411	<1	3.7	3.1	5.7	3.5	9.2	38.0	<1	77.7	0.6	5.8	1.8	47	0.7	132.2	12.5	18.8	38.2	4.42
11-BCQ-0037	Soil	360	1	8.1	2.5	7.4	11.2	16.1	48.0	1	47.7	0.9	8.1	3.3	69	1.2	471.2	21.2	29.5	61.7	7.10
11-BCQ-0124	Soil	494	<1	3.6	1.6	5.2	5.1	8.0	36.7	<1	125.3	0.6	5.7	1.9	57	0.6	193.4	12.6	18.8	38.7	4.41
11-BCQ-0099	Soil	454	2	6.4	9.1	8.7	4.2	10.8	69.7	1	98.6	0.7	6.0	1.9	48	2.7	153.8	13.7	22.0	44.2	4.95
11-BCQ-0029	Soil	385	1	9.5	2.8	8.1	19.7	25.0	46.7	1	52.8	1.6	11.8	3.4	70	1.8	825.6	25.6	52.3	115.6	13.54
11-BCQ-0053	Soil	727	1	6.2	2.9	15.6	8.7	25.0	67.6	3	133.1	1.8	10.8	3.1	100	1.5	335.6	21.9	37.3	76.1	8.34
11-BCQ-0115	Soil	294	<1	3.6	1.1	3.8	3.9	6.9	28.6	<1	70.4	0.4	4.6	1.4	33	0.5	154.0	9.3	15.7	33.0	3.75
11-BCQ-0035	Soil	289	1	7.9	1.8	5.6	17.4	14.6	36.4	<1	39.2	1.0	7.5	3.5	93	1.1	708.7	22.4	34.2	74.3	7.89
11-BCQ-0103	Soil	329	2	2.5	3.0	4.9	4.6	15.0	68.8	1	70.7	1.5	7.6	1.9	42	1.1	172.6	12.9	22.0	43.4	4.77
11-BCQ-0110	Soil	328	<1	3.1	2.0	3.6	3.4	7.1	27.2	<1	74.2	0.4	4.4	1.4	36	<0.5	134.9	9.3	15.2	30.0	3.33
11-BCQ-0123	Soil	804	1	5.0	1.6	4.9	4.1	9.3	34.8	<1	117.0	0.7	5.4	1.8	60	0.7	173.0	13.7	18.8	38.1	4.40
11-BCQ-0107	Soil	383	1	5.3	4.0	5.7	4.8	11.6	44.3	<1	78.7	0.8	5.7	1.7	48	1.7	195.5	11.7	21.7	43.9	4.94
11-BCQ-0122	Soil	751	<1	2.1	0.7	2.4	3.0	4.3	18.1	<1	105.6	0.3	2.9	1.4	42	<0.5	123.9	9.6	12.6	23.8	2.79
11-BCQ-0021	Soil	307	<1	6.3	1.3	5.9	16.5	17.0	37.6	1	49.7	1.1	8.9	2.8	67	1.6	718.8	26.7	31.5	63.5	7.78
11-BCQ-0116	Soil	309	<1	2.3	1.3	2.9	2.6	6.0	21.6	1	55.9	0.3	3.8	1.2	34	<0.5	101.2	7.6	13.6	25.3	2.99
11-BCQ-0104	Soil	561	2	4.9	1.3	5.6	5.8	7.9	40.8	1	103.1	0.7	7.2	2.0	70	0.6	227.8	15.2	23.5	45.5	5.44
11-BCQ-0040	Soil	258	1	5.5	1.6	4.1	8.9	12.6	26.4	1	29.4	0.8	5.6	2.5	74	0.7	385.9	13.1	27.2	55.4	6.26
11-BCQ-0052	Soil	689	3	4.6	2.8	15.1	8.6	23.1	65.6	3	143.2	1.5	9.3	2.9	89	1.6	330.7	21.2	35.7	71.0	8.12
11-BCQ-0024	Soil	338	2	6.1	1.8	5.7	9.8	13.5	36.4	1	43.8	1.1	7.1	2.3	54	1.1	359.4	21.2	23.6	46.9	5.49
11-BCQ-0105	Soil	401	1	3.8	3.0	5.6	3.9	8.4	38.5	1	84.6	0.6	4.2	1.3	48	1.0	137.0	10.4	16.2	31.7	3.81
11-BCQ-0112	Soil	127	<1	1.7	2.6	2.1	1.8	5.4	16.5	<1	57.6	0.3	2.7	1.0	20	<0.5	71.7	5.9	11.3	21.6	2.36
11-BSW-088	Soil	711	<1	5.1	1.6	6.0	9.0	6.2	31.1	<1	64.1	0.5	4.6	4.1	84	0.7	377.4	16.3	15.6	29.6	3.77
11-BSW-055	Soil	283	<1	2.8	2.4	8.2	11.5	16.7	49.1	2	50.2	1.2	7.9	2.3	61	1.6	394.1	17.7	26.0	51.3	5.90
11-BSW-072	Soil	596	1	10.3	3.6	9.4	8.9	7.9	59.8	1	72.7	0.6	7.7	3.3	104	0.7	340.0	25.5	22.6	42.9	5.55
11-BSW-087	Soil	638	1	6.7	1.8	5.9	7.3	5.9	31.6	<1	54.0	0.4	5.4	2.3	79	0.6	302.5	14.8	17.3	32.7	3.98
11-BSW-059	Soil	473	3	6.7	4.7	12.8	8.5	21.5	70.8	2	67.2	1.4	9.2	3.0	116	1.6	341.7	19.7	34.1	66.9	7.53



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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-BSW-125	Soil	39.6	5.96	1.39	4.95	0.74	4.26	0.85	2.46	0.41	2.53	0.40	3.1	13.2	12.6	61	19.8	6.8	0.2
11-BCQ-0098	Soil	11.8	1.94	0.44	1.80	0.27	1.66	0.35	0.89	0.14	0.84	0.14	0.4	10.3	8.5	58	5.3	7.1	0.8
11-BCQ-0117	Soil	13.9	2.42	0.50	2.00	0.30	1.65	0.35	0.96	0.14	0.95	0.14	0.5	4.7	6.7	35	6.7	4.8	0.4
11-BCQ-0095	Soil	27.2	4.62	0.87	3.55	0.56	3.28	0.66	2.05	0.34	2.16	0.33	3.7	19.5	18.9	48	13.7	4.5	1.0
11-BCQ-0120	Soil	15.7	2.70	0.59	2.43	0.37	2.13	0.42	1.20	0.18	1.16	0.18	0.1	6.1	11.0	61	6.6	7.1	0.5
11-BCQ-0037	Soil	27.2	4.55	0.90	3.95	0.60	3.52	0.73	2.17	0.33	2.20	0.35	0.4	10.9	13.5	52	10.5	5.7	0.8
11-BCQ-0124	Soil	16.1	2.91	0.58	2.49	0.37	2.08	0.41	1.20	0.19	1.21	0.19	0.5	5.3	8.5	60	8.5	4.3	1.0
11-BCQ-0099	Soil	18.2	3.20	0.70	2.69	0.41	2.32	0.48	1.35	0.21	1.32	0.21	0.8	9.4	27.0	93	7.6	32.5	0.4
11-BCQ-0029	Soil	52.5	8.77	1.64	6.49	0.85	4.70	0.90	2.53	0.41	2.78	0.47	0.4	18.1	27.4	60	15.5	10.6	0.4
11-BCQ-0053	Soil	31.9	5.20	0.87	4.19	0.65	3.85	0.79	2.32	0.36	2.26	0.36	0.8	5.7	12.0	63	10.0	4.7	0.2
11-BCQ-0115	Soil	14.3	2.48	0.50	2.02	0.30	1.62	0.32	0.91	0.15	0.96	0.14	0.2	3.3	5.8	32	7.2	4.0	0.2
11-BCQ-0035	Soil	28.9	4.42	0.86	3.68	0.59	3.62	0.76	2.18	0.36	2.42	0.39	2.9	11.1	11.3	161	26.9	7.8	1.2
11-BCQ-0103	Soil	17.6	2.96	0.50	2.43	0.37	2.19	0.44	1.20	0.19	1.27	0.19	0.3	3.5	6.8	36	5.6	3.2	0.3
11-BCQ-0110	Soil	12.3	2.30	0.44	1.92	0.29	1.65	0.32	0.95	0.14	0.92	0.14	0.4	4.8	8.8	49	7.7	6.1	0.4
11-BCQ-0123	Soil	16.1	3.02	0.63	2.63	0.40	2.43	0.48	1.36	0.21	1.30	0.20	0.8	8.1	13.3	75	13.4	6.1	1.1
11-BCQ-0107	Soil	18.8	3.07	0.65	2.58	0.38	2.25	0.41	1.15	0.18	1.09	0.18	0.3	5.8	22.5	78	8.3	7.2	0.3
11-BCQ-0122	Soil	10.3	1.88	0.38	1.68	0.27	1.50	0.31	0.84	0.14	0.84	0.14	0.6	4.3	6.8	52	7.2	4.7	0.8
11-BCQ-0021	Soil	26.0	5.54	1.07	4.67	0.81	4.85	0.94	2.73	0.44	2.76	0.45	0.6	18.1	6.6	53	9.9	2.5	0.7
11-BCQ-0116	Soil	10.5	1.93	0.37	1.53	0.22	1.23	0.28	0.66	0.12	0.63	0.12	0.3	3.7	7.6	22	4.2	5.0	0.2
11-BCQ-0104	Soil	20.2	3.41	0.69	2.74	0.43	2.39	0.47	1.46	0.22	1.34	0.22	0.5	6.7	8.0	56	11.2	4.8	0.6
11-BCQ-0040	Soil	22.5	3.64	0.68	2.61	0.40	2.16	0.43	1.37	0.23	1.36	0.23	1.3	8.1	8.8	132	23.7	4.4	0.8
11-BCQ-0052	Soil	29.4	5.06	0.92	4.05	0.64	3.58	0.75	2.40	0.35	2.13	0.35	0.4	4.2	10.3	37	9.5	2.2	0.1
11-BCQ-0024	Soil	19.5	4.02	0.77	3.47	0.57	3.32	0.73	2.01	0.34	1.90	0.32	0.5	22.7	10.4	35	9.8	4.1	0.2
11-BCQ-0105	Soil	13.0	2.57	0.54	1.96	0.33	1.91	0.37	1.03	0.16	1.01	0.14	0.3	4.0	12.1	55	7.1	5.1	0.2
11-BCQ-0112	Soil	8.1	1.49	0.27	1.12	0.19	1.05	0.21	0.55	0.09	0.54	0.09	0.1	3.4	5.6	52	4.4	3.8	0.2
11-BSW-088	Soil	14.8	2.76	0.55	2.31	0.40	2.34	0.52	1.59	0.23	1.47	0.24	2.0	8.9	7.6	68	14.1	5.1	0.7
11-BSW-055	Soil	20.4	3.86	0.70	2.91	0.49	3.03	0.63	1.84	0.31	1.97	0.31	0.8	8.3	5.8	20	5.3	3.5	<0.1
11-BSW-072	Soil	18.8	4.27	0.88	3.88	0.67	3.90	0.81	2.40	0.35	2.22	0.35	1.8	21.0	10.4	129	41.9	5.5	0.5
11-BSW-087	Soil	13.9	2.71	0.58	2.12	0.38	2.28	0.48	1.37	0.23	1.48	0.25	2.7	10.7	11.1	68	18.5	6.0	0.6
11-BSW-059	Soil	27.6	4.42	0.84	3.27	0.56	3.09	0.69	2.12	0.33	2.15	0.33	1.8	13.4	13.8	53	13.0	7.7	0.1



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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-BSW-125	Soil		<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0098	Soil		<0.1	1.5	0.05	0.3	2.0
11-BCQ-0117	Soil		<0.1	<0.5	0.01	<0.1	0.6
11-BCQ-0095	Soil		0.4	<0.5	0.03	0.1	0.6
11-BCQ-0120	Soil		<0.1	0.9	0.07	0.2	0.7
11-BCQ-0037	Soil		<0.1	0.9	0.03	0.1	0.8
11-BCQ-0124	Soil		<0.1	0.6	0.02	<0.1	<0.5
11-BCQ-0099	Soil		0.4	2.3	0.06	0.3	0.6
11-BCQ-0029	Soil		<0.1	0.6	0.06	0.2	1.2
11-BCQ-0053	Soil		<0.1	<0.5	0.01	<0.1	<0.5
11-BCQ-0115	Soil		<0.1	<0.5	0.01	<0.1	<0.5
11-BCQ-0035	Soil		<0.1	0.7	0.04	0.5	1.0
11-BCQ-0103	Soil		<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0110	Soil		<0.1	0.6	0.03	<0.1	0.5
11-BCQ-0123	Soil		<0.1	1.0	0.04	0.1	0.7
11-BCQ-0107	Soil		<0.1	<0.5	<0.01	0.1	<0.5
11-BCQ-0122	Soil		<0.1	<0.5	0.01	<0.1	<0.5
11-BCQ-0021	Soil		<0.1	<0.5	0.04	<0.1	0.8
11-BCQ-0116	Soil		<0.1	<0.5	0.01	<0.1	<0.5
11-BCQ-0104	Soil		<0.1	0.9	0.03	<0.1	<0.5
11-BCQ-0040	Soil		<0.1	<0.5	0.03	0.3	1.0
11-BCQ-0052	Soil		<0.1	<0.5	<0.01	0.1	<0.5
11-BCQ-0024	Soil		<0.1	1.4	0.04	<0.1	0.7
11-BCQ-0105	Soil		<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0112	Soil		<0.1	<0.5	0.02	0.1	<0.5
11-BSW-088	Soil		0.1	0.6	0.04	<0.1	2.0
11-BSW-055	Soil		<0.1	<0.5	0.01	<0.1	<0.5
11-BSW-072	Soil		0.1	<0.5	0.03	<0.1	1.8
11-BSW-087	Soil		<0.1	<0.5	0.02	<0.1	1.4
11-BSW-059	Soil		<0.1	<0.5	0.02	0.2	<0.5



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		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-BSW-082	Soil	450	<1	5.0	1.8	5.1	8.9	6.1	31.7	<1	56.6	0.4	4.4	2.2	66	0.6	389.8	14.9	14.7
11-BSW-080	Soil	422	2	4.4	2.1	6.6	10.7	7.9	39.7	1	72.4	0.5	6.1	3.5	71	0.6	455.5	18.8	19.3
11-BSW-066	Soil	835	4	11.4	7.7	21.4	8.4	22.7	123.4	2	70.7	1.6	20.5	7.0	177	3.8	312.3	54.9	35.2
11-BSW-063	Soil	396	1	4.5	1.7	5.5	8.2	16.6	32.6	1	45.4	1.0	6.0	2.1	75	1.3	335.8	14.1	25.9
11-BSW-098	Soil	814	3	7.5	4.7	13.5	7.5	17.2	93.9	2	107.6	1.1	13.0	3.1	96	7.3	270.8	22.3	34.4
11-BSW-027	Soil	675	1	9.2	6.5	18.7	6.7	21.4	104.6	3	175.6	1.5	8.8	2.9	128	1.6	269.1	18.4	30.9
11-BSW-093	Soil	1242	<1	6.3	3.6	8.4	12.6	8.7	60.6	2	59.7	0.7	7.8	5.4	212	0.7	479.5	26.6	26.6
11-MGB-064	Soil	277	4	7.6	5.6	14.3	5.4	29.9	104.5	2	73.7	1.9	12.5	3.0	80	1.3	229.1	20.8	38.3
11-MGB-049	Soil	793	1	8.3	2.3	5.9	8.1	9.1	40.0	1	51.9	0.6	6.1	6.4	123	0.8	312.0	18.6	24.5
11-MGB-068	Soil	348	1	4.2	2.3	10.1	8.3	22.2	46.2	2	65.3	1.6	7.9	2.5	78	1.4	327.2	16.8	31.9
11-MGB-051	Soil	792	1	5.3	1.6	4.3	6.9	5.2	20.3	<1	71.5	0.3	4.2	2.5	107	<0.5	253.5	14.9	13.1
11-MGB-087	Soil	446	2	27.5	6.2	17.7	5.8	25.9	50.7	1	75.6	1.6	6.1	1.7	220	1.9	222.3	15.7	24.4
11-MGB-037	Soil	298	<1	3.1	1.5	3.9	7.5	11.6	28.6	<1	52.9	0.7	4.9	1.5	43	0.8	288.9	11.9	20.1
11-AAB-0029	Soil	162	2	4.0	1.3	3.6	8.9	9.3	24.2	<1	34.7	0.5	4.0	1.6	29	1.0	352.5	12.8	21.0
11-AAB-0040	Soil	739	2	6.8	1.9	6.3	9.8	9.4	36.5	<1	57.1	0.5	6.3	2.1	69	0.7	364.3	18.4	18.7
11-AAB-0065	Soil	646	2	3.5	2.9	15.0	6.5	15.5	59.2	2	222.3	1.1	8.5	2.7	75	3.6	264.9	14.3	28.0
11-AAB-0034	Soil	528	2	6.9	2.8	10.3	11.4	37.4	68.1	1	174.3	1.9	13.0	4.0	77	2.2	478.3	20.6	38.2
11-AAB-0015	Soil	608	2	5.9	3.2	12.0	8.0	17.0	73.7	2	92.0	1.1	9.1	3.0	110	1.5	304.6	19.4	32.0
11-AAB-0043	Soil	537	1	6.8	2.0	6.1	5.0	8.2	38.9	<1	62.2	0.4	5.4	2.2	83	<0.5	216.0	14.7	18.2
11-AAB-0032	Soil	510	4	14.5	4.6	14.0	6.0	11.2	84.4	1	96.2	0.7	9.8	3.4	133	1.0	197.4	24.1	30.5
11-BCQ-0126	Soil	529	2	3.5	1.9	4.0	3.5	7.8	36.7	<1	104.6	0.5	4.9	1.4	53	0.7	155.6	10.3	17.6
11-BCQ-0050	Soil	654	<1	4.0	3.0	12.7	7.6	20.0	68.1	2	108.0	1.3	10.4	2.8	90	1.6	321.2	18.4	34.4
11-BCQ-0034	Soil	258	<1	3.0	1.0	3.4	10.2	10.6	20.5	<1	41.7	0.7	4.3	3.1	57	0.8	416.0	13.5	25.7
11-BCQ-0102	Soil	417	<1	3.7	1.4	5.2	6.0	7.6	33.8	<1	77.8	0.5	5.5	1.8	98	0.9	213.6	11.0	20.4
11-BCQ-0032	Soil	258	<1	8.3	1.6	4.7	14.6	16.8	27.1	<1	33.8	0.9	6.7	2.8	101	1.2	621.0	16.1	44.2
11-BCQ-0100	Soil	552	1	5.8	6.4	9.1	5.2	13.5	78.8	1	117.7	0.7	6.1	2.0	93	4.7	203.4	14.2	22.3
11-BCQ-0026	Soil	243	<1	4.6	1.1	3.2	5.0	7.5	26.0	<1	29.0	0.5	4.2	1.2	41	0.9	178.2	10.2	18.5
11-BCQ-0043	Soil	326	1	3.4	1.6	5.0	12.8	16.7	35.7	1	35.7	1.0	6.4	2.8	130	1.2	490.6	19.0	29.6
11-BCQ-0081	Soil	662	2	5.1	3.3	15.7	8.4	23.1	79.4	3	115.3	1.8	10.3	3.1	111	2.0	314.6	20.3	32.9
11-BCQ-0028	Soil	191	<1	7.6	1.9	6.3	9.7	14.3	41.7	1	33.2	1.0	7.6	2.2	70	1.4	392.0	19.6	32.4



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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-BSW-082	Soil	13.0	2.52	0.54	2.20	0.38	2.22	0.50	1.55	0.26	1.55	0.26	1.4	7.2	6.5	57	13.6	3.8	0.3
11-BSW-080	Soil	16.2	3.25	0.61	2.76	0.46	2.73	0.60	1.86	0.29	1.98	0.30	0.7	6.5	6.0	41	11.4	2.2	0.3
11-BSW-066	Soil	36.5	8.64	1.61	8.79	1.41	7.72	1.71	5.07	0.77	5.23	0.78	1.3	37.3	12.8	44	32.3	12.0	0.5
11-BSW-063	Soil	18.6	3.11	0.57	2.31	0.38	2.15	0.47	1.38	0.24	1.44	0.23	2.5	8.3	12.1	30	9.0	6.9	<0.1
11-BSW-098	Soil	27.4	5.16	1.00	4.31	0.68	4.03	0.79	2.30	0.35	2.19	0.36	1.7	13.3	53.3	210	18.0	18.7	0.3
11-BSW-027	Soil	24.8	4.32	0.79	3.40	0.56	3.24	0.68	2.04	0.33	2.06	0.30	1.3	10.0	13.2	42	6.6	1.3	0.1
11-BSW-093	Soil	23.0	4.45	0.93	4.12	0.69	4.06	0.90	2.54	0.39	2.64	0.41	5.6	22.4	12.6	68	20.8	8.2	0.6
11-MGB-064	Soil	27.1	5.07	1.11	4.23	0.67	3.69	0.82	2.16	0.33	2.08	0.32	0.5	15.3	18.2	19	12.0	2.9	0.1
11-MGB-049	Soil	18.8	3.73	0.70	3.18	0.50	2.85	0.62	1.79	0.27	1.71	0.27	4.2	11.3	8.3	105	16.8	25.4	0.8
11-MGB-068	Soil	23.9	3.95	0.64	2.89	0.45	2.86	0.55	1.66	0.29	1.88	0.30	1.0	5.9	10.5	23	7.6	4.8	0.1
11-MGB-051	Soil	10.8	2.16	0.44	2.13	0.35	2.06	0.46	1.34	0.19	1.34	0.19	5.3	9.8	12.8	93	21.5	9.6	0.7
11-MGB-087	Soil	20.3	3.95	1.01	3.29	0.56	3.07	0.59	1.72	0.26	1.72	0.26	0.6	21.9	11.0	69	60.0	9.8	0.1
11-MGB-037	Soil	17.7	2.91	0.54	2.30	0.36	2.09	0.40	1.24	0.17	1.21	0.18	0.2	4.1	5.8	25	4.3	1.3	0.1
11-AAB-0029	Soil	18.3	3.39	0.59	2.46	0.35	1.88	0.45	1.23	0.19	1.27	0.21	0.2	7.6	6.0	32	5.3	1.4	0.2
11-AAB-0040	Soil	18.0	3.75	0.76	3.18	0.52	3.08	0.59	1.83	0.27	1.72	0.27	1.1	8.9	7.5	53	13.9	4.7	0.3
11-AAB-0065	Soil	22.8	3.76	0.70	2.89	0.44	2.52	0.51	1.54	0.24	1.70	0.26	0.9	3.5	26.1	48	2.6	1.1	0.2
11-AAB-0034	Soil	22.6	4.28	0.88	3.54	0.60	3.21	0.72	2.27	0.35	2.12	0.35	1.6	9.2	9.5	56	14.1	4.6	0.2
11-AAB-0015	Soil	25.0	4.34	0.79	3.28	0.56	3.16	0.67	2.03	0.31	2.02	0.32	1.2	22.9	9.0	46	12.2	7.3	<0.1
11-AAB-0043	Soil	15.7	2.82	0.60	2.70	0.43	2.46	0.48	1.47	0.23	1.47	0.23	1.6	12.1	9.6	62	17.4	5.5	0.4
11-AAB-0032	Soil	26.1	5.44	1.09	4.50	0.74	4.22	0.85	2.65	0.39	2.46	0.38	1.3	28.0	15.1	123	44.1	9.2	0.7
11-BCQ-0126	Soil	13.9	2.61	0.54	2.28	0.35	1.96	0.39	1.10	0.15	1.08	0.15	0.5	5.1	11.3	60	7.4	5.2	0.6
11-BCQ-0050	Soil	27.0	4.66	0.83	3.59	0.59	3.23	0.66	2.03	0.30	2.16	0.31	0.9	4.7	10.1	47	7.7	3.7	0.2
11-BCQ-0034	Soil	19.6	3.23	0.59	2.47	0.38	2.25	0.49	1.53	0.24	1.64	0.26	0.7	4.4	4.0	97	9.6	1.2	0.7
11-BCQ-0102	Soil	17.1	2.91	0.53	2.58	0.36	2.06	0.38	1.14	0.20	1.16	0.17	0.3	3.4	5.9	45	6.5	3.1	0.4
11-BCQ-0032	Soil	32.9	4.88	0.88	3.52	0.51	2.79	0.56	1.67	0.32	2.00	0.35	1.0	9.3	28.6	91	15.2	12.7	0.7
11-BCQ-0100	Soil	19.3	3.38	0.78	2.95	0.44	2.69	0.53	1.62	0.25	1.44	0.24	3.6	11.6	38.4	105	8.6	14.5	0.4
11-BCQ-0026	Soil	15.8	2.64	0.48	2.05	0.32	1.72	0.36	1.04	0.17	1.11	0.17	0.4	8.6	7.6	112	8.8	3.7	1.2
11-BCQ-0043	Soil	22.7	3.39	0.72	3.05	0.50	2.78	0.58	1.86	0.30	2.05	0.32	1.1	7.6	6.5	80	14.1	6.9	0.9
11-BCQ-0081	Soil	26.6	4.78	0.84	3.74	0.65	3.37	0.67	2.10	0.34	2.08	0.35	1.2	8.0	14.2	90	10.4	4.1	0.3
11-BCQ-0028	Soil	26.1	4.54	0.96	3.99	0.63	3.20	0.65	1.97	0.31	2.03	0.33	0.6	20.7	11.1	56	12.4	4.1	0.4



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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-082	Soil	<0.1	<0.5	0.01	<0.1	1.1
11-BSW-080	Soil	<0.1	<0.5	0.03	<0.1	1.0
11-BSW-066	Soil	0.4	<0.5	0.13	0.2	1.0
11-BSW-063	Soil	<0.1	<0.5	<0.01	0.1	<0.5
11-BSW-098	Soil	0.3	<0.5	0.05	0.3	<0.5
11-BSW-027	Soil	<0.1	<0.5	0.01	0.1	<0.5
11-BSW-093	Soil	0.3	0.9	0.08	0.2	3.7
11-MGB-064	Soil	0.1	0.5	0.03	0.1	<0.5
11-MGB-049	Soil	0.2	0.6	0.08	0.2	2.1
11-MGB-068	Soil	<0.1	1.9	<0.01	0.1	<0.5
11-MGB-051	Soil	0.2	<0.5	0.03	0.1	1.7
11-MGB-087	Soil	<0.1	<0.5	0.01	0.2	<0.5
11-MGB-037	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-AAB-0029	Soil	<0.1	<0.5	0.02	<0.1	0.5
11-AAB-0040	Soil	<0.1	<0.5	0.03	0.1	<0.5
11-AAB-0065	Soil	0.1	<0.5	0.01	0.1	<0.5
11-AAB-0034	Soil	<0.1	0.8	0.02	<0.1	0.5
11-AAB-0015	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-AAB-0043	Soil	<0.1	<0.5	0.02	<0.1	0.8
11-AAB-0032	Soil	0.1	0.7	0.04	0.1	1.7
11-BCQ-0126	Soil	<0.1	<0.5	0.02	0.1	<0.5
11-BCQ-0050	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-BCQ-0034	Soil	<0.1	<0.5	0.03	0.2	0.5
11-BCQ-0102	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-BCQ-0032	Soil	<0.1	<0.5	0.02	0.2	0.6
11-BCQ-0100	Soil	0.2	<0.5	0.01	0.2	0.6
11-BCQ-0026	Soil	<0.1	<0.5	0.02	0.1	0.7
11-BCQ-0043	Soil	<0.1	<0.5	0.06	0.2	0.6
11-BCQ-0081	Soil	0.2	<0.5	0.02	0.1	<0.5
11-BCQ-0028	Soil	<0.1	<0.5	0.03	<0.1	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-BCQ-0045	Soil	171	<1	2.8	1.0	3.6	10.2	11.6	23.1	<1	25.2	0.8	4.2	1.5	53	1.0	396.6	17.4	22.9
11-BCQ-0030	Soil	315	<1	8.6	4.5	7.1	7.8	15.3	43.5	1	38.0	0.8	6.2	1.9	76	1.2	282.5	19.2	26.6
11-BCQ-0041	Soil	459	1	5.6	2.1	6.6	9.2	14.1	44.3	1	47.2	0.9	8.0	5.6	200	1.2	293.5	22.2	33.3
11-BCQ-0109	Soil	237	<1	3.3	2.1	3.1	3.0	6.8	24.4	<1	69.4	0.4	3.1	1.2	38	0.5	104.0	8.7	14.0
11-BCQ-0027	Soil	275	2	8.6	3.4	7.1	5.3	12.0	47.7	1	42.3	0.8	6.5	2.0	71	0.6	214.7	20.4	21.7
11-BCQ-0056	Soil	539	2	4.5	2.7	11.7	8.8	19.1	56.0	2	104.1	1.3	9.7	2.6	79	1.3	334.9	18.4	30.3
11-BCQ-0020	Soil	206	<1	4.6	0.8	3.9	8.3	10.3	26.9	<1	33.6	0.7	5.5	1.8	41	1.0	305.9	13.5	19.1
11-BCQ-0054	Soil	616	1	4.0	2.8	15.3	8.5	24.7	63.2	3	130.1	1.7	10.1	3.2	98	1.6	324.1	19.6	37.0
11-BSW-076	Soil	521	1	4.3	1.2	4.2	22.3	6.7	22.6	<1	44.1	0.5	6.0	3.1	63	0.8	904.4	17.1	16.5
11-BSW-095	Soil	534	<1	11.2	8.6	14.8	5.3	24.5	70.4	1	126.0	1.5	7.0	2.9	122	4.1	191.2	15.5	30.6
11-BSW-086	Soil	394	<1	3.6	1.8	5.0	9.5	7.7	35.6	1	63.2	0.6	5.0	2.8	69	0.8	351.1	17.4	18.5
11-BSW-101	Soil	720	1	5.8	5.2	9.2	5.3	12.4	72.6	2	90.5	1.0	9.5	3.0	67	2.5	225.3	18.2	30.1
11-BSW-081	Soil	428	1	4.4	1.4	4.3	12.4	6.6	25.7	1	61.4	0.4	4.6	2.6	61	0.7	469.5	14.2	13.9
11-BSW-094	Soil	598	<1	14.8	4.4	15.4	6.3	25.8	70.8	2	83.0	1.7	7.6	2.5	150	5.5	231.8	14.8	28.4
11-BSW-047	Soil	656	<1	3.8	2.4	2.9	3.4	3.5	21.6	<1	42.7	0.2	3.2	2.3	25	<0.5	124.4	14.1	10.3
11-BSW-071	Soil	425	1	4.7	2.4	7.6	19.2	8.3	39.4	<1	90.5	0.6	7.0	3.0	85	1.0	719.9	19.0	23.1
11-BSW-035	Soil	767	2	18.0	3.9	13.2	7.4	18.1	59.5	2	115.5	1.3	12.1	4.1	80	1.3	290.3	23.8	36.7
11-BSW-099	Soil	636	1	8.1	6.3	12.8	8.1	13.0	136.8	2	125.1	0.8	10.6	3.0	63	29.1	291.0	22.8	36.7
11-BSW-017	Soil	659	2	5.5	3.2	14.0	9.1	20.4	64.6	2	130.0	1.4	9.6	2.8	89	1.6	337.4	19.3	34.6
11-BSW-060	Soil	538	<1	4.0	2.5	11.6	8.9	19.6	60.1	2	97.5	1.4	8.2	2.9	89	1.8	341.3	18.7	34.4
11-BSW-043	Soil	611	1	4.2	3.1	12.4	9.2	20.5	66.8	2	118.1	1.3	8.8	2.8	83	1.7	340.0	20.5	32.3
11-BSW-104	Soil	491	2	7.6	5.7	11.1	6.8	15.6	93.6	2	74.5	1.0	11.3	2.7	80	3.0	245.6	23.4	38.7
11-BSW-044	Soil	421	1	14.7	3.2	11.1	10.1	12.8	94.8	2	60.4	1.0	8.4	2.8	72	1.5	370.6	17.2	27.5
11-BSW-053	Soil	684	<1	2.8	1.6	9.5	11.2	20.3	41.6	2	80.7	1.2	7.5	2.7	60	1.5	404.7	17.9	29.0
11-BSW-073	Soil	601	<1	4.5	1.9	6.8	9.8	6.9	40.3	1	62.7	0.4	5.8	3.5	83	0.7	384.9	17.0	18.7
11-BSW-092	Soil	451	2	7.3	1.4	5.7	7.9	6.3	35.2	<1	49.6	0.5	5.0	2.6	76	<0.5	311.4	13.1	17.3
11-BSW-078	Soil	413	<1	4.5	2.4	6.2	12.3	6.4	37.7	<1	56.0	0.4	5.8	3.1	67	1.1	466.1	16.7	16.9
11-BSW-069	Soil	582	2	17.8	3.6	13.4	7.9	18.6	62.1	2	73.4	1.1	10.2	3.1	124	1.9	304.1	15.8	29.2
11-BSW-089	Soil	728	<1	4.1	1.1	4.9	11.3	5.3	19.5	<1	38.7	0.4	4.0	2.5	71	0.8	433.3	11.2	12.2
11-BSW-084	Soil	406	<1	3.4	1.3	4.6	10.5	5.0	21.8	1	41.4	0.4	3.8	2.3	64	0.6	381.2	11.7	11.9



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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-BCQ-0045	Soil	18.4	3.00	0.63	2.84	0.48	2.93	0.58	1.81	0.28	1.77	0.27	0.5	6.1	4.5	28	6.6	2.5	0.1	0.3
11-BCQ-0030	Soil	23.1	4.18	0.94	3.89	0.59	3.48	0.65	1.86	0.30	1.90	0.30	0.4	28.4	6.7	41	12.9	2.9	0.2	0.2
11-BCQ-0041	Soil	26.9	4.28	0.89	3.98	0.59	3.25	0.69	2.01	0.33	2.04	0.33	2.2	18.7	14.5	143	25.1	9.3	3.1	0.7
11-BCQ-0109	Soil	12.2	2.12	0.43	1.76	0.26	1.51	0.28	0.87	0.15	0.76	0.13	0.4	4.4	8.0	46	7.2	5.1	0.3	0.3
11-BCQ-0027	Soil	20.9	4.25	0.98	4.27	0.68	3.49	0.74	1.98	0.31	1.92	0.30	0.5	36.2	9.8	73	14.3	4.0	0.7	0.3
11-BCQ-0056	Soil	22.7	4.23	0.77	3.35	0.57	3.19	0.67	1.99	0.33	2.01	0.33	0.8	4.8	9.4	50	8.7	2.1	0.3	<0.1
11-BCQ-0020	Soil	15.8	3.31	0.63	2.67	0.44	2.32	0.49	1.43	0.23	1.53	0.25	0.3	8.3	5.9	22	6.4	2.6	0.1	0.2
11-BCQ-0054	Soil	27.9	4.86	0.90	4.00	0.66	3.53	0.68	2.27	0.34	2.22	0.34	0.7	4.8	10.8	34	6.9	2.0	0.2	<0.1
11-BSW-076	Soil	14.2	2.63	0.51	2.59	0.45	2.72	0.62	2.04	0.35	2.27	0.39	1.9	7.9	7.1	59	12.7	8.0	0.7	0.3
11-BSW-095	Soil	21.8	4.15	1.05	3.65	0.57	2.87	0.56	1.81	0.25	1.64	0.24	1.6	15.4	61.5	136	18.2	22.4	0.2	0.5
11-BSW-086	Soil	15.8	2.88	0.62	2.46	0.46	2.52	0.54	1.81	0.30	1.91	0.30	0.9	5.2	6.4	50	12.9	3.2	0.4	<0.1
11-BSW-101	Soil	24.7	4.25	0.93	3.71	0.56	3.04	0.62	1.95	0.30	1.78	0.27	1.0	17.0	220.3	993	16.1	13.3	2.5	1.0
11-BSW-081	Soil	11.9	2.39	0.52	2.17	0.39	2.09	0.50	1.60	0.27	1.66	0.28	1.9	7.2	6.1	45	14.5	5.1	0.4	0.2
11-BSW-094	Soil	22.7	4.12	0.88	3.28	0.51	2.93	0.58	1.71	0.28	1.83	0.28	1.7	15.2	57.8	105	21.6	59.5	0.2	0.6
11-BSW-047	Soil	10.0	2.62	0.59	2.62	0.43	2.07	0.45	1.36	0.20	1.18	0.18	0.3	12.4	2.6	35	6.3	3.7	0.4	0.2
11-BSW-071	Soil	19.5	3.66	0.68	3.23	0.52	3.26	0.71	2.05	0.35	2.37	0.40	1.6	6.8	6.1	54	15.1	2.8	0.6	0.2
11-BSW-035	Soil	30.6	6.08	1.24	5.39	0.88	4.65	0.95	2.64	0.41	2.60	0.37	0.7	15.9	12.6	140	19.1	2.9	1.5	0.1
11-BSW-099	Soil	27.8	5.26	1.19	4.57	0.71	3.60	0.78	2.48	0.36	2.24	0.36	11.6	38.4	332.1	328	13.9	26.3	1.2	0.6
11-BSW-017	Soil	27.5	4.72	0.91	3.85	0.61	3.55	0.68	2.18	0.36	2.31	0.34	0.7	6.2	9.9	39	8.6	2.3	<0.1	<0.1
11-BSW-060	Soil	28.7	5.53	1.04	4.19	0.62	3.30	0.73	2.11	0.34	2.23	0.33	1.4	3.7	11.0	47	6.1	2.4	<0.1	<0.1
11-BSW-043	Soil	24.0	4.55	0.88	4.11	0.70	3.78	0.85	2.41	0.39	2.33	0.34	0.7	6.0	9.1	44	9.0	2.8	0.2	<0.1
11-BSW-104	Soil	33.9	6.28	1.36	5.19	0.80	4.61	0.87	2.54	0.42	2.51	0.36	1.1	13.1	68.8	121	19.9	15.1	0.4	0.4
11-BSW-044	Soil	22.4	4.42	0.78	3.57	0.57	3.14	0.66	1.97	0.32	2.11	0.34	0.8	22.1	9.8	51	12.0	5.6	0.3	0.3
11-BSW-053	Soil	22.8	4.06	0.78	3.24	0.54	3.23	0.63	1.95	0.33	2.01	0.31	0.5	2.3	7.1	59	4.5	2.0	<0.1	<0.1
11-BSW-073	Soil	16.3	3.12	0.65	3.04	0.51	2.81	0.61	1.91	0.27	1.91	0.31	1.7	9.6	8.1	64	18.6	5.4	0.8	0.1
11-BSW-092	Soil	16.5	2.96	0.56	2.47	0.41	2.23	0.48	1.50	0.22	1.63	0.23	1.9	7.3	9.9	91	17.3	5.2	0.3	0.1
11-BSW-078	Soil	15.6	3.09	0.63	2.67	0.44	2.75	0.57	1.84	0.34	1.99	0.32	1.9	10.2	6.9	54	18.4	5.9	0.3	0.1
11-BSW-069	Soil	22.4	3.90	0.71	3.26	0.50	2.82	0.62	1.98	0.31	2.00	0.33	2.0	15.9	21.2	110	41.5	11.9	0.4	0.1
11-BSW-089	Soil	11.0	2.26	0.44	1.98	0.34	2.01	0.41	1.32	0.23	1.45	0.22	3.1	8.9	8.2	50	12.2	7.1	0.4	0.2
11-BSW-084	Soil	10.3	2.05	0.42	2.00	0.38	2.18	0.47	1.49	0.25	1.50	0.26	2.4	6.5	6.3	54	14.5	5.2	0.3	0.3



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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-BCQ-0045	Soil		<0.1	1.3	<0.01	<0.1	<0.5
11-BCQ-0030	Soil		<0.1	2.6	0.02	<0.1	0.7
11-BCQ-0041	Soil		<0.1	0.9	0.08	0.6	1.8
11-BCQ-0109	Soil		<0.1	0.6	0.02	0.1	<0.5
11-BCQ-0027	Soil		<0.1	<0.5	0.09	0.2	0.8
11-BCQ-0056	Soil		<0.1	<0.5	<0.01	0.1	<0.5
11-BCQ-0020	Soil		<0.1	<0.5	0.01	<0.1	<0.5
11-BCQ-0054	Soil		<0.1	1.5	0.02	<0.1	<0.5
11-BSW-076	Soil		0.1	1.2	0.02	<0.1	1.2
11-BSW-095	Soil		0.9	<0.5	0.06	0.5	<0.5
11-BSW-086	Soil		<0.1	<0.5	0.02	<0.1	0.5
11-BSW-101	Soil		1.8	4.4	0.05	0.3	0.6
11-BSW-081	Soil		<0.1	<0.5	<0.01	<0.1	1.1
11-BSW-094	Soil		0.3	0.5	0.02	0.5	1.0
11-BSW-047	Soil		<0.1	<0.5	0.15	<0.1	0.9
11-BSW-071	Soil		0.1	<0.5	0.02	<0.1	2.0
11-BSW-035	Soil		0.5	<0.5	0.09	0.2	0.7
11-BSW-099	Soil		0.4	7.4	0.04	0.9	<0.5
11-BSW-017	Soil		<0.1	<0.5	0.01	<0.1	<0.5
11-BSW-060	Soil		0.1	<0.5	<0.01	0.1	<0.5
11-BSW-043	Soil		<0.1	0.5	0.02	<0.1	<0.5
11-BSW-104	Soil		0.3	<0.5	0.04	0.4	0.5
11-BSW-044	Soil		0.2	<0.5	0.06	<0.1	<0.5
11-BSW-053	Soil		<0.1	<0.5	<0.01	<0.1	<0.5
11-BSW-073	Soil		0.1	<0.5	0.04	<0.1	1.6
11-BSW-092	Soil		<0.1	<0.5	0.03	<0.1	0.8
11-BSW-078	Soil		<0.1	<0.5	0.01	<0.1	1.5
11-BSW-069	Soil		<0.1	<0.5	0.02	0.2	<0.5
11-BSW-089	Soil		0.1	<0.5	0.02	<0.1	1.9
11-BSW-084	Soil		<0.1	<0.5	<0.01	<0.1	0.9



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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-BSW-026	Soil	608	2	3.4	2.9	13.6	9.4	20.4	63.3	3	112.4	1.5	9.1	2.8	94	1.7	346.8	18.9	33.3
11-BSW-077	Soil	512	1	8.2	2.3	6.9	14.2	7.6	43.0	2	71.4	0.7	6.7	4.5	83	0.8	510.9	21.3	21.2
11-BSW-074	Soil	462	<1	3.6	1.7	5.5	12.1	6.0	30.3	1	53.2	0.5	4.6	2.9	66	0.7	468.7	15.4	16.0
11-MGB-032	Soil	274	<1	5.5	2.2	6.3	11.0	18.3	37.0	1	41.6	1.2	7.5	2.2	58	1.6	428.5	16.4	31.9
11-MGB-088	Soil	610	2	5.0	4.1	11.2	7.9	17.0	64.2	2	83.9	1.2	10.1	3.0	77	5.0	308.5	16.1	30.7
11-MGB-094	Soil	576	2	6.3	13.2	11.5	8.0	14.2	135.4	2	130.7	1.1	8.5	3.2	72	27.0	283.7	14.3	27.9
11-MGB-044	Soil	1158	<1	5.5	2.5	7.3	4.1	6.9	38.3	1	64.3	0.4	5.1	5.1	131	0.9	161.3	15.5	20.9
11-MGB-065	Soil	488	1	10.1	4.2	16.7	7.0	30.6	82.6	2	179.6	2.2	10.3	3.5	75	1.2	274.1	11.4	24.7
11-MGB-046	Soil	1236	<1	5.6	2.5	5.8	13.7	10.3	35.1	1	54.5	0.7	5.2	3.8	91	1.2	536.7	15.7	20.2
11-AAB-0035	Soil	712	1	6.5	2.2	6.4	13.2	8.7	42.1	1	59.7	0.7	6.4	2.4	74	0.8	494.5	18.5	20.2
11-AAB-0048	Soil	714	<1	3.0	2.0	4.5	3.4	5.2	27.4	<1	76.7	0.4	3.6	1.7	72	0.9	120.7	12.4	15.5
11-AAB-0053	Soil	593	<1	1.6	1.8	14.6	9.5	15.7	41.7	2	185.8	1.4	10.0	3.2	69	1.7	331.3	15.9	33.4
11-AAB-0054	Soil	628	<1	4.6	2.1	6.6	9.0	6.5	37.5	1	49.6	0.6	4.9	3.9	95	0.8	323.3	12.0	16.8
11-AAB-0039	Soil	655	<1	5.7	1.9	5.7	10.5	8.4	38.1	<1	60.8	0.6	7.1	2.3	65	1.0	385.0	16.1	17.4
11-AAB-0047	Soil	899	<1	3.4	1.1	4.0	15.7	5.9	19.2	<1	51.8	0.4	3.9	2.2	59	0.8	579.1	11.5	11.9
11-AAB-0052	Soil	943	<1	8.4	0.4	3.0	1.0	1.6	8.6	<1	91.4	0.2	1.7	26.5	<8	<0.5	31.8	3.3	5.0
11-AAB-0062	Soil	320	<1	2.6	1.4	6.7	2.3	2.6	19.1	<1	219.3	0.2	3.0	3.3	17	1.6	81.4	8.3	12.7
11-AAB-0063	Soil	649	1	4.8	5.1	12.0	7.9	14.0	78.1	2	127.7	1.1	10.1	2.8	69	4.3	259.3	18.4	34.6
11-AAB-0061	Soil	620	1	5.6	4.3	12.4	7.4	15.0	68.1	2	92.5	1.2	9.7	2.5	85	3.6	273.3	12.8	26.7
11-AAB-0036	Soil	912	<1	7.3	2.6	8.1	12.5	10.2	50.7	1	77.7	0.8	7.5	3.0	96	1.2	496.1	17.9	22.4
11-AAB-0056	Soil	1193	<1	14.9	2.9	8.1	8.5	6.8	65.1	1	55.7	0.5	5.9	3.5	149	0.8	323.7	13.3	18.2
11-AAB-0033	Soil	359	<1	5.0	4.0	8.1	6.2	6.8	61.6	<1	80.6	0.5	6.2	7.2	90	0.8	224.9	25.9	25.0
11-MGB-078	Soil	737	1	4.9	2.9	11.1	8.5	14.6	57.7	2	112.9	1.2	8.5	2.9	107	1.4	324.9	15.2	29.2
11-MGB-084	Soil	1074	1	7.6	3.1	13.7	7.9	16.5	64.9	2	119.9	1.2	8.2	2.7	117	1.6	299.0	16.5	30.6
11-MGB-085	Soil	1380	2	7.4	3.0	11.5	8.1	12.9	66.4	2	141.3	1.0	9.2	3.6	144	1.4	290.9	21.6	32.3
11-MGB-036	Soil	226	1	4.1	1.7	4.8	8.3	10.9	33.1	1	48.3	0.8	5.9	1.8	52	1.1	304.3	14.6	19.9
11-AAB-0057	Soil	1291	2	8.4	3.8	10.8	8.5	9.6	61.4	2	75.6	0.8	9.2	6.2	211	1.0	322.1	26.1	29.9
11-BCQ-0042	Soil	497	2	8.2	3.4	8.6	7.9	15.2	61.6	2	58.6	0.9	9.8	6.3	254	2.0	298.6	28.4	43.0
11-BSW-068	Soil	594	1	6.5	3.3	9.1	18.0	24.0	58.8	2	74.8	1.8	12.3	4.4	102	1.9	683.7	37.1	47.4
11-BSW-091	Soil	158	<1	17.6	0.2	0.6	<0.1	0.3	1.5	<1	5.9	<0.1	0.2	0.2	9	<0.5	3.6	1.6	1.1



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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	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi
		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	ppm 0.1
11-BSW-026	Soil	26.4	4.69	0.88	4.13	0.67	3.80	0.78	2.27	0.37	2.32	0.37	0.7	4.7	10.8	33	8.3	3.3	<0.1	<0.1	0.2
11-BSW-077	Soil	19.5	3.63	0.73	3.56	0.59	3.70	0.80	2.37	0.38	2.51	0.40	1.0	12.0	6.9	159	59.7	3.4	0.8	0.1	0.1
11-BSW-074	Soil	14.3	2.63	0.53	2.47	0.42	2.67	0.57	1.74	0.28	1.82	0.30	1.8	6.8	7.0	59	15.1	6.2	0.4	0.1	<0.1
11-MGB-032	Soil	26.6	4.40	0.85	3.61	0.56	3.29	0.65	1.93	0.30	1.91	0.30	0.3	10.5	16.5	44	12.6	8.6	0.2	0.3	<0.1
11-MGB-088	Soil	25.5	4.38	0.84	3.62	0.56	3.18	0.64	1.89	0.28	1.88	0.29	1.9	10.0	78.0	226	13.0	14.9	0.5	0.1	0.5
11-MGB-094	Soil	22.2	3.91	0.80	3.10	0.49	2.72	0.55	1.65	0.27	1.72	0.27	17.6	28.4	162.0	247	10.4	23.3	0.7	0.5	2.7
11-MGB-044	Soil	18.2	3.22	0.61	2.89	0.44	2.69	0.55	1.53	0.24	1.53	0.23	1.6	8.8	13.2	106	21.0	20.7	1.3	0.4	0.1
11-MGB-065	Soil	18.6	3.16	0.65	2.61	0.41	2.34	0.48	1.48	0.25	1.66	0.25	1.4	11.6	27.0	30	16.0	4.3	0.4	<0.1	0.4
11-MGB-046	Soil	15.9	2.91	0.55	2.75	0.46	2.80	0.58	1.79	0.30	1.87	0.31	2.8	9.8	10.2	79	15.8	10.2	0.7	0.5	<0.1
11-AAB-0035	Soil	20.1	4.03	0.81	3.75	0.60	3.60	0.71	2.23	0.34	2.29	0.34	1.1	11.4	9.4	53	15.9	6.9	0.2	0.2	<0.1
11-AAB-0048	Soil	13.3	2.29	0.45	2.21	0.34	1.93	0.41	1.26	0.19	1.20	0.19	1.8	18.6	10.9	270	60.4	6.5	13.1	0.7	<0.1
11-AAB-0053	Soil	27.0	4.35	0.76	3.37	0.53	3.03	0.63	1.93	0.31	2.05	0.32	0.6	3.5	6.6	11	2.2	1.2	0.2	<0.1	0.1
11-AAB-0054	Soil	15.5	2.66	0.54	2.37	0.38	2.25	0.46	1.38	0.22	1.50	0.23	1.2	8.0	10.3	69	13.5	5.0	0.9	0.1	0.1
11-AAB-0039	Soil	16.9	3.41	0.74	3.28	0.54	3.15	0.64	1.92	0.31	2.00	0.32	0.7	9.7	7.6	53	13.6	5.7	0.2	0.1	<0.1
11-AAB-0047	Soil	11.1	2.17	0.41	1.96	0.32	2.02	0.44	1.38	0.22	1.52	0.25	2.4	7.4	9.3	50	12.6	7.6	0.3	0.3	<0.1
11-AAB-0052	Soil	3.9	0.79	0.17	0.76	0.12	0.64	0.13	0.37	0.06	0.36	0.05	1.5	11.5	2.5	50	11.8	2.5	8.3	0.5	<0.1
11-AAB-0062	Soil	10.6	1.89	0.48	1.69	0.26	1.42	0.30	0.79	0.12	0.77	0.11	0.7	10.8	15.6	59	2.7	6.6	1.0	0.2	<0.1
11-AAB-0063	Soil	29.4	5.12	1.11	4.50	0.69	3.82	0.78	2.22	0.34	2.16	0.33	1.5	17.9	120.2	365	12.4	11.1	0.5	0.2	1.0
11-AAB-0061	Soil	21.4	3.59	0.65	2.72	0.44	2.48	0.50	1.50	0.25	1.58	0.26	4.4	8.4	46.9	183	16.2	14.0	0.3	0.2	0.4
11-AAB-0036	Soil	21.2	3.94	0.81	3.49	0.58	3.37	0.71	2.08	0.34	2.25	0.35	1.6	11.4	11.1	62	19.0	6.4	0.5	0.2	0.1
11-AAB-0056	Soil	15.7	2.88	0.58	2.58	0.41	2.42	0.50	1.52	0.24	1.65	0.24	2.3	10.0	12.2	160	17.5	8.9	5.1	0.3	0.1
11-AAB-0033	Soil	22.9	4.43	0.95	4.20	0.67	3.82	0.82	2.41	0.36	2.37	0.37	3.4	19.5	10.1	182	51.4	8.1	2.9	0.2	0.1
11-MGB-078	Soil	24.0	3.89	0.73	3.18	0.49	2.94	0.63	1.86	0.28	1.93	0.29	2.4	6.9	12.0	46	13.8	6.3	0.2	0.1	0.2
11-MGB-084	Soil	24.5	4.31	0.76	3.40	0.54	3.07	0.65	1.96	0.31	2.00	0.31	1.8	6.7	15.1	95	18.0	7.4	0.4	<0.1	0.2
11-MGB-085	Soil	27.8	4.74	0.89	3.82	0.61	3.69	0.77	2.15	0.37	2.30	0.35	2.6	11.5	12.6	103	22.1	7.5	1.0	0.3	0.2
11-MGB-036	Soil	18.1	3.31	0.60	2.76	0.46	2.50	0.52	1.53	0.25	1.59	0.25	0.2	10.0	9.5	54	5.7	3.4	0.3	0.2	<0.1
11-AAB-0057	Soil	29.0	5.16	0.98	4.20	0.67	3.96	0.82	2.44	0.37	2.46	0.37	0.6	6.3	9.2	159	9.5	5.9	0.5	0.4	<0.1
11-BCQ-0042	Soil	37.4	6.29	1.23	5.35	0.79	4.36	0.88	2.50	0.39	2.52	0.37	6.3	41.9	18.1	90	29.1	18.4	0.9	1.2	0.2
11-BSW-068	Soil	41.1	7.93	1.40	7.12	1.11	6.34	1.29	3.74	0.59	3.91	0.59	2.5	16.7	17.0	61	17.6	10.6	0.2	0.4	0.2
11-BSW-091	Soil	0.8	0.21	0.04	0.19	0.03	0.17	0.03	0.10	0.02	0.09	0.02	0.2	2.1	1.4	334	18.8	2.3	0.3	<0.1	<0.1



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Project: TING_RG

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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-026	Soil	<0.1	<0.5	<0.01	0.1	<0.5
11-BSW-077	Soil	0.1	<0.5	0.03	<0.1	4.7
11-BSW-074	Soil	<0.1	<0.5	0.02	<0.1	1.3
11-MGB-032	Soil	<0.1	<0.5	0.02	0.2	0.9
11-MGB-088	Soil	0.1	1.0	0.02	0.4	0.8
11-MGB-094	Soil	0.4	<0.5	0.02	0.4	0.9
11-MGB-044	Soil	0.2	<0.5	0.10	0.1	2.8
11-MGB-065	Soil	<0.1	<0.5	0.03	0.2	<0.5
11-MGB-046	Soil	0.1	<0.5	0.06	0.2	1.3
11-AAB-0035	Soil	<0.1	<0.5	0.01	0.1	<0.5
11-AAB-0048	Soil	0.1	<0.5	0.07	0.5	1.9
11-AAB-0053	Soil	0.1	<0.5	0.02	<0.1	<0.5
11-AAB-0054	Soil	0.2	<0.5	0.04	0.1	1.1
11-AAB-0039	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-AAB-0047	Soil	<0.1	<0.5	0.02	<0.1	1.1
11-AAB-0052	Soil	0.3	0.7	0.15	<0.1	4.1
11-AAB-0062	Soil	0.1	<0.5	0.08	<0.1	0.6
11-AAB-0063	Soil	0.2	0.9	0.04	0.4	0.7
11-AAB-0061	Soil	0.2	<0.5	0.03	0.4	<0.5
11-AAB-0036	Soil	<0.1	<0.5	0.02	0.1	0.6
11-AAB-0056	Soil	0.2	<0.5	0.11	0.2	2.8
11-AAB-0033	Soil	0.6	<0.5	0.17	0.3	3.7
11-MGB-078	Soil	<0.1	0.8	0.02	0.1	0.6
11-MGB-084	Soil	<0.1	<0.5	<0.01	0.2	0.5
11-MGB-085	Soil	0.1	1.6	0.01	0.1	0.7
11-MGB-036	Soil	<0.1	0.7	0.04	<0.1	<0.5
11-AAB-0057	Soil	<0.1	1.3	0.03	0.1	<0.5
11-BCQ-0042	Soil	0.2	1.4	0.08	0.3	2.2
11-BSW-068	Soil	<0.1	1.7	0.04	0.1	<0.5
11-BSW-091	Soil	<0.1	1.0	0.02	<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
		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-BSW-090	Soil	431	<1	42.1	0.9	2.9	4.2	2.4	15.2	<1	21.5	0.2	1.9	2.3	45	<0.5	154.6	7.1	7.0
11-BCQ-0135	Soil	550	<1	3.5	1.6	4.8	4.6	7.7	33.4	1	84.8	0.5	5.4	1.7	69	0.5	159.9	12.6	19.2
11-BCQ-0137	Soil	664	1	4.5	1.9	6.4	4.3	10.0	43.3	<1	82.2	0.7	5.8	1.8	61	0.8	159.2	13.5	21.4
11-BCQ-0138	Soil	565	<1	4.2	2.9	4.8	5.3	8.4	36.1	<1	75.2	0.6	6.0	1.5	56	<0.5	191.3	10.7	20.5
11-BCQ-0139	Soil	748	1	6.4	3.0	9.0	5.4	12.3	63.2	2	98.8	0.9	9.0	2.3	74	0.8	199.3	16.7	26.6
11-BCQ-0140	Soil	530	<1	7.9	2.1	6.5	5.3	9.0	43.2	<1	94.6	0.7	7.4	1.9	68	0.7	190.7	14.4	26.8
11-BCQ-0141	Soil	406	<1	4.4	2.5	5.4	3.2	9.3	37.5	<1	76.8	0.6	6.4	1.6	57	0.6	120.3	12.0	21.1
11-BCQ-0142	Soil	370	1	5.4	5.2	6.5	6.4	19.0	52.2	1	68.7	1.1	8.6	2.3	51	0.9	236.5	16.6	27.8
11-BCQ-0143	Soil	412	2	7.5	15.5	9.4	4.4	25.1	73.7	2	58.7	1.3	9.3	2.6	64	1.0	168.6	17.7	28.7
11-BCQ-0144	Soil	185	1	1.9	7.0	3.6	1.4	6.8	25.6	<1	58.6	0.3	3.3	1.1	20	<0.5	55.3	8.3	12.9
11-BCQ-0145	Soil	324	1	4.7	5.6	6.0	3.8	15.3	45.1	<1	66.7	0.8	7.3	2.0	43	0.6	161.3	14.5	24.4
11-BCQ-0146	Soil	201	<1	2.6	3.6	3.6	3.0	7.0	24.4	<1	54.4	0.3	3.9	1.3	23	0.6	106.0	9.6	16.3
11-BCQ-0147	Soil	276	<1	4.0	2.7	5.1	4.6	8.3	36.1	1	72.6	0.5	6.7	1.8	37	0.9	175.2	12.8	24.8
11-BCQ-0148	Soil	246	1	3.5	4.5	4.9	4.2	11.9	36.1	<1	62.1	0.6	5.5	1.6	33	1.5	159.1	11.6	20.2
11-BCQ-0149	Soil	216	1	2.7	4.7	3.8	3.5	11.4	31.1	<1	60.2	0.6	5.1	1.9	29	0.5	146.2	11.1	18.4
11-BCQ-0150	Soil	165	<1	2.7	3.3	3.5	3.2	9.1	24.9	<1	60.5	0.4	4.4	1.4	22	0.6	123.8	9.5	16.2
11-BCQ-0152	Soil	300	2	5.0	3.0	5.9	4.3	18.8	48.3	1	62.0	0.9	7.0	2.1	42	0.6	176.6	12.4	23.4
11-BCQ-0153	Soil	216	<1	2.4	2.5	4.1	2.4	10.5	28.9	<1	58.3	0.6	4.1	1.2	26	0.7	96.7	8.6	15.3
11-BCQ-0154	Soil	1061	2	44.4	3.3	7.7	4.9	15.0	57.0	2	74.4	0.9	6.7	4.0	211	0.9	176.5	24.6	25.2
11-BCQ-0155	Soil	1184	2	19.7	2.9	7.1	5.9	17.0	52.0	1	53.2	1.0	6.6	3.7	262	0.9	232.0	24.6	25.1
11-BCQ-0156	Soil	388	<1	4.3	3.0	4.4	3.9	12.0	35.7	<1	61.6	0.8	4.7	2.0	80	0.6	140.4	11.5	18.8
11-BCQ-0158	Soil	412	1	6.1	3.8	6.9	7.6	15.9	53.5	1	65.2	1.0	7.7	2.2	42	1.4	275.6	14.6	24.8
11-BCQ-0160	Soil	3654	1	4.8	3.8	8.2	4.3	11.1	64.7	1	52.3	0.8	6.7	4.4	492	0.9	171.3	17.0	29.6
11-BCQ-0161	Soil	410	1	5.2	5.4	7.3	7.9	21.5	60.4	<1	59.5	1.3	8.3	2.8	41	1.3	292.7	15.4	27.0
11-BCQ-0118	Soil	360	<1	2.8	1.3	4.4	3.7	8.3	29.9	1	85.1	0.5	5.0	1.6	35	<0.5	142.7	10.2	18.0
11-MGB-062	Soil	427	1	8.3	3.2	13.5	8.8	24.2	48.4	2	74.1	1.7	9.7	2.8	102	1.6	327.0	17.3	28.8
11-MGB-069	Soil	486	2	8.4	4.4	14.2	9.6	33.9	78.3	2	81.6	2.1	10.8	3.3	92	1.6	353.1	16.5	37.5



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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	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-BSW-090	Soil	6.8	1.17	0.25	1.04	0.17	1.09	0.24	0.65	0.11	0.75	0.11	2.5	5.1	4.2	312	42.5	6.2	0.6
11-BCQ-0135	Soil	16.9	3.04	0.59	2.45	0.38	2.22	0.41	1.20	0.19	1.21	0.18	0.5	4.2	5.7	69	7.5	4.2	0.4
11-BCQ-0137	Soil	17.4	3.15	0.59	2.58	0.40	2.36	0.49	1.36	0.21	1.34	0.20	0.3	6.0	10.7	48	8.7	6.7	0.5
11-BCQ-0138	Soil	16.2	2.89	0.53	2.35	0.35	1.75	0.36	1.03	0.17	1.06	0.16	0.3	4.2	5.8	38	10.8	3.1	0.3
11-BCQ-0139	Soil	22.3	3.98	0.79	3.36	0.50	2.70	0.54	1.61	0.26	1.63	0.23	0.6	11.6	14.1	82	18.3	6.2	0.6
11-BCQ-0140	Soil	21.1	3.68	0.71	3.20	0.45	2.48	0.49	1.37	0.23	1.45	0.22	1.0	10.0	14.7	68	18.6	12.0	0.8
11-BCQ-0141	Soil	17.1	2.97	0.55	2.57	0.38	2.07	0.42	1.16	0.18	1.16	0.17	3.1	15.3	13.9	93	20.3	8.8	1.4
11-BCQ-0142	Soil	21.4	3.85	0.74	3.30	0.51	2.86	0.58	1.67	0.27	1.77	0.25	0.4	11.1	13.0	67	10.4	8.2	0.4
11-BCQ-0143	Soil	21.8	4.02	0.80	3.47	0.53	2.93	0.61	1.78	0.27	1.65	0.25	0.7	19.2	19.8	106	15.6	11.4	0.5
11-BCQ-0144	Soil	9.4	1.67	0.33	1.48	0.22	1.16	0.26	0.68	0.11	0.65	0.10	0.2	7.5	8.4	62	5.1	7.5	0.3
11-BCQ-0145	Soil	18.5	3.35	0.64	2.95	0.42	2.32	0.48	1.43	0.22	1.35	0.20	0.3	10.6	15.2	136	9.6	6.9	1.3
11-BCQ-0146	Soil	11.6	2.06	0.39	1.70	0.27	1.57	0.31	0.94	0.15	0.91	0.14	0.2	4.6	8.1	47	5.1	5.7	0.3
11-BCQ-0147	Soil	18.3	3.22	0.57	2.68	0.40	2.25	0.45	1.25	0.20	1.22	0.19	0.3	7.0	11.2	52	8.4	8.4	0.3
11-BCQ-0148	Soil	16.1	2.78	0.54	2.37	0.36	1.93	0.38	1.17	0.19	1.22	0.18	0.3	6.6	13.5	159	7.0	7.5	0.9
11-BCQ-0149	Soil	14.6	2.54	0.46	2.17	0.32	1.80	0.37	1.06	0.17	1.06	0.16	0.3	6.2	10.3	173	7.0	5.0	0.8
11-BCQ-0150	Soil	12.7	2.37	0.44	1.98	0.30	1.54	0.31	0.87	0.16	0.90	0.14	0.4	4.7	9.6	143	5.3	5.3	0.9
11-BCQ-0152	Soil	16.9	3.10	0.62	2.59	0.41	2.24	0.46	1.40	0.22	1.37	0.20	0.6	12.9	15.6	129	13.4	8.4	1.5
11-BCQ-0153	Soil	12.2	2.15	0.40	1.82	0.27	1.47	0.28	0.83	0.13	0.83	0.12	0.2	4.0	6.9	53	6.0	3.3	0.9
11-BCQ-0154	Soil	21.1	4.02	0.84	3.73	0.58	3.23	0.71	2.09	0.32	1.97	0.33	27.2	41.5	14.5	4845	651.9	23.6	96.9
11-BCQ-0155	Soil	22.4	4.28	0.89	3.94	0.63	3.61	0.77	2.25	0.34	2.11	0.33	8.0	30.1	20.6	1972	250.3	18.9	37.6
11-BCQ-0156	Soil	15.4	2.71	0.52	2.34	0.34	1.92	0.36	1.15	0.18	1.15	0.18	1.2	8.7	7.8	391	40.6	5.2	6.6
11-BCQ-0158	Soil	20.2	3.59	0.73	3.10	0.48	2.57	0.52	1.58	0.25	1.58	0.25	0.7	8.2	15.8	52	11.0	15.3	0.3
11-BCQ-0160	Soil	22.6	3.99	0.74	3.23	0.48	2.65	0.54	1.70	0.27	1.71	0.25	6.7	18.8	11.0	367	37.9	11.1	6.0
11-BCQ-0161	Soil	22.5	3.87	0.79	3.29	0.51	2.80	0.56	1.72	0.27	1.63	0.27	0.5	7.1	15.3	67	10.2	18.8	0.5
11-BCQ-0118	Soil	14.1	2.62	0.51	2.18	0.33	1.90	0.35	1.10	0.16	1.04	0.16	0.2	4.6	7.2	39	7.0	2.3	0.3
11-MGB-062	Soil	23.1	3.91	0.72	3.28	0.52	3.11	0.67	2.02	0.32	2.11	0.31	0.8	8.4	13.0	32	13.1	4.8	0.1
11-MGB-069	Soil	27.4	4.18	0.72	3.33	0.52	3.09	0.62	2.04	0.31	2.11	0.32	1.1	11.2	12.5	39	16.3	8.1	0.1



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CERTIFICATE OF ANALYSIS

VAN11002656.1

	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-BSW-090	Soil	<0.1	0.9	0.04	0.1	1.9
11-BCQ-0135	Soil	<0.1	0.9	0.02	<0.1	<0.5
11-BCQ-0137	Soil	<0.1	1.6	0.04	0.1	<0.5
11-BCQ-0138	Soil	<0.1	0.9	0.01	<0.1	<0.5
11-BCQ-0139	Soil	<0.1	1.9	0.06	0.2	0.6
11-BCQ-0140	Soil	<0.1	1.0	0.04	0.2	<0.5
11-BCQ-0141	Soil	0.3	1.4	0.06	0.1	2.1
11-BCQ-0142	Soil	<0.1	0.6	0.04	<0.1	<0.5
11-BCQ-0143	Soil	<0.1	3.2	0.10	0.2	<0.5
11-BCQ-0144	Soil	<0.1	1.3	0.05	0.3	0.7
11-BCQ-0145	Soil	<0.1	1.6	0.05	0.3	0.5
11-BCQ-0146	Soil	<0.1	<0.5	0.03	0.3	0.6
11-BCQ-0147	Soil	<0.1	1.3	0.03	0.2	<0.5
11-BCQ-0148	Soil	<0.1	<0.5	0.04	<0.1	0.5
11-BCQ-0149	Soil	<0.1	1.3	0.04	0.1	0.5
11-BCQ-0150	Soil	<0.1	<0.5	0.04	0.1	<0.5
11-BCQ-0152	Soil	<0.1	1.2	0.06	<0.1	0.8
11-BCQ-0153	Soil	<0.1	0.5	0.03	<0.1	<0.5
11-BCQ-0154	Soil	0.3	1.1	0.15	5.7	8.5
11-BCQ-0155	Soil	0.3	0.9	0.09	2.3	2.1
11-BCQ-0156	Soil	<0.1	<0.5	0.03	0.5	<0.5
11-BCQ-0158	Soil	<0.1	<0.5	0.02	0.4	<0.5
11-BCQ-0160	Soil	0.4	<0.5	0.07	0.6	1.5
11-BCQ-0161	Soil	<0.1	0.9	0.05	0.3	0.5
11-BCQ-0118	Soil	<0.1	<0.5	0.03	<0.1	<0.5
11-MGB-062	Soil	<0.1	<0.5	<0.01	0.1	<0.5
11-MGB-069	Soil	<0.1	1.1	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
		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-0071	Soil	486	1	9.0	2.8	9.7	10.5	9.1	52.8	1	74.7	0.7	7.2	2.8	74	0.7	435.1	22.5	23.7	49.7
REP 11-AAB-0071	QC	485	1	9.0	2.8	9.1	11.3	9.3	51.5	1	73.4	0.6	7.3	2.7	76	0.8	449.4	21.1	21.5	44.7
11-BSW-128	Soil	762	4	9.8	4.7	15.9	8.2	85.4	103.2	1	234.1	4.4	17.1	4.5	110	2.6	366.9	30.2	76.5	127.0
REP 11-BSW-128	QC	769	4	10.0	4.5	16.3	8.3	86.3	103.5	2	238.7	4.4	16.9	4.4	108	2.3	381.7	29.4	76.4	127.0
11-BCQ-0122	Soil	751	<1	2.1	0.7	2.4	3.0	4.3	18.1	<1	105.6	0.3	2.9	1.4	42	<0.5	123.9	9.6	12.6	23.8
REP 11-BCQ-0122	QC																			
11-BSW-088	Soil	711	<1	5.1	1.6	6.0	9.0	6.2	31.1	<1	64.1	0.5	4.6	4.1	84	0.7	377.4	16.3	15.6	29.6
REP 11-BSW-088	QC	758	1	5.4	1.5	4.9	9.5	5.7	31.4	<1	66.7	0.4	5.1	3.9	82	0.6	374.5	16.5	18.1	34.7
11-AAB-0034	Soil	528	2	6.9	2.8	10.3	11.4	37.4	68.1	1	174.3	1.9	13.0	4.0	77	2.2	478.3	20.6	38.2	66.0
REP 11-AAB-0034	QC																			
11-BSW-099	Soil	636	1	8.1	6.3	12.8	8.1	13.0	136.8	2	125.1	0.8	10.6	3.0	63	29.1	291.0	22.8	36.7	67.5
REP 11-BSW-099	QC																			
11-BCQ-0042	Soil	497	2	8.2	3.4	8.6	7.9	15.2	61.6	2	58.6	0.9	9.8	6.3	254	2.0	298.6	28.4	43.0	80.8
REP 11-BCQ-0042	QC	499	2	8.5	3.7	8.4	7.3	14.2	60.3	1	58.0	1.1	9.0	6.2	256	1.6	265.9	28.3	37.9	68.4
11-BCQ-0138	Soil	565	<1	4.2	2.9	4.8	5.3	8.4	36.1	<1	75.2	0.6	6.0	1.5	56	<0.5	191.3	10.7	20.5	40.9
REP 11-BCQ-0138	QC																			
Reference Materials																				
STD DS8	Standard																			
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																			



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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-0071	Soil	22.0	4.01	0.84	3.57	0.60	3.59	0.72	2.19	0.34	2.18	0.34	1.2	12.4	9.2	51	19.7	6.2	0.2	0.2	0.1
REP 11-AAB-0071	QC	19.5	3.93	0.80	3.46	0.58	3.43	0.69	2.00	0.34	2.15	0.34									
11-BSW-128	Soil	47.1	7.25	1.61	6.00	0.90	5.16	1.04	2.95	0.47	2.89	0.45	2.1	18.1	16.0	87	26.7	9.4	0.3	0.2	0.2
REP 11-BSW-128	QC	48.0	7.31	1.62	6.16	0.90	4.97	1.04	2.95	0.46	2.93	0.45									
11-BCQ-0122	Soil	10.3	1.88	0.38	1.68	0.27	1.50	0.31	0.84	0.14	0.84	0.14	0.6	4.3	6.8	52	7.2	4.7	0.8	0.9	<0.1
REP 11-BCQ-0122	QC												0.6	4.2	7.0	50	7.4	4.9	0.8	1.0	<0.1
11-BSW-088	Soil	14.8	2.76	0.55	2.31	0.40	2.34	0.52	1.59	0.23	1.47	0.24	2.0	8.9	7.6	68	14.1	5.1	0.7	0.4	<0.1
REP 11-BSW-088	QC	15.3	3.00	0.60	2.59	0.44	2.43	0.54	1.49	0.25	1.56	0.26									
11-AAB-0034	Soil	22.6	4.28	0.88	3.54	0.60	3.21	0.72	2.27	0.35	2.12	0.35	1.6	9.2	9.5	56	14.1	4.6	0.2	0.2	0.1
REP 11-AAB-0034	QC												1.7	9.7	10.2	60	14.9	5.3	0.3	0.2	0.1
11-BSW-099	Soil	27.8	5.26	1.19	4.57	0.71	3.60	0.78	2.48	0.36	2.24	0.36	11.6	38.4	332.1	328	13.9	26.3	1.2	0.6	2.2
REP 11-BSW-099	QC												11.4	37.2	332.4	334	13.4	26.1	1.2	0.7	1.7
11-BCQ-0042	Soil	37.4	6.29	1.23	5.35	0.79	4.36	0.88	2.50	0.39	2.52	0.37	6.3	41.9	18.1	90	29.1	18.4	0.9	1.2	0.2
REP 11-BCQ-0042	QC	31.8	5.78	1.24	5.04	0.78	4.05	0.88	2.63	0.40	2.49	0.39									
11-BCQ-0138	Soil	16.2	2.89	0.53	2.35	0.35	1.75	0.36	1.03	0.17	1.06	0.16	0.3	4.2	5.8	38	10.8	3.1	0.3	0.2	<0.1
REP 11-BCQ-0138	QC												0.3	4.7	5.3	40	11.6	3.4	0.2	0.2	<0.1
Reference Materials																					
STD DS8	Standard												12.2	111.2	121.1	306	37.7	23.4	2.3	4.9	6.0
STD DS8	Standard												12.7	115.3	118.0	310	35.6	24.5	2.2	5.2	6.9
STD DS8	Standard												12.0	113.2	128.5	310	39.0	27.4	2.5	4.5	6.9
STD DS8	Standard												12.2	105.2	115.3	296	36.3	27.1	2.2	4.8	6.5
STD DS8	Standard												14.3	111.2	128.7	338	36.2	29.2	2.7	4.0	7.2
STD DS8	Standard												12.1	102.7	108.9	301	35.3	25.3	2.4	3.5	5.5
STD DS8	Standard												13.3	107.4	116.2	320	36.8	26.7	2.4	4.2	6.3
STD OREAS45CA	Standard												0.9	445.8	18.8	54	213.1	3.8	<0.1	0.2	0.2
STD OREAS45CA	Standard												0.7	437.7	19.0	59	198.8	3.0	0.1	0.1	0.2
STD OREAS45CA	Standard												0.8	480.7	21.1	66	237.2	4.5	0.2	<0.1	0.2
STD OREAS45CA	Standard												1.1	457.5	19.8	60	219.9	4.1	0.1	0.2	0.2



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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-0071	Soil	<0.1	0.7	0.01	<0.1	0.6
REP 11-AAB-0071	QC					
11-BSW-128	Soil	0.2	0.9	0.03	0.2	0.7
REP 11-BSW-128	QC					
11-BCQ-0122	Soil	<0.1	<0.5	0.01	<0.1	<0.5
REP 11-BCQ-0122	QC	<0.1	1.2	0.01	<0.1	<0.5
11-BSW-088	Soil	0.1	0.6	0.04	<0.1	2.0
REP 11-BSW-088	QC					
11-AAB-0034	Soil	<0.1	0.8	0.02	<0.1	0.5
REP 11-AAB-0034	QC	<0.1	<0.5	0.03	<0.1	0.9
11-BSW-099	Soil	0.4	7.4	0.04	0.9	<0.5
REP 11-BSW-099	QC	0.3	5.3	0.05	0.9	<0.5
11-BCQ-0042	Soil	0.2	1.4	0.08	0.3	2.2
REP 11-BCQ-0042	QC					
11-BCQ-0138	Soil	<0.1	0.9	0.01	<0.1	<0.5
REP 11-BCQ-0138	QC	<0.1	<0.5	0.02	<0.1	<0.5
Reference Materials						
STD DS8	Standard	1.9	102.0	0.17	4.8	5.2
STD DS8	Standard	1.9	95.1	0.18	5.2	5.6
STD DS8	Standard	2.0	88.9	0.18	5.2	5.2
STD DS8	Standard	1.6	97.5	0.16	5.0	5.9
STD DS8	Standard	1.8	107.2	0.19	5.6	5.5
STD DS8	Standard	1.8	100.8	0.20	5.0	4.5
STD DS8	Standard	1.8	108.4	0.20	5.5	5.7
STD OREAS45CA	Standard	0.2	35.8	0.02	<0.1	<0.5
STD OREAS45CA	Standard	0.3	36.4	0.04	<0.1	0.6
STD OREAS45CA	Standard	0.3	35.2	0.03	<0.1	0.6
STD OREAS45CA	Standard	0.3	43.8	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 OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD SO-18	Standard	513	1	26.2	7.0	16.9	9.1	20.2	27.7	15	401.2	7.2	10.0	15.8	199	14.1	283.6	30.2	12.3	27.0	3.29
STD SO-18	Standard	516	2	25.3	6.8	17.4	9.1	20.5	27.4	15	401.3	6.9	10.2	15.5	194	14.0	283.2	29.9	11.9	25.8	3.27
STD SO-18	Standard	517	<1	26.4	6.9	17.3	8.8	20.4	27.2	15	397.4	6.9	9.7	15.8	198	13.8	280.8	30.3	12.1	26.4	3.26
STD SO-18	Standard	509	<1	26.5	7.1	17.6	8.9	19.7	27.4	14	390.6	6.9	9.3	15.2	190	14.0	273.2	27.2	11.7	25.7	3.24
STD SO-18	Standard	531	1	27.3	7.2	18.1	10.0	21.2	29.0	16	422.6	7.3	10.7	16.4	201	14.4	301.2	31.1	12.3	27.9	3.39
STD SO-18	Standard	538	2	28.0	7.2	18.5	9.7	21.4	28.8	15	420.7	7.4	10.4	16.5	199	14.7	302.2	31.2	12.2	27.4	3.39
STD SO-18	Standard	521	1	26.7	7.0	17.5	9.2	20.3	27.5	15	416.4	7.2	10.3	15.7	194	13.5	282.6	29.7	11.7	26.5	3.20
STD SO-18	Standard	502	<1	25.7	6.7	16.6	9.1	19.6	26.4	14	391.7	6.9	10.4	15.6	187	12.8	272.6	26.4	11.5	25.5	3.16
STD SO-18	Standard	497	<1	25.1	6.8	17.0	9.3	19.6	26.8	14	385.2	7.2	9.7	15.5	191	15.0	291.1	33.6	11.2	25.9	3.10
STD SO-18	Standard	501	<1	25.5	6.9	17.7	9.7	20.1	27.2	14	392.5	7.4	10.1	16.1	192	15.1	295.0	33.8	11.3	26.2	3.12
STD SO-18	Standard	544	1	27.7	7.2	19.8	10.0	22.0	28.9	16	435.4	7.6	10.2	16.3	196	15.5	310.4	32.1	12.5	27.8	3.38
STD SO-18	Standard	566	<1	28.3	7.4	19.8	9.9	23.6	29.8	15	448.5	7.9	11.0	16.8	201	15.7	320.8	33.2	12.8	28.8	3.46
STD SO-18	Standard	499	<1	26.0	6.8	17.3	9.0	19.9	27.2	14	394.8	7.1	10.0	15.5	201	13.4	279.9	29.2	11.9	26.6	3.22
STD SO-18	Standard	505	<1	25.7	6.8	16.6	9.1	20.7	26.9	14	392.0	7.5	9.6	15.5	195	12.9	278.6	29.9	11.7	26.0	3.17
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																				
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	1.2	<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	1.5	<0.1	<0.1	<0.1	<0.02



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QUALITY CONTROL REPORT

VAN11002656.1

		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	481.1	22.8	62	240.6	4.4	0.1
STD OREAS45CA	Standard												0.7	463.7	19.9	58	230.0	3.6	0.1
STD OREAS45CA	Standard												0.7	402.7	19.0	57	197.6	3.0	<0.1
STD OREAS45CA	Standard												0.8	496.3	18.3	61	230.8	3.4	<0.1
STD SO-18	Standard	13.6	2.79	0.85	2.86	0.48	2.87	0.62	1.74	0.27	1.82	0.27							
STD SO-18	Standard	13.5	2.82	0.87	2.82	0.48	2.99	0.60	1.78	0.28	1.75	0.26							
STD SO-18	Standard	12.7	2.79	0.86	2.78	0.49	2.90	0.61	1.77	0.27	1.76	0.26							
STD SO-18	Standard	13.3	2.81	0.85	2.78	0.47	3.03	0.58	1.72	0.26	1.66	0.26							
STD SO-18	Standard	14.3	2.98	0.88	2.95	0.51	3.05	0.62	1.87	0.29	1.81	0.28							
STD SO-18	Standard	14.0	3.04	0.88	3.01	0.50	3.02	0.62	1.90	0.29	1.84	0.27							
STD SO-18	Standard	13.4	2.82	0.85	2.93	0.49	2.98	0.59	1.74	0.27	1.70	0.26							
STD SO-18	Standard	12.8	2.72	0.84	2.88	0.47	2.89	0.59	1.69	0.26	1.69	0.26							
STD SO-18	Standard	12.7	2.75	0.83	2.78	0.51	2.79	0.60	1.72	0.29	1.71	0.26							
STD SO-18	Standard	13.0	2.83	0.83	2.82	0.53	2.87	0.59	1.73	0.27	1.71	0.26							
STD SO-18	Standard	13.6	2.99	0.87	2.88	0.50	3.00	0.62	1.79	0.28	1.72	0.26							
STD SO-18	Standard	14.3	3.08	0.91	2.95	0.51	2.99	0.63	1.81	0.29	1.79	0.27							
STD SO-18	Standard	13.2	2.79	0.84	2.84	0.48	2.83	0.59	1.72	0.27	1.75	0.26							
STD SO-18	Standard	12.9	2.84	0.83	2.82	0.49	2.95	0.62	1.80	0.29	1.85	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
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												<0.1	<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												<0.1	<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							



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Project: TING_RG

Report Date: July 16, 2011

Page: 2 of 3 **Part** 3

QUALITY CONTROL REPORT

VAN11002656.1

		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	44.5	0.03	<0.1	0.6
STD OREAS45CA	Standard	0.3	43.8	0.02	<0.1	0.9
STD OREAS45CA	Standard	0.3	39.6	0.03	<0.1	<0.5
STD OREAS45CA	Standard	0.4	54.7	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					
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	<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	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank					



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QUALITY CONTROL REPORT

VAN11002656.1

		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																				
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	1.1	<0.1	<0.1	<0.1	<0.02
BLK	Blank																				



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QUALITY CONTROL REPORT

VAN11002656.1

		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
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	<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1



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QUALITY CONTROL REPORT

VAN11002656.1

		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	<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



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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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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					
					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-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	67.6	8.84		
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	59.1	7.57		
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	49.4	6.55		
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	39.0	5.47		
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	60.0	8.97		
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	60.1	7.80		
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	47.9	6.62		
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	33.3	4.70		
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	34.9	4.93		
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	44.9	5.88		
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	28.1	4.01		
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	66.0	8.52		
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	55.1	7.15		
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	28.2	3.74		
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		
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	71.3	8.69		
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	82.3	10.53		
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	68.2	8.97		
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		
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	69.9	8.48		
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	78.8	10.39		
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	71.0	8.86		
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	72.0	9.55		
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	81.0	11.45		
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	90.9	12.25		
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	57.7	7.16		
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	101.5	11.88		
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	96.0	11.54		
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	230.8	25.37		
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	80.7	11.72		



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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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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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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-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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CERTIFICATE OF ANALYSIS

VAN11003255.1

	Method	Analyte	Unit	MDL	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
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	3.9	0.2
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	3.8	0.2
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	3.4	4.3
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	2.5	0.2
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	1.9	0.2
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	11.1	0.4
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	3.5	0.3
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	3.0	0.4
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	3.5	0.2
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	4.8	0.3
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	9.2	0.3
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	4.3	0.6
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	3.4	0.6
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	7.1	0.6
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	2.5	1.0
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	8.3	0.3
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	3.9	0.5
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	5.0	0.2
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	4.1	0.2
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	2.0	0.3
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	3.6	0.5
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	1.2	0.2
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
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	1.7	0.2
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	21.9	0.1
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	3.6	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	2.2	0.2
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	5.8	0.1
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	1.0	0.3
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	0.3	<0.1



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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-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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	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

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-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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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-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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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-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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	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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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
		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-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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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



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QUALITY CONTROL REPORT

VAN11003255.1

	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	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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Project: TING PROP C

Report Date: August 28, 2011

Page: 1 of 2 **Part** 3

QUALITY CONTROL REPORT

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
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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Project: TING PROP C

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QUALITY CONTROL REPORT

VAN11003255.1

		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 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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Project: TING PROP C

Report Date: August 28, 2011

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QUALITY CONTROL REPORT

VAN11003255.1

		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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Project: TING PROP C

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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: August 17, 2011

Report Date: October 14, 2011

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11004019.1

CLIENT JOB INFORMATION

Project: TING 2A
Shipment ID: 11545800604
P.O. Number
Number of Samples: 24

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	24	Crush, split and pulverize 250 g rock to 200 mesh			VAN
4B02	24	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
Michael Burns
Thomas Hasek



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 2A

Report Date: October 14, 2011

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CERTIFICATE OF ANALYSIS

VAN11004019.1

	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-MGB-349	Rock	1.61	903	2	<0.2	7.3	13.8	3.3	13.5	390.4	1	22.8	1.5	8.7	2.5	34	6.7	95.4	5.6	18.5	23.4
11-MGB-350	Rock	2.27	404	1	18.9	2.8	4.8	0.6	2.4	97.1	<1	17.4	0.3	1.7	1.4	12	7.0	17.9	4.5	4.0	15.9
11-MGB-368	Rock	0.94	38	2	0.3	0.7	1.7	3.2	8.8	15.1	<1	30.4	0.5	2.3	0.8	8	<0.5	141.5	4.4	7.3	14.0
11-MGB-424	Rock	1.47	638	<1	45.6	1.2	20.7	5.3	35.3	17.6	1	315.2	2.0	3.7	0.8	294	<0.5	207.6	27.1	25.4	57.2
11-MGB-417	Rock	1.78	45	<1	0.3	0.2	1.2	5.5	2.5	2.7	<1	23.4	0.1	1.5	0.8	14	<0.5	224.0	4.2	5.8	11.3
11-MGB-419	Rock	0.86	25	<1	1.3	<0.1	1.7	13.2	5.1	1.1	<1	22.3	0.4	3.4	1.4	16	<0.5	540.4	9.3	11.9	22.7
11-MGB-418	Rock	0.84	16	<1	0.9	<0.1	0.6	7.6	1.7	0.7	<1	7.2	0.2	1.4	0.6	11	<0.5	288.7	10.6	4.7	9.3
11-MGB-431	Rock	0.41	300	1	3.4	0.1	1.3	0.2	1.0	4.0	<1	37.4	<0.1	0.8	1.9	12	<0.5	9.5	17.3	14.4	40.6
11-MGB-436	Rock	2.20	140	<1	5.6	2.5	9.8	16.5	11.7	76.7	2	40.3	0.9	9.4	2.5	49	2.5	648.9	27.8	23.4	48.8
11-MGB-435	Rock	1.79	116	1	6.6	2.5	9.1	4.4	6.5	68.1	1	15.8	0.4	6.6	1.5	44	1.1	174.1	27.9	25.4	57.8
11-MGB-437	Rock	1.39	>50000	<1	1.1	0.3	2.0	0.4	1.0	9.8	<1	5146	0.8	0.7	0.6	21	0.7	14.3	1.2	7.3	11.9
11-MGB-438	Rock	0.57	94	<1	1.3	<0.1	<0.5	<0.1	0.5	2.4	<1	10.3	<0.1	<0.2	0.6	20	1.4	5.0	0.8	2.1	3.5
11-J2-136	Rock	1.70	83	<1	0.7	0.2	2.3	3.5	2.6	4.4	<1	53.1	0.1	1.4	0.4	30	<0.5	127.7	3.2	6.9	13.2
11-AAB-0390	Rock	0.70	65	<1	0.3	0.1	3.4	1.2	0.9	5.4	<1	73.7	<0.1	2.9	0.7	19	<0.5	46.4	2.4	7.5	15.7
11-BCQ-0222	Rock	1.21	74	<1	1.4	0.4	3.7	2.6	2.4	19.2	<1	43.2	0.2	2.6	1.1	23	<0.5	100.3	5.3	8.8	17.5
11-BCQ-0191	Rock	1.70	43	1	0.3	<0.1	1.8	2.0	3.0	3.2	<1	37.4	0.2	1.9	1.0	22	<0.5	76.3	78.1	14.3	40.9
11-BCQ-0242	Rock	0.95	61	<1	3.2	0.5	4.3	2.3	3.8	24.1	<1	39.2	0.3	4.0	1.4	26	<0.5	90.9	7.1	14.3	29.9
11-BCQ-0213	Rock	1.29	6	<1	<0.2	<0.1	<0.5	0.2	<0.1	0.3	<1	36.2	<0.1	<0.2	1.0	15	<0.5	1.4	2.3	1.1	1.0
11-BCQ-0246	Rock	1.59	46	<1	1.2	0.2	2.3	2.6	2.2	14.2	<1	44.2	0.1	2.4	1.2	19	<0.5	102.8	5.2	7.7	14.7
11-BCQ-0197	Rock	1.21	19	2	0.3	0.3	2.1	1.9	6.3	8.6	<1	8.3	0.3	1.8	0.5	22	<0.5	69.0	3.4	8.1	15.9
11-MGB-432	Rock	0.79	1114	2	0.9	1.2	17.7	7.8	51.8	56.0	2	8.9	3.1	9.4	2.0	133	0.6	287.4	19.6	28.3	58.2
11-MGB-439	Rock	0.76	123	<1	3.6	<0.1	0.7	0.3	0.6	1.4	<1	29.5	<0.1	0.4	0.5	11	0.6	10.3	1.5	1.5	2.3
11-MGB-427	Rock	0.88	716	<1	5.4	1.4	9.3	4.5	32.0	49.0	1	55.7	1.9	5.6	1.1	125	0.6	176.9	22.8	21.5	49.8
11-MGB-441	Rock	2.08	269	3	11.0	10.0	16.9	3.5	12.0	159.1	3	10.2	1.0	18.5	4.5	82	2.0	127.7	43.8	48.3	99.9



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Project: TING 2A

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CERTIFICATE OF ANALYSIS

VAN11004019.1

	Method Analyte Unit MDL	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
		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
11-MGB-349	Rock	2.94	9.4	1.61	0.27	1.06	0.16	1.06	0.19	0.62	0.13	0.94	0.15	65.0	13.6	212.8	25	0.5	3.5
11-MGB-350	Rock	1.23	5.2	1.23	0.39	1.15	0.18	1.10	0.20	0.46	0.09	0.58	0.09	10.8	48.4	945.0	197	2.9	4.3
11-MGB-368	Rock	1.49	4.6	0.83	0.18	0.78	0.12	0.79	0.18	0.53	0.09	0.52	0.08	0.3	0.8	1.6	2	0.7	0.6
11-MGB-424	Rock	7.26	31.6	6.63	2.10	6.87	0.98	5.24	0.95	2.66	0.39	2.37	0.31	0.7	93.5	4.0	102	48.1	<0.5
11-MGB-417	Rock	1.28	4.8	0.82	0.15	0.72	0.11	0.70	0.17	0.39	0.09	0.47	0.09	0.2	0.9	2.5	<1	0.7	<0.5
11-MGB-419	Rock	2.68	8.8	1.71	0.23	1.47	0.22	1.26	0.27	0.83	0.16	1.23	0.21	0.2	2.5	3.0	79	4.8	1.1
11-MGB-418	Rock	1.11	3.3	0.80	0.14	0.90	0.18	1.16	0.25	0.83	0.13	1.01	0.16	<0.1	1.9	1.2	101	5.1	<0.5
11-MGB-431	Rock	6.69	28.3	4.71	0.99	4.77	0.52	2.42	0.40	0.90	0.12	0.56	0.08	1.3	4.2	3.7	12	22.8	33.4
11-MGB-436	Rock	5.86	23.0	4.57	1.02	4.71	0.74	4.58	1.06	2.75	0.48	2.95	0.46	<0.1	15.0	4.2	144	6.9	<0.5
11-MGB-435	Rock	6.58	26.4	5.20	1.10	5.37	0.89	5.50	1.01	2.52	0.37	2.18	0.30	0.5	9.3	5.2	9	4.8	2.2
11-MGB-437	Rock	1.22	3.8	0.41	0.12	0.48	0.04	0.26	0.08	0.18	0.02	0.17	0.03	<0.1	9.5	2.5	28	1.8	0.6
11-MGB-438	Rock	0.50	2.2	0.33	0.07	0.33	0.03	0.14	0.02	0.04	<0.01	<0.05	0.01	0.1	18.0	8.5	26	2.2	0.8
11-J2-136	Rock	1.57	6.8	0.93	0.20	0.78	0.11	0.58	0.10	0.34	0.06	0.48	0.07	0.2	1.2	0.6	2	1.2	2.2
11-AAB-0390	Rock	1.43	5.4	0.86	0.18	0.67	0.08	0.49	0.10	0.26	0.04	0.22	0.04	0.3	1.4	1.0	3	1.4	0.8
11-BCQ-0222	Rock	1.93	7.1	1.22	0.28	0.97	0.15	1.00	0.18	0.49	0.08	0.55	0.07	1.1	2.4	1.8	3	3.3	2.8
11-BCQ-0191	Rock	4.90	25.3	8.72	2.25	12.84	1.97	10.62	2.03	5.13	0.61	3.02	0.38	0.2	2.8	8.6	1	0.6	1.3
11-BCQ-0242	Rock	3.28	13.2	2.13	0.40	1.64	0.23	1.33	0.25	0.65	0.10	0.60	0.10	0.6	5.8	3.0	4	7.2	4.6
11-BCQ-0213	Rock	0.16	0.7	0.15	0.05	0.21	0.03	0.14	0.05	0.09	0.02	0.11	0.02	1.5	0.5	1.4	43	2.2	0.9
11-BCQ-0246	Rock	1.70	6.8	1.16	0.28	1.08	0.15	0.87	0.14	0.45	0.07	0.50	0.08	0.1	2.2	1.5	2	3.5	2.1
11-BCQ-0197	Rock	1.61	6.4	0.75	0.13	0.44	0.08	0.60	0.13	0.30	0.06	0.39	0.06	0.3	13.7	2.4	2	0.5	5.1
11-MGB-432	Rock	6.96	29.6	3.67	0.61	2.99	0.48	3.37	0.75	2.30	0.37	2.30	0.37	0.2	1.1	0.8	5	1.9	<0.5
11-MGB-439	Rock	0.35	1.5	0.33	0.12	0.32	0.05	0.27	0.04	0.09	0.02	0.10	0.02	0.1	43.1	2.3	66	3.1	0.6
11-MGB-427	Rock	5.98	24.6	5.08	1.36	5.13	0.86	4.58	0.88	2.22	0.35	2.10	0.30	0.2	2.0	1.9	5	8.8	4.1
11-MGB-441	Rock	11.18	42.0	8.31	1.56	8.51	1.43	8.38	1.66	4.69	0.67	4.23	0.63	0.3	1.6	6.9	31	40.5	1.0



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Report Date: October 14, 2011

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CERTIFICATE OF ANALYSIS

VAN11004019.1

	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-MGB-349	Rock	0.2	<0.1	1.9	<0.01	0.4	<0.5
11-MGB-350	Rock	0.3	0.4	0.7	0.01	0.7	<0.5
11-MGB-368	Rock	<0.1	<0.1	1.2	<0.01	<0.1	<0.5
11-MGB-424	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-417	Rock	<0.1	<0.1	1.8	<0.01	<0.1	<0.5
11-MGB-419	Rock	<0.1	<0.1	0.8	<0.01	<0.1	<0.5
11-MGB-418	Rock	<0.1	<0.1	1.4	0.04	<0.1	<0.5
11-MGB-431	Rock	<0.1	<0.1	1.4	<0.01	<0.1	<0.5
11-MGB-436	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-435	Rock	0.4	<0.1	2.3	<0.01	<0.1	<0.5
11-MGB-437	Rock	<0.1	<0.1	1.5	<0.01	<0.1	<0.5
11-MGB-438	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-136	Rock	<0.1	<0.1	0.9	<0.01	<0.1	<0.5
11-AAB-0390	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0222	Rock	<0.1	<0.1	0.7	<0.01	<0.1	<0.5
11-BCQ-0191	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0242	Rock	<0.1	<0.1	0.7	<0.01	<0.1	<0.5
11-BCQ-0213	Rock	<0.1	<0.1	<0.5	0.02	<0.1	<0.5
11-BCQ-0246	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0197	Rock	<0.1	<0.1	0.7	<0.01	<0.1	0.6
11-MGB-432	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-439	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-427	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-441	Rock	0.7	<0.1	1.2	<0.01	<0.1	<0.5



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Part 1

QUALITY CONTROL REPORT

VAN11004019.1

	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 11-MGB-438	QC		78	<1	1.4	0.1	<0.5	0.1	0.4	2.7	<1	10.9	<0.1	<0.2	0.7	20	1.9	4.3	0.9	2.3	3.5
11-J2-136	Rock	1.70	83	<1	0.7	0.2	2.3	3.5	2.6	4.4	<1	53.1	0.1	1.4	0.4	30	<0.5	127.7	3.2	6.9	13.2
REP 11-J2-136	QC																				
Core Reject Duplicates																					
11-MGB-438	Rock	0.57	94	<1	1.3	<0.1	<0.5	<0.1	0.5	2.4	<1	10.3	<0.1	<0.2	0.6	20	1.4	5.0	0.8	2.1	3.5
DUP 11-MGB-438	QC		363	<1	1.7	<0.1	1.7	0.2	0.4	2.3	<1	16.0	<0.1	<0.2	0.7	38	1.6	4.9	0.8	2.0	3.3
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD SO-18	Standard		533	<1	27.3	7.2	17.5	9.5	20.7	28.7	16	418.4	7.5	10.4	16.5	196	14.7	292.2	31.2	12.2	27.4
STD SO-18	Standard		535	<1	27.5	7.1	17.4	9.8	20.7	28.3	15	416.5	7.5	10.4	16.4	199	15.2	291.4	30.9	12.0	26.7
STD SO-18	Standard		559	<1	28.9	7.5	17.9	10.1	22.6	29.5	16	431.9	7.3	10.3	16.8	204	13.6	309.9	31.4	13.5	28.8
STD SO-18	Standard		542	<1	27.4	7.3	17.5	9.7	21.2	28.4	15	423.8	7.5	10.1	16.2	200	13.9	300.3	32.1	12.6	27.9
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																				
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
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	1067	2	4.2	4.0	17.5	4.6	22.9	129.1	1	794.3	1.4	9.6	3.7	45	<0.5	147.8	15.6	35.3	67.4
G1	Prep Blank	<0.01	1254	5	5.0	4.7	19.6	4.6	25.8	139.7	2	855.5	1.7	8.4	3.6	50	<0.5	159.0	17.2	31.6	62.9



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Part 2

QUALITY CONTROL REPORT

VAN11004019.1

	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 11-MGB-438	QC	0.52	1.9	0.36	0.08	0.35	0.03	0.18	0.04	0.07	<0.01	0.11	0.01								
11-J2-136	Rock	1.57	6.8	0.93	0.20	0.78	0.11	0.58	0.10	0.34	0.06	0.48	0.07	0.2	1.2	0.6	2	1.2	2.2	<0.1	<0.1
REP 11-J2-136	QC													0.3	1.2	0.6	2	1.1	2.1	<0.1	<0.1
Core Reject Duplicates																					
11-MGB-438	Rock	0.50	2.2	0.33	0.07	0.33	0.03	0.14	0.02	0.04	<0.01	<0.05	0.01	0.1	18.0	8.5	26	2.2	0.8	0.1	0.4
DUP 11-MGB-438	QC	0.50	2.6	0.34	0.09	0.32	0.03	0.22	0.03	0.04	0.01	0.06	0.01	<0.1	19.9	9.2	29	2.5	1.1	0.1	0.4
Reference Materials																					
STD DS8	Standard													9.6	109.9	115.5	307	38.9	25.6	2.3	3.1
STD DS8	Standard													13.2	110.2	124.8	313	38.8	23.7	2.2	4.1
STD OREAS45CA	Standard													0.7	502.6	19.5	61	245.4	2.7	0.1	<0.1
STD OREAS45CA	Standard													0.8	505.8	19.8	56	243.1	3.4	<0.1	<0.1
STD SO-18	Standard	3.37	14.2	2.93	0.89	2.94	0.49	3.06	0.62	1.84	0.28	1.79	0.27								
STD SO-18	Standard	3.31	13.9	2.99	0.86	2.92	0.49	3.00	0.60	1.72	0.27	1.77	0.27								
STD SO-18	Standard	3.57	14.0	2.93	0.90	3.15	0.50	3.06	0.61	1.86	0.28	1.72	0.26								
STD SO-18	Standard	3.50	14.4	3.02	0.90	3.00	0.49	2.95	0.59	1.90	0.28	1.83	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
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													<0.1	<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
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								
Prep Wash																					
G1	Prep Blank	7.44	26.5	4.43	1.12	3.41	0.48	2.67	0.52	1.54	0.25	1.58	0.28	0.4	2.2	2.9	44	2.3	<0.5	<0.1	<0.1
G1	Prep Blank	7.33	26.9	4.72	1.21	3.64	0.52	3.13	0.61	1.51	0.30	1.99	0.31	0.3	2.3	3.3	45	2.8	<0.5	<0.1	<0.1



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QUALITY CONTROL REPORT

VAN11004019.1

	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
Pulp Duplicates							
REP 11-MGB-438	QC						
11-J2-136	Rock	<0.1	<0.1	0.9	<0.01	<0.1	<0.5
REP 11-J2-136	QC	<0.1	<0.1	0.6	0.01	<0.1	<0.5
Core Reject Duplicates							
11-MGB-438	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
DUP 11-MGB-438	QC	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
Reference Materials							
STD DS8	Standard	6.0	1.5	111.3	0.16	5.1	5.7
STD DS8	Standard	6.2	1.7	123.9	0.21	5.5	5.0
STD OREAS45CA	Standard	0.2	0.3	37.0	0.04	<0.1	<0.5
STD OREAS45CA	Standard	0.2	0.2	34.8	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	<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
BLK	Blank						
BLK	Blank						
Prep Wash							
G1	Prep Blank	<0.1	<0.1	<0.5	<0.01	0.3	<0.5
G1	Prep Blank	<0.1	<0.1	1.2	<0.01	0.3	<0.5



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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: August 17, 2011

Report Date: November 10, 2011

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CERTIFICATE OF ANALYSIS

VAN11004020.1

CLIENT JOB INFORMATION

Project: TING 2A
Shipment ID: 11545800604
P.O. Number
Number of Samples: 195

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
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	195	Dry at 60C			VAN
SS80	195	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	195	Saving all or part of Soil Reject			VAN
4B02	195	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

VAN11004020.1

	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-MGB-364	Soil				490	<1	6.8	10.6	15.2	4.7	14.1	130.5	<1	101.6	0.8	8.6	2.6	118	11.9	188.0	13.0	18.0	49.0	3.93
11-MGB-343	Soil				624	<1	3.8	10.6	12.9	6.2	11.4	151.2	<1	63.2	0.8	9.3	3.0	108	18.8	221.6	32.8	44.2	45.6	9.66
11-MGB-347	Soil				729	2	1.7	11.8	15.0	7.3	15.7	172.2	<1	78.7	1.0	7.7	2.5	124	7.7	259.2	16.2	27.2	54.1	5.85
11-MGB-342	Soil				775	<1	5.3	17.5	14.7	6.4	16.3	203.0	<1	91.5	1.1	9.9	2.7	126	6.6	247.7	18.9	29.8	56.9	6.39
11-MGB-341	Soil				770	<1	5.6	33.4	19.7	4.7	12.8	341.7	<1	43.2	0.8	9.2	3.1	125	26.1	180.7	9.4	25.4	47.4	4.40
11-MGB-348	Soil				698	4	4.4	15.1	14.7	7.3	13.1	187.6	<1	70.1	0.9	8.6	2.8	124	6.3	258.4	16.3	25.0	48.7	5.51
11-MGB-344	Soil				687	1	6.9	12.0	13.0	6.8	13.2	154.8	<1	103.6	0.9	10.3	2.6	77	24.8	235.4	23.1	32.5	55.2	7.11
11-MGB-346	Soil				685	2	6.9	16.3	15.0	6.1	15.6	230.3	<1	75.0	1.1	10.7	3.1	99	20.3	230.4	13.6	30.7	57.8	5.63
11-MGB-345	Soil				672	<1	11.4	12.4	14.3	5.0	16.4	183.3	<1	85.7	1.1	11.4	2.8	80	15.0	206.0	23.6	33.6	59.3	7.30
11-MGB-339	Soil				563	<1	5.9	7.4	10.7	5.7	10.8	123.8	<1	96.9	0.7	8.3	2.4	76	16.7	206.6	20.2	27.9	50.2	6.13
11-MGB-340	Soil				658	3	5.9	12.8	13.6	6.1	12.9	202.1	<1	88.0	0.9	9.3	3.0	89	15.5	245.9	17.1	25.7	50.5	5.84
11-MGB-334	Soil				624	<1	8.6	11.5	13.7	7.9	14.0	147.7	<1	115.4	1.0	9.1	2.9	91	19.5	283.1	23.4	33.5	63.0	7.64
11-MGB-335	Soil				570	<1	5.8	7.2	11.1	6.5	10.8	121.6	<1	97.9	0.6	8.5	3.7	75	12.9	224.9	18.2	26.0	51.8	6.02
11-MGB-338	Soil				412	<1	4.3	4.7	6.8	4.9	10.7	74.0	<1	87.5	0.8	6.5	2.1	63	5.4	186.1	17.1	21.6	44.4	4.90
11-MGB-337	Soil				496	2	6.4	11.6	11.1	6.0	10.3	129.7	<1	73.4	0.9	9.1	2.6	71	11.6	222.8	13.4	22.1	58.6	4.97
11-MGB-336	Soil				684	<1	10.1	8.2	11.8	6.3	12.9	152.4	<1	95.3	1.0	9.6	2.8	78	22.5	220.8	22.1	35.1	69.0	8.16
11-MGB-333	Soil				633	3	6.0	21.3	13.2	6.4	14.2	140.0	<1	103.0	1.1	10.9	4.6	91	9.3	214.5	29.0	35.3	54.9	7.72
11-MGB-363	Soil				667	<1	5.3	11.1	14.5	7.1	15.1	125.6	<1	103.6	1.1	8.7	2.4	109	4.6	241.0	16.8	26.7	53.2	5.99
11-MGB-362	Soil				739	<1	6.7	10.3	15.2	7.5	16.6	128.4	<1	108.2	1.2	9.1	2.9	110	3.9	273.3	19.3	29.9	57.8	6.50
11-MGB-361	Soil				615	<1	4.7	11.4	13.2	6.4	13.5	133.0	<1	123.9	1.2	9.2	2.6	86	6.7	229.8	19.3	28.8	52.3	6.39
11-MGB-360	Soil				605	2	6.6	12.0	13.6	6.4	13.8	156.0	<1	106.3	1.0	9.9	3.8	85	56.7	232.0	23.1	31.8	56.6	7.21
11-MGB-359	Soil				556	6	7.7	13.2	13.9	5.8	14.1	126.8	<1	120.4	0.9	8.6	3.6	93	56.3	207.2	21.6	27.2	53.1	6.08
11-MGB-358	Soil				515	4	7.2	5.3	9.8	6.2	11.4	87.2	<1	100.2	0.8	8.4	2.3	61	46.7	241.0	19.8	30.0	60.2	6.59
11-MGB-357	Soil				648	7	6.0	9.9	12.4	6.2	13.5	129.7	<1	101.3	0.9	9.2	2.7	81	8.3	212.3	19.3	27.3	51.1	6.20
11-MGB-356	Soil				510	2	6.0	10.3	12.8	6.1	12.1	123.9	<1	83.7	1.0	10.6	3.0	72	14.4	235.3	23.7	32.6	50.4	7.39
11-MGB-355	Soil				618	<1	6.9	6.3	11.3	6.4	13.6	89.0	<1	95.2	0.9	10.1	3.8	76	6.8	247.2	22.0	30.1	58.7	6.94
11-J2-023	Soil				609	<1	6.7	13.9	16.1	5.4	13.7	164.8	<1	151.6	1.0	8.2	2.6	86	13.2	193.4	13.5	24.1	51.2	5.08
11-J2-024	Soil				619	2	8.8	10.5	12.4	5.5	13.2	127.6	<1	108.5	1.1	9.5	3.3	68	18.0	186.2	23.4	32.3	60.8	7.14
11-J2-021	Soil				699	3	5.6	10.6	14.1	6.9	14.3	140.6	<1	104.2	1.1	9.5	3.1	88	8.7	250.3	22.5	32.0	60.4	7.32
11-J2-025	Soil				561	4	7.9	15.7	13.4	4.4	13.3	168.2	<1	107.9	0.8	9.1	4.1	80	19.9	155.5	18.2	24.1	48.1	5.52



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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-364	Soil	13.7	2.67	0.63	2.16	0.37	1.98	0.43	1.18	0.18	1.41	0.19	15.7	25.4	125.4	447	12.2	16.8	1.7	0.6
11-MGB-343	Soil	36.8	6.46	1.55	5.53	0.88	4.94	0.92	2.58	0.39	2.53	0.39	14.3	47.9	118.8	315	10.8	25.7	0.5	0.7
11-MGB-347	Soil	21.8	3.38	0.60	2.44	0.43	2.38	0.54	1.57	0.25	1.57	0.28	15.0	16.6	74.8	68	6.2	13.4	<0.1	0.4
11-MGB-342	Soil	22.3	3.70	0.77	3.06	0.49	3.14	0.63	1.70	0.30	1.80	0.26	15.0	18.5	53.2	159	9.4	12.3	0.3	0.4
11-MGB-341	Soil	15.7	2.13	0.46	1.66	0.27	1.56	0.32	1.00	0.15	0.99	0.19	65.3	74.6	319.1	320	7.5	38.1	0.7	0.6
11-MGB-348	Soil	19.9	3.24	0.63	2.58	0.45	2.71	0.53	1.60	0.24	1.60	0.25	11.6	23.3	20.3	184	14.8	10.4	0.4	0.5
11-MGB-344	Soil	28.5	4.84	1.01	3.93	0.61	3.62	0.72	2.01	0.29	2.14	0.32	6.6	51.4	191.3	330	9.3	49.4	1.0	1.7
11-MGB-346	Soil	19.2	3.32	0.67	2.56	0.44	2.25	0.45	1.40	0.22	1.40	0.23	45.5	54.1	177.4	308	9.8	36.4	0.4	0.9
11-MGB-345	Soil	27.8	4.36	1.01	3.71	0.63	3.54	0.67	2.09	0.31	2.22	0.32	14.8	76.4	410.1	571	10.9	47.5	1.4	1.8
11-MGB-339	Soil	24.1	4.10	0.94	3.42	0.56	3.06	0.62	1.76	0.28	1.86	0.25	7.4	29.8	146.0	269	11.8	22.4	1.0	1.2
11-MGB-340	Soil	22.9	3.61	0.80	3.40	0.49	2.80	0.54	1.37	0.25	1.71	0.25	22.4	31.7	165.4	346	9.4	22.9	1.1	0.8
11-MGB-334	Soil	28.2	5.00	1.09	4.36	0.66	3.55	0.75	2.26	0.30	2.12	0.31	22.6	34.5	150.0	309	12.1	20.6	1.0	0.8
11-MGB-335	Soil	23.5	3.77	0.85	3.25	0.53	2.76	0.60	1.83	0.25	1.78	0.24	14.8	30.7	135.5	264	10.7	17.7	0.8	1.0
11-MGB-338	Soil	18.5	3.49	0.70	2.92	0.48	2.55	0.55	1.44	0.24	1.40	0.21	12.9	20.3	98.1	139	9.8	15.3	0.5	1.0
11-MGB-337	Soil	18.9	3.24	0.71	2.54	0.43	2.36	0.38	1.31	0.18	1.26	0.20	26.2	39.2	237.6	327	11.8	28.0	0.9	1.1
11-MGB-336	Soil	30.9	5.40	1.25	4.78	0.76	4.02	0.83	2.27	0.34	1.90	0.31	37.1	65.9	514.9	411	15.0	49.6	1.4	2.2
11-MGB-333	Soil	31.2	5.06	1.18	4.52	0.75	3.84	0.90	2.39	0.36	2.16	0.35	21.6	60.5	144.9	403	14.1	17.0	1.1	0.7
11-MGB-363	Soil	21.4	3.54	0.62	2.78	0.45	2.56	0.53	1.72	0.24	1.74	0.25	8.2	11.3	58.7	136	10.1	9.3	0.1	0.4
11-MGB-362	Soil	22.7	3.85	0.76	3.10	0.51	2.93	0.59	1.87	0.28	1.84	0.28	8.2	12.2	40.6	136	12.0	8.9	0.2	0.3
11-MGB-361	Soil	23.8	4.18	0.90	3.66	0.56	3.13	0.59	1.88	0.26	1.90	0.29	5.9	22.9	73.7	179	8.6	8.3	0.4	0.4
11-MGB-360	Soil	25.2	4.82	1.00	4.14	0.68	3.37	0.73	2.06	0.33	2.11	0.30	19.3	54.4	165.8	280	10.7	15.8	0.7	0.7
11-MGB-359	Soil	23.5	4.18	0.95	3.58	0.61	3.47	0.61	1.85	0.28	1.87	0.28	12.6	34.1	131.8	259	11.0	11.1	1.0	0.5
11-MGB-358	Soil	25.4	4.18	0.92	3.57	0.58	2.97	0.57	1.83	0.25	1.80	0.24	6.6	39.2	329.9	409	10.0	22.3	1.3	1.2
11-MGB-357	Soil	25.4	4.00	0.93	3.58	0.59	2.71	0.59	1.93	0.28	1.97	0.31	8.4	28.9	130.8	305	12.8	14.3	0.9	0.7
11-MGB-356	Soil	30.5	5.26	1.10	4.15	0.68	3.65	0.72	1.95	0.33	1.88	0.27	9.4	80.9	317.7	1303	12.6	23.2	4.1	0.9
11-MGB-355	Soil	30.0	4.61	1.01	4.06	0.64	3.20	0.72	2.25	0.30	2.03	0.30	3.6	35.5	103.9	345	14.3	14.1	1.6	0.6
11-J2-023	Soil	17.5	3.11	0.63	2.33	0.40	2.34	0.45	1.29	0.21	1.27	0.20	24.6	36.3	134.0	244	8.9	16.3	0.5	0.5
11-J2-024	Soil	27.3	4.70	1.10	4.31	0.66	3.64	0.72	1.97	0.31	2.22	0.30	30.4	53.6	300.5	409	12.2	28.9	1.3	1.2
11-J2-021	Soil	29.2	4.68	0.88	3.92	0.60	3.43	0.69	1.87	0.29	1.95	0.32	10.9	49.4	108.8	242	10.5	14.5	0.7	0.6
11-J2-025	Soil	21.7	3.75	0.77	3.13	0.52	2.70	0.60	1.58	0.25	1.97	0.23	22.5	42.6	142.1	263	10.4	17.0	0.6	0.8



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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-364	Soil	0.3	1.9	0.03	0.4	<0.5
11-MGB-343	Soil	1.9	4.3	0.08	0.7	0.6
11-MGB-347	Soil	1.1	5.8	0.02	1.8	<0.5
11-MGB-342	Soil	0.3	1.4	0.02	0.5	<0.5
11-MGB-341	Soil	0.5	4.2	0.04	0.9	<0.5
11-MGB-348	Soil	0.1	0.9	0.02	0.5	<0.5
11-MGB-344	Soil	0.7	8.2	0.05	1.6	<0.5
11-MGB-346	Soil	0.2	3.0	0.03	1.1	<0.5
11-MGB-345	Soil	0.5	4.8	0.05	1.5	<0.5
11-MGB-339	Soil	0.5	3.4	0.04	0.6	<0.5
11-MGB-340	Soil	0.6	5.0	0.05	0.6	0.6
11-MGB-334	Soil	0.6	2.7	0.03	0.5	<0.5
11-MGB-335	Soil	0.6	5.7	0.05	0.5	0.7
11-MGB-338	Soil	0.3	1.9	0.03	0.3	<0.5
11-MGB-337	Soil	0.5	4.9	0.03	0.6	<0.5
11-MGB-336	Soil	0.6	5.8	0.03	1.5	<0.5
11-MGB-333	Soil	0.9	2.5	0.06	0.4	<0.5
11-MGB-363	Soil	0.2	1.7	0.01	0.3	<0.5
11-MGB-362	Soil	0.1	0.7	<0.01	0.3	<0.5
11-MGB-361	Soil	0.5	0.9	0.03	0.3	<0.5
11-MGB-360	Soil	0.8	2.2	0.04	0.5	0.6
11-MGB-359	Soil	0.5	2.1	0.04	0.4	<0.5
11-MGB-358	Soil	0.6	2.5	0.03	0.5	<0.5
11-MGB-357	Soil	0.8	2.2	0.05	0.4	<0.5
11-MGB-356	Soil	1.5	6.9	0.06	0.5	0.5
11-MGB-355	Soil	0.6	4.2	0.05	0.3	0.6
11-J2-023	Soil	0.6	0.5	0.02	0.5	<0.5
11-J2-024	Soil	0.8	4.3	0.03	0.6	0.6
11-J2-021	Soil	0.8	2.0	0.04	0.4	<0.5
11-J2-025	Soil	0.8	2.2	0.04	0.4	<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-J2-022	Soil	687	4	8.3	9.1	13.3	7.1	14.3	152.5	<1	102.3	1.1	11.0	3.4	88	16.9	261.4	19.1	28.9
11-J2-020	Soil	678	4	6.4	16.8	17.1	6.5	16.6	154.4	<1	107.3	1.2	8.3	2.6	98	15.3	241.5	15.2	24.8
11-J2-019	Soil	229	3	7.0	4.0	7.4	7.3	7.2	33.0	<1	28.0	0.6	8.6	2.5	32	2.0	261.3	9.7	27.0
11-J2-018	Soil	690	<1	5.9	12.0	14.7	5.2	10.8	167.4	<1	219.1	0.8	7.6	3.1	65	6.3	183.5	14.8	25.1
11-J2-017	Soil	584	8	9.8	10.5	11.5	6.2	13.5	146.7	<1	109.3	0.8	9.1	3.0	56	21.9	231.4	19.6	28.8
11-J2-015	Soil	543	3	5.9	11.0	11.1	5.3	9.6	133.1	<1	116.6	0.6	7.7	3.0	53	11.4	187.7	17.7	22.2
11-J2-016	Soil	783	3	6.1	22.7	17.8	5.0	13.1	255.4	3	81.2	0.9	7.5	2.7	106	27.1	181.6	12.8	23.1
11-J2-012	Soil	567	3	4.9	8.3	12.7	5.7	20.6	116.0	2	70.2	1.4	8.6	2.7	95	6.3	261.8	15.1	24.9
11-J2-013	Soil	710	4	5.8	15.4	14.9	5.4	15.7	182.0	2	83.0	1.1	9.1	2.6	98	19.1	224.4	12.1	22.9
11-J2-014	Soil	1364	2	4.4	27.3	15.7	6.3	15.0	219.0	2	98.8	1.2	9.5	2.8	106	6.8	257.5	19.4	35.2
11-J2-010	Soil	750	2	8.5	5.5	12.0	6.3	14.3	97.8	2	111.4	1.0	10.9	3.1	99	4.1	252.8	23.0	37.3
11-J2-011	Soil	716	2	7.0	9.0	12.2	6.3	14.3	137.2	2	85.9	1.0	10.1	2.8	90	11.5	256.3	23.3	34.2
11-J2-009	Soil	555	2	5.9	7.2	10.9	5.7	11.9	102.5	2	94.9	0.8	8.6	2.8	79	9.4	212.4	20.8	33.2
11-J2-008	Soil	539	2	5.7	8.9	12.3	5.6	12.1	148.8	2	82.3	0.9	9.1	2.6	75	52.4	242.7	23.1	32.4
11-J2-007	Soil	706	4	5.5	8.1	12.9	6.5	15.0	122.8	2	98.3	1.1	9.1	3.0	99	7.6	262.1	20.0	32.0
11-J2-005	Soil	595	<1	6.6	22.2	17.4	5.5	11.3	227.5	2	72.1	0.8	6.7	2.5	100	17.1	239.7	9.5	15.9
11-J2-006	Soil	757	3	6.5	12.0	14.8	6.8	15.3	170.8	27	90.3	1.2	9.2	3.2	107	13.9	278.2	17.3	31.0
11-J2-003	Soil	556	4	6.7	11.3	13.5	5.7	11.5	150.5	1	87.2	0.8	9.7	3.1	84	11.5	225.1	20.1	32.5
11-J2-004	Soil	662	2	7.7	12.8	13.0	5.3	14.3	161.0	2	105.6	0.9	9.6	7.8	89	11.3	240.5	20.2	32.9
11-J2-001	Soil	615	1	6.8	10.9	13.7	5.5	12.4	140.4	2	114.2	0.8	7.6	2.6	93	8.6	226.2	15.6	26.6
11-J2-002	Soil	580	3	9.5	13.1	11.4	5.4	11.6	140.5	1	105.7	0.7	8.3	3.4	76	10.8	225.0	24.3	31.7
11-MGB-354	Soil	568	<1	7.1	7.0	11.1	5.7	12.3	97.3	1	96.7	0.9	8.8	2.8	75	33.0	259.5	22.2	30.5
11-MGB-383	Soil	396	2	5.0	3.3	9.8	7.2	13.0	64.1	1	44.3	0.9	9.4	2.9	55	2.5	301.4	16.1	31.0
11-MGB-385	Soil	436	2	4.5	3.2	9.8	7.2	13.7	59.7	1	63.9	0.9	9.1	2.8	62	1.8	289.6	19.6	34.0
11-MGB-387	Soil	354	2	6.3	3.7	8.9	6.4	12.1	60.2	1	31.6	0.8	10.3	2.7	48	2.1	298.5	20.9	35.1
11-MGB-386	Soil	467	1	5.7	3.2	10.4	7.2	13.6	69.1	1	56.2	0.9	10.1	2.9	66	2.0	308.7	21.4	34.8
11-MGB-379	Soil	227	<1	4.1	1.7	5.1	6.2	13.8	35.1	<1	61.6	0.8	7.0	2.5	38	1.5	262.1	17.2	27.9
11-MGB-390	Soil	723	4	6.0	3.7	12.4	6.7	15.7	79.6	2	94.5	0.9	9.6	3.0	93	1.5	298.0	20.9	33.0
11-MGB-378	Soil	508	<1	5.5	3.1	9.8	7.2	15.1	65.0	1	69.9	1.0	10.1	2.7	69	1.6	310.9	20.4	36.2
11-MGB-382	Soil	312	3	5.2	4.0	7.5	6.5	16.6	59.4	<1	49.5	1.0	8.4	2.8	42	1.6	285.8	15.2	27.9



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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-J2-022	Soil	27.2	3.99	0.80	3.20	0.52	2.92	0.58	1.84	0.27	1.87	0.31	16.4	31.1	152.2	213	16.2	24.4	0.4
11-J2-020	Soil	17.6	3.13	0.64	2.44	0.44	2.33	0.50	1.43	0.22	1.63	0.26	17.7	17.2	55.2	174	9.4	11.4	0.4
11-J2-019	Soil	21.0	2.70	0.64	1.96	0.29	1.32	0.29	0.88	0.13	0.94	0.13	3.0	24.3	50.8	505	15.0	7.3	1.1
11-J2-018	Soil	20.5	3.19	0.66	2.42	0.39	2.16	0.44	1.30	0.21	1.33	0.20	14.0	30.6	67.0	141	7.3	5.9	1.7
11-J2-017	Soil	26.7	3.93	0.96	3.18	0.54	3.27	0.58	1.76	0.25	1.67	0.22	18.8	52.2	274.5	478	10.8	43.0	1.6
11-J2-015	Soil	21.4	3.72	0.84	3.10	0.48	2.84	0.58	1.54	0.24	1.47	0.23	6.5	34.7	128.7	254	8.5	25.1	0.8
11-J2-016	Soil	17.3	2.72	0.66	2.31	0.37	1.94	0.44	1.28	0.21	1.40	0.22	41.2	54.7	73.1	179	5.8	14.1	0.5
11-J2-012	Soil	19.6	3.45	0.68	2.68	0.44	2.53	0.50	1.63	0.25	1.70	0.27	9.3	16.3	71.8	258	14.0	12.7	0.6
11-J2-013	Soil	17.1	2.78	0.61	2.26	0.36	1.90	0.42	1.25	0.21	1.52	0.22	13.0	31.2	139.8	371	10.6	28.3	0.4
11-J2-014	Soil	27.6	4.41	0.94	3.69	0.56	3.13	0.71	1.96	0.32	2.08	0.32	11.1	19.5	14.1	101	9.9	8.6	0.2
11-J2-010	Soil	30.7	4.95	0.99	4.31	0.66	3.80	0.79	2.15	0.34	2.14	0.36	2.9	19.4	47.1	201	17.9	12.8	1.0
11-J2-011	Soil	27.2	5.02	1.10	4.19	0.67	3.59	0.77	2.29	0.36	2.47	0.34	12.1	28.7	101.9	214	15.6	21.8	0.6
11-J2-009	Soil	26.3	4.59	1.02	4.21	0.62	3.37	0.68	1.88	0.30	1.96	0.28	2.1	20.5	112.3	228	12.4	19.2	0.8
11-J2-008	Soil	26.5	4.78	1.16	4.42	0.64	3.42	0.77	2.16	0.33	2.20	0.33	5.2	31.4	124.4	289	12.4	31.9	0.3
11-J2-007	Soil	25.3	4.16	0.89	3.59	0.54	3.44	0.62	1.91	0.28	2.09	0.29	11.6	19.0	87.7	216	12.1	16.4	0.4
11-J2-005	Soil	12.9	1.96	0.45	1.50	0.26	1.48	0.32	1.00	0.16	1.20	0.17	23.5	26.1	133.0	169	8.5	24.4	0.3
11-J2-006	Soil	24.0	4.03	0.82	3.16	0.52	3.03	0.60	1.70	0.27	1.94	0.28	29.4	39.3	266.2	237	10.4	26.9	0.7
11-J2-003	Soil	26.5	4.63	1.04	3.96	0.64	3.22	0.66	1.81	0.27	1.92	0.27	10.2	35.2	134.0	298	13.0	22.8	0.8
11-J2-004	Soil	25.4	4.44	0.98	3.66	0.58	3.20	0.65	1.86	0.32	2.16	0.29	36.2	56.4	193.6	212	12.4	20.1	0.8
11-J2-001	Soil	20.1	3.48	0.67	2.72	0.44	2.11	0.46	1.32	0.22	1.57	0.24	15.7	23.6	95.0	222	11.7	16.0	0.5
11-J2-002	Soil	25.8	4.79	1.06	4.05	0.60	3.42	0.69	2.03	0.30	2.16	0.30	27.1	85.3	196.9	251	9.8	25.4	1.0
11-MGB-354	Soil	24.5	4.49	0.94	3.73	0.58	3.37	0.69	2.01	0.31	2.05	0.26	5.0	22.3	123.8	353	13.9	19.3	1.2
11-MGB-383	Soil	24.2	4.32	0.85	3.50	0.52	2.61	0.51	1.57	0.24	1.60	0.24	0.7	6.4	17.4	85	11.8	16.1	0.3
11-MGB-385	Soil	26.5	4.78	0.89	3.66	0.57	3.16	0.61	1.68	0.27	1.85	0.27	0.5	7.5	21.7	104	11.5	13.6	0.5
11-MGB-387	Soil	29.4	5.55	1.12	4.47	0.66	3.84	0.73	1.93	0.30	1.95	0.26	0.7	8.1	24.4	107	16.8	26.9	0.7
11-MGB-386	Soil	30.0	5.30	1.05	4.32	0.65	3.73	0.70	1.90	0.30	1.77	0.28	0.6	7.3	22.7	92	14.7	18.7	0.3
11-MGB-379	Soil	21.4	3.75	0.72	3.14	0.47	2.70	0.54	1.59	0.24	1.48	0.23	0.6	4.2	13.8	41	6.9	8.0	0.2
11-MGB-390	Soil	26.1	4.95	0.93	4.04	0.61	3.56	0.69	1.91	0.33	2.02	0.33	0.5	7.0	12.8	123	14.1	13.1	0.4
11-MGB-378	Soil	29.7	5.01	0.95	3.86	0.59	3.02	0.69	1.79	0.31	2.02	0.28	0.7	7.5	17.7	105	12.7	11.3	0.5
11-MGB-382	Soil	21.3	3.71	0.73	3.10	0.46	2.46	0.52	1.41	0.21	1.35	0.21	0.8	7.5	17.9	67	11.8	15.8	0.3



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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-J2-022	Soil	0.3	1.0	0.03	0.6	<0.5
11-J2-020	Soil	0.3	<0.5	0.01	0.5	<0.5
11-J2-019	Soil	2.4	2.5	0.08	0.3	<0.5
11-J2-018	Soil	0.2	0.6	0.05	0.4	<0.5
11-J2-017	Soil	0.6	5.0	0.03	1.2	<0.5
11-J2-015	Soil	0.5	2.1	0.04	0.7	<0.5
11-J2-016	Soil	0.5	3.9	0.03	0.7	<0.5
11-J2-012	Soil	0.2	2.4	0.01	0.4	<0.5
11-J2-013	Soil	0.3	7.5	0.02	1.7	<0.5
11-J2-014	Soil	0.2	2.3	0.04	0.4	<0.5
11-J2-010	Soil	0.7	3.1	0.04	0.3	<0.5
11-J2-011	Soil	0.7	3.6	0.04	0.6	<0.5
11-J2-009	Soil	0.8	2.7	0.05	0.5	<0.5
11-J2-008	Soil	0.5	3.7	0.05	0.7	<0.5
11-J2-007	Soil	0.4	1.2	0.02	0.5	<0.5
11-J2-005	Soil	0.5	2.3	0.02	0.7	<0.5
11-J2-006	Soil	0.9	2.5	0.04	1.5	<0.5
11-J2-003	Soil	1.0	1.1	0.04	0.6	<0.5
11-J2-004	Soil	0.9	2.9	0.06	0.7	0.5
11-J2-001	Soil	0.7	1.3	0.03	0.5	<0.5
11-J2-002	Soil	0.9	4.2	0.06	0.6	0.9
11-MGB-354	Soil	0.5	5.2	0.03	0.3	<0.5
11-MGB-383	Soil	0.2	0.6	0.04	0.7	<0.5
11-MGB-385	Soil	0.3	1.4	0.03	0.5	<0.5
11-MGB-387	Soil	0.4	<0.5	0.03	1.0	<0.5
11-MGB-386	Soil	0.2	2.0	0.03	0.6	<0.5
11-MGB-379	Soil	0.1	1.4	0.02	0.3	<0.5
11-MGB-390	Soil	0.1	1.4	0.02	0.5	<0.5
11-MGB-378	Soil	0.1	2.1	0.07	0.3	<0.5
11-MGB-382	Soil	0.2	1.5	0.03	0.6	<0.5



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	Method Analyte Unit MDL	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
11-MGB-384	Soil	338	3	4.2	3.5	8.5	6.6	11.5	59.2	<1	41.6	0.8	8.7	3.0	48	2.2	299.1	17.9	33.9	65.7	7.57
11-MGB-400	Soil	599	3	26.4	6.1	15.1	5.2	24.9	66.7	1	85.1	1.4	6.2	1.8	188	3.9	237.8	18.8	26.7	69.7	6.42
11-MGB-397	Soil	415	3	25.6	5.2	14.1	5.2	22.5	58.8	1	96.9	1.3	6.1	1.9	196	2.2	239.7	24.4	30.5	62.1	7.36
11-MGB-392	Soil	528	2	6.4	3.8	10.5	7.1	13.9	69.8	1	68.8	0.9	10.2	2.8	81	1.6	315.9	24.2	38.7	70.9	8.58
11-MGB-394	Soil	575	3	6.2	4.6	11.4	7.1	15.3	80.8	2	72.6	1.0	9.0	3.0	86	1.8	306.7	18.3	28.2	54.6	6.40
11-MGB-395	Soil	534	2	15.2	3.9	12.9	6.7	19.3	72.7	1	81.3	1.2	8.1	2.5	135	3.6	265.8	17.2	29.7	64.9	6.44
11-MGB-399	Soil	489	<1	24.5	5.1	16.8	5.1	23.3	56.9	1	109.5	1.6	5.3	1.9	205	1.5	221.3	18.8	25.8	53.3	6.33
11-MGB-396	Soil	336	2	30.7	4.5	15.4	4.6	22.9	51.5	1	70.4	1.3	5.6	1.5	210	1.9	210.7	25.5	29.5	56.9	7.65
11-MGB-393	Soil	517	3	8.3	3.9	11.3	7.4	17.3	98.6	1	56.1	1.0	11.9	2.8	76	2.8	316.4	33.6	53.1	70.7	11.85
11-MGB-398	Soil	425	3	29.7	6.5	15.4	4.6	22.2	64.5	1	89.5	1.5	5.2	1.4	220	2.7	210.1	25.7	29.0	58.1	7.40
11-MGB-389	Soil	448	3	6.2	3.3	9.3	7.3	10.3	70.7	1	36.3	0.8	9.7	3.1	53	1.9	334.0	22.0	34.2	72.7	7.84
11-MGB-381	Soil	435	2	5.2	3.7	10.2	7.0	14.4	61.5	<1	56.7	1.0	9.9	2.8	64	1.4	316.1	17.0	29.2	61.1	6.52
11-MGB-391	Soil	693	1	8.1	5.4	12.6	7.8	15.2	96.0	2	68.4	1.0	11.3	3.1	75	2.0	311.7	22.9	34.2	72.1	8.01
11-MGB-388	Soil	462	<1	7.9	3.4	9.5	9.9	16.9	57.4	1	61.4	0.9	11.3	3.2	52	1.4	356.3	21.9	34.8	85.3	7.58
11-MGB-376	Soil	431	3	6.4	3.5	11.9	7.3	18.4	68.7	<1	52.2	1.1	11.5	3.1	55	2.2	281.6	17.3	28.0	77.1	6.65
11-MGB-380	Soil	619	<1	6.9	4.0	13.6	8.4	20.7	74.2	2	90.6	1.2	12.8	3.6	66	1.6	307.8	24.2	38.5	83.7	8.62
11-MGB-377	Soil	410	<1	7.1	3.2	9.2	5.5	15.7	55.9	1	66.2	0.8	9.4	3.0	37	1.9	233.0	22.6	40.2	76.8	9.12
11-MGB-375	Soil	704	<1	5.6	3.5	13.0	6.8	17.1	78.3	2	95.7	1.3	11.7	3.1	59	1.7	288.3	18.8	33.0	71.8	7.52
11-MGB-373	Soil	529	<1	6.6	2.8	9.4	6.9	17.4	60.4	2	75.2	1.1	11.2	2.8	29	1.4	259.9	25.7	35.7	72.3	8.19
11-MGB-369	Soil	334	<1	5.5	1.8	6.2	4.4	10.3	37.9	<1	76.5	0.6	7.4	1.9	<8	0.9	157.3	15.5	25.3	50.2	5.59
11-MGB-372	Soil	223	<1	3.9	1.4	4.2	5.8	11.8	27.6	<1	63.9	0.8	7.5	2.3	<8	0.8	226.9	15.9	24.5	49.7	5.56
11-MGB-371	Soil	403	<1	7.0	3.0	9.7	6.6	20.1	53.0	2	63.3	1.2	11.3	3.1	29	1.2	256.8	24.6	36.1	83.3	8.30
11-MGB-370	Soil	627	<1	9.4	4.5	12.8	5.5	18.8	69.9	3	82.7	1.3	12.4	3.1	56	3.1	217.9	20.5	34.8	79.6	7.95
11-MGB-366	Soil	416	<1	6.1	2.2	7.7	5.0	13.0	47.7	<1	68.7	0.9	8.1	2.3	<8	1.2	189.8	18.2	27.7	58.0	6.40
11-MGB-374	Soil	581	1	7.1	2.5	9.3	8.6	13.3	55.1	1	76.8	1.0	10.8	2.9	17	2.3	287.9	24.5	39.3	75.5	8.76
11-MGB-365	Soil	299	<1	4.7	1.7	6.0	4.2	12.1	37.8	<1	64.7	0.8	6.7	2.0	<8	0.8	141.4	14.5	22.4	44.5	4.91
11-MGB-367	Soil	398	<1	5.7	1.9	7.0	4.1	11.3	43.3	<1	73.5	0.7	7.7	2.2	<8	0.7	152.9	17.0	26.1	53.0	5.96
11-MGB-403	Soil	604	<1	18.3	5.7	16.6	6.5	22.1	72.0	1	159.6	1.7	6.6	2.3	108	1.8	232.6	15.7	25.6	52.4	5.88
11-MGB-408	Soil	546	<1	27.0	12.2	17.7	5.6	26.6	99.1	2	65.7	1.6	5.2	1.5	173	5.1	174.2	15.2	20.7	44.5	5.15
11-MGB-407	Soil	770	<1	9.6	7.8	16.4	6.8	19.4	103.4	2	113.5	1.3	9.7	2.5	96	2.3	250.0	18.6	32.0	64.6	7.35



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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-MGB-384	Soil	26.5	4.63	0.93	3.69	0.54	2.99	0.52	1.61	0.25	1.67	0.24	0.6	6.2	22.4	103	10.3	21.3	0.5
11-MGB-400	Soil	25.2	4.72	1.30	4.12	0.63	3.35	0.65	1.83	0.27	1.61	0.24	0.7	41.7	32.8	103	74.8	16.7	0.2
11-MGB-397	Soil	27.9	5.77	1.57	5.36	0.80	4.65	0.86	2.31	0.33	1.80	0.31	0.7	44.7	23.5	93	62.1	10.9	0.1
11-MGB-392	Soil	30.2	5.92	1.19	4.79	0.73	4.04	0.81	2.19	0.33	2.32	0.31	0.5	9.5	17.3	133	17.8	14.0	0.4
11-MGB-394	Soil	23.4	4.20	0.89	3.58	0.55	3.10	0.58	1.78	0.27	1.79	0.28	0.4	9.2	13.5	128	16.4	12.4	0.4
11-MGB-395	Soil	24.4	4.45	0.97	3.54	0.57	3.07	0.66	1.64	0.27	1.81	0.26	0.7	18.5	21.0	95	33.9	10.5	0.2
11-MGB-399	Soil	22.9	4.70	1.25	3.97	0.61	3.62	0.67	1.90	0.28	1.84	0.26	0.6	31.6	18.6	126	45.2	6.0	0.3
11-MGB-396	Soil	30.4	6.75	1.77	5.90	0.92	4.79	0.91	2.33	0.36	2.18	0.30	0.5	46.1	14.6	97	60.8	7.6	0.2
11-MGB-393	Soil	41.8	8.04	1.73	6.51	0.99	5.61	1.07	2.91	0.42	2.81	0.41	0.6	16.2	24.6	86	22.7	25.6	0.3
11-MGB-398	Soil	29.3	5.95	1.70	5.65	0.86	4.78	0.95	2.37	0.34	2.27	0.29	0.7	62.7	18.5	103	69.4	9.8	0.3
11-MGB-389	Soil	28.3	5.30	1.19	4.59	0.70	3.78	0.78	2.01	0.32	2.05	0.29	0.5	8.2	20.0	79	17.4	42.9	0.5
11-MGB-381	Soil	23.2	3.90	0.77	3.29	0.51	2.88	0.58	1.55	0.26	1.60	0.25	0.7	5.6	16.5	127	10.9	12.7	0.5
11-MGB-391	Soil	33.2	5.28	1.14	4.24	0.73	3.95	0.75	2.26	0.34	2.06	0.30	0.6	11.2	22.5	167	21.8	21.8	0.6
11-MGB-388	Soil	30.0	4.73	1.02	4.05	0.68	3.85	0.75	2.22	0.33	2.28	0.33	0.8	7.0	24.5	94	16.5	18.6	0.4
11-MGB-376	Soil	25.9	4.50	0.91	3.76	0.60	3.54	0.72	1.86	0.31	1.83	0.28	1.3	8.6	29.0	105	13.6	16.6	0.5
11-MGB-380	Soil	31.0	5.49	1.07	4.49	0.74	4.03	0.82	2.45	0.37	2.41	0.36	0.9	9.5	22.1	108	18.2	12.3	0.4
11-MGB-377	Soil	37.1	5.72	1.18	4.72	0.74	3.90	0.71	2.07	0.32	2.02	0.30	1.5	10.3	28.5	70	16.0	15.3	0.5
11-MGB-375	Soil	29.1	4.65	0.89	3.88	0.62	3.71	0.70	2.37	0.29	1.98	0.32	0.7	6.1	15.7	92	12.8	8.0	0.3
11-MGB-373	Soil	31.7	5.48	1.21	4.64	0.77	4.59	0.82	2.37	0.41	2.37	0.34	1.1	10.9	20.4	69	16.1	10.6	0.5
11-MGB-369	Soil	20.6	3.63	0.71	3.22	0.48	2.89	0.51	1.38	0.22	1.29	0.22	0.5	5.4	10.9	33	9.3	5.6	0.3
11-MGB-372	Soil	21.1	3.61	0.77	2.99	0.49	2.87	0.58	1.66	0.26	1.44	0.24	0.6	4.8	11.5	19	8.1	5.3	0.2
11-MGB-371	Soil	32.1	5.15	1.04	4.63	0.76	4.04	0.85	2.44	0.37	2.67	0.39	0.9	8.9	37.1	48	13.2	9.7	0.3
11-MGB-370	Soil	27.7	5.12	0.90	3.92	0.66	3.82	0.69	2.11	0.32	1.97	0.30	1.0	10.3	24.3	83	17.6	11.6	0.4
11-MGB-366	Soil	24.5	4.31	0.91	3.51	0.59	3.29	0.68	1.89	0.27	1.82	0.29	0.9	9.5	14.2	65	13.1	8.5	0.4
11-MGB-374	Soil	35.3	5.67	1.21	4.94	0.76	3.86	0.80	2.27	0.36	2.17	0.34	0.9	9.3	18.8	109	16.4	12.8	0.5
11-MGB-365	Soil	20.9	3.27	0.63	2.89	0.42	2.56	0.52	1.36	0.23	1.52	0.20	0.7	7.4	11.8	49	10.9	7.8	0.2
11-MGB-367	Soil	22.9	3.89	0.77	3.19	0.53	2.85	0.61	1.69	0.25	1.65	0.23	0.7	7.7	13.3	62	12.5	7.2	0.3
11-MGB-403	Soil	24.8	4.18	1.06	3.39	0.53	3.01	0.61	1.66	0.23	1.58	0.22	0.6	23.2	20.7	112	37.8	9.6	0.4
11-MGB-408	Soil	21.1	4.03	1.13	3.47	0.56	3.15	0.61	1.71	0.25	1.76	0.26	0.8	34.1	15.6	113	44.0	48.2	0.2
11-MGB-407	Soil	29.6	4.64	0.92	3.84	0.58	3.35	0.68	1.97	0.31	2.01	0.31	0.9	12.3	16.6	77	18.4	18.3	0.2



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Project: TING 2A

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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-384	Soil	0.2	2.0	0.03	0.8	<0.5
11-MGB-400	Soil	<0.1	1.6	0.02	0.4	<0.5
11-MGB-397	Soil	0.1	2.0	0.02	0.4	<0.5
11-MGB-392	Soil	0.2	1.4	0.03	0.4	0.6
11-MGB-394	Soil	0.1	1.6	0.04	0.4	<0.5
11-MGB-395	Soil	<0.1	0.9	0.01	0.3	<0.5
11-MGB-399	Soil	0.2	1.4	0.02	0.1	<0.5
11-MGB-396	Soil	<0.1	1.3	0.02	0.3	<0.5
11-MGB-393	Soil	0.5	102.8	0.08	0.5	0.7
11-MGB-398	Soil	0.1	3.1	0.02	0.6	0.6
11-MGB-389	Soil	0.1	2.8	0.04	1.0	0.6
11-MGB-381	Soil	<0.1	2.3	0.02	0.5	<0.5
11-MGB-391	Soil	0.4	0.7	0.05	1.1	<0.5
11-MGB-388	Soil	0.2	0.7	0.03	0.4	<0.5
11-MGB-376	Soil	<0.1	<0.5	0.02	0.4	<0.5
11-MGB-380	Soil	0.1	<0.5	0.04	0.3	<0.5
11-MGB-377	Soil	0.2	0.5	0.02	0.3	<0.5
11-MGB-375	Soil	<0.1	0.6	0.02	0.2	<0.5
11-MGB-373	Soil	0.2	7.6	0.04	0.2	<0.5
11-MGB-369	Soil	<0.1	<0.5	0.01	<0.1	<0.5
11-MGB-372	Soil	<0.1	0.6	0.01	0.1	<0.5
11-MGB-371	Soil	0.2	0.7	0.04	0.2	<0.5
11-MGB-370	Soil	<0.1	<0.5	0.03	0.2	<0.5
11-MGB-366	Soil	0.1	<0.5	0.03	0.1	<0.5
11-MGB-374	Soil	0.2	<0.5	0.03	0.2	<0.5
11-MGB-365	Soil	<0.1	<0.5	0.03	0.1	<0.5
11-MGB-367	Soil	<0.1	0.7	0.02	<0.1	<0.5
11-MGB-403	Soil	<0.1	<0.5	0.03	0.2	<0.5
11-MGB-408	Soil	0.1	2.9	0.02	0.5	<0.5
11-MGB-407	Soil	<0.1	<0.5	0.02	0.2	<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-405	Soil	716	<1	13.2	6.1	15.3	7.3	23.2	70.4	1	127.2	1.6	9.4	2.5	96	2.5	254.7	19.5	32.7	64.6
11-MGB-406	Soil	513	1	27.0	7.9	16.2	6.5	25.4	63.2	1	80.6	1.6	7.2	2.1	158	2.5	226.3	19.6	27.7	60.1
11-MGB-404	Soil	730	<1	20.3	6.0	15.2	6.7	21.8	69.8	2	112.6	1.5	10.1	2.6	121	1.4	245.8	21.3	31.1	64.4
11-J2-44	Soil	598	1	5.2	3.9	10.7	7.3	15.4	65.5	2	63.0	1.1	10.6	3.1	20	1.3	291.3	17.5	34.2	67.2
11-J2-47	Soil	467	<1	5.9	3.3	8.9	8.0	11.0	68.4	2	51.2	0.8	10.1	2.7	<8	1.2	287.0	18.8	31.4	65.3
11-J2-49	Soil	610	<1	5.3	3.6	11.3	7.8	14.2	77.9	<1	71.6	1.0	10.3	2.9	24	1.4	295.2	15.2	28.9	62.0
11-J2-48	Soil	442	3	6.7	3.8	9.6	8.5	12.6	68.2	1	44.9	0.7	11.8	2.9	<8	1.4	317.8	20.8	36.2	88.1
11-J2-53	Soil	562	<1	8.9	3.4	10.7	9.4	18.4	74.8	1	66.1	1.3	10.9	3.0	28	3.2	359.3	23.0	35.4	72.9
11-J2-56	Soil	604	1	13.3	3.4	12.1	8.6	17.5	75.1	2	89.9	1.1	10.2	2.9	62	1.7	284.5	23.9	36.0	70.2
11-J2-52	Soil	429	<1	10.4	3.4	10.5	7.8	17.8	58.3	1	56.3	1.0	11.3	2.9	25	2.0	291.5	22.4	34.0	77.9
11-J2-51	Soil	495	<1	6.7	4.4	9.5	7.3	11.4	81.4	<1	62.1	0.7	9.9	3.0	<8	1.2	254.9	19.4	32.7	60.8
11-J2-58	Soil	354	<1	31.6	4.9	15.4	6.2	26.3	55.2	2	99.1	1.7	5.4	1.5	184	1.3	207.2	23.8	25.2	54.1
11-J2-57	Soil	559	1	24.9	5.5	14.7	5.6	21.9	83.6	1	98.8	1.4	8.1	2.2	137	2.8	223.1	24.2	32.4	62.9
11-J2-55	Soil	475	<1	19.8	3.7	12.5	7.4	19.1	67.3	1	61.6	1.3	9.5	2.5	81	1.2	278.4	22.6	33.8	73.3
11-J2-54	Soil	654	<1	11.3	3.6	12.9	8.7	20.2	84.6	2	96.8	1.3	10.2	3.3	62	2.0	311.5	22.2	34.2	66.9
11-J2-50	Soil	449	<1	4.6	4.8	10.8	7.1	10.3	70.4	1	42.7	0.5	9.0	2.7	<8	1.5	250.4	19.7	31.2	52.3
11-J2-46	Soil	404	<1	5.5	3.1	9.3	9.0	14.1	67.2	<1	38.3	0.9	10.1	3.0	<8	1.1	325.8	17.4	35.5	66.1
11-J2-59	Soil	439	1	37.0	9.4	19.4	5.8	31.0	93.4	2	90.3	2.0	5.8	1.6	217	5.7	236.1	28.5	32.5	64.0
11-J2-60	Soil	362	3	31.7	5.4	19.2	4.8	27.5	38.6	2	101.1	1.8	4.0	1.2	293	0.7	197.3	18.9	25.0	53.9
11-J2-61	Soil	705	3	36.4	8.6	17.7	4.9	26.4	64.1	1	102.1	1.7	5.8	1.5	269	3.0	201.8	25.4	33.4	66.4
11-J2-62	Soil	804	3	27.9	7.4	16.8	5.6	22.4	84.7	2	98.0	1.4	7.4	1.9	225	2.1	234.7	19.1	27.5	60.9
11-J2-63	Soil	688	5	32.3	8.2	17.5	5.8	26.2	72.8	2	98.1	1.5	8.1	1.8	233	3.0	218.7	25.3	35.3	71.5
11-J2-43	Soil	523	2	5.4	3.8	11.5	8.3	15.7	62.3	2	68.7	1.1	10.9	3.1	84	1.6	303.4	18.5	34.5	70.7
11-J2-45	Soil	421	6	5.4	3.3	9.9	8.0	15.3	63.0	1	51.1	0.9	10.3	3.0	68	1.6	309.0	18.1	33.6	66.9
11-J2-41	Soil	438	3	6.8	2.9	9.0	8.3	13.9	58.9	1	57.7	0.9	10.1	2.7	68	1.4	300.6	20.5	37.6	74.4
11-J2-42	Soil	503	2	5.7	3.1	10.6	7.8	16.3	67.6	1	59.1	0.9	11.6	3.1	75	2.0	312.6	21.1	39.2	69.5
11-J2-38	Soil	482	4	5.7	2.8	9.6	8.0	15.4	54.5	<1	82.8	1.1	11.0	3.2	70	1.6	317.2	23.4	35.9	70.6
11-J2-39	Soil	560	<1	6.5	3.3	11.3	8.7	20.4	67.1	2	72.1	1.4	12.5	3.7	83	1.7	342.7	27.8	44.7	77.5
11-J2-40	Soil	417	1	5.9	3.3	9.2	7.3	14.3	56.2	2	61.4	0.8	10.1	2.9	58	1.9	304.6	20.0	35.0	67.0
11-J2-36	Soil	414	8	7.0	3.4	9.2	6.1	18.7	60.5	2	60.9	1.2	10.9	2.8	77	1.8	241.9	24.0	38.7	78.2



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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-MGB-405	Soil	30.2	4.62	1.19	4.10	0.62	3.29	0.78	1.95	0.33	1.89	0.30	1.0	18.8	30.6	102	26.2	9.0	0.2
11-MGB-406	Soil	31.7	4.85	1.33	4.24	0.66	3.87	0.71	1.99	0.29	2.05	0.29	1.0	25.8	22.8	78	50.3	39.8	0.2
11-MGB-404	Soil	31.8	5.28	1.28	4.63	0.71	3.93	0.85	2.32	0.34	1.98	0.29	1.0	23.6	19.4	97	43.3	8.1	0.2
11-J2-44	Soil	28.5	4.34	0.85	3.38	0.52	2.95	0.54	2.04	0.30	1.93	0.28	0.6	5.7	15.3	102	10.7	8.9	0.5
11-J2-47	Soil	32.3	4.75	0.99	4.02	0.59	3.41	0.59	1.82	0.28	1.60	0.24	0.6	7.6	20.0	93	15.3	20.7	0.3
11-J2-49	Soil	25.6	3.82	0.69	3.09	0.47	2.80	0.52	1.65	0.25	2.00	0.25	0.6	5.6	15.3	126	12.1	12.2	0.5
11-J2-48	Soil	31.4	5.22	1.11	4.38	0.67	3.47	0.70	1.98	0.29	1.96	0.31	0.8	7.5	26.5	148	16.9	23.2	0.4
11-J2-53	Soil	35.1	5.80	1.42	4.93	0.78	4.25	0.83	2.27	0.38	2.31	0.32	0.5	15.2	24.6	91	25.2	16.0	0.3
11-J2-56	Soil	35.2	6.01	1.42	5.27	0.83	4.47	0.85	2.37	0.38	2.35	0.35	0.7	19.4	23.8	109	32.8	9.9	0.4
11-J2-52	Soil	34.3	5.85	1.29	5.52	0.80	4.23	0.84	2.30	0.35	2.29	0.32	0.8	15.1	44.9	96	27.9	21.5	0.4
11-J2-51	Soil	29.5	4.87	1.13	4.15	0.66	3.83	0.72	1.88	0.29	1.84	0.30	0.5	8.0	19.7	118	14.3	22.8	0.5
11-J2-58	Soil	32.5	6.04	1.80	6.08	0.91	4.87	0.95	2.57	0.35	2.25	0.32	0.4	60.5	14.9	111	70.7	5.8	0.1
11-J2-57	Soil	33.1	6.25	1.74	5.47	0.88	4.72	0.95	2.56	0.37	2.54	0.33	0.7	45.5	18.9	112	50.5	8.2	0.3
11-J2-55	Soil	32.7	5.94	1.52	5.30	0.84	4.36	0.83	2.35	0.36	2.15	0.32	0.6	34.8	17.0	72	42.9	8.2	0.2
11-J2-54	Soil	32.7	5.61	1.26	4.71	0.76	4.13	0.84	2.53	0.39	2.73	0.34	0.5	17.6	18.9	95	28.6	10.1	0.1
11-J2-50	Soil	31.6	4.90	1.11	4.01	0.61	3.36	0.66	1.85	0.30	2.15	0.25	0.3	5.8	15.3	161	12.9	18.6	0.5
11-J2-46	Soil	27.9	5.04	1.03	3.92	0.62	3.26	0.61	1.72	0.27	1.82	0.26	0.6	5.8	22.4	68	12.2	18.2	0.3
11-J2-59	Soil	40.0	7.44	2.16	6.92	1.04	5.16	1.18	3.04	0.43	2.92	0.35	0.7	73.6	16.3	98	68.0	11.5	0.1
11-J2-60	Soil	28.2	4.57	1.48	4.38	0.67	3.63	0.66	2.01	0.30	1.79	0.28	0.5	26.1	12.4	118	63.6	1.8	0.1
11-J2-61	Soil	31.2	6.50	1.95	6.07	0.91	4.79	0.96	2.58	0.38	2.30	0.29	0.5	68.7	19.6	98	104.1	8.4	<0.1
11-J2-62	Soil	25.6	4.73	1.29	4.12	0.64	3.74	0.72	1.97	0.35	2.12	0.29	0.8	29.1	18.2	86	72.5	7.3	0.2
11-J2-63	Soil	34.0	6.27	1.76	5.78	0.90	5.12	0.95	2.80	0.37	2.24	0.33	0.8	60.3	34.3	120	84.6	13.9	0.3
11-J2-43	Soil	27.1	4.48	0.89	3.66	0.55	3.24	0.67	1.97	0.29	1.71	0.27	0.6	6.8	18.7	86	12.1	10.7	0.3
11-J2-45	Soil	26.4	4.76	0.97	3.62	0.59	3.16	0.65	1.93	0.30	2.02	0.29	0.7	7.2	21.5	91	10.9	13.2	0.6
11-J2-41	Soil	32.1	4.94	1.08	4.15	0.63	3.27	0.74	1.87	0.31	1.87	0.29	0.8	7.9	21.5	84	14.6	13.9	0.3
11-J2-42	Soil	28.3	5.19	0.97	4.30	0.63	3.64	0.65	1.91	0.31	2.21	0.33	0.6	7.6	21.2	113	12.0	12.4	0.6
11-J2-38	Soil	28.0	5.25	1.06	4.60	0.68	3.92	0.78	2.37	0.34	2.26	0.33	0.8	8.6	19.9	67	13.2	12.2	0.2
11-J2-39	Soil	36.7	6.42	1.36	5.46	0.85	4.90	0.94	2.80	0.39	2.48	0.36	0.9	9.5	25.8	96	15.6	12.9	0.4
11-J2-40	Soil	26.5	4.85	1.01	3.95	0.62	3.19	0.72	1.96	0.29	2.04	0.27	0.8	7.8	22.0	73	12.9	13.2	0.4
11-J2-36	Soil	31.9	5.49	1.16	4.60	0.73	3.92	0.80	2.28	0.34	2.02	0.34	1.0	8.4	28.5	52	14.8	18.5	0.4



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Project: TING 2A

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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-405	Soil	0.2	<0.5	0.02	0.3	<0.5
11-MGB-406	Soil	0.1	0.7	0.03	0.3	<0.5
11-MGB-404	Soil	<0.1	<0.5	0.01	0.5	<0.5
11-J2-44	Soil	0.2	<0.5	0.04	0.4	<0.5
11-J2-47	Soil	0.2	0.9	0.04	0.6	<0.5
11-J2-49	Soil	<0.1	<0.5	0.02	0.5	<0.5
11-J2-48	Soil	0.2	1.1	0.03	0.8	<0.5
11-J2-53	Soil	0.3	1.3	0.05	0.4	<0.5
11-J2-56	Soil	0.2	1.0	0.04	0.2	<0.5
11-J2-52	Soil	0.2	0.7	0.04	0.5	0.5
11-J2-51	Soil	0.3	<0.5	0.05	0.8	<0.5
11-J2-58	Soil	<0.1	1.2	0.02	0.4	0.7
11-J2-57	Soil	0.2	0.6	0.05	0.4	0.7
11-J2-55	Soil	<0.1	<0.5	0.03	0.2	<0.5
11-J2-54	Soil	0.2	0.7	0.03	0.3	<0.5
11-J2-50	Soil	0.3	<0.5	0.04	0.7	0.7
11-J2-46	Soil	0.4	<0.5	0.03	0.6	<0.5
11-J2-59	Soil	0.1	1.4	0.02	0.7	<0.5
11-J2-60	Soil	<0.1	0.5	0.03	0.1	<0.5
11-J2-61	Soil	0.2	2.1	0.04	0.4	<0.5
11-J2-62	Soil	0.1	0.8	0.02	0.2	<0.5
11-J2-63	Soil	0.2	0.5	0.04	0.5	<0.5
11-J2-43	Soil	0.2	1.1	0.04	0.3	<0.5
11-J2-45	Soil	0.1	1.6	0.03	0.4	<0.5
11-J2-41	Soil	0.2	0.9	0.04	0.3	<0.5
11-J2-42	Soil	0.2	1.1	0.03	0.3	<0.5
11-J2-38	Soil	0.2	1.2	0.03	0.3	<0.5
11-J2-39	Soil	0.2	<0.5	0.04	0.3	<0.5
11-J2-40	Soil	0.2	1.3	0.04	0.4	<0.5
11-J2-36	Soil	0.1	0.6	0.03	0.4	<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
		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-J2-37	Soil	482	2	6.1	3.3	9.6	7.7	15.3	56.0	2	63.1	1.0	10.7	3.1	71	1.1	296.7	24.6	39.7
11-J2-34	Soil	488	2	6.4	2.4	9.0	6.0	12.6	47.6	<1	89.0	0.8	10.1	2.6	69	1.2	233.3	21.3	31.8
11-J2-33	Soil	181	4	3.6	1.8	4.6	3.8	12.4	28.4	<1	58.0	0.7	6.1	1.8	34	1.4	157.6	14.6	22.4
11-J2-32	Soil	363	1	4.4	2.1	6.0	2.5	8.5	32.9	1	74.5	0.5	5.1	2.4	41	0.7	91.5	11.6	21.8
11-J2-35	Soil	410	4	6.1	2.5	9.7	7.3	13.2	47.4	1	55.9	0.7	9.1	2.9	67	1.7	284.9	18.5	32.0
11-J2-31	Soil	612	2	8.4	3.5	9.6	5.2	14.8	62.5	2	86.2	1.0	10.9	3.1	78	1.6	197.1	23.1	41.7
11-J2-30	Soil	367	3	5.5	1.9	6.5	4.2	10.8	41.0	2	74.3	0.8	6.9	2.2	52	0.8	162.4	16.7	24.6
11-J2-29	Soil	436	1	6.3	2.0	7.5	3.8	10.9	43.1	2	76.6	0.7	7.6	2.2	59	1.0	158.4	17.5	26.6
11-J2-28	Soil	535	2	7.6	2.6	8.3	5.2	12.9	50.1	2	80.9	0.9	9.1	2.6	65	0.8	190.7	19.5	31.1
11-J2-27	Soil	267	3	4.0	1.6	4.6	3.5	8.2	29.7	<1	62.1	0.5	5.7	1.9	36	<0.5	121.2	10.9	17.7
11-J2-26	Soil	530	2	7.4	2.5	7.9	5.2	12.5	54.7	1	75.2	0.9	9.3	2.3	64	1.0	196.0	18.3	30.1
11-MGB-401	Soil	687	3	18.6	7.1	15.1	8.3	22.3	97.2	2	135.4	1.5	12.1	3.0	126	1.4	290.6	20.5	35.2
11-MGB-402	Soil	748	3	13.5	4.9	15.2	7.5	19.7	77.0	2	112.9	1.3	9.4	2.5	134	1.5	286.6	18.0	32.8
11-MGB-420	Soil	810	<1	2.9	3.1	12.8	10.2	11.2	52.5	2	183.5	0.8	7.4	2.5	97	0.9	392.5	16.9	24.7
11-MGB-422	Soil	583	4	1.7	3.0	9.4	10.7	14.9	52.8	2	73.2	0.9	7.6	2.6	100	1.6	410.2	19.1	27.7
11-MGB-425	Soil	1540	4	2.9	4.6	13.3	4.8	8.3	68.9	2	113.6	0.5	9.1	2.5	151	0.7	205.9	15.0	26.8
11-MGB-421	Soil	285	<1	0.9	1.0	5.0	12.3	9.4	18.1	<1	45.4	0.6	5.0	2.0	66	0.9	477.5	15.0	17.8
11-MGB-416	Soil	1124	<1	12.9	1.5	4.5	7.7	6.7	24.5	<1	34.8	0.4	4.6	2.3	153	1.3	288.7	12.4	25.5
11-MGB-423	Soil	1619	<1	4.0	8.9	23.0	5.6	14.8	141.3	3	143.1	1.1	11.8	3.1	257	1.3	181.8	16.8	32.7
11-MGB-410	Soil	7981	4	1.7	12.9	21.1	2.4	8.1	171.4	2	64.3	0.6	7.5	5.2	447	1.5	97.3	17.6	19.2
11-MGB-409	Soil	790	<1	4.6	1.4	4.5	7.5	4.4	17.9	<1	38.6	0.2	4.0	1.5	74	<0.5	278.4	11.5	11.0
11-MGB-413	Soil	1262	<1	8.0	4.8	15.2	4.3	6.8	48.0	2	78.1	0.4	9.2	3.1	171	0.5	152.6	18.3	24.2
11-MGB-411	Soil	6727	6	2.3	14.5	18.4	3.2	6.5	142.6	2	82.0	0.5	8.0	5.1	572	0.9	115.6	17.4	23.6
11-MGB-412	Soil	705	<1	5.1	1.7	5.1	12.4	8.4	25.8	1	49.4	0.6	5.1	1.9	67	0.5	492.8	15.0	18.4
11-MGB-415	Soil	2132	3	13.7	5.4	14.7	5.5	10.9	61.1	2	116.1	0.8	11.2	5.6	236	1.3	206.0	24.3	34.5
11-J2-66	Soil	708	1	2.4	2.1	14.8	6.4	5.9	41.9	1	321.8	0.4	5.9	2.3	83	0.8	238.7	8.5	16.2
11-J2-93	Soil	943	3	7.8	3.4	12.0	6.9	19.8	81.0	2	76.2	1.2	10.8	3.3	155	1.0	281.6	19.2	31.0
11-J2-126	Soil	353	2	4.1	3.0	10.0	10.5	17.7	62.2	3	106.3	1.2	9.1	2.6	69	1.5	397.7	22.3	28.5
11-J2-97	Soil	1833	2	14.8	4.6	12.2	6.4	21.8	81.7	2	51.3	1.5	11.5	3.7	304	1.5	257.2	35.1	40.5
11-J2-91	Soil	2056	2	8.3	5.1	13.7	5.2	19.9	86.7	1	49.8	1.2	8.0	6.2	688	2.0	213.0	27.1	31.0



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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	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-J2-37	Soil	31.6	5.55	1.14	4.72	0.73	3.97	0.76	2.21	0.32	2.26	0.31	1.0	8.2	20.9	77	13.8	12.2	0.3
11-J2-34	Soil	26.0	4.61	1.01	4.07	0.63	3.97	0.79	2.13	0.33	2.00	0.30	1.0	9.8	15.8	69	13.4	10.9	0.3
11-J2-33	Soil	18.0	3.18	0.67	2.60	0.44	2.34	0.46	1.42	0.21	1.34	0.22	0.7	5.5	16.5	23	7.8	5.6	0.2
11-J2-32	Soil	16.1	2.90	0.57	2.36	0.34	1.69	0.37	1.15	0.15	1.01	0.18	1.1	7.5	25.6	136	8.5	4.8	0.8
11-J2-35	Soil	24.6	4.29	0.92	3.58	0.56	2.97	0.64	1.93	0.28	1.67	0.27	1.0	8.1	17.1	61	10.7	9.7	0.4
11-J2-31	Soil	31.4	5.50	1.14	5.06	0.76	4.44	0.79	2.30	0.34	2.26	0.34	1.2	9.5	28.3	88	16.4	8.5	0.7
11-J2-30	Soil	21.2	3.84	0.76	3.23	0.51	3.04	0.58	1.74	0.23	1.65	0.21	0.8	7.5	13.3	53	11.3	6.7	0.4
11-J2-29	Soil	21.6	3.87	0.74	3.29	0.53	2.78	0.60	1.79	0.26	1.57	0.24	0.9	8.5	13.6	67	12.7	7.5	0.4
11-J2-28	Soil	26.3	4.42	0.83	3.71	0.59	3.37	0.64	1.96	0.30	1.87	0.24	0.9	8.0	13.6	66	12.5	9.2	0.4
11-J2-27	Soil	12.7	2.41	0.50	2.10	0.32	1.69	0.37	1.08	0.15	1.08	0.14	0.6	5.3	10.2	25	7.5	6.8	0.2
11-J2-26	Soil	25.0	4.42	0.85	3.65	0.56	3.29	0.57	1.65	0.27	1.78	0.26	1.0	10.2	14.5	80	13.3	9.6	0.4
11-MGB-401	Soil	33.8	5.59	1.39	5.06	0.73	3.99	0.79	2.21	0.31	2.10	0.31	0.4	22.5	12.5	63	40.0	13.2	0.3
11-MGB-402	Soil	26.2	4.75	1.02	3.75	0.60	3.38	0.69	1.96	0.29	2.01	0.29	0.6	14.3	13.0	59	27.1	5.9	<0.1
11-MGB-420	Soil	24.2	3.48	0.71	2.95	0.47	2.47	0.58	1.80	0.27	1.78	0.30	1.5	8.5	10.3	19	4.5	4.1	0.1
11-MGB-422	Soil	21.3	3.61	0.66	2.96	0.51	3.57	0.65	2.02	0.31	1.95	0.36	1.2	3.7	7.5	14	3.4	6.3	<0.1
11-MGB-425	Soil	20.9	3.93	0.76	3.30	0.48	2.41	0.51	1.68	0.25	1.64	0.25	3.3	10.7	13.9	21	7.8	11.7	0.1
11-MGB-421	Soil	15.0	2.42	0.41	1.97	0.37	2.15	0.54	1.69	0.23	1.63	0.27	1.0	4.4	7.2	12	2.4	11.9	<0.1
11-MGB-416	Soil	21.6	3.56	0.62	2.41	0.38	2.07	0.43	1.14	0.18	1.34	0.20	8.2	9.9	6.2	134	14.3	18.9	0.5
11-MGB-423	Soil	25.5	4.59	0.88	3.35	0.53	3.01	0.59	1.82	0.29	1.83	0.30	2.9	28.1	30.7	38	11.2	15.0	0.2
11-MGB-410	Soil	14.4	2.59	0.59	2.67	0.41	2.53	0.54	1.97	0.26	2.06	0.31	2.3	17.3	15.6	23	14.2	2.4	0.4
11-MGB-409	Soil	9.7	2.16	0.43	2.03	0.35	2.05	0.46	1.25	0.19	1.24	0.21	4.9	6.0	5.3	33	7.5	23.6	0.2
11-MGB-413	Soil	20.3	4.14	0.93	3.58	0.57	3.36	0.65	1.96	0.28	1.96	0.29	6.9	12.9	17.6	49	16.6	48.4	0.3
11-MGB-411	Soil	21.8	4.01	0.85	3.67	0.56	3.17	0.61	2.06	0.29	2.20	0.30	21.7	27.5	19.5	46	18.6	62.8	0.3
11-MGB-412	Soil	15.2	2.89	0.50	2.22	0.40	2.39	0.55	1.73	0.22	1.87	0.28	1.9	5.7	6.3	34	8.1	4.7	0.2
11-MGB-415	Soil	29.8	5.62	1.24	4.98	0.75	4.10	0.86	2.37	0.37	2.53	0.36	8.2	14.2	15.6	131	23.6	22.4	1.2
11-J2-66	Soil	12.1	2.24	0.53	1.77	0.26	1.58	0.34	0.84	0.14	0.92	0.14	0.3	4.5	7.5	6	2.0	1.7	<0.1
11-J2-93	Soil	26.0	4.43	0.86	3.29	0.54	3.40	0.62	1.89	0.32	1.83	0.29	2.7	13.8	17.0	192	22.5	10.0	3.8
11-J2-126	Soil	27.9	4.42	0.83	3.74	0.64	3.81	0.74	2.39	0.36	2.37	0.35	0.6	12.1	6.4	26	9.1	3.8	<0.1
11-J2-97	Soil	33.5	6.62	1.45	5.96	0.94	5.06	1.04	3.08	0.48	3.19	0.45	5.0	21.3	30.6	448	74.1	26.0	6.7
11-J2-91	Soil	29.6	4.84	1.05	4.26	0.68	3.96	0.78	2.35	0.37	2.19	0.37	14.5	29.3	25.7	510	60.2	25.0	7.2



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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-J2-37	Soil	0.2	<0.5	0.04	0.2	<0.5
11-J2-34	Soil	0.2	<0.5	0.03	0.3	<0.5
11-J2-33	Soil	0.2	0.7	0.02	0.1	<0.5
11-J2-32	Soil	0.1	<0.5	0.06	<0.1	<0.5
11-J2-35	Soil	0.2	0.9	0.04	0.2	<0.5
11-J2-31	Soil	0.1	0.5	0.04	0.1	<0.5
11-J2-30	Soil	<0.1	1.1	0.03	<0.1	<0.5
11-J2-29	Soil	<0.1	0.7	0.03	<0.1	<0.5
11-J2-28	Soil	<0.1	0.8	0.03	0.1	<0.5
11-J2-27	Soil	<0.1	<0.5	0.03	<0.1	<0.5
11-J2-26	Soil	0.1	0.8	0.03	0.1	<0.5
11-MGB-401	Soil	<0.1	0.9	0.02	0.3	<0.5
11-MGB-402	Soil	<0.1	<0.5	0.02	0.1	<0.5
11-MGB-420	Soil	0.4	<0.5	0.02	<0.1	<0.5
11-MGB-422	Soil	0.3	<0.5	0.03	<0.1	<0.5
11-MGB-425	Soil	0.6	2.1	0.11	0.2	1.0
11-MGB-421	Soil	<0.1	1.7	0.01	<0.1	<0.5
11-MGB-416	Soil	0.2	<0.5	0.06	0.1	1.6
11-MGB-423	Soil	1.6	1.6	0.08	0.2	0.7
11-MGB-410	Soil	3.6	2.7	0.35	0.6	5.4
11-MGB-409	Soil	0.2	<0.5	0.05	<0.1	1.2
11-MGB-413	Soil	0.5	1.3	0.18	0.2	1.7
11-MGB-411	Soil	4.8	5.5	0.40	0.5	9.6
11-MGB-412	Soil	0.1	<0.5	0.06	<0.1	<0.5
11-MGB-415	Soil	1.0	19.4	0.21	0.3	2.8
11-J2-66	Soil	0.2	3.6	0.04	<0.1	<0.5
11-J2-93	Soil	<0.1	2.2	0.02	0.2	0.6
11-J2-126	Soil	<0.1	2.2	0.01	<0.1	<0.5
11-J2-97	Soil	0.9	2.8	0.12	0.4	2.0
11-J2-91	Soil	2.3	1.6	0.12	1.0	4.4



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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
		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-J2-94	Soil	974	6	9.8	3.5	10.8	7.7	20.7	73.8	2	43.9	1.2	12.8	3.7	160	1.1	306.0	29.0	35.8
11-J2-95	Soil	1066	<1	11.0	3.6	13.7	8.2	21.1	76.8	2	90.1	1.5	12.5	3.4	115	1.2	292.1	23.9	40.0
11-J2-98	Soil	746	1	7.2	3.1	11.2	7.7	18.4	62.1	2	66.2	1.2	10.2	3.1	84	0.7	292.4	18.0	28.9
11-J2-127	Soil	697	6	7.8	5.7	13.5	8.9	20.0	79.1	3	100.2	1.3	10.9	3.1	100	1.1	343.1	23.1	31.8
11-J2-102	Soil	683	2	8.3	3.6	12.4	7.7	22.5	65.9	2	85.9	1.4	12.5	3.3	83	0.9	279.9	20.7	36.8
11-J2-125	Soil	528	1	5.4	3.2	13.5	9.1	20.6	69.5	2	96.4	1.4	9.3	2.7	91	1.8	328.9	21.3	28.3
11-J2-96	Soil	958	<1	9.8	4.1	13.7	7.6	17.8	84.5	2	81.3	1.2	12.5	3.2	91	1.3	276.7	21.3	39.7
11-J2-100	Soil	597	1	6.9	4.1	13.1	6.2	29.7	69.6	2	76.2	1.9	10.6	3.3	80	1.2	240.3	18.1	35.3
11-J2-129	Soil	241	2	3.7	1.5	6.0	12.3	16.7	38.0	<1	41.9	1.1	6.1	2.1	36	1.2	457.7	16.0	22.3
11-J2-99	Soil	2870	2	10.3	4.7	12.2	6.4	22.9	75.4	1	48.9	1.4	11.1	4.3	397	1.0	235.2	40.0	45.7
11-J2-70	Soil	454	<1	2.7	2.0	8.8	9.3	12.1	39.1	<1	57.2	1.0	7.0	2.4	82	1.4	338.0	17.5	21.7
11-J2-74	Soil	391	2	1.1	1.5	6.5	11.2	10.7	26.1	<1	49.5	0.8	6.6	2.2	70	1.5	418.5	20.0	21.7
11-J2-65	Soil	740	3	5.8	2.5	11.5	11.8	15.8	58.0	2	102.2	1.1	11.5	3.5	89	1.2	440.9	27.5	35.7
11-J2-73	Soil	635	<1	3.9	2.9	11.7	9.7	14.8	57.7	2	80.9	1.2	9.4	3.0	108	1.4	352.0	21.3	32.9
11-J2-71	Soil	722	8	2.0	1.8	8.7	12.8	14.4	35.6	2	80.2	0.9	9.2	2.8	83	1.2	453.7	25.0	29.3
11-J2-72	Soil	576	1	2.0	2.2	8.7	11.1	11.6	34.0	<1	71.2	0.9	8.0	2.6	82	1.4	428.0	20.5	26.2
11-J2-78	Soil	348	4	1.4	1.2	5.7	10.9	10.4	23.7	<1	43.1	0.7	5.0	2.0	54	0.9	432.9	16.9	16.4
11-J2-76	Soil	290	<1	0.8	1.0	5.9	12.4	10.3	16.0	1	40.1	0.8	5.0	2.2	55	1.1	475.8	19.3	16.8
11-J2-73	Soil	666	1	4.8	2.9	12.3	8.8	15.1	60.0	2	81.1	1.0	9.2	2.8	109	1.2	339.3	19.9	31.5
11-J2-77	Soil	387	2	1.2	2.0	7.2	10.5	10.7	31.8	<1	49.6	0.9	5.5	1.9	61	1.1	404.5	15.8	17.5
11-J2-88	Soil	305	<1	1.2	1.0	4.0	10.1	5.9	19.7	<1	35.8	0.5	3.8	1.6	39	0.7	380.1	11.6	14.6
11-J2-79	Soil	469	<1	2.8	1.6	5.8	12.0	12.0	26.5	<1	57.1	0.8	7.3	2.3	64	0.6	447.7	19.5	22.3
11-J2-67	Soil	710	2	3.8	3.0	13.1	10.9	16.9	64.5	2	93.5	1.3	10.0	3.1	115	1.3	375.3	21.6	34.5
11-J2-69	Soil	534	1	2.5	2.1	13.8	8.7	18.9	43.8	2	73.9	1.5	9.0	2.7	144	2.1	332.7	19.4	33.1
11-J2-81	Soil	685	2	4.7	3.1	13.0	8.6	16.2	72.7	2	92.2	1.0	9.3	2.6	115	1.7	305.7	21.2	32.7
11-J2-85	Soil	845	2	7.7	3.8	13.4	7.3	15.0	82.1	2	92.7	1.1	11.2	3.0	118	1.6	265.1	20.5	35.2
11-J2-89	Soil	529	2	2.0	1.3	5.4	8.6	7.9	25.0	1	36.5	0.5	4.0	1.8	58	0.9	318.2	12.0	14.4
11-J2-64	Soil	2330	3	10.2	8.4	23.7	4.0	17.1	107.4	2	124.5	1.1	15.7	6.5	345	1.1	156.4	19.8	37.8
11-J2-68	Soil	743	4	3.5	3.1	12.6	10.8	17.4	62.1	2	88.7	1.2	10.1	3.2	101	1.7	375.8	22.3	35.5
11-J2-80	Soil	612	2	2.7	2.9	12.0	9.7	15.4	38.1	2	83.9	1.1	10.7	3.5	126	1.5	351.0	27.9	33.2



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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	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-J2-94	Soil	36.8	6.54	1.43	5.90	0.94	5.55	1.00	2.89	0.41	2.60	0.38	5.7	22.6	30.0	214	44.7	23.4	2.5
11-J2-95	Soil	35.6	6.17	1.13	4.72	0.74	4.53	0.84	2.48	0.39	2.35	0.35	1.3	11.9	21.4	132	23.7	12.1	2.1
11-J2-98	Soil	21.5	4.02	0.78	3.35	0.54	3.18	0.66	1.88	0.29	1.47	0.27	0.9	7.2	21.6	192	19.0	11.2	3.3
11-J2-127	Soil	25.1	4.76	0.96	4.01	0.69	3.86	0.74	2.40	0.40	2.42	0.39	0.8	19.4	12.2	63	20.6	6.6	0.2
11-J2-102	Soil	30.3	5.34	1.06	4.49	0.69	4.26	0.77	2.33	0.33	2.23	0.35	0.6	7.8	20.9	159	17.0	8.1	4.3
11-J2-125	Soil	24.5	4.33	0.77	3.52	0.62	4.11	0.69	2.21	0.35	2.40	0.35	1.1	10.0	10.0	45	13.3	7.4	<0.1
11-J2-96	Soil	32.7	5.74	1.02	4.17	0.67	3.93	0.76	2.39	0.35	2.29	0.32	1.0	11.9	18.6	103	23.6	13.2	2.4
11-J2-100	Soil	28.6	4.50	0.79	3.55	0.56	3.40	0.65	1.98	0.31	1.85	0.30	1.0	10.3	32.2	105	16.3	10.9	1.9
11-J2-129	Soil	19.9	3.44	0.57	2.58	0.44	2.45	0.53	1.71	0.26	2.05	0.27	0.4	8.1	6.6	25	7.8	3.5	<0.1
11-J2-99	Soil	38.0	7.74	1.69	6.81	1.05	5.58	1.21	3.45	0.51	3.27	0.48	5.3	32.0	41.8	641	73.6	23.6	20.5
11-J2-70	Soil	17.9	3.06	0.56	2.46	0.44	2.66	0.60	1.90	0.29	1.69	0.28	1.5	6.3	10.4	33	7.2	7.8	<0.1
11-J2-74	Soil	18.5	3.06	0.60	2.67	0.49	3.16	0.67	1.99	0.32	1.88	0.29	1.3	4.7	7.3	12	2.6	7.8	<0.1
11-J2-65	Soil	30.3	5.58	1.07	4.75	0.76	4.35	0.91	2.51	0.44	2.99	0.44	1.0	11.5	11.4	33	13.6	6.6	<0.1
11-J2-73	Soil	24.2	4.33	0.83	3.47	0.59	3.59	0.73	2.18	0.36	2.45	0.34	1.7	8.1	13.9	45	10.1	9.0	0.1
11-J2-71	Soil	25.7	4.44	0.85	3.85	0.66	4.08	0.88	2.55	0.40	2.74	0.38	1.3	8.9	9.3	24	6.8	7.5	<0.1
11-J2-72	Soil	22.2	3.73	0.66	3.03	0.52	3.28	0.77	1.91	0.35	2.10	0.34	1.4	6.9	10.5	25	6.1	8.4	<0.1
11-J2-78	Soil	12.7	2.47	0.50	2.21	0.42	2.58	0.57	1.63	0.29	1.67	0.31	0.9	3.6	6.8	12	2.7	7.1	<0.1
11-J2-76	Soil	15.5	2.60	0.49	2.41	0.45	2.61	0.64	1.86	0.31	2.03	0.31	0.8	4.2	7.7	9	1.7	7.5	<0.1
11-J2-73	Soil	24.4	4.17	0.77	3.42	0.54	3.23	0.72	1.85	0.33	2.35	0.31	1.6	9.0	13.5	49	10.9	8.7	0.1
11-J2-77	Soil	15.3	2.45	0.47	2.21	0.41	2.41	0.61	1.74	0.26	1.55	0.28	1.1	3.4	6.6	12	2.8	5.2	<0.1
11-J2-88	Soil	10.9	1.92	0.37	1.62	0.29	1.75	0.43	1.08	0.20	1.20	0.23	1.2	4.7	4.7	21	3.5	5.9	<0.1
11-J2-79	Soil	17.6	3.21	0.57	2.72	0.49	3.24	0.71	1.95	0.29	2.12	0.32	1.4	8.4	9.5	30	9.1	8.8	<0.1
11-J2-67	Soil	24.6	4.59	0.83	3.97	0.66	3.63	0.79	2.06	0.36	2.32	0.36	1.6	8.4	14.8	39	9.7	8.1	0.1
11-J2-69	Soil	25.5	4.40	0.73	3.46	0.53	3.34	0.65	1.86	0.33	2.29	0.32	1.3	3.3	14.9	50	5.7	6.2	0.3
11-J2-81	Soil	22.7	4.16	0.79	3.40	0.59	3.23	0.71	2.14	0.35	2.17	0.31	1.8	6.1	12.5	55	10.0	10.6	0.2
11-J2-85	Soil	26.5	4.63	0.89	3.75	0.62	3.58	0.66	1.97	0.35	2.15	0.33	1.8	12.5	18.3	132	21.4	13.7	0.3
11-J2-89	Soil	12.3	2.11	0.42	1.75	0.31	1.90	0.41	1.13	0.20	1.36	0.19	1.7	7.2	8.1	66	7.1	7.6	0.3
11-J2-64	Soil	28.4	5.30	1.04	4.60	0.67	3.45	0.75	1.96	0.33	1.97	0.34	6.2	24.5	26.1	88	19.3	20.9	0.9
11-J2-68	Soil	30.2	4.95	0.93	4.09	0.67	3.52	0.79	2.28	0.40	2.52	0.36	1.5	6.9	14.2	49	7.6	6.1	0.1
11-J2-80	Soil	29.9	4.90	1.07	4.80	0.77	4.88	1.01	2.77	0.47	2.82	0.46	1.2	7.3	17.3	21	7.0	12.0	<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-J2-94	Soil	0.5	1.3	0.07	0.6	1.5
11-J2-95	Soil	0.2	1.0	0.03	0.1	0.7
11-J2-98	Soil	0.2	0.6	0.03	0.1	0.5
11-J2-127	Soil	<0.1	<0.5	0.03	0.1	<0.5
11-J2-102	Soil	0.1	<0.5	0.03	0.1	<0.5
11-J2-125	Soil	<0.1	13.3	0.02	<0.1	<0.5
11-J2-96	Soil	0.2	<0.5	0.03	0.1	<0.5
11-J2-100	Soil	0.1	0.8	0.03	0.1	<0.5
11-J2-129	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-99	Soil	2.3	1.5	0.19	0.5	3.8
11-J2-70	Soil	0.2	<0.5	0.02	0.1	0.5
11-J2-74	Soil	0.3	<0.5	0.03	<0.1	0.9
11-J2-65	Soil	<0.1	6.5	0.02	<0.1	<0.5
11-J2-73	Soil	0.6	<0.5	0.04	0.1	0.8
11-J2-71	Soil	0.1	1.3	0.04	<0.1	0.8
11-J2-72	Soil	0.3	<0.5	0.03	<0.1	0.6
11-J2-78	Soil	0.1	<0.5	0.02	<0.1	0.8
11-J2-76	Soil	0.1	<0.5	0.02	<0.1	0.5
11-J2-73	Soil	0.6	<0.5	0.05	0.1	0.7
11-J2-77	Soil	0.2	<0.5	0.02	<0.1	<0.5
11-J2-88	Soil	0.2	0.8	0.01	<0.1	<0.5
11-J2-79	Soil	0.5	1.1	0.03	<0.1	0.8
11-J2-67	Soil	0.4	2.0	0.12	0.1	0.5
11-J2-69	Soil	0.3	<0.5	0.01	0.1	<0.5
11-J2-81	Soil	0.7	<0.5	0.02	0.1	<0.5
11-J2-85	Soil	0.3	0.9	0.04	0.2	<0.5
11-J2-89	Soil	0.2	0.7	0.02	<0.1	0.6
11-J2-64	Soil	0.7	<0.5	0.06	0.4	1.4
11-J2-68	Soil	0.3	<0.5	0.02	0.2	<0.5
11-J2-80	Soil	0.7	<0.5	0.03	<0.1	1.0



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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	0.02
11-J2-86	Soil	971	4	3.3	3.8	14.8	8.0	14.8	83.5	3	117.0	1.3	10.7	3.0	155	3.1	319.8	23.0	36.9	73.5
11-J2-87	Soil	531	3	1.6	2.0	7.8	9.6	11.8	40.5	1	61.1	0.7	6.4	2.3	109	1.4	409.1	16.7	22.6	43.8
11-J2-84	Soil	411	4	1.6	1.5	7.0	10.7	11.8	31.1	2	54.1	0.7	5.8	2.3	88	1.0	450.6	17.9	20.7	40.0
11-J2-82	Soil	527	3	3.9	2.3	9.5	12.4	12.8	43.2	2	73.0	1.0	8.6	2.8	107	1.2	483.2	18.5	26.7	51.2
11-J2-90	Soil	675	2	2.0	3.0	11.7	8.6	14.3	58.2	2	94.8	0.9	8.0	2.4	109	1.1	292.2	18.0	28.4	55.8
11-J2-83	Soil	289	<1	1.4	0.9	4.4	9.5	8.8	22.4	1	42.1	0.6	4.5	1.6	52	0.8	330.5	11.2	14.9	28.1
11-J2-139	Soil	520	1	4.9	2.4	10.5	9.8	19.4	56.4	2	92.1	1.4	8.5	2.5	77	1.3	376.7	18.4	30.2	58.6
11-MGB-351	Soil	690	<1	7.6	6.9	14.6	9.4	19.9	86.4	7	95.4	1.3	13.6	4.8	112	226.9	353.4	26.3	45.0	86.6
11-MGB-352	Soil	604	1	8.3	11.5	12.2	5.8	10.8	143.7	2	86.6	0.8	9.4	2.6	64	20.1	208.1	18.7	26.8	51.1
11-MGB-353	Soil	549	1	7.0	6.5	10.5	6.0	12.1	99.4	2	88.8	0.7	9.0	2.5	66	9.6	232.8	18.5	28.3	55.5
11-MGB-414	Soil	677	2	7.2	1.3	4.8	11.9	7.2	23.3	1	42.1	0.6	5.6	2.2	83	1.3	465.2	14.8	22.8	41.2
11-J2-075	Soil	348	<1	1.0	1.2	5.1	11.2	8.0	23.1	1	42.1	0.7	5.2	1.9	58	1.0	412.6	15.7	16.5	31.3
11-J2-101	Soil	646	4	7.2	3.1	11.8	7.8	18.8	62.0	1	85.2	1.3	12.0	3.0	90	1.5	270.6	21.2	38.4	76.2
11-J2-103	Soil	933	<1	7.0	2.8	12.0	7.4	17.5	63.1	2	86.3	1.1	14.0	3.5	89	0.7	276.9	23.0	39.6	78.0
11-J2-138	Soil	425	<1	6.2	1.8	6.9	9.6	19.2	44.5	1	61.3	1.3	8.0	2.5	63	1.6	381.7	18.6	28.4	59.6



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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	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-J2-86	Soil	31.5	5.30	0.93	4.10	0.60	3.36	0.69	2.20	0.38	2.28	0.36	1.0	6.1	12.1	26	7.1	5.9	<0.1	<0.1
11-J2-87	Soil	17.9	2.72	0.55	2.73	0.41	2.67	0.52	1.65	0.27	1.93	0.27	0.9	5.0	7.2	21	5.0	4.8	<0.1	0.2
11-J2-84	Soil	16.9	2.94	0.54	2.21	0.42	2.86	0.57	1.78	0.29	1.85	0.32	0.9	4.5	6.4	16	2.8	5.9	<0.1	0.3
11-J2-82	Soil	19.5	3.67	0.70	2.74	0.48	2.88	0.65	1.87	0.32	1.88	0.30	1.6	7.6	12.7	59	11.3	7.3	0.1	0.5
11-J2-90	Soil	22.6	3.97	0.75	3.33	0.52	2.96	0.61	2.11	0.31	1.91	0.29	0.7	3.9	10.7	26	3.6	3.3	0.1	0.1
11-J2-83	Soil	10.4	1.88	0.33	1.56	0.28	1.95	0.36	1.15	0.18	1.13	0.18	0.7	3.1	5.0	14	3.0	3.3	<0.1	0.2
11-J2-139	Soil	24.4	3.91	0.69	3.34	0.53	3.45	0.64	1.94	0.33	1.87	0.31	0.7	6.4	9.1	45	11.1	4.1	0.1	0.2
11-MGB-351	Soil	36.3	5.99	1.29	5.18	0.77	4.41	0.87	2.43	0.40	2.34	0.42	5.9	45.6	135.4	642	19.5	54.5	4.4	0.7
11-MGB-352	Soil	23.9	4.25	1.00	3.69	0.56	3.33	0.66	1.81	0.27	1.80	0.25	8.4	38.1	327.9	892	13.4	43.8	1.3	1.2
11-MGB-353	Soil	25.8	4.30	0.97	3.85	0.58	3.25	0.69	1.88	0.30	1.87	0.27	4.2	22.7	113.8	259	13.1	16.2	1.0	0.6
11-MGB-414	Soil	18.4	2.81	0.48	2.52	0.37	2.21	0.47	1.37	0.22	1.75	0.25	3.0	5.4	5.2	38	8.1	9.6	0.2	0.4
11-J2-075	Soil	13.6	2.55	0.46	2.12	0.38	2.42	0.54	1.56	0.28	1.72	0.27	0.9	4.7	5.5	14	2.7	6.0	<0.1	0.2
11-J2-101	Soil	33.2	5.28	1.07	4.20	0.65	3.88	0.67	2.19	0.34	1.92	0.32	0.8	7.3	20.0	118	16.8	10.4	2.5	0.3
11-J2-103	Soil	33.7	6.21	1.26	5.01	0.79	4.65	0.81	2.79	0.38	2.46	0.39	0.6	6.4	15.3	156	26.8	7.7	1.1	0.3
11-J2-138	Soil	26.7	4.15	0.82	3.57	0.56	3.33	0.69	2.06	0.30	2.15	0.31	0.6	9.3	12.8	33	13.8	4.1	<0.1	0.3



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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-J2-86	Soil	0.3	<0.5	0.03	0.1	<0.5
11-J2-87	Soil	0.2	<0.5	0.02	<0.1	<0.5
11-J2-84	Soil	0.2	<0.5	0.02	<0.1	<0.5
11-J2-82	Soil	0.5	0.6	0.05	<0.1	0.6
11-J2-90	Soil	0.4	<0.5	0.02	<0.1	<0.5
11-J2-83	Soil	0.3	0.7	0.02	<0.1	0.7
11-J2-139	Soil	<0.1	4.3	0.02	<0.1	<0.5
11-MGB-351	Soil	3.2	5.2	0.08	0.4	<0.5
11-MGB-352	Soil	0.8	3.6	0.05	1.5	<0.5
11-MGB-353	Soil	0.4	2.7	0.03	0.4	<0.5
11-MGB-414	Soil	0.2	1.5	0.03	<0.1	0.9
11-J2-075	Soil	<0.1	34.8	0.01	<0.1	1.0
11-J2-101	Soil	0.1	2.1	0.02	0.1	<0.5
11-J2-103	Soil	0.2	2.3	0.05	0.2	<0.5
11-J2-138	Soil	<0.1	1.7	0.02	<0.1	<0.5



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Part 1

QUALITY CONTROL REPORT

VAN11004020.1

	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	0.02	
Pulp Duplicates																					
11-MGB-357	Soil	648	7	6.0	9.9	12.4	6.2	13.5	129.7	<1	101.3	0.9	9.2	2.7	81	8.3	212.3	19.3	27.3	51.1	6.20
REP 11-MGB-357	QC																				
11-MGB-355	Soil	618	<1	6.9	6.3	11.3	6.4	13.6	89.0	<1	95.2	0.9	10.1	3.8	76	6.8	247.2	22.0	30.1	58.7	6.94
REP 11-MGB-355	QC	620	5	6.0	6.1	10.8	7.7	13.4	90.9	<1	95.1	0.9	9.8	3.5	77	6.7	249.1	21.6	30.0	58.0	6.72
11-MGB-354	Soil	568	<1	7.1	7.0	11.1	5.7	12.3	97.3	1	96.7	0.9	8.8	2.8	75	33.0	259.5	22.2	30.5	57.4	7.08
REP 11-MGB-354	QC	548	2	7.1	6.8	11.2	7.0	12.8	96.3	1	93.8	1.2	8.6	3.0	77	31.3	269.4	20.6	30.7	57.4	7.03
11-MGB-394	Soil	575	3	6.2	4.6	11.4	7.1	15.3	80.8	2	72.6	1.0	9.0	3.0	86	1.8	306.7	18.3	28.2	54.6	6.40
REP 11-MGB-394	QC																				
11-MGB-380	Soil	619	<1	6.9	4.0	13.6	8.4	20.7	74.2	2	90.6	1.2	12.8	3.6	66	1.6	307.8	24.2	38.5	83.7	8.62
REP 11-MGB-380	QC																				
11-J2-57	Soil	559	1	24.9	5.5	14.7	5.6	21.9	83.6	1	98.8	1.4	8.1	2.2	137	2.8	223.1	24.2	32.4	62.9	7.80
REP 11-J2-57	QC	545	5	23.8	6.0	15.4	6.3	22.1	82.2	2	99.8	1.3	7.6	2.2	126	3.5	218.3	23.4	30.8	59.0	7.70
11-J2-63	Soil	688	5	32.3	8.2	17.5	5.8	26.2	72.8	2	98.1	1.5	8.1	1.8	233	3.0	218.7	25.3	35.3	71.5	8.60
REP 11-J2-63	QC																				
11-J2-32	Soil	363	1	4.4	2.1	6.0	2.5	8.5	32.9	1	74.5	0.5	5.1	2.4	41	0.7	91.5	11.6	21.8	45.9	4.61
REP 11-J2-32	QC	370	<1	4.4	2.0	6.2	2.8	9.5	34.6	<1	76.3	0.5	5.5	2.3	39	0.9	97.7	12.3	21.6	45.4	4.48
11-J2-93	Soil	943	3	7.8	3.4	12.0	6.9	19.8	81.0	2	76.2	1.2	10.8	3.3	155	1.0	281.6	19.2	31.0	66.8	7.15
REP 11-J2-93	QC	976	2	8.2	3.8	12.5	7.2	18.7	82.7	2	79.3	1.3	10.8	3.4	159	1.0	279.7	19.5	33.6	69.8	7.44
11-J2-126	Soil	353	2	4.1	3.0	10.0	10.5	17.7	62.2	3	106.3	1.2	9.1	2.6	69	1.5	397.7	22.3	28.5	58.7	6.92
REP 11-J2-126	QC																				
11-J2-90	Soil	675	2	2.0	3.0	11.7	8.6	14.3	58.2	2	94.8	0.9	8.0	2.4	109	1.1	292.2	18.0	28.4	55.8	6.54
REP 11-J2-90	QC	688	2	2.3	3.1	11.6	6.9	14.0	60.4	1	95.9	0.9	8.2	2.4	121	1.2	293.8	18.1	30.2	59.0	6.81
Reference Materials																					
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				
STD DS8	Standard																				



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Part 2

QUALITY CONTROL REPORT

VAN11004020.1

	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-MGB-357	Soil	25.4	4.00	0.93	3.58	0.59	2.71	0.59	1.93	0.28	1.97	0.31	8.4	28.9	130.8	305	12.8	14.3	0.9	0.7
REP 11-MGB-357	QC												8.5	29.4	139.2	311	12.9	14.2	1.1	0.7
11-MGB-355	Soil	30.0	4.61	1.01	4.06	0.64	3.20	0.72	2.25	0.30	2.03	0.30	3.6	35.5	103.9	345	14.3	14.1	1.6	0.6
REP 11-MGB-355	QC	27.4	4.39	0.96	3.98	0.64	3.69	0.74	2.12	0.33	2.27	0.31								
11-MGB-354	Soil	24.5	4.49	0.94	3.73	0.58	3.37	0.69	2.01	0.31	2.05	0.26	5.0	22.3	123.8	353	13.9	19.3	1.2	0.7
REP 11-MGB-354	QC	25.7	4.73	0.94	3.83	0.59	3.15	0.63	1.87	0.29	1.91	0.28								
11-MGB-394	Soil	23.4	4.20	0.89	3.58	0.55	3.10	0.58	1.78	0.27	1.79	0.28	0.4	9.2	13.5	128	16.4	12.4	0.4	0.3
REP 11-MGB-394	QC												0.4	8.9	13.5	127	16.0	12.4	0.4	0.3
11-MGB-380	Soil	31.0	5.49	1.07	4.49	0.74	4.03	0.82	2.45	0.37	2.41	0.36	0.9	9.5	22.1	108	18.2	12.3	0.4	0.4
REP 11-MGB-380	QC												0.8	9.0	21.4	104	17.5	11.6	0.4	0.5
11-J2-57	Soil	33.1	6.25	1.74	5.47	0.88	4.72	0.95	2.56	0.37	2.54	0.33	0.7	45.5	18.9	112	50.5	8.2	0.3	0.4
REP 11-J2-57	QC	34.8	6.04	1.74	5.61	0.86	4.49	0.91	2.32	0.36	2.53	0.34								
11-J2-63	Soil	34.0	6.27	1.76	5.78	0.90	5.12	0.95	2.80	0.37	2.24	0.33	0.8	60.3	34.3	120	84.6	13.9	0.3	0.5
REP 11-J2-63	QC												0.8	60.2	34.6	120	83.7	13.9	0.3	0.5
11-J2-32	Soil	16.1	2.90	0.57	2.36	0.34	1.69	0.37	1.15	0.15	1.01	0.18	1.1	7.5	25.6	136	8.5	4.8	0.8	0.5
REP 11-J2-32	QC	15.4	2.92	0.57	2.45	0.38	1.93	0.39	1.20	0.15	1.08	0.17								
11-J2-93	Soil	26.0	4.43	0.86	3.29	0.54	3.40	0.62	1.89	0.32	1.83	0.29	2.7	13.8	17.0	192	22.5	10.0	3.8	0.8
REP 11-J2-93	QC	26.7	4.68	0.84	3.54	0.58	3.57	0.72	2.05	0.32	2.04	0.32								
11-J2-126	Soil	27.9	4.42	0.83	3.74	0.64	3.81	0.74	2.39	0.36	2.37	0.35	0.6	12.1	6.4	26	9.1	3.8	<0.1	0.3
REP 11-J2-126	QC												0.6	12.2	6.9	25	8.8	3.7	<0.1	0.3
11-J2-90	Soil	22.6	3.97	0.75	3.33	0.52	2.96	0.61	2.11	0.31	1.91	0.29	0.7	3.9	10.7	26	3.6	3.3	0.1	0.1
REP 11-J2-90	QC	24.4	4.16	0.69	3.20	0.51	3.22	0.63	1.76	0.29	1.76	0.29								
Reference Materials																				
STD DS8	Standard												12.5	108.9	117.9	309	39.3	24.5	2.2	4.4
STD DS8	Standard												14.1	126.5	135.2	323	38.7	26.7	2.5	5.6
STD DS8	Standard												13.1	122.3	125.6	307	36.4	25.2	2.3	5.6
STD DS8	Standard												13.2	125.0	132.0	309	37.5	25.1	2.1	5.3
STD DS8	Standard												13.7	120.9	119.7	321	38.6	25.9	2.8	5.2



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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-MGB-357	Soil	0.8	2.2	0.05	0.4	<0.5
REP 11-MGB-357	QC	0.7	2.5	0.05	0.4	0.7
11-MGB-355	Soil	0.6	4.2	0.05	0.3	0.6
REP 11-MGB-355	QC					
11-MGB-354	Soil	0.5	5.2	0.03	0.3	<0.5
REP 11-MGB-354	QC					
11-MGB-394	Soil	0.1	1.6	0.04	0.4	<0.5
REP 11-MGB-394	QC	0.1	0.9	0.03	0.4	<0.5
11-MGB-380	Soil	0.1	<0.5	0.04	0.3	<0.5
REP 11-MGB-380	QC	<0.1	<0.5	0.03	0.3	<0.5
11-J2-57	Soil	0.2	0.6	0.05	0.4	0.7
REP 11-J2-57	QC					
11-J2-63	Soil	0.2	0.5	0.04	0.5	<0.5
REP 11-J2-63	QC	0.2	1.4	0.05	0.5	<0.5
11-J2-32	Soil	0.1	<0.5	0.06	<0.1	<0.5
REP 11-J2-32	QC					
11-J2-93	Soil	<0.1	2.2	0.02	0.2	0.6
REP 11-J2-93	QC					
11-J2-126	Soil	<0.1	2.2	0.01	<0.1	<0.5
REP 11-J2-126	QC	<0.1	0.8	0.02	<0.1	<0.5
11-J2-90	Soil	0.4	<0.5	0.02	<0.1	<0.5
REP 11-J2-90	QC					
Reference Materials						
STD DS8	Standard	1.8	125.8	0.19	5.3	5.2
STD DS8	Standard	1.9	96.6	0.20	5.4	4.9
STD DS8	Standard	1.8	88.9	0.17	5.2	5.2
STD DS8	Standard	1.6	100.5	0.21	5.4	4.8
STD DS8	Standard	1.9	142.0	0.21	5.5	5.2



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Part 1

QUALITY CONTROL REPORT

VAN11004020.1

		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 OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD OREAS45CA	Standard																				
STD SO-18	Standard	535	3	27.6	7.1	16.7	9.3	21.2	27.3	15	410.9	7.2	10.1	16.3	201	14.0	286.5	30.3	11.8	27.0	3.29
STD SO-18	Standard	537	<1	27.7	7.3	17.8	9.6	20.8	27.8	16	423.3	7.2	10.7	16.1	201	14.3	290.7	31.0	12.0	27.3	3.42
STD SO-18	Standard	509	<1	26.3	6.5	16.8	9.0	19.8	26.2	11	392.3	6.9	9.7	15.6	194	12.4	271.6	31.5	11.3	25.5	3.13
STD SO-18	Standard	495	3	26.3	6.6	17.0	9.2	20.4	26.4	12	396.9	7.0	9.8	15.6	189	13.8	276.9	32.1	11.5	25.5	3.11
STD SO-18	Standard	522	2	27.0	7.1	17.0	9.5	19.5	27.3	15	399.7	7.0	10.3	15.5	196	13.6	281.9	30.0	12.0	26.9	3.23
STD SO-18	Standard	497	3	26.9	6.5	17.2	9.2	19.7	26.8	14	403.0	7.0	10.5	16.1	184	13.8	278.6	29.9	11.4	26.5	3.14
STD SO-18	Standard	521	<1	27.8	6.9	17.5	10.1	19.9	27.6	14	417.2	7.4	10.2	16.4	175	13.7	281.3	30.1	11.7	25.8	3.25
STD SO-18	Standard	512	<1	27.5	6.7	17.6	9.3	19.7	27.4	14	407.6	7.1	10.4	16.5	197	13.4	277.4	29.9	11.4	25.3	3.16
STD SO-18	Standard	547	4	28.8	7.0	18.5	9.4	21.5	28.7	15	428.4	7.3	10.6	16.5	223	14.3	290.4	30.5	12.3	26.8	3.39
STD SO-18	Standard	515	1	27.0	6.6	17.5	9.2	20.0	27.1	14	410.3	7.2	10.1	16.5	204	13.3	282.5	30.7	11.9	26.0	3.22
STD SO-18	Standard	517	2	26.8	6.9	17.5	8.2	20.5	28.0	15	418.8	6.8	9.6	15.1	210	13.5	295.8	31.1	11.9	25.5	3.28
STD SO-18	Standard	514	1	27.0	6.8	17.9	8.9	20.8	27.7	14	417.9	7.0	9.5	14.9	209	13.5	290.9	31.1	11.8	25.3	3.21
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																				
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



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Part 2

QUALITY CONTROL REPORT

VAN11004020.1

		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												13.2	115.5	118.9	316	40.9	24.8	2.5
STD DS8	Standard												13.8	108.9	129.3	301	37.0	23.7	2.4
STD OREAS45CA	Standard												0.9	484.7	18.8	59	233.8	4.4	<0.1
STD OREAS45CA	Standard												1.1	494.6	22.9	70	249.7	4.0	<0.1
STD OREAS45CA	Standard												0.9	476.2	21.8	63	238.3	4.0	0.1
STD OREAS45CA	Standard												0.8	511.2	23.7	67	254.3	4.0	<0.1
STD OREAS45CA	Standard												0.9	487.1	18.8	61	235.2	4.0	0.1
STD OREAS45CA	Standard												0.9	530.1	21.9	66	268.3	3.9	<0.1
STD OREAS45CA	Standard												1.1	487.7	20.5	62	231.9	4.0	0.1
STD SO-18	Standard	13.1	2.83	0.85	2.84	0.50	3.10	0.62	1.87	0.27	1.93	0.27							
STD SO-18	Standard	12.8	2.89	0.90	2.81	0.49	3.19	0.63	1.86	0.29	1.82	0.26							
STD SO-18	Standard	13.5	2.83	0.85	2.75	0.49	2.91	0.57	1.63	0.24	1.68	0.25							
STD SO-18	Standard	14.7	2.74	0.87	2.88	0.48	2.69	0.57	1.79	0.27	1.62	0.26							
STD SO-18	Standard	12.9	2.90	0.85	2.97	0.47	2.91	0.64	1.76	0.28	1.77	0.29							
STD SO-18	Standard	11.0	2.90	0.84	2.81	0.47	2.94	0.58	1.84	0.27	1.61	0.26							
STD SO-18	Standard	13.6	2.98	0.87	2.95	0.48	2.87	0.60	1.73	0.27	1.75	0.27							
STD SO-18	Standard	12.2	2.83	0.80	2.71	0.48	2.93	0.60	1.74	0.27	1.75	0.26							
STD SO-18	Standard	14.1	3.15	0.89	3.01	0.50	3.01	0.66	1.80	0.28	1.96	0.29							
STD SO-18	Standard	14.0	2.91	0.87	2.74	0.48	2.86	0.60	1.71	0.28	1.81	0.27							
STD SO-18	Standard	13.1	2.91	0.85	2.80	0.48	2.89	0.57	1.74	0.27	1.80	0.25							
STD SO-18	Standard	12.8	2.71	0.81	2.86	0.47	2.81	0.56	1.79	0.26	1.84	0.26							
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												<0.1	<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							



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QUALITY CONTROL REPORT

VAN11004020.1

		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 DS8	Standard	1.8	101.3	0.21	5.6	5.3
STD DS8	Standard	1.7	118.2	0.20	5.4	4.8
STD OREAS45CA	Standard	0.3	52.7	0.03	0.1	<0.5
STD OREAS45CA	Standard	0.3	44.0	0.04	<0.1	0.6
STD OREAS45CA	Standard	0.2	42.4	0.03	<0.1	0.9
STD OREAS45CA	Standard	0.3	46.2	0.04	<0.1	0.9
STD OREAS45CA	Standard	0.3	42.0	0.03	<0.1	1.1
STD OREAS45CA	Standard	0.3	44.8	0.03	<0.1	0.7
STD OREAS45CA	Standard	0.3	40.9	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	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	<0.1	3.5	<0.01	<0.1	<0.5
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					



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Part 1

QUALITY CONTROL REPORT

VAN11004020.1

		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	0.7	<0.1	<0.1	<0.1	<0.02
BLK	Blank																				
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



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QUALITY CONTROL REPORT

VAN11004020.1

		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
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
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
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

VAN11004020.1

		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	<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					



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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: August 17, 2011

Report Date: November 22, 2011

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CERTIFICATE OF ANALYSIS

VAN11004021.1

CLIENT JOB INFORMATION

Project: TING 2A
Shipment ID: 11545800604
P.O. Number
Number of Samples: 183

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
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	183	Dry at 60C			VAN
SS80	183	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	183	Saving all or part of Soil Reject			VAN
4B02	183	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

VAN11004021.1

	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-426	Soil	2886	2	32.2	3.4	6.0	4.1	8.9	50.2	<1	60.5	0.6	5.5	7.4	575	0.7	151.8	35.1	21.8
11-MGB-428	Soil	942	<1	9.1	4.2	13.8	7.5	19.6	79.3	2	119.4	1.4	11.1	2.9	103	1.6	267.8	20.5	37.4
11-MGB-430	Soil	815	<1	13.2	8.9	14.2	6.4	26.5	114.2	2	27.3	1.6	12.8	3.9	131	1.2	224.5	49.1	66.2
11-MGB-429	Soil	1008	<1	14.0	6.6	15.4	7.4	29.1	106.5	3	55.6	1.9	13.3	3.1	143	1.8	276.5	26.5	45.7
11-MGB-433	Soil	263	<1	2.4	1.0	3.5	2.2	8.3	24.2	<1	66.8	0.4	3.1	2.3	40	<0.5	81.1	8.0	11.7
11-J2-123	Soil	1215	4	81.1	4.4	7.2	3.1	8.6	54.1	<1	54.3	0.5	5.0	12.7	1008	0.7	112.1	27.6	21.2
11-J2-121	Soil	522	<1	277.0	2.1	5.7	3.0	7.5	46.5	1	59.2	0.6	5.4	44.6	252	0.6	114.7	17.4	20.0
11-J2-187	Soil	494	<1	6.6	2.8	10.8	9.1	23.4	62.4	2	91.7	1.5	8.9	2.7	87	1.5	323.3	21.8	35.9
11-J2-189	Soil	648	2	13.0	3.7	15.8	6.8	25.1	87.3	3	112.9	1.7	12.8	4.2	115	1.5	273.2	27.9	39.4
11-J2-181	Soil	297	<1	10.2	2.2	10.2	7.5	25.4	55.2	2	51.7	1.5	8.2	2.3	89	1.6	292.8	18.1	33.6
11-J2-179	Soil	496	1	4.1	2.7	12.3	9.0	21.4	57.0	2	90.1	1.5	8.2	2.5	94	1.5	318.7	18.3	34.0
11-J2-177	Soil	443	2	7.2	2.3	13.1	8.8	22.6	58.6	3	68.5	1.5	9.2	2.7	117	1.6	318.1	19.5	30.7
11-J2-153	Soil	376	<1	6.9	2.2	8.4	9.0	17.6	54.9	2	48.5	1.1	8.2	2.2	74	1.5	332.1	17.8	27.9
11-J2-182	Soil	311	1	8.6	3.1	10.1	8.6	26.7	66.9	2	51.8	1.7	10.5	3.3	89	1.3	307.9	23.0	34.1
11-J2-188	Soil	303	1	14.7	3.6	10.4	8.9	23.0	58.7	2	42.8	1.4	9.9	2.4	92	1.6	326.8	28.6	36.7
11-J2-184	Soil	245	1	29.5	6.1	14.1	8.4	27.3	88.5	2	40.6	1.7	11.7	3.6	119	2.2	316.2	26.1	34.2
11-J2-176	Soil	273	<1	5.6	2.4	10.9	8.4	25.1	65.6	2	49.2	1.6	9.2	2.7	101	1.4	327.7	23.4	30.2
11-J2-183	Soil	576	1	9.1	3.2	12.7	9.8	20.2	75.8	3	98.0	1.5	9.1	3.2	86	1.4	383.0	18.5	28.6
11-J2-185	Soil	514	1	8.6	2.8	11.7	9.5	24.4	58.3	2	97.9	1.5	10.3	2.9	87	1.6	372.1	24.2	39.1
11-J2-174	Soil	275	<1	5.8	1.9	10.3	7.6	20.5	49.0	2	59.5	1.3	7.3	2.0	111	2.8	295.1	17.0	25.7
11-J2-157	Soil	268	<1	3.9	1.4	5.4	10.0	15.0	37.9	1	58.3	1.2	6.1	2.1	55	1.2	403.1	16.2	22.0
11-J2-190	Soil	346	<1	8.3	2.7	9.3	8.0	21.7	56.4	2	58.2	1.4	10.4	2.8	76	1.5	297.0	20.8	34.9
11-J2-117	Soil	685	2	7.9	2.8	12.2	7.5	18.3	64.0	2	123.1	1.1	11.5	2.7	86	1.1	270.4	21.2	37.7
11-J2-134	Soil	334	<1	1.8	4.2	13.1	11.3	20.0	73.1	3	52.7	1.3	10.1	2.7	73	2.2	428.1	28.5	35.7
11-J2-118	Soil	464	<1	7.6	2.7	9.8	6.5	22.8	63.0	1	79.3	1.4	10.2	2.5	80	1.3	229.2	23.6	37.8
11-J2-119	Soil	2002	1	45.4	2.8	5.3	4.1	10.9	39.9	<1	62.9	0.7	4.8	3.6	451	0.6	159.1	32.6	19.4
11-J2-92	Soil	988	2	11.1	3.6	13.5	6.9	18.2	79.2	2	102.7	1.3	12.4	3.8	135	1.6	280.9	26.2	41.1
11-J2-122	Soil	597	<1	24.2	2.5	4.3	2.0	6.5	36.7	<1	38.2	0.3	3.8	12.8	319	0.6	88.9	67.3	17.7
11-J2-120	Soil	499	2	15.3	1.3	2.2	1.0	3.8	16.3	<1	51.3	0.3	1.8	18.0	380	<0.5	41.9	31.0	8.6
11-J2-128	Soil	353	<1	4.6	3.0	9.9	10.0	20.7	52.1	2	61.8	1.2	7.8	2.3	74	1.4	378.8	18.0	25.4



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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	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-426	Soil	21.4	4.20	0.85	4.26	0.65	3.82	0.90	2.56	0.40	2.46	0.39	23.5	73.4	19.2	3597	529.5	30.7	99.0	8.2
11-MGB-428	Soil	29.1	4.89	0.89	4.17	0.62	3.56	0.76	2.07	0.33	2.02	0.33	0.6	5.2	14.7	77	14.3	7.1	0.9	0.2
11-MGB-430	Soil	71.8	13.43	3.02	12.20	1.75	8.94	1.70	4.38	0.61	3.71	0.58	1.2	12.3	12.5	63	60.5	39.7	1.1	0.3
11-MGB-429	Soil	41.4	7.22	1.56	5.90	0.94	5.32	1.07	2.81	0.46	3.23	0.42	0.7	11.3	14.5	99	36.3	25.2	1.1	0.2
11-MGB-433	Soil	11.0	1.70	0.37	1.54	0.22	1.35	0.26	0.73	0.11	0.68	0.11	3.3	20.4	3.4	314	49.9	0.9	23.1	0.3
11-J2-123	Soil	20.2	3.73	0.77	3.52	0.55	3.12	0.69	2.17	0.31	2.00	0.34	101.9	75.0	10.0	3207	495.3	60.4	81.7	10.2
11-J2-121	Soil	17.5	3.15	0.64	2.97	0.46	2.58	0.55	1.64	0.25	1.43	0.22	294.0	38.3	6.2	>10000	2725	37.0	26.5	5.5
11-J2-187	Soil	29.1	4.58	0.89	3.98	0.61	3.61	0.76	2.35	0.37	2.36	0.37	0.5	7.8	12.0	36	10.8	3.5	0.1	0.1
11-J2-189	Soil	34.7	6.26	1.23	5.57	0.88	5.04	0.95	2.99	0.48	2.88	0.44	1.2	20.0	19.1	78	21.3	10.2	0.3	0.5
11-J2-181	Soil	28.2	4.56	0.90	3.61	0.60	3.49	0.72	1.93	0.31	2.19	0.31	0.8	19.0	15.9	28	15.8	8.3	0.1	0.2
11-J2-179	Soil	28.5	4.39	0.80	3.43	0.55	3.07	0.76	1.98	0.32	2.15	0.32	0.7	4.5	9.3	30	8.0	3.3	<0.1	0.1
11-J2-177	Soil	27.0	4.34	0.82	3.63	0.58	3.66	0.74	2.18	0.36	2.37	0.36	0.8	6.9	14.1	54	9.5	3.4	0.2	0.2
11-J2-153	Soil	26.6	4.23	0.79	3.53	0.57	3.38	0.68	2.02	0.30	2.14	0.35	0.8	10.4	10.4	39	12.4	4.4	0.2	0.3
11-J2-182	Soil	31.6	5.27	1.11	4.85	0.75	4.49	0.88	2.54	0.41	2.36	0.36	0.5	18.5	17.7	37	18.9	6.6	0.1	0.2
11-J2-188	Soil	34.3	6.06	1.34	5.48	0.90	5.26	1.05	3.00	0.48	3.05	0.44	0.4	32.7	14.2	34	24.4	4.4	0.2	0.3
11-J2-184	Soil	29.7	5.51	1.23	4.91	0.79	4.79	0.91	2.69	0.45	2.62	0.40	0.6	48.4	14.9	41	55.8	10.6	0.1	0.3
11-J2-176	Soil	29.2	4.69	0.97	4.24	0.67	4.20	0.83	2.54	0.40	2.39	0.37	0.8	22.8	10.8	44	11.2	4.4	0.3	0.2
11-J2-183	Soil	25.7	3.88	0.79	3.21	0.52	3.00	0.67	1.95	0.34	2.04	0.34	0.5	8.3	11.4	44	15.6	4.8	0.1	0.1
11-J2-185	Soil	32.4	5.75	1.22	4.94	0.81	4.86	0.96	2.64	0.40	2.80	0.41	0.4	21.6	11.9	44	17.9	5.2	0.1	0.2
11-J2-174	Soil	25.6	4.13	0.83	3.28	0.52	3.16	0.66	2.15	0.30	2.31	0.32	0.7	26.5	11.8	36	9.2	6.4	0.1	1.1
11-J2-157	Soil	21.2	3.31	0.66	3.01	0.49	3.01	0.64	1.87	0.29	1.83	0.32	0.6	7.2	7.5	21	8.1	3.6	<0.1	0.2
11-J2-190	Soil	32.8	5.23	1.09	4.55	0.71	4.32	0.84	2.50	0.36	2.63	0.37	0.5	19.3	16.5	39	15.9	6.4	0.2	0.2
11-J2-117	Soil	34.6	5.44	1.08	4.61	0.67	4.00	0.80	2.23	0.35	2.32	0.34	0.6	6.1	18.7	137	22.7	7.5	1.5	0.2
11-J2-134	Soil	36.3	5.41	1.02	4.26	0.73	4.75	0.98	2.97	0.48	3.41	0.50	0.3	5.1	4.4	15	3.3	1.0	<0.1	0.1
11-J2-118	Soil	31.7	5.34	1.07	4.33	0.67	3.74	0.76	2.12	0.34	2.10	0.35	0.9	8.4	20.3	177	32.0	8.1	4.3	0.5
11-J2-119	Soil	19.5	3.39	0.70	3.18	0.51	3.06	0.72	2.22	0.34	2.06	0.35	42.6	49.9	9.6	3883	447.4	71.8	83.9	4.5
11-J2-92	Soil	36.5	6.07	1.24	5.36	0.80	4.64	0.91	2.61	0.42	2.62	0.40	1.7	14.5	18.1	131	23.5	11.8	2.7	0.6
11-J2-122	Soil	20.3	3.88	0.89	4.38	0.70	4.76	1.16	3.79	0.55	3.48	0.51	14.4	52.2	10.8	1195	404.2	11.0	40.0	6.6
11-J2-120	Soil	12.6	2.27	0.52	2.68	0.38	2.53	0.62	1.87	0.30	1.77	0.27	67.0	229.9	4.0	3924	858.8	5.9	177.7	11.0
11-J2-128	Soil	22.5	3.42	0.68	2.68	0.48	2.82	0.63	1.88	0.31	2.14	0.32	0.7	10.4	11.2	65	13.2	4.6	0.2	0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte	Unit	1DX	1DX	1DX	1DX	1DX
			Ag	Au	Hg	Tl	Se
			ppm	ppb	ppm	ppm	ppm
			MDL	MDL	MDL	MDL	MDL
11-MGB-426	Soil		1.0	3.8	0.22	5.3	9.6
11-MGB-428	Soil		<0.1	1.1	0.03	<0.1	<0.5
11-MGB-430	Soil		<0.1	<0.5	0.03	0.1	<0.5
11-MGB-429	Soil		<0.1	<0.5	0.01	0.1	<0.5
11-MGB-433	Soil		<0.1	<0.5	0.03	0.2	4.6
11-J2-123	Soil		0.4	<0.5	0.12	8.6	7.6
11-J2-121	Soil		0.2	<0.5	0.08	17.4	8.4
11-J2-187	Soil		<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-189	Soil		<0.1	<0.5	0.02	0.1	<0.5
11-J2-181	Soil		<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-179	Soil		<0.1	<0.5	<0.01	0.1	<0.5
11-J2-177	Soil		<0.1	<0.5	<0.01	0.1	<0.5
11-J2-153	Soil		<0.1	<0.5	0.02	<0.1	<0.5
11-J2-182	Soil		<0.1	<0.5	0.03	0.1	<0.5
11-J2-188	Soil		<0.1	<0.5	0.04	<0.1	<0.5
11-J2-184	Soil		<0.1	<0.5	0.04	0.2	<0.5
11-J2-176	Soil		<0.1	<0.5	0.01	<0.1	<0.5
11-J2-183	Soil		<0.1	<0.5	<0.01	0.1	<0.5
11-J2-185	Soil		0.1	5.6	0.05	<0.1	<0.5
11-J2-174	Soil		<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-157	Soil		<0.1	<0.5	0.01	<0.1	<0.5
11-J2-190	Soil		<0.1	<0.5	0.02	0.1	<0.5
11-J2-117	Soil		<0.1	<0.5	0.02	0.1	<0.5
11-J2-134	Soil		<0.1	<0.5	0.01	<0.1	<0.5
11-J2-118	Soil		<0.1	<0.5	0.03	<0.1	<0.5
11-J2-119	Soil		0.4	<0.5	0.19	8.1	19.8
11-J2-92	Soil		0.2	<0.5	0.04	0.2	<0.5
11-J2-122	Soil		0.4	<0.5	0.13	2.1	8.2
11-J2-120	Soil		2.1	<0.5	0.67	7.9	54.1
11-J2-128	Soil		<0.1	<0.5	0.02	<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					
					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-J2-135	Soil				258	2	2.9	2.0	6.9	11.5	20.2	45.2	1	39.0	1.3	7.5	2.1	57	1.2	428.8	16.4	25.7	53.9	6.27		
11-J2-105	Soil				791	2	8.8	5.1	13.3	8.0	29.3	89.3	2	67.4	1.7	12.7	3.2	97	1.9	291.6	22.5	37.5	75.1	8.21		
11-J2-124	Soil				542	3	8.6	3.4	12.4	7.9	19.8	67.4	2	85.1	1.4	10.9	2.7	95	1.4	296.6	20.4	29.7	58.3	6.76		
11-J2-104	Soil				819	2	9.7	3.5	13.1	7.8	17.4	76.6	2	116.4	1.3	12.0	2.9	95	2.5	269.6	24.1	41.9	87.2	9.68		
11-J2-137	Soil				485	<1	4.8	3.8	13.9	8.9	20.5	61.0	2	76.9	1.4	9.0	2.7	98	1.6	322.5	18.5	28.4	56.9	6.55		
11-J2-116	Soil				631	<1	7.8	3.2	12.2	8.1	21.5	68.7	2	98.1	1.4	11.9	2.8	89	1.6	288.6	24.0	44.5	91.1	10.05		
11-J2-130	Soil				278	<1	2.1	2.0	7.1	11.8	14.7	42.0	2	49.7	0.8	7.2	2.3	36	1.8	429.5	17.8	26.8	53.6	6.37		
11-J2-132	Soil				462	1	2.5	2.4	13.7	9.0	24.8	50.5	2	96.9	1.6	8.6	2.7	74	1.4	355.4	20.6	31.9	64.2	7.40		
11-J2-111	Soil				857	<1	11.4	5.4	15.4	7.4	30.9	104.2	2	52.2	2.0	14.0	3.4	124	1.4	277.4	30.3	48.4	84.9	11.16		
11-J2-107	Soil				843	3	14.6	5.7	14.0	9.0	31.4	91.4	2	51.8	1.8	13.1	3.2	140	1.8	317.9	32.6	50.1	87.7	11.36		
11-J2-141	Soil				275	2	2.3	1.5	6.6	12.1	15.7	42.3	1	43.0	1.1	7.7	2.5	47	2.0	410.2	18.1	27.2	54.0	6.26		
11-J2-140	Soil				485	<1	3.3	2.2	9.0	10.7	17.8	53.8	1	78.4	1.2	8.4	2.3	71	1.2	406.9	18.8	29.1	60.0	6.82		
11-J2-144	Soil				267	<1	1.9	2.5	8.9	11.1	17.8	53.3	2	50.6	1.1	9.5	2.4	50	1.6	396.1	21.8	31.9	65.1	7.60		
11-J2-146	Soil				506	3	5.6	2.6	11.2	8.4	20.7	58.5	2	91.1	1.4	8.6	2.5	86	1.3	308.3	18.6	28.7	57.6	6.49		
11-J2-147	Soil				617	3	6.9	3.8	12.6	8.7	20.3	74.6	2	101.4	1.5	10.2	3.2	87	1.4	327.0	21.6	34.3	67.4	7.68		
11-J2-145	Soil				334	1	3.0	3.6	10.8	10.4	31.8	75.5	2	48.2	2.3	10.0	2.7	62	2.0	384.7	24.5	33.8	70.0	8.04		
11-J2-148	Soil				480	2	4.1	1.9	9.0	9.8	17.3	49.9	1	83.5	1.2	8.1	2.6	64	1.5	375.1	20.1	30.5	61.4	7.20		
11-J2-112	Soil				825	2	6.9	3.2	13.2	7.3	17.1	67.9	2	110.9	1.2	10.9	2.8	92	1.8	288.8	22.5	39.2	78.3	9.07		
11-J2-149	Soil				462	1	5.2	3.3	8.9	9.2	16.5	59.5	1	72.3	1.1	8.2	2.7	71	1.1	353.1	31.7	37.0	62.6	9.06		
11-J2-108	Soil				901	3	6.6	3.2	13.3	7.7	19.5	66.3	2	121.7	1.3	9.5	2.7	97	1.0	293.6	21.0	33.5	68.1	7.69		
11-J2-106	Soil				732	2	7.8	4.8	13.2	7.7	20.6	88.7	3	101.5	1.5	11.2	3.1	93	1.5	263.3	21.4	36.0	72.4	8.36		
11-J2-113	Soil				668	3	6.1	6.1	12.7	7.2	25.5	82.2	2	74.2	1.6	10.9	2.7	89	1.5	271.3	21.6	35.2	68.7	7.93		
11-J2-133	Soil				430	2	3.8	2.7	9.5	9.8	19.2	51.0	2	70.6	1.2	8.0	2.6	57	2.2	390.9	17.8	27.8	56.0	6.23		
11-J2-115	Soil				593	2	6.7	3.4	11.0	7.6	22.2	63.9	2	90.3	1.3	9.8	2.8	81	1.9	268.0	19.9	37.2	72.1	8.22		
11-J2-143	Soil				635	<1	6.7	5.7	14.6	8.3	19.9	81.1	2	105.7	1.4	11.5	3.0	94	1.2	307.3	22.2	37.2	73.1	8.13		
11-J2-109	Soil				962	2	10.3	4.9	14.0	8.9	22.9	94.6	2	87.7	1.3	11.9	2.8	117	1.6	288.0	21.8	38.1	81.5	8.73		
11-J2-114	Soil				672	2	7.4	4.2	12.4	6.8	25.6	74.8	2	64.0	1.6	11.9	3.0	87	1.3	251.7	22.7	40.4	82.9	9.47		
11-J2-142	Soil				376	<1	3.3	1.9	9.6	9.2	20.8	45.7	1	70.3	1.4	8.5	2.3	76	1.5	357.5	17.6	29.0	60.8	6.75		
11-BCQ-0217	Soil				607	<1	5.9	2.3	12.8	9.6	22.1	57.8	2	121.1	1.5	8.8	3.0	92	1.2	362.0	21.4	34.1	66.0	7.58		
11-BCQ-0199	Soil				106	<1	0.6	3.0	11.3	20.6	88.9	70.4	6	17.4	5.5	15.6	3.4	124	3.2	856.2	21.8	95.8	201.1	22.79		



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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-J2-135	Soil	25.0	4.09	0.72	2.96	0.48	3.06	0.57	1.88	0.29	2.07	0.30	0.7	10.9	8.7	32	9.4	4.6	0.2	0.1
11-J2-105	Soil	32.6	5.27	1.01	4.24	0.68	4.16	0.76	2.43	0.39	2.24	0.38	0.7	9.9	25.8	294	34.9	14.3	6.4	0.1
11-J2-124	Soil	25.5	4.30	0.83	3.32	0.58	3.34	0.68	2.24	0.32	2.29	0.34	0.9	13.2	14.5	50	21.3	5.9	0.1	0.1
11-J2-104	Soil	37.3	6.27	1.14	4.37	0.74	4.31	0.84	2.39	0.37	2.59	0.38	0.5	7.2	19.1	334	22.3	8.4	4.8	0.2
11-J2-137	Soil	24.8	3.93	0.76	3.06	0.54	3.28	0.63	1.96	0.33	2.20	0.32	1.1	8.2	11.6	43	11.1	6.3	<0.1	0.2
11-J2-116	Soil	40.1	6.35	1.20	4.72	0.75	4.58	0.87	2.46	0.39	2.45	0.36	0.7	5.9	22.9	165	22.2	6.8	1.6	0.1
11-J2-130	Soil	26.0	3.87	0.72	2.78	0.48	2.93	0.61	2.05	0.32	2.18	0.35	0.4	4.3	5.3	36	4.5	1.6	<0.1	0.3
11-J2-132	Soil	27.7	4.54	0.81	3.52	0.58	3.43	0.71	1.90	0.33	2.16	0.33	0.5	3.5	9.6	33	5.1	2.6	<0.1	0.2
11-J2-111	Soil	42.8	7.35	1.61	6.21	0.98	5.73	1.16	2.85	0.48	2.92	0.44	0.5	14.8	9.9	49	23.3	23.1	0.4	0.2
11-J2-107	Soil	44.0	7.27	1.69	6.22	1.01	5.81	1.15	3.07	0.49	2.88	0.46	1.2	13.6	15.7	107	41.4	38.6	0.7	0.4
11-J2-141	Soil	24.1	3.96	0.71	3.05	0.51	3.04	0.63	1.97	0.29	2.09	0.31	0.7	7.8	5.2	21	5.5	3.8	<0.1	0.3
11-J2-140	Soil	24.1	4.11	0.79	3.17	0.54	3.41	0.72	1.96	0.32	2.39	0.31	0.7	5.9	8.2	41	10.5	4.5	<0.1	0.3
11-J2-144	Soil	29.3	5.07	0.89	3.69	0.62	3.74	0.77	2.28	0.35	2.35	0.38	0.6	9.5	5.2	17	4.7	3.4	<0.1	0.3
11-J2-146	Soil	24.0	4.16	0.77	3.17	0.52	3.36	0.66	1.88	0.31	1.82	0.30	0.9	8.8	14.3	48	15.7	5.8	0.1	0.2
11-J2-147	Soil	28.3	4.83	0.89	3.74	0.63	4.19	0.78	2.36	0.37	2.11	0.32	0.9	14.0	11.5	53	17.1	5.9	0.2	0.3
11-J2-145	Soil	30.0	5.15	0.85	4.01	0.71	4.45	0.93	2.55	0.43	2.77	0.43	0.6	14.8	6.1	16	5.7	4.0	<0.1	0.2
11-J2-148	Soil	25.8	4.70	0.87	3.42	0.59	3.58	0.75	2.01	0.35	2.16	0.33	0.5	6.3	9.6	36	11.9	4.5	<0.1	0.2
11-J2-112	Soil	33.5	5.40	1.03	4.21	0.67	4.02	0.73	2.27	0.38	2.38	0.36	0.5	3.9	12.8	88	14.0	6.2	0.2	0.2
11-J2-149	Soil	35.0	6.78	1.45	6.23	0.94	5.52	1.13	2.96	0.45	2.65	0.43	0.6	13.1	8.6	36	14.1	4.5	0.2	0.3
11-J2-108	Soil	28.2	4.84	0.96	3.55	0.61	4.07	0.77	2.24	0.35	2.16	0.33	1.0	5.9	10.6	76	11.7	20.6	1.1	0.2
11-J2-106	Soil	30.6	5.13	1.03	3.94	0.65	3.96	0.77	2.11	0.34	2.10	0.35	0.8	7.5	12.9	124	20.6	10.4	1.2	0.2
11-J2-113	Soil	29.6	4.98	1.10	3.80	0.65	3.74	0.75	2.06	0.36	2.39	0.33	0.6	9.3	20.2	73	22.7	12.1	0.6	0.3
11-J2-133	Soil	23.7	3.51	0.67	3.00	0.49	3.15	0.61	1.83	0.30	1.70	0.32	0.5	4.6	8.6	58	6.5	2.6	<0.1	0.3
11-J2-115	Soil	29.4	4.79	0.90	3.67	0.61	3.72	0.72	2.10	0.33	2.03	0.32	1.1	8.5	22.0	278	23.4	8.3	1.9	0.4
11-J2-143	Soil	31.5	4.82	0.91	3.79	0.65	4.02	0.78	2.24	0.37	2.29	0.38	0.9	6.7	13.3	60	13.4	5.4	0.2	0.4
11-J2-109	Soil	33.0	5.45	1.03	4.07	0.68	4.23	0.86	2.33	0.39	2.35	0.37	0.7	8.0	12.9	66	22.9	18.1	0.6	0.3
11-J2-114	Soil	35.0	6.01	1.27	4.87	0.78	4.69	0.87	2.27	0.40	2.43	0.37	0.9	10.9	30.2	174	29.8	16.1	1.3	0.5
11-J2-142	Soil	24.6	4.18	0.74	3.22	0.52	3.06	0.63	1.90	0.31	1.94	0.29	1.1	9.3	7.7	36	9.7	6.1	<0.1	0.4
11-BCQ-0217	Soil	27.8	4.59	0.90	3.68	0.60	3.76	0.72	2.26	0.34	2.16	0.36	0.6	5.1	15.7	272	12.3	2.4	0.8	<0.1
11-BCQ-0199	Soil	79.5	8.87	1.48	4.28	0.64	3.78	0.77	2.58	0.48	3.13	0.49	0.5	3.8	6.6	14	1.6	7.9	0.1	<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-J2-135	Soil	<0.1	0.8	0.01	<0.1	<0.5
11-J2-105	Soil	<0.1	<0.5	0.02	0.2	<0.5
11-J2-124	Soil	<0.1	<0.5	0.04	0.1	<0.5
11-J2-104	Soil	<0.1	<0.5	0.02	0.1	<0.5
11-J2-137	Soil	<0.1	<0.5	0.02	0.1	<0.5
11-J2-116	Soil	<0.1	<0.5	0.02	0.1	<0.5
11-J2-130	Soil	<0.1	1.8	<0.01	<0.1	<0.5
11-J2-132	Soil	<0.1	1.5	0.02	0.1	<0.5
11-J2-111	Soil	<0.1	1.9	0.03	0.1	<0.5
11-J2-107	Soil	<0.1	1.2	0.03	0.2	<0.5
11-J2-141	Soil	<0.1	1.3	0.02	<0.1	<0.5
11-J2-140	Soil	<0.1	1.3	<0.01	0.1	<0.5
11-J2-144	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-146	Soil	<0.1	1.2	0.01	0.2	<0.5
11-J2-147	Soil	<0.1	<0.5	0.01	0.2	<0.5
11-J2-145	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-148	Soil	<0.1	<0.5	0.01	0.1	<0.5
11-J2-112	Soil	<0.1	<0.5	<0.01	0.1	<0.5
11-J2-149	Soil	<0.1	<0.5	0.02	0.1	<0.5
11-J2-108	Soil	<0.1	<0.5	0.01	0.1	<0.5
11-J2-106	Soil	<0.1	<0.5	0.03	0.1	<0.5
11-J2-113	Soil	<0.1	<0.5	0.02	0.2	<0.5
11-J2-133	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-115	Soil	<0.1	<0.5	0.02	0.2	<0.5
11-J2-143	Soil	<0.1	4.0	0.03	0.1	<0.5
11-J2-109	Soil	<0.1	0.7	0.02	0.1	<0.5
11-J2-114	Soil	<0.1	0.6	0.04	0.2	<0.5
11-J2-142	Soil	<0.1	<0.5	<0.01	0.1	<0.5
11-BCQ-0217	Soil	<0.1	<0.5	0.01	0.2	<0.5
11-BCQ-0199	Soil	<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	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-BCQ-0194	Soil	424	<1	7.1	3.7	9.2	10.2	19.3	58.2	2	84.1	1.3	9.8	3.0	84	1.6	429.3	21.8	37.9
11-BCQ-0220	Soil	523	2	11.4	3.5	11.0	6.8	17.7	52.9	2	82.7	1.1	9.5	3.2	110	1.5	286.9	25.5	35.5
11-BCQ-0218	Soil	642	<1	8.8	2.4	12.0	8.2	19.0	53.4	2	114.4	1.3	9.2	2.9	103	1.3	346.3	23.9	36.2
11-BCQ-0212	Soil	479	<1	7.4	2.7	10.6	8.7	17.9	56.7	2	88.5	1.2	8.3	3.4	143	1.5	334.2	24.1	33.4
11-BCQ-0207	Soil	259	<1	2.6	1.5	5.2	11.2	14.3	39.8	2	43.6	0.9	5.8	1.9	50	1.3	437.3	15.6	26.3
11-BCQ-0193	Soil	208	<1	9.5	3.2	5.0	6.3	15.3	38.9	<1	50.3	0.8	8.5	4.1	59	0.8	250.6	34.5	41.3
11-BCQ-0196	Soil	540	<1	3.7	3.1	13.7	8.3	23.7	65.4	3	95.0	1.4	8.1	2.7	115	1.4	318.9	20.0	31.5
11-BCQ-0200	Soil	286	<1	7.1	2.3	6.3	8.6	15.0	41.1	1	46.5	1.0	7.8	3.2	79	1.4	367.6	34.1	36.1
11-BCQ-0205	Soil	89	<1	2.9	0.8	1.7	2.0	3.5	13.9	<1	85.7	0.2	2.9	2.8	27	0.7	76.2	16.6	15.5
11-BCQ-0204	Soil	539	1	5.3	2.4	11.6	9.6	21.5	53.2	2	104.2	1.4	8.6	2.8	83	1.4	380.9	22.5	33.4
11-BCQ-0202	Soil	231	<1	5.9	4.9	10.8	4.7	25.3	63.8	2	65.1	1.5	8.8	2.5	69	1.9	189.8	21.3	35.6
11-BCQ-0219	Soil	259	<1	3.6	1.3	4.2	2.9	6.3	27.1	<1	59.5	0.3	4.4	1.5	50	0.5	112.1	15.2	16.6
11-BCQ-0195	Soil	197	<1	3.6	6.7	10.3	11.6	25.6	73.7	2	60.9	1.5	10.6	2.9	69	2.1	465.6	28.4	48.4
11-BCQ-0216	Soil	299	<1	8.4	2.8	8.9	6.7	14.8	51.7	2	54.7	1.0	7.6	2.2	90	1.2	264.8	33.1	32.0
11-BCQ-0209	Soil	327	<1	7.3	2.4	8.0	8.8	14.6	45.9	2	52.5	1.0	8.4	3.3	97	1.5	345.8	34.0	33.3
11-BCQ-0221	Soil	573	<1	12.6	2.6	12.1	7.4	19.9	55.5	3	94.0	1.3	10.9	3.1	114	1.7	321.6	23.6	34.1
11-BCQ-0208	Soil	353	2	6.4	2.6	9.4	9.6	18.5	44.2	2	57.8	1.2	9.0	4.3	113	2.2	394.7	55.0	47.9
11-BCQ-0192	Soil	150	<1	5.4	2.8	5.0	4.8	13.1	36.4	<1	53.8	0.8	6.2	2.5	67	0.9	201.8	21.4	25.8
11-BCQ-0206	Soil	406	<1	6.5	2.4	10.4	10.2	18.4	47.2	1	60.9	1.2	7.4	2.5	93	1.2	421.6	17.1	27.0
11-BCQ-0198	Soil	207	<1	5.4	2.4	5.7	6.1	14.1	34.8	1	48.2	0.9	6.2	2.5	59	0.8	271.6	18.3	23.7
11-BCQ-0203	Soil	273	1	7.1	3.3	10.0	8.8	25.4	63.7	2	94.6	1.6	11.4	4.3	84	1.8	375.1	42.0	57.6
11-BCQ-0201	Soil	324	2	8.6	3.4	8.7	7.4	17.1	50.4	2	70.9	1.1	8.4	3.8	93	1.4	296.5	36.1	39.3
11-BCQ-0211	Soil	219	<1	5.3	1.6	5.3	10.1	13.8	32.7	<1	34.6	0.9	6.4	2.3	58	1.5	422.1	17.0	32.0
11-BCQ-0210	Soil	138	<1	3.6	1.2	3.3	2.8	5.3	22.6	<1	60.2	0.3	3.9	2.5	58	0.6	113.2	17.6	16.2
11-AAB-0388	Soil	406	1	2.6	1.5	6.0	8.8	19.5	38.2	1	55.6	1.5	7.8	2.9	122	1.2	369.7	18.0	31.3
11-AAB-0387	Soil	315	<1	2.2	1.2	4.9	7.7	17.9	32.5	1	38.3	1.1	5.4	2.1	115	1.2	333.3	13.7	27.0
11-AAB-0389	Soil	469	<1	2.4	1.8	6.5	8.5	20.2	49.0	1	67.5	1.2	7.4	2.8	124	1.4	349.2	17.5	34.7
11-AAB-0391	Soil	340	<1	1.9	1.1	4.9	7.5	20.4	34.7	<1	46.6	1.2	6.1	2.4	119	1.1	315.4	14.5	31.5
11-AAB-0404	Soil	556	<1	4.7	2.1	9.0	6.6	16.5	61.3	2	79.5	1.1	7.4	2.8	178	1.0	275.4	16.5	28.9
11-AAB-0407	Soil	670	<1	4.4	2.6	6.7	6.1	13.3	46.6	1	48.7	0.9	6.6	4.3	254	0.9	261.0	25.1	24.5



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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	1DX	
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi
		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	ppm 0.1
11-BCQ-0194	Soil	27.7	4.59	0.92	3.83	0.64	3.72	0.75	2.45	0.39	2.65	0.41	0.8	7.6	136.8	52	19.8	10.6	0.2	0.2	0.1
11-BCQ-0220	Soil	28.1	5.27	1.03	4.48	0.74	4.10	0.82	2.39	0.38	2.24	0.34	1.3	8.7	25.9	272	35.2	10.2	2.1	0.5	0.2
11-BCQ-0218	Soil	27.7	4.81	0.91	4.30	0.67	3.95	0.75	2.33	0.37	2.31	0.37	1.3	7.7	16.1	231	21.4	6.4	0.9	0.3	0.2
11-BCQ-0212	Soil	28.5	4.67	0.90	4.16	0.66	3.92	0.82	2.22	0.36	2.20	0.34	1.0	10.5	32.7	982	31.4	7.5	3.9	0.8	0.2
11-BCQ-0207	Soil	20.9	3.35	0.57	2.59	0.43	2.52	0.54	1.72	0.27	1.77	0.27	0.7	5.0	9.5	28	4.9	4.8	<0.1	0.3	0.1
11-BCQ-0193	Soil	36.8	6.54	1.34	6.11	0.99	5.07	1.06	2.87	0.42	2.49	0.37	1.0	13.2	29.1	50	22.7	28.8	0.6	0.4	0.1
11-BCQ-0196	Soil	24.7	3.98	0.72	3.34	0.57	3.12	0.70	2.02	0.31	2.06	0.32	1.3	5.2	13.9	51	10.7	7.9	0.1	0.2	0.3
11-BCQ-0200	Soil	32.8	6.23	1.16	5.41	0.85	4.74	0.97	2.89	0.43	2.67	0.41	1.4	17.0	31.1	325	31.2	14.6	1.4	0.3	0.2
11-BCQ-0205	Soil	12.5	2.53	0.51	2.49	0.39	2.16	0.43	1.28	0.17	1.06	0.15	0.6	7.1	9.2	101	6.9	5.0	0.6	0.4	<0.1
11-BCQ-0204	Soil	27.2	4.78	0.84	3.73	0.60	3.69	0.77	2.31	0.38	2.68	0.37	0.6	6.5	14.1	67	12.6	5.1	0.2	0.1	0.2
11-BCQ-0202	Soil	26.3	4.88	0.98	4.08	0.66	3.56	0.73	2.09	0.31	1.85	0.29	0.4	13.7	15.0	47	16.6	8.3	0.2	0.1	0.1
11-BCQ-0219	Soil	14.0	2.58	0.54	2.43	0.37	2.17	0.46	1.32	0.20	1.24	0.18	0.4	6.0	8.0	55	11.3	4.4	0.5	0.4	<0.1
11-BCQ-0195	Soil	36.3	5.89	1.18	5.06	0.82	4.83	1.01	3.06	0.52	3.25	0.51	0.4	6.0	31.2	10	5.6	8.4	<0.1	0.1	0.2
11-BCQ-0216	Soil	29.7	5.61	1.17	5.30	0.84	4.92	0.97	2.82	0.41	2.59	0.40	0.9	14.1	24.8	150	21.1	10.2	3.1	0.5	0.2
11-BCQ-0209	Soil	31.9	5.87	1.20	5.80	0.91	5.34	1.06	3.08	0.45	2.95	0.45	0.8	21.3	34.1	347	32.9	10.2	1.3	0.5	0.2
11-BCQ-0221	Soil	29.0	5.01	0.95	4.21	0.69	4.02	0.80	2.29	0.38	2.39	0.34	1.7	10.2	22.4	167	32.6	11.7	1.0	0.4	0.2
11-BCQ-0208	Soil	41.1	7.51	1.59	7.49	1.19	7.23	1.54	4.32	0.67	4.05	0.61	0.8	34.0	35.6	2875	218.6	7.9	8.6	0.5	0.2
11-BCQ-0192	Soil	19.9	3.93	0.79	3.62	0.58	3.48	0.67	1.85	0.30	1.59	0.28	1.1	9.7	19.5	42	14.0	16.8	0.2	0.4	<0.1
11-BCQ-0206	Soil	21.1	3.43	0.64	2.87	0.46	2.80	0.62	1.94	0.30	2.15	0.31	1.5	11.2	18.2	123	19.9	10.1	0.4	0.4	0.2
11-BCQ-0198	Soil	20.1	3.81	0.75	3.32	0.54	2.91	0.60	1.70	0.27	1.74	0.26	0.7	12.2	20.8	66	13.8	13.2	0.3	0.4	0.1
11-BCQ-0203	Soil	46.7	8.59	1.77	7.90	1.22	6.76	1.38	3.79	0.57	3.37	0.55	0.7	20.3	21.6	55	21.5	39.3	0.2	0.4	0.2
11-BCQ-0201	Soil	32.7	6.15	1.23	5.68	0.86	4.96	1.04	2.87	0.45	2.71	0.43	1.4	20.5	34.2	339	34.7	17.0	1.6	0.6	0.1
11-BCQ-0211	Soil	23.7	3.86	0.72	3.06	0.48	2.77	0.59	1.74	0.29	1.96	0.30	1.2	12.4	29.5	161	18.8	10.8	0.4	0.5	0.1
11-BCQ-0210	Soil	13.8	2.82	0.57	2.63	0.42	2.28	0.50	1.36	0.21	1.21	0.19	0.7	6.2	16.8	392	20.6	5.2	2.3	0.4	<0.1
11-AAB-0388	Soil	24.4	4.34	0.74	3.23	0.51	2.85	0.62	1.77	0.30	1.97	0.32	1.4	10.2	6.8	50	11.2	4.9	0.3	0.9	<0.1
11-AAB-0387	Soil	20.2	3.08	0.53	2.37	0.36	2.21	0.48	1.34	0.22	1.54	0.25	1.6	6.9	6.1	49	9.7	5.1	0.2	0.7	<0.1
11-AAB-0389	Soil	27.7	4.33	0.72	3.27	0.51	2.79	0.57	1.81	0.29	1.87	0.31	1.9	6.0	6.4	38	8.8	5.4	0.2	0.9	<0.1
11-AAB-0391	Soil	24.0	3.75	0.62	2.62	0.41	2.39	0.48	1.40	0.24	1.42	0.25	2.0	5.0	5.7	34	6.8	4.9	0.2	1.0	<0.1
11-AAB-0404	Soil	21.7	3.52	0.63	2.91	0.47	2.77	0.61	1.74	0.27	1.69	0.26	9.1	8.2	7.4	87	23.6	12.3	0.2	1.3	0.2
11-AAB-0407	Soil	18.2	3.84	0.76	3.62	0.58	3.33	0.75	2.12	0.33	2.08	0.32	3.8	15.5	6.9	390	38.6	7.5	6.1	2.7	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-BCQ-0194	Soil		<0.1	<0.5	0.02	0.2	<0.5
11-BCQ-0220	Soil		<0.1	<0.5	0.04	0.2	<0.5
11-BCQ-0218	Soil		<0.1	<0.5	0.02	0.1	<0.5
11-BCQ-0212	Soil		<0.1	<0.5	0.02	0.3	<0.5
11-BCQ-0207	Soil		<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0193	Soil		0.1	<0.5	0.05	0.4	<0.5
11-BCQ-0196	Soil		<0.1	1.6	0.02	0.1	<0.5
11-BCQ-0200	Soil		<0.1	<0.5	0.07	0.3	<0.5
11-BCQ-0205	Soil		<0.1	<0.5	0.03	<0.1	<0.5
11-BCQ-0204	Soil		<0.1	0.6	0.02	0.2	<0.5
11-BCQ-0202	Soil		<0.1	<0.5	0.04	0.1	<0.5
11-BCQ-0219	Soil		<0.1	<0.5	0.03	<0.1	<0.5
11-BCQ-0195	Soil		<0.1	2.1	0.03	0.2	<0.5
11-BCQ-0216	Soil		<0.1	1.4	0.03	0.2	<0.5
11-BCQ-0209	Soil		0.1	<0.5	0.07	0.2	<0.5
11-BCQ-0221	Soil		<0.1	1.1	0.02	0.2	<0.5
11-BCQ-0208	Soil		<0.1	1.4	0.22	0.4	0.8
11-BCQ-0192	Soil		<0.1	0.7	<0.01	0.3	<0.5
11-BCQ-0206	Soil		<0.1	<0.5	0.01	0.1	<0.5
11-BCQ-0198	Soil		<0.1	<0.5	0.03	0.2	<0.5
11-BCQ-0203	Soil		0.1	<0.5	0.06	0.3	<0.5
11-BCQ-0201	Soil		0.1	<0.5	0.12	0.4	<0.5
11-BCQ-0211	Soil		<0.1	<0.5	<0.01	0.2	<0.5
11-BCQ-0210	Soil		<0.1	<0.5	0.03	<0.1	<0.5
11-AAB-0388	Soil		<0.1	<0.5	<0.01	0.1	<0.5
11-AAB-0387	Soil		<0.1	1.3	<0.01	<0.1	<0.5
11-AAB-0389	Soil		<0.1	0.6	<0.01	<0.1	<0.5
11-AAB-0391	Soil		<0.1	<0.5	<0.01	<0.1	0.5
11-AAB-0404	Soil		<0.1	<0.5	0.02	0.3	1.0
11-AAB-0407	Soil		0.2	<0.5	0.14	0.6	1.9



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Project: TING 2A
Report Date: November 22, 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-AAB-0394	Soil	515	<1	4.5	2.1	10.0	8.4	17.7	48.7	2	81.2	1.1	7.7	2.4	115	1.3	342.5	17.2	29.8
11-AAB-0399	Soil	405	<1	2.9	1.5	5.8	6.4	17.3	36.9	<1	45.6	1.1	5.3	2.6	179	1.0	290.7	12.7	26.3
11-MGB-463	Soil	227	<1	6.7	1.3	5.4	3.8	7.6	29.1	1	58.6	0.5	5.0	1.5	43	<0.5	146.8	18.2	17.5
11-MGB-452	Soil	254	<1	3.9	1.8	7.2	8.5	16.7	42.5	1	47.2	1.1	6.3	1.8	61	1.1	364.7	16.0	24.3
11-MGB-446	Soil	385	<1	2.7	4.7	15.4	8.6	17.9	89.3	2	73.5	1.4	11.1	2.6	81	2.4	341.3	26.8	38.3
11-MGB-451	Soil	776	<1	6.8	3.3	14.5	8.2	21.0	72.8	2	120.6	1.4	9.5	2.8	105	1.4	308.7	49.0	38.0
11-MGB-457	Soil	757	2	9.6	3.1	18.0	8.7	28.7	69.7	3	133.9	1.9	10.3	2.9	105	1.6	329.7	22.9	35.7
11-MGB-448	Soil	525	<1	5.4	2.2	12.5	9.6	20.2	57.2	2	105.6	1.4	7.3	2.5	79	1.3	377.3	20.6	33.1
11-MGB-445	Soil	444	<1	5.1	3.0	10.4	11.0	17.7	62.9	2	82.7	1.2	8.3	2.4	65	1.6	439.1	22.6	33.2
11-MGB-443	Soil	361	<1	2.8	1.7	10.7	12.0	22.0	43.8	2	84.5	1.4	8.2	2.6	70	1.6	456.5	20.6	31.9
11-MGB-442	Soil	647	1	6.5	3.0	12.5	9.1	19.2	64.2	2	128.3	1.5	9.0	2.6	84	1.3	341.7	21.2	38.7
11-MGB-449	Soil	512	<1	5.0	2.6	13.5	10.0	21.4	60.9	2	102.9	1.5	8.7	2.6	93	1.6	348.5	19.3	33.1
11-MGB-444	Soil	276	<1	2.8	1.6	8.5	9.2	20.3	45.4	2	50.4	1.5	6.9	2.2	64	1.8	381.3	19.9	29.0
11-MGB-453	Soil	535	<1	5.1	3.5	10.9	9.3	17.2	68.8	2	77.6	1.3	9.8	2.8	90	1.7	336.0	20.7	33.7
11-MGB-447	Soil	344	<1	3.9	1.7	9.6	9.1	18.4	50.5	1	72.7	1.2	7.3	2.3	73	1.4	355.5	17.5	29.2
11-MGB-455	Soil	727	<1	6.6	3.0	13.8	9.0	23.5	75.9	2	140.7	1.6	9.8	2.7	95	1.5	333.2	22.2	41.9
11-MGB-454	Soil	508	<1	5.1	5.9	12.8	9.4	17.6	80.8	2	101.8	1.3	9.9	2.9	74	1.8	353.3	21.8	33.5
11-MGB-456	Soil	566	<1	4.5	2.7	11.2	8.4	25.2	63.7	2	87.9	1.5	8.3	2.6	94	1.4	332.1	21.8	32.9
11-MGB-464	Soil	522	<1	6.3	1.9	11.8	9.5	20.9	48.7	2	104.0	1.4	8.5	2.4	77	1.4	355.0	19.4	31.8
11-MGB-462	Soil	670	2	7.9	3.0	13.7	9.3	20.3	71.3	2	107.2	1.5	9.0	3.1	113	1.5	351.1	20.5	35.9
11-MGB-461	Soil	582	2	12.7	4.3	12.1	8.5	17.7	80.7	2	103.2	1.2	9.7	3.2	102	1.6	315.2	21.6	28.5
11-MGB-458	Soil	474	<1	4.3	2.1	9.4	10.3	17.5	51.8	2	96.4	1.2	8.1	2.3	62	1.4	402.9	17.8	32.6
11-MGB-459	Soil	607	1	7.8	2.7	11.7	8.4	19.0	60.8	2	112.5	1.3	8.6	2.5	83	1.5	340.7	21.3	33.5
11-MGB-460	Soil	548	<1	3.1	2.6	9.0	8.4	21.4	52.0	2	71.8	1.5	7.9	2.8	94	1.6	330.5	19.2	35.5
11-MGB-450	Soil	624	<1	4.8	2.2	10.7	8.7	17.8	61.3	2	105.9	1.2	8.4	2.6	83	1.5	351.0	19.7	33.9
11-J2-186	Soil	263	<1	9.9	2.3	9.0	8.3	20.2	46.5	1	46.9	1.6	8.0	2.8	80	1.3	318.4	20.1	33.0
11-J2-180	Soil	375	2	10.9	2.2	12.3	6.8	20.2	48.8	2	65.4	1.4	8.5	2.6	101	1.3	263.0	19.5	28.8
11-J2-178	Soil	270	<1	7.3	1.9	7.8	7.4	16.1	43.8	1	35.6	1.1	6.1	2.1	110	1.1	279.4	17.6	25.0
11-J2-156	Soil	450	<1	4.2	4.0	14.6	9.2	20.8	95.5	2	107.4	1.6	12.3	2.8	78	3.5	348.4	26.3	44.5
11-J2-150	Soil	459	1	4.8	1.9	16.2	8.6	28.0	46.6	3	105.8	2.1	8.2	2.6	97	1.6	314.7	17.7	28.0



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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	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-0394	Soil	22.3	3.85	0.74	3.17	0.51	2.98	0.64	1.87	0.27	2.02	0.30	2.4	5.8	11.6	82	13.5	6.0	0.4	0.4
11-AAB-0399	Soil	18.2	3.06	0.55	2.28	0.36	2.04	0.47	1.36	0.22	1.42	0.22	6.0	8.9	6.9	112	18.6	11.5	0.3	1.9
11-MGB-463	Soil	18.0	3.39	0.70	3.48	0.51	3.03	0.56	1.68	0.26	1.50	0.24	0.5	76.7	36.5	28	12.0	16.3	0.2	0.7
11-MGB-452	Soil	20.9	3.53	0.61	2.89	0.45	2.62	0.55	1.59	0.26	1.76	0.28	0.9	9.9	9.1	36	9.9	4.8	<0.1	0.3
11-MGB-446	Soil	32.3	5.59	1.04	4.98	0.80	4.91	1.01	2.81	0.43	2.65	0.43	0.7	4.8	5.5	19	5.1	2.8	<0.1	0.5
11-MGB-451	Soil	30.2	7.28	1.82	10.55	1.64	8.52	1.70	4.60	0.61	4.03	0.53	0.8	8.0	13.1	63	20.0	5.2	0.2	0.2
11-MGB-457	Soil	28.6	5.06	0.92	4.10	0.67	3.70	0.78	2.29	0.37	2.43	0.36	1.0	26.0	11.6	70	23.5	4.7	0.2	0.2
11-MGB-448	Soil	25.7	4.29	0.80	3.50	0.58	3.42	0.68	2.06	0.32	2.12	0.34	1.1	8.0	8.7	39	10.7	4.7	0.2	0.4
11-MGB-445	Soil	27.5	4.69	0.86	3.84	0.63	3.47	0.81	2.40	0.37	2.45	0.37	0.5	6.2	7.2	22	7.6	2.5	0.1	0.2
11-MGB-443	Soil	24.5	4.41	0.78	3.69	0.60	3.45	0.70	2.22	0.34	2.37	0.34	0.8	5.1	6.8	29	4.8	3.1	0.1	0.3
11-MGB-442	Soil	30.2	5.24	0.94	4.09	0.65	3.63	0.76	2.22	0.33	2.26	0.35	0.6	5.8	10.2	55	14.9	3.6	0.2	0.2
11-MGB-449	Soil	26.2	4.34	0.78	3.54	0.56	3.26	0.68	2.13	0.33	2.28	0.34	1.1	7.7	8.9	50	12.2	5.3	0.2	0.4
11-MGB-444	Soil	23.0	4.17	0.72	3.44	0.56	3.19	0.68	2.06	0.33	2.13	0.33	0.7	5.3	6.9	21	4.8	2.5	0.1	0.2
11-MGB-453	Soil	27.2	4.55	0.82	3.71	0.62	3.37	0.73	2.29	0.34	2.34	0.35	1.1	10.7	23.8	42	13.8	6.2	0.1	0.4
11-MGB-447	Soil	24.2	3.80	0.68	3.04	0.52	2.82	0.62	1.79	0.30	2.00	0.32	1.0	8.7	9.4	30	9.5	4.5	0.1	0.3
11-MGB-455	Soil	34.2	5.64	1.08	4.43	0.70	3.85	0.82	2.33	0.35	2.45	0.37	0.6	6.1	9.9	65	14.6	3.1	0.3	0.2
11-MGB-454	Soil	26.4	4.61	0.83	3.80	0.63	3.66	0.76	2.37	0.37	2.47	0.38	0.7	5.5	10.2	27	8.2	2.4	0.2	0.2
11-MGB-456	Soil	26.5	4.67	0.82	3.74	0.62	3.60	0.75	2.27	0.35	2.33	0.35	1.1	8.3	9.4	59	11.2	4.3	0.2	0.3
11-MGB-464	Soil	27.2	4.50	0.79	3.56	0.56	3.11	0.67	1.96	0.31	2.17	0.32	1.1	31.4	15.6	41	9.2	6.7	0.1	0.4
11-MGB-462	Soil	28.0	4.60	0.86	3.63	0.58	3.42	0.71	2.21	0.34	2.22	0.35	1.7	19.1	17.2	73	22.6	11.4	0.2	0.4
11-MGB-461	Soil	23.4	4.30	0.81	3.95	0.64	3.84	0.81	2.39	0.35	2.45	0.36	1.6	27.9	17.4	57	23.2	11.0	0.2	0.7
11-MGB-458	Soil	26.2	4.33	0.76	3.31	0.52	2.88	0.65	1.89	0.28	2.09	0.31	0.4	4.4	7.7	43	8.3	1.9	<0.1	<0.1
11-MGB-459	Soil	26.9	4.66	0.91	3.90	0.66	3.49	0.75	2.19	0.34	2.29	0.34	0.8	44.0	16.5	73	18.7	7.2	0.3	0.3
11-MGB-460	Soil	27.9	4.31	0.77	3.33	0.57	3.30	0.72	2.15	0.31	2.13	0.32	1.5	10.0	9.7	56	11.7	4.5	0.2	0.2
11-MGB-450	Soil	27.8	4.60	0.81	3.58	0.57	3.19	0.72	2.05	0.32	2.18	0.32	0.7	5.3	11.3	54	12.0	3.9	0.1	0.1
11-J2-186	Soil	26.0	4.51	0.91	3.76	0.61	3.60	0.78	2.23	0.35	2.28	0.35	0.4	22.0	11.1	34	17.3	4.7	0.4	0.2
11-J2-180	Soil	24.1	4.29	0.86	3.73	0.62	3.51	0.75	2.18	0.32	2.12	0.33	1.3	27.0	20.8	67	23.2	7.4	0.4	0.3
11-J2-178	Soil	20.5	3.70	0.74	3.16	0.51	3.07	0.66	1.88	0.28	1.89	0.29	0.6	19.1	7.7	45	14.3	3.1	0.2	0.2
11-J2-156	Soil	39.8	6.38	1.17	4.87	0.80	4.47	0.97	2.87	0.44	2.89	0.45	0.7	8.9	6.7	44	7.8	2.1	0.3	0.7
11-J2-150	Soil	21.8	3.84	0.70	3.08	0.55	3.20	0.69	2.02	0.31	2.20	0.32	1.5	7.4	14.9	98	10.7	5.3	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-AAB-0394	Soil	<0.1	<0.5	0.02	0.2	0.6
11-AAB-0399	Soil	<0.1	<0.5	0.04	0.2	0.7
11-MGB-463	Soil	0.1	<0.5	0.08	<0.1	<0.5
11-MGB-452	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-MGB-446	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-451	Soil	<0.1	<0.5	<0.01	0.1	<0.5
11-MGB-457	Soil	<0.1	<0.5	<0.01	0.1	<0.5
11-MGB-448	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-445	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-443	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-442	Soil	<0.1	1.4	<0.01	<0.1	<0.5
11-MGB-449	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-444	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-453	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-MGB-447	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-MGB-455	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-MGB-454	Soil	<0.1	<0.5	0.01	0.1	<0.5
11-MGB-456	Soil	<0.1	<0.5	0.01	<0.1	<0.5
11-MGB-464	Soil	<0.1	3.0	0.01	<0.1	<0.5
11-MGB-462	Soil	<0.1	2.3	0.03	0.1	<0.5
11-MGB-461	Soil	<0.1	2.0	0.02	0.1	<0.5
11-MGB-458	Soil	<0.1	3.6	0.01	<0.1	<0.5
11-MGB-459	Soil	<0.1	2.1	0.03	0.1	<0.5
11-MGB-460	Soil	<0.1	1.2	<0.01	0.1	<0.5
11-MGB-450	Soil	<0.1	0.7	<0.01	0.1	<0.5
11-J2-186	Soil	0.1	1.8	0.03	<0.1	<0.5
11-J2-180	Soil	<0.1	0.8	0.02	0.3	<0.5
11-J2-178	Soil	<0.1	4.6	0.02	<0.1	<0.5
11-J2-156	Soil	<0.1	1.1	0.02	<0.1	<0.5
11-J2-150	Soil	<0.1	0.6	0.02	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-J2-152	Soil	269	<1	3.7	1.7	8.4	8.8	18.2	44.5	1	39.8	1.3	7.0	2.1	70	1.4	340.3	19.2	27.2
11-J2-151	Soil	250	<1	2.2	1.3	6.4	11.0	14.2	40.0	1	43.9	0.9	6.9	2.2	46	1.2	422.3	16.7	26.0
11-J2-164	Soil	633	<1	5.2	5.0	14.0	8.0	22.6	87.5	3	125.1	1.6	10.0	2.9	80	2.0	310.3	21.6	35.2
11-J2-158	Soil	570	1	5.7	2.3	16.9	8.0	26.8	60.2	2	110.6	1.9	7.8	2.7	103	1.5	303.5	18.7	32.7
11-J2-162	Soil	308	<1	5.1	1.8	7.5	10.3	16.2	46.1	1	52.9	1.3	7.9	2.3	63	1.4	376.0	19.2	29.5
11-J2-175	Soil	445	1	4.5	1.9	12.4	7.8	19.9	50.8	2	96.4	1.3	7.0	2.4	129	3.2	279.0	19.1	31.5
11-J2-166	Soil	495	<1	5.8	2.6	8.6	9.6	24.7	56.1	1	58.3	1.6	10.1	3.2	91	1.9	330.5	23.3	38.2
11-J2-167	Soil	567	<1	4.0	2.0	9.8	10.0	15.3	57.3	2	84.8	1.1	7.2	2.5	82	1.4	361.9	16.5	30.3
11-J2-168	Soil	552	<1	4.7	2.5	12.5	10.5	19.0	57.5	2	105.9	1.3	8.8	2.5	92	1.5	382.6	18.6	32.4
11-J2-155	Soil	501	<1	1.9	1.9	13.9	9.4	19.6	49.1	2	97.8	1.7	9.3	2.9	85	2.3	361.9	19.7	37.7
11-J2-154	Soil	259	1	2.9	2.1	8.8	7.4	14.2	53.3	1	48.3	1.0	6.7	2.3	57	1.6	288.4	16.1	25.9
11-J2-159	Soil	534	<1	3.5	2.0	17.8	10.5	27.8	52.6	4	136.1	2.0	10.1	3.2	108	2.2	426.3	22.5	36.4
11-J2-160	Soil	673	<1	7.1	3.0	12.0	8.5	19.9	67.4	3	112.5	1.4	9.9	3.0	115	1.9	373.3	24.1	33.8
11-J2-163	Soil	443	<1	5.3	2.2	10.9	9.6	20.9	54.7	3	92.8	1.5	8.3	2.6	84	11.0	389.3	24.2	30.6
11-J2-161	Soil	312	2	3.7	1.6	5.6	11.3	15.6	44.1	1	60.5	1.0	6.7	2.4	68	1.5	433.5	19.7	24.6
11-J2-165	Soil	548	2	4.9	2.0	10.7	9.7	19.5	54.5	2	112.4	1.4	7.5	2.4	77	1.8	379.3	18.7	29.2
11-J2-171	Soil	620	<1	6.7	3.5	14.8	7.4	23.1	75.0	4	103.8	1.6	10.2	3.0	110	2.3	348.0	22.5	35.7
11-J2-170	Soil	462	<1	4.5	2.6	8.4	7.6	22.7	59.8	2	64.6	1.6	8.2	2.6	86	2.2	348.5	20.0	32.9
11-J2-172	Soil	631	1	8.9	2.8	14.8	6.8	21.9	70.9	3	123.7	1.8	10.8	2.9	95	2.0	282.2	21.7	33.9
11-J2-173	Soil	593	1	10.7	3.0	12.0	5.7	14.5	63.2	3	114.6	1.1	10.3	2.7	79	2.2	225.3	29.0	36.1
11-J2-169	Soil	668	<1	5.8	3.1	12.1	9.0	19.6	71.9	3	116.8	1.4	9.8	3.1	95	1.7	349.4	21.5	33.4
11-AAB-0396	Soil	764	<1	5.3	2.3	7.1	6.9	20.3	64.6	1	72.9	1.4	8.6	4.4	245	1.8	280.2	21.5	33.6
11-AAB-0408	Soil	1068	5	4.8	3.6	6.0	5.7	13.6	54.8	1	54.6	0.9	6.9	3.7	255	1.8	228.6	23.6	25.4
11-AAB-0403	Soil	609	1	6.5	3.3	10.1	8.1	20.3	66.8	2	80.7	1.5	8.9	4.4	237	1.8	325.3	20.8	36.2
11-AAB-0395	Soil	620	<1	4.2	2.5	9.6	8.3	21.0	62.2	2	90.5	1.6	8.8	3.0	127	2.0	338.8	18.1	33.9
11-AAB-0398	Soil	518	2	3.9	9.9	8.2	7.0	20.1	62.8	3	74.1	1.6	7.7	3.0	140	1.6	326.7	16.1	30.7
11-AAB-0400	Soil	361	2	2.7	1.2	3.7	10.2	17.1	35.2	2	46.5	1.3	7.1	3.0	143	1.6	432.3	15.8	27.6
11-AAB-0406	Soil	1347	<1	6.8	6.5	10.8	5.5	13.4	86.9	2	65.8	1.0	9.6	5.5	305	1.6	234.3	27.4	33.5
11-AAB-0405	Soil	755	<1	4.6	4.2	11.1	6.7	15.1	96.1	3	64.3	1.1	8.0	4.2	367	1.3	266.5	17.9	31.8
11-AAB-0401	Soil	400	4	3.2	2.1	5.6	8.6	25.1	45.2	2	60.2	1.7	11.8	3.5	210	1.3	355.7	18.4	36.8



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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
		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-J2-152	Soil	23.3	4.24	0.74	3.64	0.60	3.38	0.73	2.08	0.31	2.15	0.33	1.2	10.7	8.2	32	8.8	5.1	<0.1	0.2
11-J2-151	Soil	23.1	3.69	0.67	2.99	0.50	2.76	0.65	1.80	0.29	2.02	0.31	0.6	5.6	5.2	21	5.5	2.4	<0.1	0.1
11-J2-164	Soil	27.8	4.78	0.92	4.08	0.67	3.76	0.84	2.37	0.36	2.47	0.37	0.8	9.1	11.7	45	10.6	3.2	0.4	0.2
11-J2-158	Soil	27.7	4.49	0.84	3.49	0.57	3.22	0.69	2.14	0.30	2.15	0.33	1.6	7.4	13.5	93	13.8	5.9	0.4	0.3
11-J2-162	Soil	25.4	4.27	0.78	3.41	0.58	3.36	0.73	2.23	0.33	2.22	0.35	0.7	11.3	13.0	26	10.6	4.2	0.1	0.4
11-J2-175	Soil	24.5	4.32	0.78	3.35	0.57	3.36	0.72	2.08	0.34	2.16	0.33	0.7	19.3	9.4	34	8.9	4.0	<0.1	0.2
11-J2-166	Soil	29.3	5.36	0.98	4.50	0.75	4.11	0.89	2.54	0.38	2.61	0.37	1.3	15.9	11.1	53	18.2	6.3	0.1	0.4
11-J2-167	Soil	25.6	4.19	0.75	3.22	0.53	2.96	0.67	1.91	0.28	2.02	0.31	0.9	5.9	8.0	52	10.6	4.3	0.2	0.3
11-J2-168	Soil	26.1	4.21	0.77	3.41	0.56	3.46	0.71	2.14	0.32	2.15	0.34	1.1	7.3	9.9	50	12.7	4.7	<0.1	0.3
11-J2-155	Soil	29.5	4.78	0.82	3.88	0.63	3.62	0.80	2.28	0.36	2.43	0.38	0.9	3.0	8.7	27	4.0	2.3	<0.1	0.2
11-J2-154	Soil	20.8	3.55	0.63	2.81	0.49	2.82	0.59	1.85	0.28	1.92	0.30	0.5	11.9	6.6	42	13.7	2.7	<0.1	0.1
11-J2-159	Soil	26.8	4.96	0.87	3.88	0.63	3.87	0.75	2.17	0.35	2.28	0.38	1.3	5.7	8.7	34	5.8	3.4	0.2	0.1
11-J2-160	Soil	26.2	4.87	0.88	3.74	0.69	3.90	0.76	2.41	0.37	2.27	0.36	0.8	9.8	12.2	60	20.0	6.0	0.2	0.3
11-J2-163	Soil	27.3	4.93	0.99	4.05	0.69	3.81	0.85	2.45	0.38	1.98	0.36	0.6	8.0	12.0	39	9.4	2.7	0.2	0.2
11-J2-161	Soil	19.2	3.50	0.68	3.00	0.54	3.20	0.73	1.91	0.31	2.08	0.33	0.5	7.0	6.6	29	8.8	4.0	0.2	0.3
11-J2-165	Soil	21.5	3.84	0.73	3.11	0.54	2.97	0.61	1.92	0.32	1.97	0.32	0.8	4.8	9.0	41	9.9	2.7	0.1	0.2
11-J2-171	Soil	27.6	5.03	0.88	3.60	0.63	3.82	0.80	2.27	0.37	2.44	0.39	1.5	11.9	13.0	60	18.1	7.6	0.2	0.3
11-J2-170	Soil	23.4	3.91	0.71	3.15	0.55	2.93	0.66	1.93	0.29	2.05	0.32	1.3	9.6	8.3	45	12.8	5.1	0.1	0.3
11-J2-172	Soil	27.2	5.04	0.87	4.28	0.69	4.07	0.79	2.24	0.36	2.09	0.33	1.2	15.8	23.0	50	17.7	8.6	0.1	0.2
11-J2-173	Soil	31.8	6.49	1.51	5.83	0.94	5.10	1.02	2.85	0.39	2.42	0.38	0.7	468.7	18.5	46	21.5	13.8	0.2	0.6
11-J2-169	Soil	27.1	4.54	0.83	3.63	0.58	3.34	0.73	2.30	0.34	2.40	0.35	1.0	10.5	11.7	79	14.6	4.7	0.1	0.2
11-AAB-0396	Soil	25.0	4.17	0.75	3.24	0.54	2.62	0.70	2.20	0.29	2.07	0.32	9.8	12.8	12.8	206	32.5	19.0	0.5	2.5
11-AAB-0408	Soil	22.8	3.95	0.79	3.57	0.56	2.77	0.72	2.02	0.31	2.10	0.34	6.8	22.4	8.9	157	36.8	15.7	2.6	4.3
11-AAB-0403	Soil	25.0	4.18	0.80	3.27	0.54	3.04	0.64	2.05	0.32	1.83	0.30	8.7	14.1	12.4	240	48.0	16.5	0.9	1.6
11-AAB-0395	Soil	25.1	4.22	0.78	3.22	0.51	2.91	0.61	1.85	0.28	2.06	0.30	5.3	4.4	9.3	79	12.2	6.1	0.2	0.6
11-AAB-0398	Soil	22.8	3.58	0.60	2.82	0.45	2.56	0.58	1.65	0.24	1.55	0.27	7.3	5.4	7.7	95	17.3	7.5	0.3	0.8
11-AAB-0400	Soil	20.2	3.17	0.62	2.39	0.39	2.36	0.48	1.53	0.23	1.67	0.26	3.3	9.7	5.7	56	13.9	8.0	0.3	1.4
11-AAB-0406	Soil	27.8	5.16	1.02	4.72	0.68	3.90	0.81	2.61	0.38	2.28	0.35	8.8	17.5	12.6	273	43.4	19.5	2.5	3.3
11-AAB-0405	Soil	25.0	4.03	0.67	2.92	0.48	2.86	0.61	1.85	0.32	1.79	0.32	10.7	7.8	7.9	324	24.4	14.7	1.4	1.8
11-AAB-0401	Soil	26.1	4.04	0.70	2.96	0.49	2.74	0.57	1.90	0.26	1.67	0.30	2.6	12.7	10.4	118	25.2	9.7	0.3	1.6



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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-J2-152	Soil	<0.1	<0.5	0.03	0.2	<0.5
11-J2-151	Soil	<0.1	1.5	0.02	<0.1	<0.5
11-J2-164	Soil	<0.1	1.1	0.03	0.1	<0.5
11-J2-158	Soil	<0.1	0.9	0.02	0.1	<0.5
11-J2-162	Soil	<0.1	0.5	0.04	<0.1	<0.5
11-J2-175	Soil	<0.1	0.6	0.03	<0.1	<0.5
11-J2-166	Soil	<0.1	0.7	0.03	0.1	<0.5
11-J2-167	Soil	<0.1	0.8	0.02	<0.1	<0.5
11-J2-168	Soil	<0.1	<0.5	0.05	0.1	<0.5
11-J2-155	Soil	<0.1	<0.5	<0.01	0.1	<0.5
11-J2-154	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-J2-159	Soil	<0.1	0.6	0.02	<0.1	<0.5
11-J2-160	Soil	<0.1	<0.5	0.03	0.1	<0.5
11-J2-163	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-J2-161	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-J2-165	Soil	<0.1	<0.5	0.01	<0.1	<0.5
11-J2-171	Soil	<0.1	<0.5	0.03	0.1	<0.5
11-J2-170	Soil	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-172	Soil	<0.1	<0.5	0.05	0.1	<0.5
11-J2-173	Soil	<0.1	0.9	0.07	0.1	<0.5
11-J2-169	Soil	<0.1	<0.5	0.02	0.1	<0.5
11-AAB-0396	Soil	<0.1	0.5	0.22	0.4	0.7
11-AAB-0408	Soil	0.3	0.9	0.54	0.4	1.0
11-AAB-0403	Soil	<0.1	<0.5	0.04	0.7	0.6
11-AAB-0395	Soil	<0.1	1.0	0.04	0.2	0.8
11-AAB-0398	Soil	<0.1	0.6	0.02	0.2	0.8
11-AAB-0400	Soil	<0.1	<0.5	0.03	0.1	1.0
11-AAB-0406	Soil	0.5	11.0	0.38	0.4	1.8
11-AAB-0405	Soil	0.1	<0.5	0.02	0.4	1.4
11-AAB-0401	Soil	<0.1	<0.5	0.04	0.2	0.9



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Project: TING 2A

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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	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-AAB-0392	Soil				556	<1	3.4	2.7	10.2	9.4	22.0	65.9	2	90.5	1.5	9.2	3.1	117	1.4	362.0	19.0	34.4	62.5	7.24		
11-AAB-0393	Soil				574	<1	4.6	3.6	7.8	11.4	18.1	66.0	3	68.8	1.0	7.4	3.6	167	1.6	467.5	17.5	28.1	53.5	6.52		
11-AAB-0397	Soil				600	<1	7.0	3.2	8.2	6.3	13.9	69.1	1	92.8	1.0	9.4	4.8	294	1.3	222.5	26.2	35.3	60.3	7.57		
11-AAB-0395	Soil				515	2	4.6	2.3	7.9	7.2	14.7	48.0	2	88.2	1.2	8.2	3.4	181	1.3	302.2	17.5	30.1	54.8	6.65		
11-AAB-0402	Soil				496	2	3.3	2.3	8.0	8.4	20.3	60.1	2	72.4	1.4	8.2	3.1	132	1.4	344.7	19.5	34.9	65.3	7.37		
11-BCQ-0237	Soil				675	2	8.8	3.7	14.7	9.4	26.0	72.6	3	108.1	1.9	11.2	3.1	111	2.0	323.3	22.1	37.9	74.4	8.34		
11-BCQ-0236	Soil				381	2	6.1	2.6	7.9	8.5	18.2	48.2	1	78.4	1.3	8.1	2.4	67	1.2	339.2	25.2	25.5	51.8	5.67		
11-BCQ-0233	Soil				645	<1	6.8	3.0	10.3	9.0	19.6	64.9	2	95.2	1.3	8.2	3.0	94	1.7	361.5	22.5	32.2	63.6	7.07		
11-BCQ-0234	Soil				325	4	9.7	4.3	11.0	9.0	24.7	64.5	2	41.8	1.5	9.6	2.9	101	1.7	362.0	20.2	34.6	67.7	7.39		
11-BCQ-0232	Soil				776	4	6.9	3.3	15.3	8.8	22.7	74.5	3	140.6	1.4	10.7	3.6	111	2.2	347.2	24.5	40.2	75.1	8.82		
11-BCQ-0231	Soil				738	2	6.5	3.8	16.0	7.9	23.2	71.4	3	118.0	1.6	9.2	3.0	112	2.5	316.6	21.9	35.8	68.7	8.07		
11-BCQ-0235	Soil				539	<1	7.7	4.9	14.5	8.2	25.2	89.7	3	81.0	1.6	10.4	3.1	110	2.0	325.6	21.4	37.9	76.9	8.60		
11-BCQ-0250	Soil				556	<1	8.0	4.5	11.9	8.1	24.1	79.7	3	68.7	1.4	10.3	3.1	110	1.5	311.7	24.5	39.2	77.2	8.62		
11-BCQ-0252	Soil				722	3	7.1	4.1	14.6	8.7	20.1	80.7	3	133.0	1.3	10.7	3.7	105	1.7	371.2	24.2	39.4	77.3	8.42		
11-BCQ-0253	Soil				206	<1	8.9	2.8	8.4	7.9	16.0	48.5	2	19.6	1.1	7.1	2.5	76	1.1	313.8	15.3	27.2	54.2	5.75		
11-BCQ-0247	Soil				831	<1	8.9	4.6	17.2	7.3	24.7	75.5	3	138.2	1.8	12.6	3.9	115	2.3	305.6	28.0	45.8	88.8	9.91		
11-BCQ-0249	Soil				632	4	8.7	3.8	15.0	8.4	23.6	65.1	3	115.9	1.5	10.4	2.8	105	2.0	327.4	21.3	33.0	65.0	7.02		
11-BCQ-0251	Soil				291	1	14.1	5.5	12.4	5.3	23.0	76.7	2	24.7	1.4	8.5	2.3	135	1.7	226.1	20.6	36.1	71.0	7.92		
11-BCQ-0245	Soil				264	<1	4.9	2.7	9.3	8.2	29.6	51.5	2	45.0	1.8	7.7	2.2	83	2.2	329.3	17.5	34.7	70.6	7.85		
11-BCQ-0240	Soil				602	2	5.6	2.8	12.0	7.3	18.8	60.8	2	95.5	1.4	8.6	2.6	106	4.8	283.7	18.0	32.6	62.8	7.16		
11-BCQ-0239	Soil				445	<1	5.3	3.0	10.5	6.8	20.7	57.7	2	69.4	1.4	7.3	2.4	96	1.5	294.0	18.3	29.2	56.4	6.59		
11-BCQ-0238	Soil				191	<1	6.2	2.5	7.5	7.7	28.3	48.2	4	26.1	1.8	7.8	2.4	68	2.1	318.0	18.1	31.6	63.0	7.06		
11-BCQ-0243	Soil				193	<1	5.4	2.2	6.5	7.7	20.2	37.6	1	30.6	1.3	6.7	2.3	55	1.5	329.7	14.9	24.6	52.5	5.73		
11-BCQ-0241	Soil				586	1	12.7	2.8	11.0	7.3	14.0	52.5	2	85.9	1.0	9.0	3.1	92	1.5	311.6	18.7	28.5	66.2	6.72		
11-BCQ-0224	Soil				615	1	7.2	2.8	10.6	7.6	15.3	55.9	2	87.7	1.1	8.9	2.8	97	1.5	307.4	19.6	29.9	63.7	6.86		
11-BCQ-0230	Soil				238	<1	6.9	2.2	6.8	7.4	16.4	41.6	1	29.5	1.0	6.2	2.0	73	0.9	310.3	15.3	22.8	45.9	5.30		
11-BCQ-0226	Soil				596	<1	4.8	3.1	11.7	7.3	17.2	78.5	2	92.0	1.3	8.2	2.3	96	1.3	303.5	18.8	33.2	64.1	7.42		
11-BCQ-0229	Soil				568	<1	7.1	3.2	11.0	7.1	19.0	62.8	2	88.3	1.2	7.8	2.4	96	1.3	300.4	20.0	31.8	61.6	7.11		
11-BCQ-0225	Soil				651	2	8.6	2.9	12.8	7.3	18.1	60.9	3	114.0	1.3	8.4	2.8	101	1.7	303.4	19.8	32.5	64.0	7.15		
11-BCQ-0228	Soil				594	<1	7.0	4.6	12.0	6.6	17.4	68.3	2	95.5	1.3	8.0	2.3	108	1.5	266.4	18.8	31.7	60.6	6.97		



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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 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-0392	Soil	24.9	4.13	0.75	3.25	0.55	3.34	0.68	2.05	0.32	2.23	0.32	1.6	5.0	12.9	78	11.3	6.1	0.2	0.4
11-AAB-0393	Soil	23.4	4.57	0.89	3.44	0.49	2.77	0.53	1.57	0.30	1.91	0.31	4.2	10.3	9.8	135	17.6	8.9	0.5	1.0
11-AAB-0397	Soil	27.1	5.08	0.97	4.13	0.70	3.84	0.78	2.11	0.36	2.18	0.36	14.6	20.9	8.8	192	49.2	13.6	1.9	2.2
11-AAB-0395	Soil	21.8	3.87	0.69	2.84	0.48	2.68	0.55	1.56	0.24	1.76	0.26	3.5	8.4	8.6	162	24.6	8.0	0.6	1.0
11-AAB-0402	Soil	26.1	4.33	0.76	3.22	0.54	3.57	0.65	1.81	0.28	2.05	0.31	2.2	7.0	8.5	82	14.6	6.5	0.2	0.6
11-BCQ-0237	Soil	29.8	5.24	0.94	4.11	0.66	3.75	0.81	2.24	0.33	2.13	0.39	0.8	9.1	11.5	61	16.8	6.0	<0.1	0.2
11-BCQ-0236	Soil	20.0	3.69	0.74	3.84	0.75	4.87	0.80	2.39	0.32	2.11	0.35	0.6	7.5	7.0	26	8.8	2.9	0.1	0.1
11-BCQ-0233	Soil	25.0	4.30	0.82	3.67	0.62	3.48	0.75	2.21	0.32	2.37	0.39	0.7	8.3	9.4	51	15.3	4.9	0.1	0.2
11-BCQ-0234	Soil	27.3	4.36	0.87	3.75	0.58	3.49	0.72	2.11	0.35	2.16	0.35	0.7	12.0	7.4	37	15.7	3.7	0.1	0.2
11-BCQ-0232	Soil	30.9	5.43	0.99	4.43	0.70	4.25	0.86	2.53	0.38	2.24	0.38	1.0	9.0	10.5	57	13.1	5.3	0.2	0.2
11-BCQ-0231	Soil	27.4	4.93	0.86	3.82	0.59	3.63	0.73	2.10	0.36	2.33	0.38	1.1	8.9	12.7	72	13.7	5.7	0.2	0.2
11-BCQ-0235	Soil	28.3	5.22	0.97	3.98	0.64	3.57	0.75	2.17	0.38	2.55	0.39	0.5	6.4	8.8	32	13.9	1.7	<0.1	0.1
11-BCQ-0250	Soil	32.3	5.49	1.02	4.60	0.72	3.69	0.78	2.40	0.37	2.36	0.39	0.7	12.5	8.6	43	15.6	3.1	0.2	0.2
11-BCQ-0252	Soil	28.9	5.07	0.98	4.35	0.72	3.94	0.86	2.52	0.41	2.87	0.42	0.5	10.2	7.6	37	12.0	2.1	0.1	0.1
11-BCQ-0253	Soil	21.1	3.39	0.64	2.79	0.44	2.57	0.59	1.56	0.26	1.74	0.27	0.4	22.9	7.7	33	16.4	2.6	<0.1	0.1
11-BCQ-0247	Soil	35.2	7.05	1.37	6.02	0.96	5.29	0.95	2.94	0.42	2.58	0.39	0.8	20.7	12.1	70	22.4	5.5	0.1	0.2
11-BCQ-0249	Soil	27.5	4.39	0.77	3.72	0.60	3.52	0.73	2.24	0.30	2.26	0.34	1.0	7.7	11.6	62	17.8	6.1	<0.1	0.2
11-BCQ-0251	Soil	26.9	4.79	0.90	3.84	0.61	3.58	0.77	2.26	0.34	2.23	0.35	0.4	35.2	7.6	50	26.9	1.8	0.1	0.1
11-BCQ-0245	Soil	27.7	4.49	0.81	3.35	0.54	2.84	0.65	1.76	0.29	2.01	0.31	0.5	5.1	5.8	20	9.4	2.1	<0.1	0.1
11-BCQ-0240	Soil	25.5	4.23	0.75	3.47	0.54	3.01	0.66	1.86	0.31	1.99	0.33	1.1	6.9	11.5	61	14.2	7.2	0.1	0.3
11-BCQ-0239	Soil	24.2	3.68	0.70	3.09	0.49	2.76	0.59	1.99	0.30	2.01	0.30	0.8	7.0	8.6	38	11.1	4.0	0.1	0.2
11-BCQ-0238	Soil	25.1	4.31	0.72	3.48	0.55	3.03	0.67	2.01	0.30	1.93	0.32	0.4	12.3	4.5	20	13.4	2.6	<0.1	0.2
11-BCQ-0243	Soil	20.1	3.41	0.64	2.68	0.42	2.40	0.55	1.61	0.23	1.63	0.24	0.6	8.9	5.6	15	9.3	3.8	0.1	0.2
11-BCQ-0241	Soil	23.6	4.33	0.82	3.69	0.58	3.06	0.68	1.95	0.30	1.98	0.29	0.8	6.6	14.8	56	20.6	7.8	0.2	0.2
11-BCQ-0224	Soil	24.6	4.31	0.86	3.64	0.57	3.42	0.74	2.08	0.32	2.17	0.32	0.8	10.3	12.1	55	21.0	7.3	<0.1	0.2
11-BCQ-0230	Soil	17.9	3.11	0.60	2.69	0.43	2.47	0.52	1.67	0.26	1.70	0.26	0.4	9.1	6.4	25	11.6	2.9	<0.1	0.1
11-BCQ-0226	Soil	25.2	4.37	0.76	3.43	0.53	2.97	0.67	1.99	0.29	1.97	0.31	0.8	6.2	6.1	40	10.8	3.8	<0.1	0.2
11-BCQ-0229	Soil	24.8	4.43	0.88	3.91	0.61	3.28	0.68	2.03	0.30	2.19	0.31	0.7	13.0	7.8	43	11.3	2.4	0.2	0.1
11-BCQ-0225	Soil	25.8	4.58	0.86	3.82	0.58	3.44	0.69	1.97	0.31	1.84	0.32	0.7	10.0	11.3	41	10.3	3.1	0.2	0.1
11-BCQ-0228	Soil	23.3	4.06	0.78	3.49	0.52	3.26	0.66	1.90	0.30	1.96	0.31	0.8	22.0	7.8	53	14.0	3.2	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-0392	Soil	<0.1	<0.5	0.02	0.2	0.6
11-AAB-0393	Soil	<0.1	<0.5	0.02	0.2	0.6
11-AAB-0397	Soil	0.2	0.9	0.17	0.6	1.3
11-AAB-0395	Soil	0.1	<0.5	0.04	0.2	1.0
11-AAB-0402	Soil	<0.1	0.9	0.02	0.1	<0.5
11-BCQ-0237	Soil	<0.1	<0.5	0.02	0.1	0.7
11-BCQ-0236	Soil	<0.1	0.8	0.02	<0.1	<0.5
11-BCQ-0233	Soil	<0.1	<0.5	0.01	0.1	0.6
11-BCQ-0234	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-BCQ-0232	Soil	<0.1	<0.5	0.04	<0.1	<0.5
11-BCQ-0231	Soil	<0.1	<0.5	0.07	<0.1	0.5
11-BCQ-0235	Soil	<0.1	<0.5	0.01	0.1	0.6
11-BCQ-0250	Soil	<0.1	1.3	0.02	0.1	0.9
11-BCQ-0252	Soil	<0.1	0.8	0.02	<0.1	0.6
11-BCQ-0253	Soil	<0.1	<0.5	0.02	<0.1	0.6
11-BCQ-0247	Soil	<0.1	1.1	0.04	0.2	1.2
11-BCQ-0249	Soil	<0.1	0.5	0.03	0.1	<0.5
11-BCQ-0251	Soil	<0.1	<0.5	0.03	<0.1	<0.5
11-BCQ-0245	Soil	<0.1	<0.5	0.01	<0.1	0.8
11-BCQ-0240	Soil	<0.1	<0.5	0.02	0.1	<0.5
11-BCQ-0239	Soil	<0.1	2.4	0.02	<0.1	<0.5
11-BCQ-0238	Soil	<0.1	<0.5	0.01	<0.1	0.5
11-BCQ-0243	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-BCQ-0241	Soil	0.2	<0.5	0.03	0.1	0.7
11-BCQ-0224	Soil	<0.1	<0.5	0.02	0.1	<0.5
11-BCQ-0230	Soil	<0.1	<0.5	0.01	<0.1	<0.5
11-BCQ-0226	Soil	<0.1	<0.5	0.01	<0.1	<0.5
11-BCQ-0229	Soil	<0.1	0.8	0.02	<0.1	<0.5
11-BCQ-0225	Soil	<0.1	<0.5	0.03	0.1	<0.5
11-BCQ-0228	Soil	<0.1	<0.5	0.02	<0.1	<0.5



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CERTIFICATE OF ANALYSIS

VAN11004021.1

	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-BCQ-0227	Soil	432	<1	6.6	4.2	10.5	7.0	18.2	58.9	2	59.9	1.2	6.6	2.2	96	1.3	292.0	17.1	27.3	53.0
11-AAB-0386	Soil	528	<1	3.6	2.4	9.9	6.8	17.5	52.9	2	78.8	1.2	7.1	2.2	140	1.4	280.5	16.1	30.6	54.4
11-AAB-0385	Soil	448	<1	2.2	1.8	6.8	7.2	18.3	42.4	1	57.6	1.3	7.1	2.7	149	1.4	299.1	16.9	28.7	50.1



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CERTIFICATE OF ANALYSIS

VAN11004021.1

	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	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-BCQ-0227	Soil	21.4	3.94	0.75	3.19	0.47	2.76	0.56	1.65	0.27	1.68	0.29	1.0	13.5	8.2	53	14.3	3.8	0.3	0.2
11-AAB-0386	Soil	22.0	3.58	0.62	2.87	0.46	2.63	0.53	1.60	0.24	1.61	0.27	1.7	7.0	11.6	64	13.1	7.2	0.1	0.4
11-AAB-0385	Soil	22.6	3.32	0.60	2.96	0.44	2.68	0.58	1.68	0.26	1.57	0.27	1.8	7.9	7.6	41	9.6	5.3	<0.1	0.6

CERTIFICATE OF ANALYSIS

VAN11004021.1

	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-BCQ-0227	Soil	<0.1	<0.5	0.02	<0.1	<0.5
11-AAB-0386	Soil	<0.1	1.9	0.03	0.2	<0.5
11-AAB-0385	Soil	<0.1	2.1	0.02	0.2	<0.5



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Part 1

QUALITY CONTROL REPORT

VAN11004021.1

	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-MGB-428	Soil	942	<1	9.1	4.2	13.8	7.5	19.6	79.3	2	119.4	1.4	11.1	2.9	103	1.6	267.8	20.5	37.4	76.5
REP 11-MGB-428	QC	927	1	8.4	4.0	13.4	6.6	19.4	74.7	3	115.4	1.3	10.2	2.8	102	1.4	263.4	19.4	35.3	73.1
11-J2-190	Soil	346	<1	8.3	2.7	9.3	8.0	21.7	56.4	2	58.2	1.4	10.4	2.8	76	1.5	297.0	20.8	34.9	74.9
REP 11-J2-190	QC																			
11-J2-107	Soil	843	3	14.6	5.7	14.0	9.0	31.4	91.4	2	51.8	1.8	13.1	3.2	140	1.8	317.9	32.6	50.1	87.7
REP 11-J2-107	QC	831	1	15.2	5.4	13.5	8.9	33.9	93.3	2	54.1	2.1	13.1	3.4	140	2.0	322.3	33.7	48.8	85.2
11-J2-108	Soil	901	3	6.6	3.2	13.3	7.7	19.5	66.3	2	121.7	1.3	9.5	2.7	97	1.0	293.6	21.0	33.5	68.1
REP 11-J2-108	QC																			
11-BCQ-0195	Soil	197	<1	3.6	6.7	10.3	11.6	25.6	73.7	2	60.9	1.5	10.6	2.9	69	2.1	465.6	28.4	48.4	95.6
REP 11-BCQ-0195	QC	200	<1	2.7	7.0	9.7	10.1	25.9	73.1	2	58.5	1.7	10.9	2.7	69	1.9	420.1	28.4	47.6	94.0
11-BCQ-0221	Soil	573	<1	12.6	2.6	12.1	7.4	19.9	55.5	3	94.0	1.3	10.9	3.1	114	1.7	321.6	23.6	34.1	72.8
REP 11-BCQ-0221	QC																			
11-J2-167	Soil	567	<1	4.0	2.0	9.8	10.0	15.3	57.3	2	84.8	1.1	7.2	2.5	82	1.4	361.9	16.5	30.3	59.5
REP 11-J2-167	QC	543	<1	4.1	1.9	9.9	11.6	15.5	57.1	2	89.8	1.8	7.3	2.6	81	1.4	404.4	17.1	27.8	54.3
11-J2-159	Soil	534	<1	3.5	2.0	17.8	10.5	27.8	52.6	4	136.1	2.0	10.1	3.2	108	2.2	426.3	22.5	36.4	70.0
REP 11-J2-159	QC																			
11-AAB-0392	Soil	556	<1	3.4	2.7	10.2	9.4	22.0	65.9	2	90.5	1.5	9.2	3.1	117	1.4	362.0	19.0	34.4	62.5
REP 11-AAB-0392	QC	573	<1	3.7	2.8	10.4	8.9	23.1	68.6	3	92.6	1.5	8.4	3.2	123	1.8	351.7	20.5	33.1	61.5
11-BCQ-0240	Soil	602	2	5.6	2.8	12.0	7.3	18.8	60.8	2	95.5	1.4	8.6	2.6	106	4.8	283.7	18.0	32.6	62.8
REP 11-BCQ-0240	QC	646	<1	5.5	3.0	12.6	7.8	19.3	65.6	2	101.5	1.3	8.6	2.6	109	1.7	303.4	19.7	32.9	65.2
11-BCQ-0241	Soil	586	1	12.7	2.8	11.0	7.3	14.0	52.5	2	85.9	1.0	9.0	3.1	92	1.5	311.6	18.7	28.5	66.2
REP 11-BCQ-0241	QC																			
Reference Materials																				
STD DS8	Standard																			
STD DS8	Standard																			
STD DS8	Standard																			
STD DS8	Standard																			
STD DS8	Standard																			



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Part 2

QUALITY CONTROL REPORT

VAN11004021.1

	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-MGB-428	Soil	29.1	4.89	0.89	4.17	0.62	3.56	0.76	2.07	0.33	2.02	0.33	0.6	5.2	14.7	77	14.3	7.1	0.9	0.2
REP 11-MGB-428	QC	27.9	4.76	0.94	3.72	0.60	3.35	0.71	2.01	0.33	2.08	0.31								
11-J2-190	Soil	32.8	5.23	1.09	4.55	0.71	4.32	0.84	2.50	0.36	2.63	0.37	0.5	19.3	16.5	39	15.9	6.4	0.2	0.2
REP 11-J2-190	QC												0.4	18.2	15.3	37	14.3	5.8	0.1	0.3
11-J2-107	Soil	44.0	7.27	1.69	6.22	1.01	5.81	1.15	3.07	0.49	2.88	0.46	1.2	13.6	15.7	107	41.4	38.6	0.7	0.4
REP 11-J2-107	QC	44.9	7.49	1.70	6.57	1.04	5.94	1.17	3.25	0.51	3.15	0.47								
11-J2-108	Soil	28.2	4.84	0.96	3.55	0.61	4.07	0.77	2.24	0.35	2.16	0.33	1.0	5.9	10.6	76	11.7	20.6	1.1	0.2
REP 11-J2-108	QC												1.0	5.9	10.4	76	11.9	20.6	1.0	0.2
11-BCQ-0195	Soil	36.3	5.89	1.18	5.06	0.82	4.83	1.01	3.06	0.52	3.25	0.51	0.4	6.0	31.2	10	5.6	8.4	<0.1	0.1
REP 11-BCQ-0195	QC	34.6	5.87	1.19	4.91	0.80	4.58	0.97	2.79	0.48	3.08	0.48								
11-BCQ-0221	Soil	29.0	5.01	0.95	4.21	0.69	4.02	0.80	2.29	0.38	2.39	0.34	1.7	10.2	22.4	167	32.6	11.7	1.0	0.4
REP 11-BCQ-0221	QC												1.5	10.8	23.0	173	33.1	12.2	1.0	0.5
11-J2-167	Soil	25.6	4.19	0.75	3.22	0.53	2.96	0.67	1.91	0.28	2.02	0.31	0.9	5.9	8.0	52	10.6	4.3	0.2	0.3
REP 11-J2-167	QC	22.8	3.76	0.72	3.13	0.50	2.97	0.64	1.99	0.30	2.11	0.33								
11-J2-159	Soil	26.8	4.96	0.87	3.88	0.63	3.87	0.75	2.17	0.35	2.28	0.38	1.3	5.7	8.7	34	5.8	3.4	0.2	0.1
REP 11-J2-159	QC												1.4	5.8	8.7	35	5.8	3.5	0.2	0.2
11-AAB-0392	Soil	24.9	4.13	0.75	3.25	0.55	3.34	0.68	2.05	0.32	2.23	0.32	1.6	5.0	12.9	78	11.3	6.1	0.2	0.4
REP 11-AAB-0392	QC	25.3	4.16	0.81	3.29	0.55	3.39	0.69	2.05	0.31	2.15	0.34								
11-BCQ-0240	Soil	25.5	4.23	0.75	3.47	0.54	3.01	0.66	1.86	0.31	1.99	0.33	1.1	6.9	11.5	61	14.2	7.2	0.1	0.3
REP 11-BCQ-0240	QC	26.8	4.40	0.75	3.44	0.56	3.11	0.67	1.97	0.32	2.13	0.32								
11-BCQ-0241	Soil	23.6	4.33	0.82	3.69	0.58	3.06	0.68	1.95	0.30	1.98	0.29	0.8	6.6	14.8	56	20.6	7.8	0.2	0.2
REP 11-BCQ-0241	QC												0.8	6.4	14.6	55	21.1	7.4	0.2	0.2
Reference Materials																				
STD DS8	Standard												15.5	108.6	129.9	330	39.2	26.9	2.2	3.9
STD DS8	Standard												9.6	109.9	115.5	307	38.9	25.6	2.3	3.1
STD DS8	Standard												13.9	106.9	124.1	316	38.4	24.8	2.3	4.9
STD DS8	Standard												14.6	116.8	141.8	332	41.5	27.3	2.4	5.0
STD DS8	Standard												12.9	110.3	116.9	306	37.7	24.1	2.0	4.0



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QUALITY CONTROL REPORT

VAN11004021.1

	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-428	Soil	<0.1	1.1	0.03	<0.1	<0.5
REP 11-MGB-428	QC					
11-J2-190	Soil	<0.1	<0.5	0.02	0.1	<0.5
REP 11-J2-190	QC	<0.1	<0.5	0.03	0.1	<0.5
11-J2-107	Soil	<0.1	1.2	0.03	0.2	<0.5
REP 11-J2-107	QC					
11-J2-108	Soil	<0.1	<0.5	0.01	0.1	<0.5
REP 11-J2-108	QC	<0.1	<0.5	<0.01	0.1	<0.5
11-BCQ-0195	Soil	<0.1	2.1	0.03	0.2	<0.5
REP 11-BCQ-0195	QC					
11-BCQ-0221	Soil	<0.1	1.1	0.02	0.2	<0.5
REP 11-BCQ-0221	QC	<0.1	<0.5	0.03	0.2	0.7
11-J2-167	Soil	<0.1	0.8	0.02	<0.1	<0.5
REP 11-J2-167	QC					
11-J2-159	Soil	<0.1	0.6	0.02	<0.1	<0.5
REP 11-J2-159	QC	<0.1	<0.5	0.02	<0.1	<0.5
11-AAB-0392	Soil	<0.1	<0.5	0.02	0.2	0.6
REP 11-AAB-0392	QC					
11-BCQ-0240	Soil	<0.1	<0.5	0.02	0.1	<0.5
REP 11-BCQ-0240	QC					
11-BCQ-0241	Soil	0.2	<0.5	0.03	0.1	0.7
REP 11-BCQ-0241	QC	0.1	1.1	0.02	0.1	<0.5
Reference Materials						
STD DS8	Standard	1.9	120.5	0.19	5.4	5.2
STD DS8	Standard	1.5	111.3	0.16	5.1	5.7
STD DS8	Standard	1.7	109.7	0.19	5.9	5.3
STD DS8	Standard	1.7	129.4	0.24	6.2	5.3
STD DS8	Standard	1.6	115.8	0.19	5.2	5.6



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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 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	507	2	25.1	6.7	17.2	9.5	19.7	27.6	14	397.6	7.4	10.0	16.0	193	13.8	278.0	29.6	11.9	26.0	3.25
STD SO-18	Standard	511	<1	25.1	6.7	17.4	9.2	20.2	27.5	14	391.4	7.1	10.1	15.7	187	12.6	282.2	29.9	12.5	26.6	3.33
STD SO-18	Standard	533	<1	27.3	7.2	17.5	9.5	20.7	28.7	16	418.4	7.5	10.4	16.5	196	14.7	292.2	31.2	12.2	27.4	3.37
STD SO-18	Standard	535	<1	27.5	7.1	17.4	9.8	20.7	28.3	15	416.5	7.5	10.4	16.4	199	15.2	291.4	30.9	12.0	26.7	3.31
STD SO-18	Standard	520	<1	26.5	7.2	17.4	9.0	20.8	27.5	15	409.1	7.2	9.4	15.4	212	14.2	291.4	30.8	12.5	26.8	3.34
STD SO-18	Standard	500	<1	25.8	6.6	16.4	9.2	19.4	26.8	14	400.3	7.2	9.5	15.6	201	13.3	280.6	30.5	11.9	25.7	3.23
STD SO-18	Standard	515	<1	26.0	6.8	17.0	8.6	20.6	26.9	15	397.0	7.1	9.3	15.3	207	13.1	284.0	29.8	11.6	25.2	3.27
STD SO-18	Standard	506	<1	25.5	6.8	16.2	8.3	20.1	26.8	14	396.0	6.9	9.2	14.9	200	12.7	280.7	29.9	12.0	25.3	3.24
STD SO-18	Standard	514	<1	25.3	6.7	17.2	9.6	20.8	27.5	15	404.3	7.2	9.5	16.3	200	14.5	288.9	30.3	12.3	27.2	3.39
STD SO-18	Standard	514	<1	25.4	7.0	17.4	9.7	20.5	27.1	15	403.2	7.1	10.0	16.5	198	13.9	285.0	30.6	12.4	26.9	3.35
STD SO-18	Standard	524	<1	27.7	6.8	17.4	9.5	21.2	28.9	16	424.1	6.7	10.1	16.8	196	14.3	303.4	30.6	12.9	27.4	3.41
STD SO-18	Standard	536	2	28.1	7.3	18.2	9.8	22.4	29.8	15	438.5	7.4	11.2	17.6	199	15.5	306.0	32.5	13.3	27.7	3.46
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																				
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																				



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Victoria BC V8Z 2B6 Canada

Project:

TING 2A

Report Date:

November 22, 2011

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Part 2

QUALITY CONTROL REPORT

VAN11004021.1

		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												12.2	112.2	125.6	318	37.7	26.2	2.2
STD DS8	Standard												11.9	100.4	109.9	281	36.3	20.9	2.1
STD OREAS45CA	Standard												0.7	526.1	19.3	61	261.3	3.8	<0.1
STD OREAS45CA	Standard												0.7	502.6	19.5	61	245.4	2.7	0.1
STD OREAS45CA	Standard												0.9	558.1	22.1	66	281.4	4.2	<0.1
STD OREAS45CA	Standard												0.8	531.6	21.7	68	269.2	4.3	0.1
STD OREAS45CA	Standard												0.7	506.1	19.0	60	241.4	3.9	<0.1
STD OREAS45CA	Standard												0.8	493.2	18.7	57	238.5	3.1	0.1
STD OREAS45CA	Standard												0.8	505.2	24.0	61	248.5	3.3	0.1
STD SO-18	Standard	13.2	2.90	0.83	2.88	0.49	2.87	0.62	1.72	0.28	1.69	0.27							
STD SO-18	Standard	14.5	2.88	0.86	2.92	0.48	2.76	0.58	1.85	0.27	1.83	0.26							
STD SO-18	Standard	14.2	2.93	0.89	2.94	0.49	3.06	0.62	1.84	0.28	1.79	0.27							
STD SO-18	Standard	13.9	2.99	0.86	2.92	0.49	3.00	0.60	1.72	0.27	1.77	0.27							
STD SO-18	Standard	13.5	2.80	0.85	2.93	0.50	2.91	0.62	1.83	0.28	1.82	0.26							
STD SO-18	Standard	13.5	2.71	0.83	2.88	0.47	2.77	0.58	1.77	0.28	1.82	0.26							
STD SO-18	Standard	12.7	2.74	0.84	2.76	0.48	2.78	0.62	1.81	0.27	1.69	0.27							
STD SO-18	Standard	12.6	2.73	0.82	2.81	0.48	2.72	0.60	1.79	0.26	1.70	0.26							
STD SO-18	Standard	14.0	2.91	0.88	2.91	0.50	2.97	0.64	1.85	0.27	1.84	0.27							
STD SO-18	Standard	13.6	2.90	0.85	2.93	0.49	2.92	0.60	1.84	0.28	1.86	0.27							
STD SO-18	Standard	13.8	2.90	0.86	2.98	0.50	2.76	0.61	1.81	0.27	1.83	0.28							
STD SO-18	Standard	14.4	2.93	0.88	3.04	0.51	2.79	0.63	1.99	0.28	1.84	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												<0.1	<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							
BLK	Blank												<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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537 Kenneth Street

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Project: TING 2A

Report Date: November 22, 2011

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QUALITY CONTROL REPORT

VAN11004021.1

		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 DS8	Standard	2.1	111.8	0.20	5.5	6.1
STD DS8	Standard	1.7	92.4	0.16	4.8	4.3
STD OREAS45CA	Standard	0.3	42.7	0.03	<0.1	<0.5
STD OREAS45CA	Standard	0.3	37.0	0.04	<0.1	<0.5
STD OREAS45CA	Standard	0.3	47.3	0.04	0.1	1.2
STD OREAS45CA	Standard	0.3	42.4	0.04	0.1	<0.5
STD OREAS45CA	Standard	0.3	40.1	0.03	<0.1	0.7
STD OREAS45CA	Standard	0.3	37.6	0.03	<0.1	0.7
STD OREAS45CA	Standard	0.3	37.9	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	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	<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	<0.1	<0.5	<0.01	<0.1	<0.5



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QUALITY CONTROL REPORT

VAN11004021.1

		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																				
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	2.0	<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



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Project: TING 2A

Report Date: November 22, 2011

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QUALITY CONTROL REPORT

VAN11004021.1

		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
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							
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

VAN11004021.1

		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	<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					
BLK	Blank					
BLK	Blank					



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537 Kenneth Street
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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: August 26, 2011

Report Date: November 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11004232.1

CLIENT JOB INFORMATION

Project: TING 2B
Shipment ID: 51738171295
P.O. Number
Number of Samples: 80

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	80	Crush, split and pulverize 250 g rock to 200 mesh			VAN
4B02	80	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: Lee A. Groat
Michael Burns
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 2B
Report Date: November 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11004232.1

		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-BCQ-0279	Rock	2.10	56	<1	0.5	0.2	1.4	4.4	2.3	3.2	4	13.1	0.2	1.6	0.7	26	<0.5	182.4	6.4	5.1	9.4	
11-BCQ-0277	Rock	1.46	31	<1	0.5	<0.1	0.9	18.7	3.6	0.9	<1	12.8	0.3	3.6	1.6	8	<0.5	722.9	8.8	7.8	16.0	
11-BCQ-0281	Rock	2.02	32	<1	0.5	<0.1	1.4	7.2	2.1	0.5	<1	8.7	0.2	1.6	0.7	12	<0.5	283.2	5.1	4.6	9.0	
11-BCQ-0283	Rock	1.78	18	<1	0.6	<0.1	0.9	6.3	2.5	0.5	<1	5.6	0.1	1.5	0.6	<8	<0.5	252.5	4.2	5.0	9.9	
11-BCQ-0278	Rock	1.84	11	<1	0.5	<0.1	1.3	10.5	3.4	0.2	<1	6.7	0.2	2.5	1.0	9	<0.5	408.7	8.2	7.6	15.1	
11-BCQ-0285	Rock	1.99	27	<1	0.2	<0.1	0.7	7.5	1.7	0.4	<1	4.3	0.1	1.5	0.6	<8	<0.5	306.9	4.4	4.8	9.2	
11-BCQ-0280	Rock	1.48	14	<1	0.6	<0.1	1.4	2.8	1.7	0.9	<1	5.3	0.1	1.1	0.6	10	<0.5	122.7	7.1	4.2	8.3	
11-BCQ-0282	Rock	1.93	22	<1	0.5	<0.1	1.2	4.5	1.5	1.0	<1	9.5	0.1	1.3	0.6	12	<0.5	169.6	3.5	4.1	8.4	
11-J2-220	Rock	1.71	54	<1	0.2	0.2	1.9	2.8	1.6	2.5	<1	25.8	<0.1	1.0	0.4	20	<0.5	116.4	3.7	3.5	6.6	
11-J2-219	Rock	4.67	91	2	2.6	0.2	1.1	6.8	2.1	2.6	<1	31.6	0.2	1.8	0.7	12	<0.5	286.3	11.3	5.6	11.4	
11-J2-211	Rock	0.81	32	<1	0.4	<0.1	1.1	8.3	1.9	1.3	<1	18.8	0.2	1.8	0.8	<8	<0.5	331.5	5.3	5.9	11.7	
11-J2-215	Rock	1.22	78	<1	1.8	<0.1	1.2	13.6	2.8	2.3	<1	27.3	0.2	2.8	1.1	<8	<0.5	536.5	11.2	6.4	13.3	
11-J2-212	Rock	1.71	93	<1	2.0	0.3	1.6	4.4	2.0	3.1	<1	19.4	0.1	1.6	0.6	11	<0.5	177.1	9.4	4.5	9.4	
11-J2-221	Rock	0.95	83	<1	1.1	0.4	1.5	8.5	2.5	3.8	<1	31.6	0.2	2.2	0.9	<8	<0.5	330.9	8.3	6.7	13.8	
11-J2-222	Rock	1.12	37	<1	1.9	<0.1	1.1	8.5	2.0	1.5	<1	12.2	0.2	1.5	0.7	<8	<0.5	339.4	12.6	5.1	9.9	
11-AAB-0429	Rock	1.01	3081	<1	0.7	1.4	4.1	9.9	4.6	28.5	<1	45.9	0.4	4.6	12.2	45	<0.5	399.2	23.3	19.2	25.0	
11-AAB-0434	Rock	2.57	37	<1	0.5	0.2	1.8	2.6	0.9	4.7	<1	39.8	<0.1	1.2	1.0	16	<0.5	89.5	4.2	5.0	8.1	
11-AAB-0430	Rock	0.57	137	<1	2.0	1.2	4.4	7.3	6.2	28.4	<1	62.4	0.4	5.7	4.0	40	0.5	281.1	26.9	23.7	33.7	
11-AAB-0432	Rock	1.26	64	<1	0.7	0.4	2.0	3.3	2.9	8.4	<1	139.7	0.2	3.0	2.0	25	<0.5	130.1	15.9	12.4	16.8	
11-BCQ-275	Rock	1.05	25	<1	1.2	0.9	2.5	0.5	3.2	15.6	<1	318.5	0.2	1.5	0.6	11	<0.5	19.5	2.7	5.0	9.0	
11-J2-205	Rock	1.77	16	<1	0.7	0.3	1.6	0.3	3.2	7.6	<1	36.9	0.2	0.9	0.5	<8	<0.5	14.6	2.3	5.2	9.0	
11-J2-207	Rock	1.72	43	<1	0.3	0.7	2.2	0.4	3.8	13.1	<1	51.5	0.2	1.4	0.5	<8	<0.5	17.8	3.8	8.8	17.4	
11-J2-201	Rock	1.21	23	<1	1.1	0.8	2.3	0.7	7.7	12.2	<1	32.2	0.3	2.0	1.1	10	<0.5	30.9	3.5	6.6	12.2	
11-J2-199	Rock	1.40	1127	<1	1.0	0.5	3.8	1.7	7.8	21.4	<1	33.9	0.5	2.5	0.4	30	<0.5	82.7	12.6	13.5	30.6	
11-J2-202	Rock	1.26	79	<1	0.6	0.2	1.2	0.6	2.2	6.6	<1	42.5	0.1	1.0	0.2	<8	<0.5	23.1	4.8	4.1	10.0	
11-WJH-052	Rock	0.83	131	<1	0.7	0.3	1.4	0.7	2.7	7.4	<1	44.0	0.2	0.9	0.3	22	<0.5	32.8	10.9	7.3	18.3	
11-WJH-046	Rock	1.57	85	<1	0.3	0.4	2.0	1.1	3.1	8.8	<1	35.0	0.2	1.3	0.3	15	<0.5	43.2	10.6	8.7	19.9	
11-WJH-066	Rock	1.05	283	1	12.0	0.8	4.2	10.0	14.0	22.7	<1	5.1	0.9	7.1	3.5	87	1.0	388.6	20.8	26.9	58.5	
11-WJH-059	Rock	1.34	27989	2	9.6	0.8	6.2	5.3	7.2	44.0	<1	41.6	0.7	6.4	7.3	149	1.1	190.8	30.1	21.5	36.7	
11-WJH-048	Rock	2.19	176	<1	0.3	0.4	1.4	0.9	3.2	9.0	<1	33.0	0.2	1.2	0.3	12	<0.5	34.9	12.3	6.1	15.8	



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Project: TING 2B

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CERTIFICATE OF ANALYSIS

VAN11004232.1

	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-BCQ-0279	Rock	1.09	3.8	0.72	0.14	0.79	0.18	1.02	0.21	0.67	0.09	0.65	0.10	0.5	4.3	1.8	2	2.1	6.4	<0.1	<0.1
11-BCQ-0277	Rock	1.75	6.4	1.11	0.17	0.95	0.19	1.28	0.30	0.92	0.19	1.41	0.21	0.2	1.1	1.0	2	1.2	<0.5	<0.1	<0.1
11-BCQ-0281	Rock	1.14	3.9	0.73	0.12	0.63	0.13	0.80	0.20	0.59	0.08	0.72	0.12	0.2	2.5	1.6	4	3.0	0.8	<0.1	<0.1
11-BCQ-0283	Rock	1.15	3.9	0.63	0.12	0.53	0.10	0.69	0.15	0.44	0.08	0.58	0.09	0.2	1.2	0.9	6	3.1	0.9	<0.1	<0.1
11-BCQ-0278	Rock	1.87	7.7	1.14	0.15	0.87	0.18	1.14	0.26	0.79	0.14	1.05	0.17	0.3	2.5	1.0	2	1.7	0.7	<0.1	<0.1
11-BCQ-0285	Rock	1.04	3.7	0.70	0.08	0.55	0.11	0.64	0.16	0.46	0.09	0.58	0.10	0.2	1.4	2.0	4	1.2	1.2	<0.1	<0.1
11-BCQ-0280	Rock	1.03	3.3	0.59	0.12	0.65	0.18	1.18	0.24	0.67	0.09	0.74	0.10	0.3	8.0	0.9	2	1.2	1.8	<0.1	<0.1
11-BCQ-0282	Rock	0.99	3.5	0.58	0.11	0.44	0.08	0.59	0.13	0.39	0.06	0.52	0.08	0.3	16.1	0.9	3	1.7	0.7	<0.1	<0.1
11-J2-220	Rock	0.77	3.0	0.54	0.10	0.41	0.09	0.56	0.16	0.36	0.07	0.43	0.07	0.7	3.2	0.9	2	2.3	8.0	<0.1	0.3
11-J2-219	Rock	1.29	4.8	0.94	0.18	1.09	0.20	1.44	0.30	0.87	0.15	1.13	0.18	0.2	1.5	1.0	46	13.0	1.4	<0.1	<0.1
11-J2-211	Rock	1.32	5.3	0.94	0.12	0.74	0.15	0.80	0.22	0.54	0.10	0.76	0.12	0.2	2.0	0.7	2	1.7	0.8	<0.1	<0.1
11-J2-215	Rock	1.52	6.0	1.09	0.21	1.28	0.26	1.54	0.38	1.12	0.17	1.12	0.20	0.1	1.7	0.5	12	5.2	0.8	<0.1	<0.1
11-J2-212	Rock	1.06	3.7	0.79	0.16	0.88	0.24	1.53	0.29	0.84	0.12	0.85	0.14	0.2	2.9	0.9	32	8.7	2.3	0.2	<0.1
11-J2-221	Rock	1.64	6.1	1.12	0.23	1.16	0.18	1.04	0.25	0.66	0.11	0.85	0.14	0.2	2.0	1.1	8	9.1	1.6	<0.1	<0.1
11-J2-222	Rock	1.14	4.7	0.89	0.15	0.94	0.16	1.04	0.27	0.81	0.12	0.77	0.16	<0.1	0.7	0.6	17	5.1	<0.5	<0.1	<0.1
11-AAB-0429	Rock	5.01	21.5	4.79	0.76	4.15	0.65	3.77	0.74	2.12	0.33	2.26	0.34	16.1	4.2	5.1	29	8.9	11.8	0.2	0.4
11-AAB-0434	Rock	1.15	4.7	1.01	0.22	0.89	0.14	0.84	0.16	0.41	0.05	0.32	0.05	1.0	1.4	3.1	7	5.3	5.0	<0.1	<0.1
11-AAB-0430	Rock	5.61	24.0	4.34	0.90	3.99	0.68	3.69	0.89	2.39	0.37	2.27	0.37	1.2	7.5	4.7	49	17.0	2.9	0.4	0.2
11-AAB-0432	Rock	2.87	11.2	2.29	0.53	2.34	0.38	2.47	0.48	1.43	0.21	1.41	0.22	0.2	1.9	3.7	27	3.0	2.3	0.2	0.2
11-BCQ-275	Rock	1.00	3.5	0.62	0.14	0.45	0.08	0.55	0.10	0.23	0.04	0.41	0.04	0.2	4.5	6.9	3	2.3	1.1	<0.1	<0.1
11-J2-205	Rock	1.00	3.6	0.60	0.14	0.46	0.08	0.41	0.10	0.20	0.03	0.23	0.03	0.3	1.8	7.3	3	2.0	<0.5	<0.1	<0.1
11-J2-207	Rock	1.89	6.6	0.95	0.21	0.71	0.11	0.65	0.12	0.33	0.05	0.30	0.05	<0.1	0.9	2.8	3	1.3	<0.5	<0.1	<0.1
11-J2-201	Rock	1.32	4.8	0.72	0.16	0.63	0.10	0.66	0.11	0.41	0.05	0.36	0.05	0.1	3.4	12.0	27	3.4	1.8	<0.1	<0.1
11-J2-199	Rock	3.36	14.3	2.93	0.92	3.10	0.47	2.52	0.50	1.32	0.20	1.25	0.17	0.1	1.4	0.5	5	2.8	1.5	0.1	<0.1
11-J2-202	Rock	1.14	4.8	1.08	0.28	0.89	0.15	0.94	0.16	0.44	0.07	0.44	0.07	<0.1	0.8	2.6	13	1.6	1.2	<0.1	<0.1
11-WJH-052	Rock	2.15	8.9	2.05	0.66	2.18	0.34	1.82	0.36	1.05	0.13	0.86	0.12	0.1	0.6	0.4	6	1.1	1.5	0.2	<0.1
11-WJH-046	Rock	2.23	9.6	1.96	0.59	2.03	0.32	1.91	0.34	0.99	0.14	0.75	0.12	0.1	1.1	0.6	3	1.0	0.9	<0.1	<0.1
11-WJH-066	Rock	6.46	25.8	5.00	1.07	4.61	0.70	3.68	0.71	2.01	0.30	2.07	0.31	6.1	13.2	3.3	445	94.7	13.5	4.6	3.1
11-WJH-059	Rock	5.05	17.8	3.56	1.05	3.79	0.64	3.88	0.91	2.58	0.43	2.89	0.42	12.0	85.3	37.8	1146	195.3	19.5	9.5	8.8
11-WJH-048	Rock	1.93	8.6	2.01	0.57	2.19	0.35	2.02	0.39	1.07	0.16	1.02	0.14	0.2	1.3	0.6	4	1.3	1.6	<0.1	<0.1



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Project: TING 2B

Report Date: November 23, 2011

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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-BCQ-0279	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0277	Rock	<0.1	<0.1	1.0	<0.01	<0.1	<0.5
11-BCQ-0281	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0283	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0278	Rock	<0.1	<0.1	1.0	<0.01	<0.1	<0.5
11-BCQ-0285	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0280	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	4.2
11-BCQ-0282	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-220	Rock	<0.1	<0.1	0.7	<0.01	<0.1	<0.5
11-J2-219	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-211	Rock	<0.1	<0.1	0.5	<0.01	<0.1	<0.5
11-J2-215	Rock	<0.1	<0.1	<0.5	0.03	<0.1	<0.5
11-J2-212	Rock	<0.1	<0.1	<0.5	0.01	<0.1	<0.5
11-J2-221	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-222	Rock	<0.1	<0.1	<0.5	0.02	<0.1	<0.5
11-AAB-0429	Rock	<0.1	0.1	<0.5	0.03	<0.1	2.9
11-AAB-0434	Rock	<0.1	0.1	0.5	0.01	<0.1	<0.5
11-AAB-0430	Rock	<0.1	0.2	<0.5	0.03	<0.1	1.1
11-AAB-0432	Rock	<0.1	<0.1	<0.5	0.02	<0.1	<0.5
11-BCQ-275	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-205	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-207	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-201	Rock	<0.1	<0.1	<0.5	0.01	<0.1	<0.5
11-J2-199	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-J2-202	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-WJH-052	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-WJH-046	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-WJH-066	Rock	0.2	<0.1	<0.5	0.02	0.5	<0.5
11-WJH-059	Rock	0.2	0.6	<0.5	0.07	0.2	5.8
11-WJH-048	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	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-WJH-050	Rock	1.34	190	<1	<0.2	1.1	2.7	2.0	5.7	12.3	<1	35.2	0.4	2.2	0.7	17	<0.5	74.8	5.0	9.0	20.0
11-WJH-044	Rock	1.12	1044	3	4.9	3.2	14.8	3.8	15.6	137.3	3	400.5	1.6	20.5	4.2	55	<0.5	144.4	12.0	40.9	72.9
11-WJH-068	Rock	0.99	8318	<1	1.6	0.7	3.7	0.8	2.2	24.5	<1	25.1	0.2	1.9	2.0	400	<0.5	24.4	8.0	6.9	10.8
11-WJH-060	Rock	0.92	5660	<1	3.2	0.3	1.9	0.4	1.4	14.3	<1	26.2	0.2	1.2	0.9	38	<0.5	15.9	6.0	4.2	6.2
11-WJH-064	Rock	0.98	7092	<1	0.5	0.5	3.2	0.6	1.9	17.8	<1	37.6	0.3	1.4	2.1	323	<0.5	18.2	3.3	3.4	5.3
11-WJH-056	Rock	0.97	9939	<1	5.7	0.8	4.5	1.3	2.8	33.0	<1	28.5	0.3	2.5	2.4	81	0.6	34.2	20.3	9.1	13.8
11-AAB-0413	Rock	1.28	91	<1	1.4	0.1	1.0	2.9	1.3	2.1	<1	15.2	0.1	1.1	1.7	23	<0.5	109.6	3.3	3.2	4.9
11-BCQ-0265	Rock	1.51	23	<1	0.2	<0.1	0.6	0.1	0.4	2.8	<1	22.9	<0.1	0.3	0.3	<8	<0.5	3.2	1.0	1.9	3.4
11-BCQ-0272	Rock	2.03	10	<1	0.4	0.3	1.0	0.2	2.2	6.5	<1	303.4	0.1	0.7	1.2	10	<0.5	9.6	1.4	3.1	5.5
11-BCQ-0285	Rock	1.62	48	<1	0.6	0.7	1.4	0.3	2.0	9.0	<1	445.1	0.1	1.1	0.6	<8	<0.5	14.9	3.4	5.0	9.2
11-BCQ-0261	Rock	1.30	10	<1	<0.2	0.2	0.9	0.3	1.9	6.3	<1	42.6	0.1	0.7	0.3	<8	<0.5	11.0	1.8	3.7	6.1
11-BCQ-0256	Rock	1.13	8	<1	<0.2	0.2	0.5	<0.1	1.1	4.2	<1	372.8	<0.1	0.4	0.6	<8	<0.5	4.1	1.9	2.3	4.3
11-BCQ-0276	Rock	1.67	7	<1	<0.2	<0.1	<0.5	<0.1	0.7	1.8	<1	423.0	<0.1	0.3	0.2	<8	<0.5	2.7	0.7	2.0	4.2
11-BCQ-0273	Rock	1.12	11	<1	0.2	0.2	0.7	0.2	1.5	5.1	<1	430.9	<0.1	0.5	0.5	10	0.6	9.4	1.1	2.3	4.1
11-BCQ-0254	Rock	1.22	10	<1	0.3	0.2	0.9	0.2	1.6	4.7	<1	357.1	0.1	0.5	0.8	<8	<0.5	6.0	2.1	3.2	5.4
11-BCQ-0259	Rock	0.95	232	1	5.5	1.7	7.9	1.0	4.2	58.4	<1	489.6	0.2	4.3	1.1	41	<0.5	35.4	6.2	16.0	29.6
11-BCQ-0274	Rock	1.19	17	<1	0.6	0.3	1.2	0.4	2.1	9.3	<1	493.6	0.1	0.8	0.4	8	<0.5	12.6	2.0	4.1	8.0
11-BCQ-0257	Rock	0.76	11	<1	<0.2	0.1	<0.5	0.1	0.9	3.7	<1	325.1	<0.1	0.3	0.5	<8	<0.5	4.4	3.1	3.5	4.0
11-BCQ-0262	Rock	1.29	19	<1	0.6	0.5	1.4	0.1	1.0	10.0	<1	662.7	<0.1	0.8	0.4	10	<0.5	7.7	1.5	2.8	5.3
11-BCQ-0263	Rock	0.92	5	<1	<0.2	<0.1	<0.5	<0.1	0.2	0.7	<1	40.0	<0.1	<0.2	0.3	<8	<0.5	1.0	0.8	0.8	1.6
11-AAB-0416	Rock	1.55	347	<1	6.6	0.5	4.4	13.6	18.9	28.2	1	30.5	1.3	8.3	2.4	53	1.2	499.0	24.2	29.0	60.5
11-AAB-0411	Rock	1.25	1078	2	4.9	3.1	15.7	3.7	15.4	119.3	4	413.4	1.2	21.2	4.3	57	<0.5	143.2	15.0	46.7	86.8
11-AAB-0435	Rock	1.35	187	<1	0.6	0.4	3.2	2.4	1.5	36.0	<1	18.1	0.2	3.1	0.5	14	<0.5	78.5	2.9	7.9	15.9
11-AAB-0437	Rock	0.88	82	<1	<0.2	0.1	1.8	1.6	0.9	16.7	<1	9.0	<0.1	3.0	0.5	<8	<0.5	62.8	3.6	7.0	13.8
11-AAB-0436	Rock	0.98	54	<1	0.3	0.4	3.3	3.1	1.7	23.1	<1	5.6	0.2	3.2	0.7	11	<0.5	118.3	3.6	9.9	19.0
11-AAB-0433	Rock	2.09	364	<1	0.7	1.1	3.0	0.5	1.2	18.1	<1	25.5	0.1	1.5	0.9	30	<0.5	19.1	2.7	4.4	6.8
11-AAB-0424	Rock	1.25	49	<1	4.4	0.4	1.9	7.8	2.9	6.3	<1	71.5	0.2	2.2	1.6	28	<0.5	310.2	18.0	9.8	18.7
11-AAB-0431	Rock	0.75	256	<1	0.2	3.0	5.9	1.1	2.9	41.1	<1	35.6	0.2	2.9	1.9	67	<0.5	36.8	7.2	9.9	15.0
11-AAB-0428	Rock	1.46	47	<1	3.5	0.3	1.6	7.6	1.6	4.2	<1	43.9	0.1	1.8	2.2	35	<0.5	300.0	9.1	6.7	11.3
11-AAB-0427	Rock	1.38	34	<1	0.9	0.1	0.8	2.0	0.8	2.6	<1	91.8	<0.1	0.9	0.6	20	<0.5	83.8	5.3	7.1	13.1



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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-WJH-050	Rock	2.24	7.5	1.14	0.30	0.99	0.14	0.84	0.13	0.51	0.08	0.56	0.09	1.1	2.4	12.4	318	27.9	3.1	4.6	0.2
11-WJH-044	Rock	7.25	24.3	3.59	0.86	2.80	0.41	2.08	0.40	1.18	0.19	1.38	0.24	0.1	1.8	3.1	53	2.7	<0.5	0.2	<0.1
11-WJH-068	Rock	1.51	5.9	1.07	0.22	1.12	0.17	0.89	0.20	0.62	0.10	0.60	0.09	3.5	30.4	6.4	199	27.4	5.8	1.8	4.5
11-WJH-060	Rock	0.93	3.0	0.55	0.16	0.61	0.10	0.60	0.16	0.42	0.07	0.38	0.07	3.2	19.4	8.2	242	46.5	3.2	4.0	1.3
11-WJH-064	Rock	0.69	2.2	0.37	0.07	0.33	0.05	0.45	0.07	0.29	0.04	0.32	0.05	2.6	14.3	4.2	43	5.6	3.0	2.3	2.0
11-WJH-056	Rock	2.14	8.3	1.47	0.36	1.68	0.25	1.53	0.42	1.14	0.18	1.10	0.17	4.4	27.7	35.3	614	91.0	14.4	8.8	3.5
11-AAB-0413	Rock	0.75	3.0	0.70	0.16	0.63	0.11	0.58	0.13	0.34	0.05	0.35	0.05	1.6	8.6	2.3	115	9.9	3.9	0.2	0.1
11-BCQ-0265	Rock	0.37	1.4	0.21	0.05	0.21	0.03	0.16	<0.02	0.07	0.02	0.10	<0.01	0.3	2.0	5.5	5	1.0	1.7	<0.1	0.2
11-BCQ-0272	Rock	0.61	2.2	0.32	0.08	0.33	0.05	0.24	0.05	0.13	0.02	0.17	0.02	0.2	2.1	2.5	2	1.2	1.3	<0.1	<0.1
11-BCQ-0285	Rock	1.01	3.7	0.59	0.13	0.55	0.08	0.46	0.10	0.27	0.04	0.29	0.04	0.3	1.3	2.0	3	<0.1	<0.5	<0.1	<0.1
11-BCQ-0261	Rock	0.70	2.3	0.44	0.07	0.39	0.05	0.35	0.06	0.18	0.02	0.17	0.03	0.1	1.2	1.6	3	0.9	1.0	<0.1	<0.1
11-BCQ-0256	Rock	0.45	1.3	0.24	0.06	0.26	0.04	0.28	0.05	0.14	0.02	0.14	0.02	<0.1	0.6	0.6	1	0.3	1.6	<0.1	<0.1
11-BCQ-0276	Rock	0.46	1.6	0.21	0.05	0.20	0.03	0.15	0.02	0.07	<0.01	0.05	<0.01	<0.1	0.4	0.6	8	<0.1	1.8	<0.1	<0.1
11-BCQ-0273	Rock	0.47	1.8	0.23	0.07	0.20	0.04	0.21	0.04	0.11	0.02	0.12	0.02	0.1	1.2	2.3	1	<0.1	1.2	<0.1	<0.1
11-BCQ-0254	Rock	0.61	1.9	0.37	0.07	0.35	0.05	0.34	0.05	0.16	0.02	0.13	0.02	0.6	0.6	1.2	3	<0.1	1.1	<0.1	<0.1
11-BCQ-0259	Rock	3.24	11.1	1.82	0.37	1.37	0.21	1.18	0.23	0.67	0.10	0.56	0.10	0.1	6.3	3.1	3	5.0	1.3	<0.1	<0.1
11-BCQ-0274	Rock	0.86	2.7	0.44	0.11	0.40	0.06	0.38	0.06	0.20	0.03	0.15	0.02	<0.1	2.1	1.8	2	<0.1	1.3	<0.1	<0.1
11-BCQ-0257	Rock	0.75	3.3	0.50	0.11	0.54	0.08	0.52	0.07	0.22	0.04	0.20	0.03	0.1	0.8	1.2	1	<0.1	0.8	<0.1	<0.1
11-BCQ-0262	Rock	0.62	2.0	0.43	0.09	0.34	0.05	0.31	0.05	0.15	0.02	0.13	0.03	0.2	2.7	1.2	3	<0.1	1.0	<0.1	<0.1
11-BCQ-0263	Rock	0.18	0.6	0.15	0.02	0.09	0.02	0.16	0.02	0.06	0.01	0.08	<0.01	0.1	0.4	0.6	<1	0.3	<0.5	<0.1	<0.1
11-AAB-0416	Rock	6.65	23.4	4.50	0.85	4.12	0.68	4.01	0.80	2.29	0.36	2.40	0.38	0.3	4.8	5.6	25	10.9	9.3	0.3	0.2
11-AAB-0411	Rock	8.40	27.4	4.56	0.99	3.41	0.48	2.84	0.49	1.39	0.25	1.54	0.26	0.1	3.4	6.8	47	2.9	2.0	0.1	<0.1
11-AAB-0435	Rock	1.76	6.1	0.89	0.18	0.65	0.10	0.61	0.10	0.31	0.04	0.32	0.05	0.2	1.5	1.1	4	1.9	0.8	<0.1	<0.1
11-AAB-0437	Rock	1.49	4.7	0.88	0.17	0.76	0.11	0.62	0.12	0.36	0.05	0.29	0.05	0.1	0.7	0.6	1	0.9	<0.5	<0.1	<0.1
11-AAB-0436	Rock	2.04	7.0	1.19	0.23	0.94	0.14	0.64	0.13	0.40	0.06	0.47	0.07	0.1	0.8	0.6	2	1.3	<0.5	<0.1	0.1
11-AAB-0433	Rock	1.01	3.6	0.67	0.15	0.57	0.09	0.49	0.11	0.34	0.05	0.36	0.05	1.6	10.7	2.8	10	8.6	2.9	0.1	0.1
11-AAB-0424	Rock	2.31	8.5	1.95	0.49	2.83	0.52	3.18	0.60	1.65	0.25	1.41	0.23	0.4	14.6	4.7	39	26.4	3.7	<0.1	<0.1
11-AAB-0431	Rock	2.12	8.3	1.57	0.34	1.13	0.19	1.18	0.25	0.80	0.12	0.76	0.12	3.4	16.1	3.8	9	4.0	4.7	<0.1	0.1
11-AAB-0428	Rock	1.32	5.4	0.89	0.22	1.24	0.21	1.39	0.28	0.88	0.13	0.89	0.14	1.9	20.0	6.9	38	35.5	20.8	0.2	0.1
11-AAB-0427	Rock	1.57	5.8	1.15	0.23	1.07	0.16	0.97	0.17	0.51	0.07	0.50	0.08	0.4	2.3	2.9	4	3.6	5.9	<0.1	0.1



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Project: TING 2B

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CERTIFICATE OF ANALYSIS

VAN11004232.1

	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-WJH-050	Rock	<0.1	<0.1	<0.5	<0.01	0.2	<0.5
11-WJH-044	Rock	<0.1	<0.1	<0.5	<0.01	0.3	<0.5
11-WJH-068	Rock	<0.1	1.1	<0.5	0.05	<0.1	2.0
11-WJH-060	Rock	<0.1	0.8	2.7	0.05	0.1	0.9
11-WJH-064	Rock	<0.1	1.1	<0.5	0.09	<0.1	1.4
11-WJH-056	Rock	<0.1	0.6	2.1	0.09	0.3	1.3
11-AAB-0413	Rock	<0.1	<0.1	<0.5	0.01	<0.1	<0.5
11-BCQ-0265	Rock	<0.1	<0.1	0.7	<0.01	<0.1	<0.5
11-BCQ-0272	Rock	<0.1	<0.1	2.1	<0.01	<0.1	<0.5
11-BCQ-0285	Rock	<0.1	<0.1	0.8	<0.01	<0.1	<0.5
11-BCQ-0261	Rock	<0.1	<0.1	1.0	<0.01	<0.1	<0.5
11-BCQ-0256	Rock	<0.1	<0.1	0.7	<0.01	<0.1	<0.5
11-BCQ-0276	Rock	<0.1	<0.1	1.5	<0.01	<0.1	<0.5
11-BCQ-0273	Rock	<0.1	<0.1	1.0	<0.01	<0.1	<0.5
11-BCQ-0254	Rock	<0.1	<0.1	1.3	<0.01	<0.1	<0.5
11-BCQ-0259	Rock	<0.1	<0.1	0.9	<0.01	<0.1	<0.5
11-BCQ-0274	Rock	<0.1	<0.1	1.2	<0.01	<0.1	<0.5
11-BCQ-0257	Rock	<0.1	<0.1	2.0	0.02	<0.1	<0.5
11-BCQ-0262	Rock	<0.1	<0.1	0.8	<0.01	<0.1	<0.5
11-BCQ-0263	Rock	<0.1	<0.1	0.8	<0.01	<0.1	<0.5
11-AAB-0416	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0411	Rock	0.1	<0.1	<0.5	<0.01	0.2	0.9
11-AAB-0435	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0437	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	0.6
11-AAB-0436	Rock	<0.1	<0.1	1.0	<0.01	<0.1	<0.5
11-AAB-0433	Rock	<0.1	<0.1	0.5	0.03	<0.1	1.4
11-AAB-0424	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0431	Rock	<0.1	<0.1	<0.5	0.05	<0.1	2.2
11-AAB-0428	Rock	<0.1	0.2	0.7	0.19	0.2	<0.5
11-AAB-0427	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	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-0425	Rock	1.32	55	<1	0.6	0.5	3.2	2.8	2.9	14.6	<1	37.4	0.2	2.2	1.5	37	<0.5	127.3	4.5	12.3	20.9
11-AAB-0426	Rock	1.60	78	<1	0.4	0.2	2.0	17.8	4.2	8.3	<1	35.7	0.3	4.0	1.8	26	0.6	773.2	10.5	7.9	17.1
11-AAB-0446	Rock	2.24	1514	<1	1.0	0.3	2.2	4.6	3.9	6.6	<1	23.3	0.4	3.3	1.3	31	<0.5	191.4	10.3	10.6	21.4
11-AAB-0445	Rock	1.44	668	<1	1.7	<0.1	0.9	6.4	2.1	0.6	<1	8.6	0.2	1.8	1.4	50	<0.5	265.9	6.9	6.7	13.5
11-AAB-0449	Rock	2.40	524	<1	2.1	0.2	3.1	4.2	3.8	6.4	<1	12.7	0.2	3.1	1.2	37	<0.5	182.7	5.6	10.4	20.2
11-AAB-0440	Rock	2.06	21	<1	0.3	<0.1	<0.5	<0.1	0.9	0.9	<1	39.3	<0.1	0.4	0.6	<8	0.5	3.3	1.2	1.3	2.6
11-AAB-0453	Rock	1.74	17	<1	<0.2	0.1	<0.5	0.1	1.0	2.6	<1	70.6	<0.1	0.3	0.2	<8	<0.5	5.0	1.5	3.8	6.4
11-AAB-0442	Rock	2.14	683	<1	0.7	0.1	0.6	0.3	1.4	5.7	<1	209.8	<0.1	0.8	0.3	10	<0.5	10.9	8.8	6.9	14.0
11-AAB-0456	Rock	2.39	25	<1	0.5	0.2	<0.5	0.3	2.0	4.0	<1	58.6	0.1	0.6	0.3	<8	<0.5	9.7	4.2	5.0	9.7
11-BCQ-0313	Rock	0.69	251	<1	32.9	1.9	16.3	3.8	31.4	20.2	1	644.1	1.9	3.1	0.8	287	<0.5	190.2	26.0	17.9	43.5
11-BCQ-0315	Rock	2.06	625	1	9.3	1.1	20.1	3.6	10.6	55.8	1	495.4	0.6	7.6	2.3	97	0.8	138.7	16.7	25.4	49.5
11-BCQ-0305	Rock	1.82	631	1	2.8	1.7	20.4	3.1	10.5	80.1	1	507.5	0.8	7.1	3.0	96	1.6	144.2	16.6	21.0	39.9
11-BCQ-0311	Rock	1.55	7	<1	0.3	0.1	<0.5	0.2	0.6	3.3	<1	230.7	<0.1	0.4	0.5	<8	<0.5	9.8	1.4	2.7	5.7
11-BCQ-0304	Rock	1.33	577	2	37.6	2.1	22.3	4.8	32.3	49.8	1	259.3	1.9	3.4	0.8	291	<0.5	196.2	23.7	24.4	53.3
11-BCQ-0302	Rock	2.82	524	<1	11.7	4.7	19.0	2.8	8.3	90.9	1	409.1	0.5	5.4	2.0	113	0.5	109.8	15.4	17.3	33.9
11-BCQ-0318	Rock	1.66	330	<1	39.7	6.9	19.4	4.1	31.9	88.8	2	141.4	2.0	3.3	0.9	288	0.7	197.2	25.0	20.9	44.7
11-BCQ-0300	Rock	1.54	524	3	21.6	9.0	24.8	6.8	65.6	132.5	4	204.1	4.1	14.3	3.0	125	2.3	289.6	44.5	64.6	123.7
11-BCQ-0297	Rock	1.14	85	<1	5.0	0.5	2.1	1.1	1.7	17.5	<1	426.2	<0.1	1.7	1.3	<8	<0.5	50.3	4.9	11.3	21.7
11-BCQ-0306	Rock	1.66	472	2	28.2	2.3	16.1	4.1	30.5	34.2	1	472.4	1.8	3.3	0.7	282	<0.5	178.2	25.6	20.0	45.0
11-BCQ-0310	Rock	1.84	65	<1	1.2	0.2	1.3	0.6	1.5	9.6	<1	243.7	<0.1	1.3	1.1	<8	<0.5	36.6	3.7	8.9	17.4



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Project: TING 2B

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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
		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-0425	Rock	2.49	8.7	1.19	0.20	0.69	0.13	0.78	0.19	0.63	0.09	0.76	0.11	0.7	3.7	4.4	6	2.6	9.2	<0.1
11-AAB-0426	Rock	1.91	7.4	1.32	0.27	1.29	0.26	1.42	0.36	1.22	0.20	1.45	0.25	0.2	2.6	3.1	11	2.5	3.4	<0.1
11-AAB-0446	Rock	2.52	9.4	1.82	0.33	1.60	0.29	1.72	0.37	1.06	0.17	1.11	0.15	1.9	5.6	2.7	42	7.0	4.1	0.2
11-AAB-0445	Rock	1.77	6.3	1.22	0.18	0.97	0.17	0.89	0.25	0.74	0.12	0.79	0.14	1.5	7.2	3.8	311	12.0	8.4	0.6
11-AAB-0449	Rock	2.32	7.6	1.25	0.21	0.85	0.14	1.00	0.21	0.67	0.11	0.85	0.12	0.4	6.2	3.1	53	18.8	1.5	0.1
11-AAB-0440	Rock	0.36	1.4	0.22	0.04	0.20	0.03	0.13	0.03	0.13	<0.01	0.06	0.01	4.3	1.7	10.5	34	1.7	8.4	<0.1
11-AAB-0453	Rock	0.66	2.3	0.39	0.07	0.32	0.05	0.17	0.04	0.14	0.02	0.14	0.02	<0.1	0.3	0.4	5	0.6	0.7	<0.1
11-AAB-0442	Rock	1.60	5.8	1.32	0.31	1.26	0.21	1.22	0.24	0.72	0.10	0.61	0.08	0.1	1.5	1.9	11	<0.1	1.8	<0.1
11-AAB-0456	Rock	1.15	3.9	0.74	0.18	0.71	0.10	0.61	0.13	0.25	0.04	0.30	0.04	<0.1	0.5	5.2	2	2.5	2.6	<0.1
11-BCQ-0313	Rock	5.85	24.0	5.67	1.73	5.47	0.92	4.99	0.95	2.55	0.33	2.23	0.29	0.2	31.2	1.1	34	22.6	<0.5	<0.1
11-BCQ-0315	Rock	5.69	21.2	3.86	1.09	3.49	0.55	3.14	0.59	1.81	0.28	1.86	0.27	<0.1	22.8	1.7	56	3.9	<0.5	<0.1
11-BCQ-0305	Rock	4.75	18.1	3.48	0.95	3.09	0.50	2.93	0.62	1.73	0.25	1.78	0.27	5.5	23.4	2.6	34	1.8	<0.5	0.1
11-BCQ-0311	Rock	0.63	2.2	0.36	0.09	0.37	0.05	0.24	0.05	0.14	0.02	0.14	0.02	<0.1	0.9	1.0	1	2.2	<0.5	<0.1
11-BCQ-0304	Rock	6.79	28.3	6.04	1.99	5.65	0.93	5.17	0.96	2.66	0.35	2.59	0.32	0.2	30.3	2.5	67	30.3	<0.5	<0.1
11-BCQ-0302	Rock	4.00	15.2	3.14	0.87	2.99	0.48	2.81	0.61	1.59	0.25	1.61	0.26	<0.1	2.6	6.0	66	5.6	<0.5	0.3
11-BCQ-0318	Rock	5.84	26.2	5.94	1.84	5.66	0.97	5.14	1.00	2.59	0.35	2.17	0.29	0.3	36.6	1.4	122	43.5	<0.5	0.3
11-BCQ-0300	Rock	14.14	53.2	10.39	1.98	9.17	1.52	8.14	1.68	4.67	0.66	4.45	0.65	1.5	31.8	4.9	63	30.0	<0.5	<0.1
11-BCQ-0297	Rock	2.39	9.3	1.47	0.45	1.14	0.15	0.78	0.17	0.36	0.06	0.40	0.06	0.2	2.6	5.1	8	4.2	5.1	<0.1
11-BCQ-0306	Rock	5.85	24.8	5.33	1.56	5.51	0.90	4.80	0.96	2.55	0.35	2.38	0.32	0.2	38.7	1.7	23	18.0	<0.5	0.1
11-BCQ-0310	Rock	1.79	7.1	0.96	0.34	0.81	0.11	0.66	0.12	0.31	0.04	0.29	0.04	<0.1	1.0	2.5	1	3.0	1.4	<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-0425	Rock	<0.1	<0.1	<0.5	0.03	<0.1	<0.5
11-AAB-0426	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0446	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0445	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	1.1
11-AAB-0449	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0440	Rock	<0.1	0.2	1.3	0.02	<0.1	<0.5
11-AAB-0453	Rock	<0.1	<0.1	1.0	<0.01	<0.1	<0.5
11-AAB-0442	Rock	<0.1	<0.1	1.8	<0.01	<0.1	<0.5
11-AAB-0456	Rock	<0.1	<0.1	<0.5	0.01	0.3	<0.5
11-BCQ-0313	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0315	Rock	<0.1	<0.1	<0.5	<0.01	0.2	<0.5
11-BCQ-0305	Rock	0.9	<0.1	1.9	<0.01	0.2	<0.5
11-BCQ-0311	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0304	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0302	Rock	<0.1	<0.1	<0.5	<0.01	0.1	<0.5
11-BCQ-0318	Rock	<0.1	<0.1	<0.5	<0.01	0.5	<0.5
11-BCQ-0300	Rock	1.8	<0.1	<0.5	<0.01	0.4	<0.5
11-BCQ-0297	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0306	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-BCQ-0310	Rock	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5



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Part 1

QUALITY CONTROL REPORT

VAN11004232.1

	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
Pulp Duplicates																					
11-J2-211	Rock	0.81	32	<1	0.4	<0.1	1.1	8.3	1.9	1.3	<1	18.8	0.2	1.8	0.8	<8	<0.5	331.5	5.3	5.9	11.7
REP 11-J2-211	QC																				
11-AAB-0432	Rock	1.26	64	<1	0.7	0.4	2.0	3.3	2.9	8.4	<1	139.7	0.2	3.0	2.0	25	<0.5	130.1	15.9	12.4	16.8
REP 11-AAB-0432	QC		63	<1	0.5	0.4	1.9	3.1	2.8	8.1	<1	136.7	0.2	2.7	1.9	22	<0.5	128.9	15.7	11.9	16.7
11-WJH-050	Rock	1.34	190	<1	<0.2	1.1	2.7	2.0	5.7	12.3	<1	35.2	0.4	2.2	0.7	17	<0.5	74.8	5.0	9.0	20.0
REP 11-WJH-050	QC		195	<1	<0.2	1.0	3.0	2.1	5.4	12.8	<1	34.9	0.5	2.1	0.6	15	<0.5	80.8	4.9	8.8	19.7
11-WJH-056	Rock	0.97	9939	<1	5.7	0.8	4.5	1.3	2.8	33.0	<1	28.5	0.3	2.5	2.4	81	0.6	34.2	20.3	9.1	13.8
REP 11-WJH-056	QC																				
11-AAB-0456	Rock	2.39	25	<1	0.5	0.2	<0.5	0.3	2.0	4.0	<1	58.6	0.1	0.6	0.3	<8	<0.5	9.7	4.2	5.0	9.7
REP 11-AAB-0456	QC																				
11-BCQ-0305	Rock	1.82	631	1	2.8	1.7	20.4	3.1	10.5	80.1	1	507.5	0.8	7.1	3.0	96	1.6	144.2	16.6	21.0	39.9
REP 11-BCQ-0305	QC		605	<1	2.8	1.6	19.4	3.2	10.1	76.3	2	495.3	0.7	6.9	2.8	90	2.2	127.3	15.5	19.8	38.2
Core Reject Duplicates																					
11-AAB-0434	Rock	2.57	37	<1	0.5	0.2	1.8	2.6	0.9	4.7	<1	39.8	<0.1	1.2	1.0	16	<0.5	89.5	4.2	5.0	8.1
DUP 11-AAB-0434	QC		40	<1	0.6	0.2	2.0	2.9	1.2	5.1	<1	39.2	0.1	1.3	1.2	15	<0.5	122.7	4.6	4.7	8.8
11-AAB-0411	Rock	1.25	1078	2	4.9	3.1	15.7	3.7	15.4	119.3	4	413.4	1.2	21.2	4.3	57	<0.5	143.2	15.0	46.7	86.8
DUP 11-AAB-0411	QC		1080	1	4.1	3.0	15.0	3.7	14.4	121.7	3	392.0	1.2	19.7	4.4	54	<0.5	126.1	14.0	37.0	67.9
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		522	<1	26.5	6.8	16.5	9.2	20.0	27.2	15	398.7	6.9	10.1	15.4	205	12.7	279.9	30.9	12.3	26.8
STD SO-18	Standard		523	<1	26.5	6.9	16.3	8.8	20.1	27.4	15	409.6	6.9	10.2	15.3	200	13.5	277.6	30.9	12.6	27.0



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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	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-J2-211	Rock	1.32	5.3	0.94	0.12	0.74	0.15	0.80	0.22	0.54	0.10	0.76	0.12	0.2	2.0	0.7	2	1.7	0.8	<0.1	<0.1
REP 11-J2-211	QC													0.1	1.4	0.6	2	1.7	0.8	<0.1	<0.1
11-AAB-0432	Rock	2.87	11.2	2.29	0.53	2.34	0.38	2.47	0.48	1.43	0.21	1.41	0.22	0.2	1.9	3.7	27	3.0	2.3	0.2	0.2
REP 11-AAB-0432	QC	2.81	12.1	2.28	0.50	2.05	0.37	2.27	0.51	1.38	0.20	1.35	0.21								
11-WJH-050	Rock	2.24	7.5	1.14	0.30	0.99	0.14	0.84	0.13	0.51	0.08	0.56	0.09	1.1	2.4	12.4	318	27.9	3.1	4.6	0.2
REP 11-WJH-050	QC	2.22	8.3	1.15	0.32	1.04	0.13	0.78	0.16	0.47	0.08	0.54	0.07								
11-WJH-056	Rock	2.14	8.3	1.47	0.36	1.68	0.25	1.53	0.42	1.14	0.18	1.10	0.17	4.4	27.7	35.3	614	91.0	14.4	8.8	3.5
REP 11-WJH-056	QC													4.6	28.8	35.4	633	95.7	15.1	8.5	3.7
11-AAB-0456	Rock	1.15	3.9	0.74	0.18	0.71	0.10	0.61	0.13	0.25	0.04	0.30	0.04	<0.1	0.5	5.2	2	2.5	2.6	<0.1	0.6
REP 11-AAB-0456	QC													<0.1	0.6	5.3	2	2.8	3.3	<0.1	0.6
11-BCQ-0305	Rock	4.75	18.1	3.48	0.95	3.09	0.50	2.93	0.62	1.73	0.25	1.78	0.27	5.5	23.4	2.6	34	1.8	<0.5	0.1	<0.1
REP 11-BCQ-0305	QC	4.38	16.9	3.45	0.89	2.94	0.47	2.68	0.56	1.61	0.24	1.65	0.27								
Core Reject Duplicates																					
11-AAB-0434	Rock	1.15	4.7	1.01	0.22	0.89	0.14	0.84	0.16	0.41	0.05	0.32	0.05	1.0	1.4	3.1	7	5.3	5.0	<0.1	<0.1
DUP 11-AAB-0434	QC	1.20	4.9	1.10	0.23	0.97	0.15	0.81	0.15	0.43	0.06	0.49	0.06	1.1	1.5	3.5	8	5.7	6.2	<0.1	<0.1
11-AAB-0411	Rock	8.40	27.4	4.56	0.99	3.41	0.48	2.84	0.49	1.39	0.25	1.54	0.26	0.1	3.4	6.8	47	2.9	2.0	0.1	<0.1
DUP 11-AAB-0411	QC	6.60	21.3	3.49	0.88	3.05	0.44	2.41	0.44	1.50	0.24	1.54	0.23	0.4	6.3	9.2	109	3.1	2.7	0.1	2.2
Reference Materials																					
STD DS8	Standard													14.1	109.9	121.2	307	38.9	24.1	2.5	4.6
STD DS8	Standard													12.3	109.4	121.2	316	38.7	26.0	2.4	4.3
STD DS8	Standard													10.4	121.3	128.0	304	37.1	25.7	2.3	4.6
STD DS8	Standard													12.7	110.1	121.9	318	36.3	25.7	2.4	4.8
STD OREAS45CA	Standard													0.7	516.0	18.8	61	244.1	3.5	0.1	<0.1
STD OREAS45CA	Standard													0.7	473.2	17.6	58	230.4	3.2	0.1	<0.1
STD OREAS45CA	Standard													0.8	396.6	21.1	57	185.3	2.9	<0.1	0.1
STD OREAS45CA	Standard													0.8	485.9	19.6	61	234.9	3.6	0.1	<0.1
STD SO-18	Standard	3.43	14.5	2.90	0.86	2.85	0.50	3.04	0.63	1.78	0.28	1.75	0.27								
STD SO-18	Standard	3.37	13.9	2.86	0.84	2.89	0.49	3.03	0.60	1.80	0.27	1.75	0.27								



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QUALITY CONTROL REPORT

VAN11004232.1

		Method Analyte Unit MDL	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
Pulp Duplicates								
11-J2-211	Rock		<0.1	<0.1	0.5	<0.01	<0.1	<0.5
REP 11-J2-211	QC		<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
11-AAB-0432	Rock		<0.1	<0.1	<0.5	0.02	<0.1	<0.5
REP 11-AAB-0432	QC							
11-WJH-050	Rock		<0.1	<0.1	<0.5	<0.01	0.2	<0.5
REP 11-WJH-050	QC							
11-WJH-056	Rock		<0.1	0.6	2.1	0.09	0.3	1.3
REP 11-WJH-056	QC		<0.1	0.6	1.8	0.07	0.3	1.9
11-AAB-0456	Rock		<0.1	<0.1	<0.5	0.01	0.3	<0.5
REP 11-AAB-0456	QC		<0.1	<0.1	0.6	0.02	0.3	<0.5
11-BCQ-0305	Rock		0.9	<0.1	1.9	<0.01	0.2	<0.5
REP 11-BCQ-0305	QC							
Core Reject Duplicates								
11-AAB-0434	Rock		<0.1	0.1	0.5	0.01	<0.1	<0.5
DUP 11-AAB-0434	QC		<0.1	0.1	<0.5	<0.01	0.1	<0.5
11-AAB-0411	Rock		0.1	<0.1	<0.5	<0.01	0.2	0.9
DUP 11-AAB-0411	QC		0.4	0.4	12.9	<0.01	0.1	<0.5
Reference Materials								
STD DS8	Standard		6.5	1.7	122.2	0.19	5.2	4.6
STD DS8	Standard		6.1	1.9	104.9	0.18	5.0	4.5
STD DS8	Standard		7.4	1.7	97.5	0.19	5.2	4.6
STD DS8	Standard		6.5	1.8	97.8	0.18	5.4	6.0
STD OREAS45CA	Standard		0.2	0.3	40.5	0.02	<0.1	0.8
STD OREAS45CA	Standard		0.2	0.2	31.8	0.02	<0.1	<0.5
STD OREAS45CA	Standard		0.2	0.3	32.5	0.03	<0.1	<0.5
STD OREAS45CA	Standard		0.2	0.2	38.0	0.03	<0.1	0.7
STD SO-18	Standard							
STD SO-18	Standard							



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QUALITY CONTROL REPORT

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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
STD SO-18	Standard		506	<1	25.3	6.8	16.0	8.6	18.9	25.7	14	415.6	6.5	9.2	15.4	203	13.3	264.7	28.8	11.8	25.5
STD SO-18	Standard		515	<1	26.9	6.8	16.4	8.9	19.8	26.8	14	419.8	6.8	9.7	16.0	212	14.0	275.6	28.9	12.4	26.8
STD SO-18	Standard		530	<1	27.7	7.1	18.0	8.5	20.3	29.0	15	447.4	7.3	10.1	16.7	195	13.3	297.7	31.1	12.6	27.0
STD SO-18	Standard		537	<1	27.2	7.1	17.9	8.5	20.4	29.1	15	438.2	7.1	10.2	16.8	193	13.3	299.3	31.6	13.0	27.3
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																				
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																				
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
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	1251	3	4.1	3.8	18.2	4.0	23.7	123.2	2	852.1	1.3	9.0	2.8	53	<0.5	148.9	16.3	35.6	68.6
G1	Prep Blank	<0.01	1281	<1	3.9	3.5	18.2	4.8	23.3	122.5	2	855.1	1.2	8.7	3.3	52	<0.5	152.9	16.5	33.8	63.8



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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
STD SO-18	Standard	3.13	12.3	2.73	0.79	2.78	0.45	2.74	0.54	1.68	0.25	1.57	0.24								
STD SO-18	Standard	3.27	13.9	2.75	0.81	2.86	0.46	2.77	0.58	1.70	0.26	1.70	0.26								
STD SO-18	Standard	3.36	13.7	2.81	0.85	2.92	0.49	2.94	0.59	1.76	0.28	1.73	0.28								
STD SO-18	Standard	3.36	14.1	2.82	0.86	3.04	0.51	2.95	0.61	1.89	0.29	1.77	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													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<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													<0.1	<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
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<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								
Prep Wash																					
G1	Prep Blank	7.83	27.5	4.91	1.14	3.63	0.50	2.90	0.59	1.59	0.27	1.92	0.27	0.2	2.5	2.9	48	1.9	<0.5	<0.1	<0.1
G1	Prep Blank	7.45	28.3	4.84	1.12	3.55	0.52	2.70	0.58	1.70	0.25	1.80	0.27	0.1	2.3	3.2	47	1.7	<0.5	<0.1	<0.1



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Project: TING 2B

Report Date: November 23, 2011

Page: 2 of 2 **Part** 3

QUALITY CONTROL REPORT

VAN11004232.1

		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
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	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
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
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank						
BLK	Blank						
Prep Wash							
G1	Prep Blank	<0.1	<0.1	1.6	<0.01	0.3	<0.5
G1	Prep Blank	<0.1	<0.1	<0.5	<0.01	0.3	<0.5



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Submitted By: Allison Brand

Receiving Lab: Canada-Vancouver

Received: August 26, 2011

Report Date: November 22, 2011

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CERTIFICATE OF ANALYSIS

VAN11004233.1

CLIENT JOB INFORMATION

Project: TING 2B
Shipment ID: 51738171295
P.O. Number
Number of Samples: 139

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
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	136	Dry at 60C			VAN
SS80	136	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	136	Saving all or part of Soil Reject			VAN
4B02	136	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 2B

Report Date: November 22, 2011

Page: 2 of 6 Part 1

CERTIFICATE OF ANALYSIS

VAN11004233.1

	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
BCQ-0267	Soil	746	<1	6.1	3.3	13.1	7.7	18.6	69.0	2	99.1	1.4	9.9	3.1	115	2.1	292.7	22.0	39.5
BCQ-0270	Soil	619	<1	6.4	2.6	11.5	6.4	16.5	59.4	2	85.6	1.1	8.8	2.7	100	1.3	228.0	20.2	32.9
BCQ-0266	Soil	554	<1	5.3	2.4	11.3	6.8	17.1	56.7	2	70.1	1.2	10.1	2.9	96	1.5	245.8	21.3	37.3
BCQ-0264	Soil	805	1	6.5	3.0	12.9	7.9	17.9	62.5	2	85.1	1.3	9.3	3.0	119	2.1	283.2	19.5	36.0
BCQ-0258	Soil	534	1	6.8	3.1	9.4	2.8	11.0	64.9	1	69.0	0.7	7.1	2.2	95	0.9	100.1	13.4	24.8
BCQ-0260	Soil	1298	2	8.9	3.9	9.9	5.1	13.9	68.1	1	71.6	0.9	9.7	3.2	193	1.2	183.0	25.9	37.3
BCQ-0268	Soil	525	1	4.0	1.8	5.3	3.4	9.1	35.4	1	68.3	0.6	5.0	1.7	86	0.8	118.6	13.1	20.2
BCQ-0271	Soil	648	2	8.1	3.0	9.4	5.4	14.7	59.1	1	74.1	1.0	9.8	2.7	106	1.2	196.1	22.6	37.0
BCQ-0269	Soil	983	3	12.6	4.5	13.4	6.1	19.5	81.2	2	53.7	1.2	13.4	3.8	161	1.2	219.5	25.2	44.3
BCQ-0294	Soil	1256	1	2.4	2.3	10.2	7.6	10.3	44.3	1	152.3	0.8	6.1	3.8	169	1.0	265.6	18.2	30.0
BCQ-0295	Soil	4195	2	1.4	8.7	16.8	4.1	11.6	115.0	2	96.1	0.9	8.6	5.1	388	1.0	145.7	18.7	33.2
BCQ-0291	Soil	1189	<1	3.2	3.7	13.4	8.0	17.3	76.7	2	85.9	1.3	9.7	4.0	209	1.5	280.2	21.3	38.5
BCQ-0292	Soil	1503	<1	2.1	3.6	13.3	7.4	11.4	66.1	2	122.5	0.9	6.9	3.6	225	1.5	260.6	15.8	26.7
BCQ-0284	Soil	1826	<1	2.0	4.5	15.9	6.7	17.0	73.8	3	104.5	1.2	10.5	3.9	233	1.8	240.3	28.5	47.1
BCQ-0290	Soil	6040	2	1.6	12.0	20.6	5.1	15.2	146.9	2	113.5	0.9	12.2	6.8	459	1.3	194.4	19.5	40.7
BCQ-0287	Soil	2054	<1	2.6	4.9	12.8	8.1	18.7	94.9	3	93.7	1.2	10.4	3.9	219	1.7	291.6	23.7	40.2
BCQ-0293	Soil	1164	1	2.4	3.0	10.7	9.0	13.4	57.0	2	71.3	1.0	7.5	3.7	213	1.2	308.4	18.8	33.3
BCQ-0288	Soil	870	<1	1.7	1.4	6.0	10.6	11.1	30.4	2	58.6	0.7	6.6	2.5	104	0.9	404.5	16.7	22.7
BCQ-0296	Soil	1123	<1	2.2	2.8	12.1	7.1	18.2	58.4	2	83.3	1.4	7.6	4.2	268	1.7	279.2	20.4	34.5
BCQ-0289	Soil	1256	<1	1.8	1.9	7.9	9.3	17.7	50.7	2	61.1	1.2	8.5	3.8	196	1.3	342.3	20.1	40.3
BCQ-0286	Soil	1822	<1	2.4	3.2	10.6	9.4	16.2	63.1	2	71.3	1.0	8.3	3.4	204	1.3	351.8	20.1	34.1
J2-195	Soil	1093	2	14.7	3.6	12.9	7.1	18.3	71.8	2	100.0	1.2	11.0	3.5	183	1.6	254.2	27.8	40.2
J2-203	Soil	425	1	6.7	3.0	9.1	7.4	22.1	62.8	2	64.8	1.3	9.9	3.0	74	1.0	264.0	22.3	38.8
J2-198	Soil	2078	<1	6.7	3.8	14.4	7.9	20.3	62.8	3	102.8	1.4	10.3	3.3	127	1.9	275.5	19.8	35.7
J2-204	Soil	588	2	8.7	3.5	11.7	6.4	19.7	73.5	2	78.9	1.2	12.0	3.0	97	1.4	236.5	24.0	41.7
J2-194	Soil	825	2	7.9	3.7	12.7	7.3	16.8	75.9	2	94.1	1.2	12.0	4.2	200	1.4	269.0	24.9	38.7
J2-196	Soil	1172	2	23.4	4.3	13.0	7.8	26.2	85.4	2	53.8	1.7	11.3	4.2	283	1.3	287.0	34.8	41.4
J2-209	Soil	833	<1	6.8	3.7	14.5	7.9	22.3	78.5	3	121.5	1.6	11.1	3.3	115	1.6	289.4	22.7	41.9
J2-208	Soil	729	2	10.7	3.9	14.1	8.4	24.6	85.0	2	106.0	1.6	13.8	3.6	112	1.5	302.2	27.3	48.9
J2-206	Soil	814	2	10.3	4.1	14.6	7.6	19.4	85.0	3	109.0	1.3	13.4	3.3	119	1.8	275.2	27.9	47.6



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Project: TING 2B

Report Date: November 22, 2011

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CERTIFICATE OF ANALYSIS

VAN11004233.1

	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 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	ppm 0.1
BCQ-0267	Soil	31.6	5.34	0.95	3.97	0.64	3.52	0.74	2.34	0.36	2.39	0.37	1.4	5.1	14.8	62	15.6	7.1	0.1	0.2	0.3
BCQ-0270	Soil	25.5	4.69	0.86	3.74	0.63	3.36	0.70	2.08	0.34	2.02	0.33	0.9	5.5	15.8	43	14.4	6.3	0.2	0.2	0.2
BCQ-0266	Soil	30.0	5.01	0.92	3.96	0.65	3.62	0.75	2.21	0.34	2.23	0.35	1.2	6.0	15.4	33	13.6	6.6	0.2	0.2	0.2
BCQ-0264	Soil	26.0	4.49	0.84	3.68	0.60	3.37	0.69	2.13	0.34	2.23	0.32	1.4	5.9	15.5	65	12.7	5.7	0.3	0.1	0.2
BCQ-0258	Soil	18.8	3.17	0.65	2.68	0.44	2.30	0.49	1.39	0.20	1.27	0.20	1.2	8.9	16.4	32	15.5	7.3	0.2	0.6	0.1
BCQ-0260	Soil	31.0	5.86	1.14	5.01	0.81	4.51	0.92	2.66	0.38	2.45	0.38	4.2	15.1	16.3	99	28.4	12.7	0.6	0.9	0.2
BCQ-0268	Soil	15.2	2.79	0.55	2.40	0.39	2.08	0.45	1.36	0.20	1.33	0.21	1.9	8.2	10.9	42	13.9	6.5	0.2	0.5	<0.1
BCQ-0271	Soil	29.2	5.44	1.07	4.46	0.71	3.77	0.77	2.14	0.34	2.07	0.33	1.5	10.1	16.4	51	21.7	7.8	0.4	0.4	0.1
BCQ-0269	Soil	35.6	6.47	1.27	5.18	0.83	4.58	0.96	2.70	0.40	2.57	0.39	2.4	13.1	27.3	105	34.5	14.3	0.8	0.2	0.2
BCQ-0294	Soil	22.9	4.03	0.75	3.11	0.52	3.01	0.63	1.79	0.28	1.87	0.27	11.3	12.1	9.4	25	6.2	8.9	0.1	1.1	0.1
BCQ-0295	Soil	26.0	4.68	0.94	3.68	0.55	3.00	0.66	1.83	0.28	1.88	0.30	2.9	11.8	18.9	18	8.2	2.5	0.2	0.5	0.2
BCQ-0291	Soil	29.0	4.77	0.86	3.78	0.61	3.50	0.77	2.20	0.36	2.26	0.35	6.4	10.9	13.7	41	9.2	10.1	0.1	0.6	0.2
BCQ-0292	Soil	19.6	3.26	0.63	2.60	0.44	2.62	0.55	1.67	0.27	1.85	0.27	5.9	10.0	12.0	22	5.7	5.9	0.1	0.2	0.2
BCQ-0284	Soil	40.9	6.44	1.11	4.87	0.79	4.29	1.00	2.82	0.42	2.79	0.43	5.1	13.2	19.9	43	8.3	18.1	<0.1	0.3	0.2
BCQ-0290	Soil	30.6	5.41	1.06	4.25	0.61	3.12	0.65	1.93	0.34	2.21	0.35	6.0	19.5	18.9	25	8.6	7.7	0.1	0.2	0.2
BCQ-0287	Soil	30.9	5.24	0.94	4.23	0.70	4.00	0.83	2.56	0.39	2.52	0.39	5.7	7.8	13.5	38	7.4	8.2	0.1	0.5	0.2
BCQ-0293	Soil	25.5	4.28	0.70	3.11	0.53	3.09	0.65	1.95	0.30	1.97	0.31	11.9	11.0	11.0	29	7.2	11.6	<0.1	0.6	0.2
BCQ-0288	Soil	17.4	2.92	0.52	2.54	0.44	2.66	0.60	1.73	0.28	1.83	0.30	3.8	4.9	5.7	20	5.3	6.7	<0.1	0.7	0.1
BCQ-0296	Soil	24.5	4.08	0.69	3.24	0.55	2.93	0.65	2.01	0.31	1.97	0.32	17.2	11.4	15.4	47	9.4	14.5	0.2	1.4	0.2
BCQ-0289	Soil	30.6	4.82	0.78	3.46	0.55	3.44	0.65	2.04	0.33	1.92	0.33	9.0	8.6	9.7	29	6.2	8.7	0.1	1.4	0.1
BCQ-0286	Soil	25.3	4.03	0.70	3.20	0.53	3.25	0.71	2.14	0.34	2.18	0.35	5.4	9.2	11.2	38	8.2	9.6	0.1	0.4	0.1
J2-195	Soil	31.7	5.84	1.15	4.95	0.81	4.51	0.95	2.70	0.42	2.80	0.41	1.8	31.5	18.3	224	40.1	9.9	8.4	0.5	0.2
J2-203	Soil	30.9	5.23	1.06	4.53	0.70	3.72	0.76	2.18	0.34	2.18	0.34	0.7	8.7	29.1	102	15.0	11.0	0.7	0.4	0.1
J2-198	Soil	27.1	4.55	0.82	3.63	0.59	3.42	0.74	2.10	0.34	2.18	0.34	1.6	8.7	24.5	161	16.5	8.0	4.8	0.1	0.2
J2-204	Soil	31.2	5.68	1.09	4.54	0.76	4.11	0.79	2.38	0.37	2.21	0.35	0.8	8.9	25.9	63	20.4	11.5	0.3	0.3	0.2
J2-194	Soil	30.6	5.34	1.04	4.50	0.73	3.95	0.82	2.61	0.39	2.42	0.38	2.7	20.8	15.7	363	37.6	9.9	9.3	0.8	0.2
J2-196	Soil	33.7	6.38	1.35	5.71	0.94	5.26	1.10	3.13	0.49	3.19	0.50	4.3	34.8	29.7	623	115.5	20.9	10.5	1.8	0.2
J2-209	Soil	31.9	5.47	0.97	4.24	0.70	4.01	0.81	2.41	0.38	2.48	0.38	0.7	5.9	17.0	127	12.7	4.2	1.1	<0.1	0.2
J2-208	Soil	36.0	6.62	1.24	5.41	0.87	4.80	0.98	2.73	0.42	2.82	0.42	0.9	11.9	22.1	105	28.4	11.9	1.1	0.2	0.3
J2-206	Soil	37.8	6.57	1.27	5.37	0.88	5.00	1.04	2.91	0.44	2.87	0.43	0.8	11.6	20.9	169	39.9	10.6	3.4	0.2	0.3



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Project: TING 2B

Report Date: November 22, 2011

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CERTIFICATE OF ANALYSIS

VAN11004233.1

	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
BCQ-0267	Soil	<0.1	1.4	0.02	0.1	<0.5
BCQ-0270	Soil	<0.1	1.3	0.02	0.1	<0.5
BCQ-0266	Soil	<0.1	0.9	0.04	<0.1	<0.5
BCQ-0264	Soil	<0.1	1.3	0.04	0.1	<0.5
BCQ-0258	Soil	0.1	2.5	0.07	<0.1	0.6
BCQ-0260	Soil	0.7	3.7	0.12	0.2	1.1
BCQ-0268	Soil	0.1	1.3	0.03	<0.1	0.6
BCQ-0271	Soil	0.1	1.8	0.03	0.1	<0.5
BCQ-0269	Soil	0.1	1.4	0.05	0.2	0.5
BCQ-0294	Soil	0.3	1.3	0.08	0.2	1.9
BCQ-0295	Soil	2.4	4.3	0.36	0.3	2.3
BCQ-0291	Soil	0.7	1.2	0.07	0.3	1.5
BCQ-0292	Soil	0.6	1.4	0.05	0.2	1.1
BCQ-0284	Soil	0.5	0.9	0.04	0.2	3.5
BCQ-0290	Soil	2.2	3.9	0.38	0.4	3.5
BCQ-0287	Soil	0.3	1.3	0.03	0.2	1.7
BCQ-0293	Soil	0.4	2.1	0.05	0.2	2.1
BCQ-0288	Soil	0.3	0.9	0.04	<0.1	1.0
BCQ-0296	Soil	0.2	0.6	0.03	0.4	2.8
BCQ-0289	Soil	0.2	1.4	0.03	0.2	2.4
BCQ-0286	Soil	0.8	1.6	0.03	0.2	2.2
J2-195	Soil	0.5	0.6	0.08	0.4	1.2
J2-203	Soil	<0.1	0.6	0.06	0.1	<0.5
J2-198	Soil	<0.1	0.6	0.03	0.2	<0.5
J2-204	Soil	<0.1	10.5	0.04	0.1	<0.5
J2-194	Soil	0.1	1.1	0.05	0.3	1.4
J2-196	Soil	0.9	1.5	0.08	1.0	2.5
J2-209	Soil	<0.1	0.9	0.02	0.2	<0.5
J2-208	Soil	<0.1	2.1	0.02	0.2	<0.5
J2-206	Soil	0.1	1.8	0.06	0.2	<0.5



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CERTIFICATE OF ANALYSIS

VAN11004233.1

	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
J2-197	Soil	1968	2	15.1	3.7	12.0	5.9	17.1	73.9	2	67.7	1.3	9.3	4.9	469	1.4	225.5	34.2	35.7	69.8
J2-200	Soil	626	2	9.6	4.0	13.4	6.8	27.5	85.0	3	83.7	1.6	12.9	3.6	106	1.4	242.5	24.9	47.0	85.0
J2-192	Soil	1032	<1	20.5	3.9	12.4	9.0	25.4	83.1	2	69.3	1.6	12.1	4.0	162	1.7	319.6	37.6	45.9	92.5
J2-191	Soil	877	1	12.5	3.1	10.9	6.6	16.9	70.7	2	85.5	1.1	9.8	3.8	122	1.3	227.7	22.8	34.4	67.6
WJH-045	Soil	1198	1	5.6	5.5	13.9	8.1	19.1	92.0	3	93.3	1.3	10.5	3.2	188	2.3	297.5	21.9	41.4	79.8
WJH-054	Soil	1089	2	8.7	2.9	9.1	6.0	18.1	60.1	1	71.5	1.0	8.4	6.1	515	1.5	237.0	29.4	35.7	64.8
WJH-051	Soil	1348	3	10.0	5.1	11.8	6.2	18.4	74.7	2	102.2	1.2	9.2	4.6	282	1.3	228.1	34.0	35.5	64.9
WJH-049	Soil	1157	2	9.1	3.7	11.7	6.0	16.7	74.3	2	101.9	1.2	9.3	4.4	271	1.4	207.4	29.0	36.4	65.3
WJH-053	Soil	1493	2	10.8	3.4	9.5	6.1	15.8	64.2	2	72.0	1.1	8.7	5.1	355	1.2	211.2	31.7	34.2	62.9
WJH-047	Soil	1305	2	9.9	3.4	9.8	7.3	19.3	67.1	2	57.5	1.3	9.4	5.1	399	1.1	265.2	33.9	39.6	73.5
WJH-067	Soil	4506	1	10.8	4.9	13.7	7.1	18.0	85.5	2	68.4	1.2	8.6	4.3	723	1.6	230.8	23.7	32.6	61.0
WJH-061	Soil	2532	2	9.5	3.4	10.2	7.5	18.6	72.0	2	60.1	1.2	10.0	6.0	538	1.4	281.5	41.0	42.0	77.1
WJH-057	Soil	2159	2	27.3	2.2	6.4	11.9	14.7	43.0	1	49.4	0.9	10.3	14.2	352	1.7	442.2	85.3	48.5	83.5
WJH-058	Soil	5324	3	12.2	5.4	7.4	5.7	7.7	56.2	1	84.2	0.5	6.3	6.5	579	0.7	214.5	47.6	33.4	51.7
WJH-063	Soil	2951	2	8.4	3.9	12.8	6.6	16.0	80.7	3	71.1	1.0	9.1	3.8	568	1.6	248.2	19.1	33.2	59.5
WJH-065	Soil	9211	3	6.1	4.2	12.5	3.1	8.9	92.2	2	52.8	0.6	6.0	5.6	1373	1.1	105.5	14.7	23.4	32.8
WJH-055	Soil	855	2	11.4	3.8	13.5	7.1	20.4	77.2	2	85.3	1.3	10.2	3.7	243	1.7	261.2	21.7	36.3	76.7
WJH-067	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.
WJH-062	Soil	2599	2	12.9	6.0	13.5	7.1	14.3	100.8	2	35.7	0.9	10.9	6.3	1056	1.2	261.1	44.9	41.7	76.3
AAB-0413	Soil	10114	2	11.7	6.3	11.2	8.1	11.4	94.6	2	50.2	0.8	10.6	7.8	531	1.1	282.0	56.5	47.1	73.6
AAB-0415	Soil	1847	3	7.6	3.5	11.6	8.0	15.4	72.2	2	75.1	1.1	9.7	3.3	211	1.5	288.5	20.8	39.2	76.5
AAB-0410	Soil	2666	1	5.4	3.9	11.9	8.3	14.6	84.2	2	84.1	1.0	9.5	3.9	219	1.7	284.4	25.0	36.3	68.4
AAB-0409	Soil	5897	1	6.2	3.9	10.2	5.6	10.1	63.8	1	66.0	0.8	7.8	6.1	347	1.0	206.7	25.8	29.0	52.9
AAB-0421	Soil	3485	1	5.2	2.7	9.5	7.5	13.5	58.3	2	56.9	0.9	8.8	4.6	266	1.4	269.6	22.4	36.7	68.3
AAB-0414	Soil	1537	<1	3.4	3.0	11.8	8.6	15.4	68.4	2	72.9	1.1	9.2	3.4	194	1.5	300.4	22.4	38.1	69.8
AAB-0417	Soil	1978	<1	3.2	3.3	10.5	8.1	15.1	68.6	2	70.2	1.0	8.5	3.5	239	1.4	275.0	21.8	34.6	64.4
AAB-0419	Soil	2923	1	7.1	3.3	10.1	6.3	11.4	59.6	2	78.3	0.8	8.7	4.5	207	1.0	224.0	23.0	32.6	60.6
AAB-0418	Soil	2233	1	6.6	2.9	11.6	9.5	16.3	61.6	2	91.1	1.2	11.6	3.5	148	1.3	354.0	23.7	47.3	90.0
AAB-0423	Soil	4248	2	7.5	3.6	12.0	6.8	18.1	75.3	2	77.8	1.1	10.7	5.6	289	1.2	252.1	32.8	39.6	68.3
AAB-0422	Soil	4687	1	8.9	3.2	11.6	6.2	13.6	72.4	2	71.5	0.9	9.4	5.8	272	1.3	217.6	26.5	35.6	65.4



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	4B	4B	4B	4B	4B	4B	4B	4B	4B	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	
J2-197	Soil				29.2	5.35	1.06	4.96	0.80	4.70	1.02	3.01	0.46	3.05	0.48	6.7	49.3	23.8	417	62.1	13.5	23.0	3.0	0.2
J2-200	Soil				34.4	5.88	1.17	4.86	0.76	4.26	0.87	2.40	0.37	2.49	0.36	0.9	12.4	44.6	114	21.2	13.0	0.8	0.5	0.2
J2-192	Soil				38.1	7.07	1.46	6.35	1.03	6.21	1.22	3.50	0.52	3.44	0.51	4.1	29.3	34.3	762	134.6	22.6	11.9	1.1	0.2
J2-191	Soil				27.7	4.93	0.99	4.16	0.68	3.82	0.80	2.30	0.36	2.23	0.33	2.3	19.3	20.1	349	43.4	11.0	10.7	0.8	0.2
WJH-045	Soil				30.4	5.03	0.90	4.05	0.66	3.78	0.77	2.22	0.37	2.46	0.37	2.6	7.8	12.0	153	14.9	7.0	4.7	0.5	0.2
WJH-054	Soil				28.9	5.40	1.11	4.69	0.76	4.51	0.93	2.79	0.42	2.83	0.42	19.4	32.7	21.1	434	72.8	22.0	6.4	4.6	0.1
WJH-051	Soil				30.7	5.58	1.26	5.08	0.83	4.92	1.07	3.01	0.46	2.89	0.45	6.5	34.9	20.2	362	54.6	13.6	7.0	2.4	0.2
WJH-049	Soil				30.3	5.27	1.15	4.53	0.77	4.47	0.93	2.70	0.40	2.50	0.40	7.0	41.6	23.7	371	61.4	16.5	6.5	2.7	0.2
WJH-053	Soil				28.7	5.03	1.05	4.61	0.76	4.56	0.95	2.87	0.42	2.72	0.45	12.4	48.8	21.8	449	60.4	18.3	7.7	2.8	0.2
WJH-047	Soil				34.1	6.26	1.32	5.43	0.88	5.06	1.07	3.15	0.46	2.89	0.45	12.8	27.1	23.9	419	63.3	21.2	7.3	4.6	0.2
WJH-067	Soil				24.3	4.12	0.81	3.57	0.59	3.64	0.75	2.45	0.36	2.51	0.38	4.2	24.0	24.2	670	50.4	14.3	7.9	3.8	0.2
WJH-061	Soil				37.5	6.78	1.39	6.19	0.98	6.03	1.24	3.54	0.51	3.21	0.53	16.1	43.3	24.6	603	99.6	22.5	10.3	5.9	0.2
WJH-057	Soil				40.4	7.58	1.70	8.78	1.37	8.60	1.93	5.82	0.79	4.96	0.83	22.0	88.8	117.5	3418	625.8	45.7	29.9	38.6	0.1
WJH-058	Soil				28.9	5.84	1.30	6.15	0.97	5.62	1.27	3.64	0.52	3.23	0.51	15.2	117.5	75.0	3795	568.3	22.7	76.7	13.9	0.1
WJH-063	Soil				24.1	3.70	0.69	3.06	0.51	2.86	0.66	2.02	0.33	2.14	0.33	6.4	15.9	23.5	365	38.9	14.2	4.4	3.4	0.2
WJH-065	Soil				14.9	2.36	0.41	1.97	0.32	1.99	0.44	1.38	0.23	1.60	0.26	13.9	49.6	29.5	660	104.6	21.3	7.7	18.8	0.2
WJH-055	Soil				27.6	4.65	0.87	3.79	0.60	3.67	0.76	2.29	0.34	2.21	0.34	7.0	13.2	33.5	184	33.8	18.8	2.4	1.1	0.3
WJH-067	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.
WJH-062	Soil				39.9	7.12	1.45	6.63	1.08	6.14	1.34	3.92	0.60	3.95	0.61	17.4	64.0	20.9	860	157.8	25.2	13.1	9.8	0.2
AAB-0413	Soil				39.4	7.87	1.77	7.78	1.24	7.07	1.53	4.52	0.64	4.16	0.64	3.5	39.2	54.5	358	59.2	10.9	2.9	1.3	0.2
AAB-0415	Soil				31.6	5.66	0.94	3.99	0.61	3.55	0.75	2.04	0.32	2.15	0.34	5.2	14.3	13.7	113	24.9	12.0	0.5	1.0	0.2
AAB-0410	Soil				27.7	4.87	0.80	3.81	0.63	3.69	0.84	2.47	0.39	2.49	0.40	3.2	20.6	13.9	93	16.7	7.0	1.2	0.8	0.2
AAB-0409	Soil				24.2	4.51	0.87	4.09	0.66	3.83	0.91	2.43	0.35	2.19	0.34	6.8	55.7	12.2	146	35.2	11.7	1.0	2.8	0.2
AAB-0421	Soil				29.8	4.78	0.89	3.79	0.61	3.55	0.77	2.24	0.34	2.21	0.35	6.0	17.0	11.5	118	21.1	9.7	0.6	1.6	0.1
AAB-0414	Soil				27.9	4.69	0.85	3.80	0.62	3.64	0.77	2.28	0.35	2.41	0.36	4.8	10.3	11.3	67	12.5	9.9	0.5	0.9	0.2
AAB-0417	Soil				26.5	4.27	0.75	3.51	0.58	3.40	0.75	2.17	0.34	2.35	0.35	4.6	11.5	11.6	74	13.9	7.9	0.4	0.6	0.2
AAB-0419	Soil				25.6	4.66	0.82	4.00	0.65	3.64	0.74	2.18	0.33	2.15	0.34	3.2	19.5	14.6	94	20.9	9.0	1.3	1.1	0.2
AAB-0418	Soil				36.4	5.98	1.01	4.60	0.72	3.98	0.82	2.23	0.37	2.24	0.36	2.4	13.4	15.8	68	16.1	9.1	0.6	0.4	0.2
AAB-0423	Soil				31.5	5.82	1.16	5.35	0.89	4.90	1.09	3.24	0.48	2.94	0.47	3.1	20.9	12.6	193	43.6	9.4	1.8	0.9	0.2
AAB-0422	Soil				29.5	5.12	0.94	4.26	0.72	4.20	0.88	2.63	0.38	2.38	0.39	6.8	21.3	13.3	133	25.1	10.6	1.0	1.1	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
J2-197	Soil	1.3	2.6	0.15	0.6	2.7
J2-200	Soil	<0.1	1.1	0.02	0.2	<0.5
J2-192	Soil	0.5	1.0	0.06	0.8	1.9
J2-191	Soil	0.3	0.8	0.11	0.3	0.9
WJH-045	Soil	0.1	0.9	<0.01	0.3	0.6
WJH-054	Soil	0.7	1.5	0.09	0.9	3.8
WJH-051	Soil	0.4	0.8	0.08	0.4	1.8
WJH-049	Soil	0.5	<0.5	0.08	0.4	1.5
WJH-053	Soil	0.3	<0.5	0.08	0.5	1.6
WJH-047	Soil	0.5	<0.5	0.07	0.5	2.9
WJH-067	Soil	1.0	<0.5	0.06	0.4	1.0
WJH-061	Soil	1.8	0.6	0.17	0.9	4.1
WJH-057	Soil	1.2	<0.5	0.29	1.3	1.5
WJH-058	Soil	1.6	<0.5	0.24	4.5	5.3
WJH-063	Soil	1.9	<0.5	0.05	0.4	1.2
WJH-065	Soil	3.7	1.3	0.10	1.0	7.6
WJH-055	Soil	0.1	<0.5	0.03	0.4	1.1
WJH-067	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
WJH-062	Soil	1.2	1.4	0.15	0.9	5.3
AAB-0413	Soil	1.5	<0.5	0.29	0.9	2.2
AAB-0415	Soil	0.3	<0.5	0.01	0.1	1.5
AAB-0410	Soil	0.3	<0.5	0.02	0.1	0.7
AAB-0409	Soil	1.0	<0.5	0.16	0.2	3.8
AAB-0421	Soil	0.2	<0.5	0.04	0.1	2.1
AAB-0414	Soil	0.1	<0.5	0.02	0.1	0.7
AAB-0417	Soil	0.1	<0.5	<0.01	0.1	1.1
AAB-0419	Soil	0.4	<0.5	0.06	0.1	1.5
AAB-0418	Soil	0.5	<0.5	0.03	<0.1	0.9
AAB-0423	Soil	0.7	<0.5	0.11	0.4	1.9
AAB-0422	Soil	0.5	<0.5	0.07	0.2	2.1



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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
AAB-0420	Soil	3646	1	13.7	3.4	10.4	6.6	13.4	61.8	2	67.4	0.9	8.5	4.1	265	1.3	238.2	22.8	31.6	62.7
J2-193	Soil	1617	1	16.9	3.9	12.4	9.0	21.7	77.0	2	74.9	1.4	10.9	4.2	195	1.6	314.7	29.2	40.2	76.3
J2-224	Soil	756	2	5.9	4.1	12.1	9.3	26.0	60.5	2	161.6	1.6	10.1	3.5	204	1.6	330.7	21.3	40.6	75.4
J2-217	Soil	735	2	5.7	4.7	15.0	8.1	23.3	74.3	3	172.9	1.5	10.2	3.4	198	1.7	288.5	23.6	36.6	67.9
J2-213	Soil	669	1	5.1	4.4	13.0	9.4	24.5	65.6	2	133.2	1.5	9.5	3.4	209	1.6	333.1	19.7	35.0	64.8
J2-214	Soil	768	1	4.6	4.5	13.8	9.6	23.9	71.5	2	160.6	1.6	9.7	3.6	251	1.5	338.2	22.5	37.3	70.8
J2-218	Soil	773	<1	3.7	4.7	16.0	8.6	22.7	79.1	3	148.5	1.5	10.6	3.2	152	1.7	304.2	23.6	39.8	74.5
J2-223	Soil	638	1	3.4	4.2	12.1	9.6	19.3	49.8	2	192.7	1.2	9.0	3.1	164	1.4	357.9	25.5	34.4	63.8
J2-216	Soil	595	<1	3.5	4.2	12.4	9.1	26.6	57.7	2	179.3	1.6	9.2	3.5	201	1.6	340.0	24.1	37.5	68.0
J2-210	Soil	677	<1	2.2	3.7	13.0	9.1	21.9	68.6	2	165.8	1.6	9.5	3.1	139	1.6	324.4	20.3	35.9	67.6
J2-255	Soil	525	2	7.2	4.0	7.9	5.0	9.0	75.2	1	68.5	0.6	6.9	2.2	63	0.6	179.3	26.9	25.5	43.3
J2-225	Soil	397	<1	1.3	3.7	10.2	12.1	12.8	63.4	2	431.7	0.9	8.5	2.9	104	1.0	423.3	20.8	28.4	53.1
J2-233	Soil	470	2	5.4	3.0	8.3	10.3	8.9	53.2	1	76.2	0.7	7.1	3.8	88	1.1	372.4	21.8	24.2	45.9
J2-233	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.
J2-226	Soil	247	3	1.6	2.4	5.8	9.0	6.2	45.0	<1	68.0	0.6	5.4	3.7	78	0.6	321.2	20.6	21.3	34.3
J2-230	Soil	370	3	5.6	5.5	12.7	6.9	11.2	85.5	2	253.8	0.8	9.5	2.9	129	1.0	270.5	22.1	29.1	57.4
J2-232	Soil	308	4	5.0	2.5	8.2	11.1	11.4	60.0	2	41.5	0.7	8.5	6.9	95	1.2	415.5	27.5	33.5	49.3
J2-229	Soil	293	2	2.1	3.5	9.5	9.7	12.4	71.1	2	166.5	0.7	8.6	3.1	102	1.3	388.2	22.5	27.8	52.7
J2-228	Soil	172	<1	1.7	1.6	4.8	8.3	7.0	32.1	<1	73.5	0.4	5.1	2.3	54	0.7	283.8	15.2	17.6	31.9
J2-227	Soil	371	2	4.7	3.9	9.1	5.8	8.5	69.5	2	92.5	0.6	7.9	5.5	103	0.6	206.4	27.8	28.5	45.8
J2-236	Soil	144	3	1.6	1.0	3.3	12.1	8.0	20.2	<1	37.1	0.5	4.4	3.2	46	0.7	455.4	14.8	15.0	24.1
J2-235	Soil	394	1	3.5	2.4	8.4	8.5	11.6	38.3	2	78.6	0.7	6.9	3.6	84	1.1	353.2	18.8	26.7	48.9
J2-234	Soil	610	4	3.6	3.7	14.8	8.1	18.4	54.8	3	106.5	1.1	9.6	4.0	114	1.5	284.5	19.9	33.9	65.0
J2-231	Soil	340	2	6.6	3.0	8.0	7.3	8.7	45.8	<1	80.8	0.7	6.2	2.5	95	0.9	302.5	13.2	20.6	39.4
J2-238	Soil	279	1	3.3	2.3	6.2	10.8	11.8	46.5	2	70.4	0.9	6.7	3.5	76	1.1	356.0	19.9	24.0	39.8
J2-237	Soil	177	6	1.7	1.5	4.9	14.9	11.4	33.4	<1	43.6	0.8	6.7	5.0	58	1.1	531.1	21.5	24.5	37.8
J2-241	Soil	222	2	5.9	3.8	9.9	6.1	8.6	45.3	2	81.6	0.6	8.1	2.7	96	1.0	258.8	24.1	27.9	48.9
J2-240	Soil	573	<1	3.8	3.3	12.2	10.2	18.7	69.0	3	104.6	1.3	11.8	3.7	120	1.6	361.2	21.4	37.4	71.2
J2-239	Soil	474	1	6.2	2.4	11.1	7.1	13.2	42.0	1	104.4	0.9	8.7	2.9	105	1.2	269.9	18.7	28.1	56.3
J2-244	Soil	506	1	10.1	2.8	8.2	4.8	10.3	61.5	1	52.1	0.6	6.9	2.4	88	0.6	175.0	20.9	29.9	45.9



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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	1DX
		Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi
		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	ppm 0.1
AAB-0420	Soil	25.5	4.70	0.91	3.86	0.63	3.47	0.79	2.17	0.35	2.13	0.32	5.9	20.9	12.7	129	27.2	12.7	1.0	1.4	0.2
J2-193	Soil	29.9	5.42	1.07	4.83	0.79	4.53	0.94	2.76	0.44	2.78	0.44	5.4	21.7	48.4	927	114.2	19.7	11.8	1.0	0.3
J2-224	Soil	30.3	4.82	0.94	3.96	0.64	3.46	0.74	2.19	0.36	2.32	0.36	3.9	9.1	20.7	84	20.2	18.7	0.4	0.6	0.2
J2-217	Soil	29.0	5.01	0.91	3.87	0.65	3.75	0.82	2.51	0.38	2.53	0.37	4.0	8.6	17.8	71	17.4	13.2	0.3	0.4	0.3
J2-213	Soil	26.7	4.30	0.82	3.42	0.55	3.18	0.72	2.11	0.31	2.19	0.35	3.8	9.2	21.2	83	19.6	16.3	0.2	0.4	0.2
J2-214	Soil	29.2	4.78	0.90	3.96	0.64	3.55	0.78	2.36	0.37	2.48	0.38	4.2	7.7	17.8	85	17.3	16.1	0.3	0.2	0.2
J2-218	Soil	30.9	5.15	0.91	4.05	0.67	3.81	0.83	2.58	0.37	2.48	0.40	2.2	5.9	15.6	44	9.8	7.5	0.2	0.1	0.3
J2-223	Soil	26.5	4.78	0.97	4.05	0.68	3.97	0.84	2.65	0.40	2.59	0.40	4.2	7.8	15.6	42	14.1	16.1	0.2	0.1	0.2
J2-216	Soil	29.1	4.98	0.96	3.99	0.66	3.96	0.86	2.60	0.39	2.57	0.40	7.2	8.2	16.3	63	17.8	16.5	0.2	0.4	0.2
J2-210	Soil	27.2	4.48	0.83	3.55	0.57	3.16	0.73	2.18	0.33	2.21	0.35	1.6	3.4	11.2	26	6.1	7.2	<0.1	0.3	0.2
J2-255	Soil	23.2	4.36	1.03	4.44	0.64	3.70	0.80	2.24	0.31	1.80	0.28	0.6	13.6	10.8	115	14.0	4.6	1.1	0.3	0.1
J2-225	Soil	22.4	4.27	0.83	3.53	0.57	3.36	0.75	2.32	0.37	2.59	0.40	0.7	6.3	11.8	16	5.3	10.3	0.1	<0.1	0.2
J2-233	Soil	19.6	3.56	0.70	3.00	0.55	3.23	0.74	2.31	0.35	2.45	0.40	1.5	10.2	9.3	60	21.7	6.3	0.2	0.2	0.1
J2-233	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.
J2-226	Soil	20.4	3.47	0.70	3.02	0.49	3.07	0.63	2.01	0.32	2.01	0.29	1.1	4.9	4.9	47	14.0	5.3	0.2	0.1	<0.1
J2-230	Soil	28.5	4.86	0.99	3.92	0.64	4.01	0.82	2.55	0.37	2.62	0.38	0.5	9.3	10.6	40	17.8	10.5	<0.1	<0.1	0.2
J2-232	Soil	24.9	3.96	0.76	3.82	0.68	4.37	0.92	2.66	0.43	3.06	0.45	1.9	12.0	5.8	118	45.2	4.2	0.5	0.3	<0.1
J2-229	Soil	24.0	4.34	0.84	3.64	0.59	3.47	0.75	2.45	0.40	2.62	0.42	0.6	6.9	11.2	26	10.7	8.5	<0.1	<0.1	0.2
J2-228	Soil	17.3	2.75	0.54	2.52	0.40	2.17	0.58	1.64	0.25	1.65	0.25	0.5	3.8	4.5	18	8.2	4.8	<0.1	<0.1	<0.1
J2-227	Soil	24.5	4.51	0.97	4.65	0.72	4.29	0.91	2.74	0.41	2.60	0.38	0.9	9.6	10.5	80	27.6	8.7	0.7	0.1	0.1
J2-236	Soil	11.3	1.93	0.38	1.75	0.30	1.99	0.48	1.61	0.31	1.92	0.31	1.4	5.4	3.9	29	10.6	3.9	0.1	0.2	<0.1
J2-235	Soil	23.6	3.70	0.67	2.84	0.50	3.13	0.63	2.05	0.33	2.11	0.32	1.2	5.1	8.4	40	11.1	5.1	0.2	0.1	0.1
J2-234	Soil	27.5	4.65	0.83	3.45	0.57	3.55	0.70	2.08	0.35	2.24	0.34	1.2	4.6	10.4	37	8.4	4.8	0.2	0.1	0.2
J2-231	Soil	17.8	2.87	0.54	2.25	0.35	2.15	0.48	1.52	0.25	1.66	0.26	1.1	8.2	9.4	49	13.6	6.7	0.4	0.2	0.1
J2-238	Soil	19.8	2.96	0.62	2.81	0.46	2.92	0.67	2.02	0.31	2.31	0.33	2.1	8.3	9.0	64	18.3	9.8	0.3	0.2	0.1
J2-237	Soil	18.5	2.98	0.60	2.58	0.48	3.04	0.69	2.28	0.41	2.69	0.45	1.7	5.1	6.4	45	11.9	3.7	0.2	0.2	<0.1
J2-241	Soil	26.2	4.31	0.92	3.95	0.63	3.73	0.77	2.22	0.34	2.23	0.34	1.1	9.5	9.4	62	25.6	7.0	0.4	<0.1	0.1
J2-240	Soil	31.0	4.95	0.88	3.83	0.64	3.77	0.86	2.44	0.39	2.73	0.38	1.7	6.5	10.7	33	8.2	6.5	0.1	0.2	0.2
J2-239	Soil	25.7	4.01	0.78	3.07	0.52	3.05	0.64	1.88	0.30	2.01	0.30	0.5	4.1	11.4	49	12.3	4.8	0.3	0.1	0.2
J2-244	Soil	30.1	5.84	1.38	5.38	0.80	4.49	0.80	2.11	0.32	2.16	0.33	2.1	29.0	23.2	98	24.9	10.4	0.6	1.1	0.1



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CERTIFICATE OF ANALYSIS

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	Method Analyte	Unit	1DX	1DX	1DX	1DX	1DX
			Ag	Au	Hg	Tl	Se
			ppm	ppb	ppm	ppm	ppm
			MDL	MDL	MDL	MDL	MDL
AAB-0420	Soil		0.3	<0.5	0.05	0.1	2.2
J2-193	Soil		0.5	0.6	0.06	0.9	2.9
J2-224	Soil		0.1	<0.5	0.05	0.2	1.1
J2-217	Soil		0.8	<0.5	0.03	0.2	0.6
J2-213	Soil		0.3	<0.5	0.03	0.3	<0.5
J2-214	Soil		0.2	<0.5	0.02	0.3	0.5
J2-218	Soil		2.4	<0.5	0.01	0.2	<0.5
J2-223	Soil		0.1	<0.5	0.04	0.1	0.6
J2-216	Soil		0.1	<0.5	0.02	0.3	<0.5
J2-210	Soil		0.5	<0.5	0.01	0.1	<0.5
J2-255	Soil		0.1	<0.5	0.06	0.1	1.1
J2-225	Soil		<0.1	<0.5	0.03	<0.1	0.7
J2-233	Soil		0.1	<0.5	0.02	0.2	1.0
J2-233	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
J2-226	Soil		<0.1	<0.5	0.04	0.2	<0.5
J2-230	Soil		0.1	<0.5	0.03	0.1	<0.5
J2-232	Soil		<0.1	<0.5	0.05	0.2	0.7
J2-229	Soil		0.2	<0.5	0.02	0.2	0.8
J2-228	Soil		<0.1	<0.5	0.03	<0.1	<0.5
J2-227	Soil		0.1	<0.5	0.04	0.2	<0.5
J2-236	Soil		<0.1	<0.5	0.02	<0.1	0.6
J2-235	Soil		<0.1	<0.5	0.02	<0.1	<0.5
J2-234	Soil		0.1	<0.5	0.02	0.2	<0.5
J2-231	Soil		<0.1	0.7	0.04	0.1	0.6
J2-238	Soil		<0.1	2.0	0.02	<0.1	0.6
J2-237	Soil		<0.1	<0.5	0.02	0.1	<0.5
J2-241	Soil		<0.1	<0.5	0.03	0.2	0.5
J2-240	Soil		<0.1	<0.5	0.03	0.1	0.6
J2-239	Soil		0.1	<0.5	0.02	<0.1	<0.5
J2-244	Soil		<0.1	0.6	0.05	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	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
J2-243	Soil	593	3	10.1	3.2	10.4	7.5	13.6	65.9	2	74.6	0.8	10.0	2.9	100	1.4	265.9	16.7	29.8
J2-242	Soil	586	3	12.4	3.6	8.8	5.8	14.4	62.2	<1	73.3	1.0	9.1	2.9	160	1.2	211.9	23.7	33.3
J2-257	Soil	295	<1	3.1	1.6	7.8	8.6	10.3	40.2	1	45.8	0.9	6.7	2.1	77	1.0	344.9	12.4	22.2
J2-246	Soil	708	6	8.1	3.5	11.5	7.0	13.9	66.1	2	99.5	0.9	9.8	3.1	111	1.5	284.4	17.2	31.9
J2-247	Soil	382	3	10.4	4.6	12.5	7.0	12.5	96.1	2	36.1	0.9	10.2	2.6	82	0.8	248.7	19.4	29.5
J2-245	Soil	581	<1	8.8	3.3	9.0	7.3	12.2	70.2	1	62.4	0.8	9.0	2.6	95	1.0	246.1	18.5	28.8
J2-253	Soil	510	<1	8.9	3.5	11.6	6.4	14.6	68.2	2	63.3	1.1	8.1	2.5	116	1.0	231.2	15.7	26.5
J2-248	Soil	502	4	9.5	3.3	10.5	6.2	11.4	75.5	1	61.2	0.7	9.4	2.7	78	1.0	233.1	17.1	25.7
J2-249	Soil	658	3	5.3	3.4	14.2	7.6	15.7	106.1	2	86.1	1.2	11.1	3.0	100	1.2	278.3	18.6	32.1
J2-250	Soil	659	<1	5.5	3.1	10.6	6.8	14.5	86.8	1	83.1	1.1	9.5	2.3	85	0.9	246.4	16.1	28.5
J2-251	Soil	526	<1	4.7	2.4	9.1	7.6	13.4	77.2	1	63.7	0.9	7.2	2.3	78	1.0	312.0	14.0	24.9
J2-252	Soil	480	<1	7.6	3.7	11.1	6.5	14.6	78.2	1	63.7	0.9	7.4	2.5	97	1.1	238.4	12.9	24.1
J2-256	Soil	565	3	4.4	2.8	14.2	8.0	17.6	64.3	2	86.1	1.0	9.9	2.6	132	1.6	296.6	18.0	33.1
J2-254	Soil	221	2	4.7	1.9	11.2	3.6	20.0	72.8	1	42.4	1.1	4.2	1.6	144	0.8	147.8	15.3	23.5
BCQ-0309	Soil	465	3	12.9	4.0	14.0	7.3	22.6	53.6	2	116.0	1.4	9.4	3.1	115	1.9	255.1	19.4	29.7
BCQ-0298	Soil	360	<1	4.6	1.9	8.1	5.2	7.8	57.5	<1	150.4	0.6	6.9	2.5	46	0.6	188.9	13.4	20.7
BCQ-0299	Soil	408	1	7.7	2.7	10.6	9.8	16.1	48.2	1	62.7	1.0	7.7	3.2	68	1.7	332.3	13.3	19.3
BCQ-0301	Soil	451	1	15.1	4.4	14.6	6.8	27.6	64.0	2	105.8	1.6	10.0	2.8	119	2.7	237.2	25.5	39.1
BCQ-0303	Soil	712	1	5.0	6.7	14.1	7.7	18.5	82.5	2	110.4	1.4	9.6	2.7	109	1.6	271.7	19.3	33.2
BCQ-0312	Soil	550	<1	10.4	3.8	14.0	6.3	21.0	66.6	2	99.4	1.4	9.4	2.7	118	0.8	235.9	20.0	31.3
BCQ-0317	Soil	658	2	6.8	6.4	15.4	6.9	17.9	92.5	3	121.1	1.2	8.9	2.8	118	5.0	262.5	18.2	34.6
BCQ-0319	Soil	725	2	5.5	6.5	15.1	6.0	18.8	105.5	2	176.6	1.2	8.9	2.6	106	4.2	237.5	18.5	36.5
BCQ-0330	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.
BCQ-0320	Soil	483	2	23.3	7.5	17.6	5.6	32.2	86.4	3	155.8	2.1	9.3	2.7	145	1.9	231.9	30.5	40.1
BCQ-0321	Soil	619	2	11.4	6.6	14.3	5.7	20.3	100.0	2	161.5	1.4	9.9	3.0	107	6.2	216.5	21.4	34.8
BCQ-0322	Soil	628	1	15.7	6.2	14.6	6.8	21.0	90.8	2	191.6	1.4	10.1	2.9	111	5.0	255.9	23.5	38.9
BCQ-0314	Soil	562	2	13.2	4.9	14.8	6.3	22.1	88.3	2	162.9	1.4	8.1	2.9	125	1.4	247.2	18.5	29.5
BCQ-0316	Soil	687	<1	3.2	5.6	15.1	7.5	20.2	96.7	2	113.0	1.4	9.1	2.9	104	5.6	291.6	19.7	35.1
AAB-0439	Soil	884	<1	10.1	2.7	8.9	8.4	20.8	56.7	2	56.8	1.3	9.2	3.0	94	1.2	342.8	23.9	35.3
AAB-0448	Soil	3540	<1	7.8	4.0	13.4	6.3	16.7	89.4	2	82.2	1.2	11.7	6.8	379	1.0	241.5	30.6	42.6



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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	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 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	ppm 0.1
J2-243	Soil	25.0	3.98	0.85	3.18	0.52	2.99	0.68	1.91	0.30	1.70	0.29	1.7	12.3	19.6	99	22.5	11.1	0.5	0.6	0.2
J2-242	Soil	31.1	5.60	1.22	4.83	0.75	4.24	0.84	2.35	0.34	2.13	0.33	3.1	31.3	27.6	133	39.8	19.7	1.6	1.9	0.1
J2-257	Soil	17.4	2.76	0.49	2.07	0.35	2.12	0.40	1.30	0.20	1.38	0.23	1.2	5.4	8.7	49	7.6	7.1	0.1	0.6	0.1
J2-246	Soil	25.4	4.08	0.75	3.08	0.50	3.18	0.62	1.86	0.31	2.05	0.31	1.2	4.9	11.5	68	12.5	4.5	0.4	0.2	0.2
J2-247	Soil	26.6	4.25	0.97	3.83	0.59	3.34	0.71	2.03	0.32	2.01	0.28	0.7	16.0	14.1	51	20.3	10.7	0.2	0.4	0.2
J2-245	Soil	27.6	4.66	0.94	3.83	0.58	3.18	0.65	1.90	0.28	1.80	0.25	1.7	12.3	16.3	68	21.8	10.7	0.5	0.6	0.1
J2-253	Soil	22.5	3.71	0.75	2.79	0.47	2.66	0.58	1.59	0.26	1.80	0.26	1.7	13.7	18.5	79	18.9	11.2	0.3	0.5	0.2
J2-248	Soil	23.6	4.46	0.94	3.75	0.60	3.46	0.66	1.80	0.27	1.71	0.26	1.0	10.9	22.7	83	17.9	9.6	0.8	0.3	0.2
J2-249	Soil	27.0	3.99	0.76	3.42	0.53	3.14	0.70	2.14	0.34	1.86	0.32	0.9	5.3	10.7	79	11.5	5.1	0.4	0.2	0.2
J2-250	Soil	24.3	3.84	0.73	3.12	0.48	2.71	0.63	1.63	0.25	1.61	0.27	0.8	5.0	9.1	65	8.8	4.4	0.8	0.2	0.2
J2-251	Soil	22.6	3.18	0.60	2.47	0.39	2.42	0.52	1.64	0.23	1.49	0.26	1.2	8.6	9.3	43	8.0	5.3	0.1	0.5	0.1
J2-252	Soil	19.1	2.93	0.54	1.94	0.35	1.89	0.43	1.27	0.22	1.43	0.21	1.3	12.5	11.0	78	13.1	7.6	0.3	0.4	0.1
J2-256	Soil	29.2	4.29	0.72	3.31	0.50	3.23	0.61	1.88	0.31	2.04	0.30	1.5	6.2	13.2	50	9.4	7.4	0.1	0.4	0.3
J2-254	Soil	24.5	4.54	1.27	3.89	0.62	3.01	0.62	1.51	0.23	1.31	0.21	0.4	11.8	6.8	44	9.2	4.2	0.2	0.3	0.1
BCQ-0309	Soil	26.7	5.45	1.20	4.39	0.66	3.87	0.67	1.93	0.32	1.88	0.31	1.3	12.8	21.3	71	23.0	8.6	0.1	0.2	0.3
BCQ-0298	Soil	18.7	3.06	0.60	2.65	0.37	2.08	0.45	1.36	0.19	1.33	0.18	0.1	6.2	7.4	33	11.5	2.3	0.1	0.2	0.1
BCQ-0299	Soil	18.0	3.34	0.80	2.81	0.44	2.38	0.45	1.36	0.23	1.34	0.20	0.7	9.0	12.1	45	17.6	7.8	0.1	0.3	0.2
BCQ-0301	Soil	35.6	6.71	1.49	5.67	0.88	5.48	0.88	2.57	0.37	2.34	0.37	1.5	16.1	21.5	64	31.1	17.5	0.1	0.2	0.4
BCQ-0303	Soil	28.9	4.90	0.86	3.44	0.55	3.47	0.72	2.09	0.31	2.21	0.31	1.0	4.5	16.4	69	10.3	3.5	0.1	<0.1	0.4
BCQ-0312	Soil	25.3	4.80	1.04	4.08	0.63	3.60	0.73	2.11	0.32	2.08	0.32	0.7	13.6	16.8	69	17.4	6.3	0.2	0.1	0.3
BCQ-0317	Soil	26.8	4.45	0.94	3.86	0.56	3.08	0.60	1.91	0.30	1.99	0.33	2.8	13.8	73.3	152	14.6	19.7	0.3	0.3	0.7
BCQ-0319	Soil	29.1	4.63	0.99	3.64	0.55	3.06	0.62	1.79	0.30	1.83	0.28	2.6	16.0	50.9	99	10.0	12.5	0.2	0.2	0.6
BCQ-0330	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.
BCQ-0320	Soil	36.0	6.79	1.88	6.57	1.00	5.38	1.05	3.14	0.43	2.60	0.41	1.3	37.5	36.6	91	35.0	13.1	0.2	0.2	0.3
BCQ-0321	Soil	28.6	4.99	1.14	4.18	0.67	3.74	0.71	2.25	0.33	2.11	0.32	5.6	25.8	86.2	178	19.3	35.1	0.4	0.5	0.7
BCQ-0322	Soil	31.4	5.27	1.22	4.65	0.70	3.77	0.76	2.33	0.35	2.26	0.35	4.2	25.6	71.0	152	18.7	27.5	0.7	0.4	0.5
BCQ-0314	Soil	23.5	4.39	0.97	3.62	0.56	3.25	0.61	1.77	0.28	1.91	0.29	0.9	11.0	15.0	83	14.1	5.4	<0.1	0.2	0.2
BCQ-0316	Soil	27.2	4.15	0.81	3.41	0.54	3.37	0.62	1.91	0.31	2.14	0.31	3.4	7.4	36.4	49	6.1	14.9	0.1	0.3	0.5
AAB-0439	Soil	28.2	4.71	1.01	4.28	0.68	3.63	0.79	2.29	0.37	2.36	0.35	2.4	17.2	48.7	87	22.4	12.0	0.8	1.2	0.1
AAB-0448	Soil	32.9	5.77	1.13	5.14	0.81	4.59	0.93	2.91	0.41	2.62	0.41	15.3	23.9	15.0	266	46.4	17.2	1.2	1.4	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
J2-243	Soil	<0.1	<0.5	0.03	0.3	<0.5
J2-242	Soil	0.2	3.4	0.08	1.0	0.8
J2-257	Soil	<0.1	<0.5	0.02	0.1	<0.5
J2-246	Soil	<0.1	<0.5	0.03	0.2	<0.5
J2-247	Soil	<0.1	<0.5	0.02	0.2	<0.5
J2-245	Soil	<0.1	<0.5	0.02	0.3	<0.5
J2-253	Soil	<0.1	<0.5	0.02	0.2	<0.5
J2-248	Soil	<0.1	13.8	0.02	0.1	<0.5
J2-249	Soil	<0.1	<0.5	0.01	0.1	<0.5
J2-250	Soil	<0.1	<0.5	0.05	<0.1	<0.5
J2-251	Soil	<0.1	<0.5	0.01	0.1	<0.5
J2-252	Soil	<0.1	<0.5	0.02	0.2	<0.5
J2-256	Soil	<0.1	<0.5	0.01	0.1	<0.5
J2-254	Soil	<0.1	<0.5	<0.01	0.1	<0.5
BCQ-0309	Soil	<0.1	<0.5	0.04	0.2	0.7
BCQ-0298	Soil	<0.1	<0.5	0.02	<0.1	<0.5
BCQ-0299	Soil	<0.1	<0.5	0.02	0.2	0.6
BCQ-0301	Soil	0.2	1.0	0.03	0.3	<0.5
BCQ-0303	Soil	<0.1	<0.5	0.02	0.2	<0.5
BCQ-0312	Soil	0.1	<0.5	0.04	0.1	<0.5
BCQ-0317	Soil	0.2	2.0	0.02	0.2	<0.5
BCQ-0319	Soil	0.3	<0.5	0.04	0.2	<0.5
BCQ-0330	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
BCQ-0320	Soil	0.2	0.8	0.03	0.3	<0.5
BCQ-0321	Soil	0.4	4.9	0.03	0.6	<0.5
BCQ-0322	Soil	0.2	0.9	0.04	0.5	0.7
BCQ-0314	Soil	0.1	<0.5	0.03	<0.1	<0.5
BCQ-0316	Soil	0.1	<0.5	0.02	0.2	<0.5
AAB-0439	Soil	0.1	<0.5	0.03	0.1	<0.5
AAB-0448	Soil	0.1	<0.5	0.04	0.4	4.5



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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
AAB-0441	Soil	3292	5	6.4	2.3	10.0	10.7	23.3	60.2	2	60.4	1.4	9.3	3.6	169	1.3	437.6	22.0	40.9
AAB-0443	Soil	5885	2	7.0	2.7	10.0	7.9	14.4	61.0	2	72.0	1.0	9.2	4.5	275	0.9	298.4	27.5	42.6
AAB-0438	Soil	7831	2	7.3	2.7	10.1	9.0	15.5	63.4	2	65.3	1.1	9.8	5.3	284	0.9	354.3	32.9	38.1
AAB-0447	Soil	3731	<1	5.7	4.6	14.7	6.9	15.4	82.5	2	102.1	1.1	10.3	4.2	270	1.5	286.8	23.0	37.9
AAB-0444	Soil	4541	<1	4.5	2.8	11.2	7.0	16.0	61.0	2	52.5	1.0	8.6	5.4	336	1.2	274.6	27.9	35.4
AAB-0450	Soil	7145	<1	9.3	3.2	10.6	5.3	11.7	66.8	2	77.6	0.8	8.6	5.7	313	0.9	222.3	33.9	34.1
AAB-0464	Soil	1887	1	10.6	3.3	10.0	7.4	20.6	67.2	1	54.4	1.2	9.2	5.7	480	0.9	310.7	32.6	37.7
AAB-0465	Soil	1191	<1	10.3	3.8	11.1	7.2	17.9	74.0	2	98.4	1.0	10.3	3.4	158	1.0	292.9	25.2	37.7
AAB-0463	Soil	1275	2	11.8	3.5	12.1	7.1	18.2	79.4	3	97.9	1.3	12.0	4.3	218	1.2	306.1	31.8	43.6
AAB-0462	Soil	1062	2	10.7	3.9	12.7	6.2	19.6	82.8	2	83.1	1.2	11.3	3.3	146	1.1	271.9	25.0	40.5
AAB-0461	Soil	1264	<1	9.1	3.6	10.7	6.7	18.5	77.0	2	69.3	1.1	11.2	3.6	198	1.1	278.3	29.6	41.4
AAB-0460	Soil	1226	1	13.7	6.2	13.8	6.2	23.8	88.6	2	76.1	1.5	11.5	4.2	206	1.2	271.6	30.6	40.7
AAB-0459	Soil	1376	<1	13.0	6.3	12.5	5.6	22.8	84.7	2	71.2	1.4	11.4	3.7	219	0.9	232.1	27.9	39.0
AAB-0458	Soil	1326	<1	12.1	5.4	11.5	5.9	22.7	80.4	1	65.8	1.4	10.0	3.5	215	8.8	254.6	29.5	37.8
AAB-0457	Soil	1002	2	10.0	5.2	14.2	6.6	26.3	95.3	2	78.8	1.5	12.5	3.3	130	0.8	272.6	26.8	45.5
AAB-0455	Soil	2050	<1	12.5	5.3	13.1	5.8	21.7	92.6	2	70.6	1.4	10.6	3.4	208	1.2	239.2	27.0	39.3
AAB-0454	Soil	2059	<1	11.3	4.3	12.2	5.7	20.5	84.2	2	68.2	1.3	10.6	3.5	168	0.9	237.4	24.1	37.0
AAB-0452	Soil	611	<1	5.4	2.5	8.7	3.8	12.5	45.0	1	79.7	0.8	6.9	2.0	97	0.7	150.7	14.5	23.3
AAB-0451	Soil	971	1	7.3	3.9	14.6	7.0	19.6	88.8	3	84.2	1.2	12.3	3.6	169	1.7	310.4	21.5	42.2



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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	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
AAB-0441	Soil	38.1	6.59	1.21	4.42	0.59	3.28	0.64	2.04	0.35	2.26	0.37	4.2	16.9	19.0	116	29.5	15.5	0.9	0.6
AAB-0443	Soil	35.0	5.42	1.09	4.57	0.73	4.03	0.87	2.62	0.41	2.46	0.38	7.0	27.0	16.1	158	32.1	16.0	1.5	1.2
AAB-0438	Soil	29.6	5.56	1.19	5.14	0.84	4.70	0.98	2.99	0.45	2.78	0.47	6.7	27.9	14.3	206	37.3	14.7	1.7	1.4
AAB-0447	Soil	28.7	4.95	0.90	3.97	0.63	3.52	0.78	2.14	0.36	2.05	0.35	6.5	15.1	13.3	158	23.9	11.6	1.4	0.4
AAB-0444	Soil	29.1	4.80	0.93	4.11	0.68	4.16	0.85	2.52	0.39	2.39	0.40	8.2	22.6	13.9	135	26.1	14.7	0.6	0.9
AAB-0450	Soil	28.7	5.40	1.20	5.02	0.79	4.62	1.02	2.91	0.43	2.80	0.44	7.8	29.3	12.9	156	32.4	13.2	2.0	1.8
AAB-0464	Soil	29.5	5.50	1.15	4.85	0.76	4.68	0.93	2.89	0.46	2.68	0.44	16.2	34.1	20.6	454	76.3	22.4	5.6	2.9
AAB-0465	Soil	30.1	5.19	1.03	4.34	0.69	4.12	0.78	2.38	0.34	2.30	0.34	2.0	19.2	20.6	178	27.9	12.5	4.2	0.6
AAB-0463	Soil	38.5	6.61	1.29	5.50	0.88	4.93	1.00	2.89	0.45	2.82	0.42	6.0	20.4	21.8	228	41.7	17.3	3.2	1.0
AAB-0462	Soil	30.2	5.36	1.11	4.51	0.69	4.07	0.77	2.28	0.36	2.20	0.34	2.2	14.1	36.5	303	33.0	14.2	6.3	0.6
AAB-0461	Soil	33.7	6.08	1.26	5.44	0.85	4.69	0.90	2.65	0.42	2.91	0.39	4.7	19.3	26.0	318	54.4	18.7	3.2	1.0
AAB-0460	Soil	32.8	5.84	1.17	5.21	0.81	4.71	0.92	2.79	0.43	2.83	0.43	4.0	29.2	40.6	332	58.6	25.8	4.0	1.0
AAB-0459	Soil	29.8	5.23	1.12	4.56	0.75	4.48	0.88	2.52	0.38	2.57	0.39	4.1	27.3	30.0	352	55.7	23.8	3.1	1.3
AAB-0458	Soil	29.3	5.20	1.14	4.66	0.74	4.20	0.91	2.82	0.40	2.44	0.40	4.0	29.7	27.0	328	58.8	20.1	2.6	1.2
AAB-0457	Soil	34.3	5.87	1.20	5.01	0.79	4.31	0.87	2.70	0.39	2.39	0.38	1.8	16.6	20.7	155	29.4	15.5	1.4	0.6
AAB-0455	Soil	30.1	5.28	1.03	4.57	0.73	3.81	0.82	2.64	0.37	2.52	0.37	3.4	27.5	22.4	340	56.0	35.2	3.6	1.7
AAB-0454	Soil	28.2	5.06	1.01	4.32	0.68	3.93	0.79	2.27	0.34	2.25	0.34	3.1	20.3	23.8	276	44.6	30.3	3.6	1.0
AAB-0452	Soil	18.4	3.08	0.63	2.78	0.43	2.37	0.44	1.34	0.21	1.38	0.22	1.6	6.4	12.0	158	16.1	7.2	1.9	0.5
AAB-0451	Soil	30.5	4.98	0.89	3.79	0.62	3.66	0.71	2.24	0.35	2.05	0.34	4.2	8.1	17.3	225	23.4	12.4	1.0	0.3



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CERTIFICATE OF ANALYSIS

VAN11004233.1

	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
AAB-0441	Soil	0.2	<0.5	0.02	0.1	1.8
AAB-0443	Soil	0.3	0.9	0.04	0.1	2.9
AAB-0438	Soil	0.4	<0.5	0.07	0.2	3.7
AAB-0447	Soil	0.5	<0.5	0.03	0.3	0.8
AAB-0444	Soil	0.3	<0.5	0.03	0.2	5.4
AAB-0450	Soil	0.7	0.8	0.12	0.1	3.7
AAB-0464	Soil	1.0	<0.5	0.12	0.8	3.1
AAB-0465	Soil	0.2	0.5	0.05	0.2	0.7
AAB-0463	Soil	0.4	<0.5	0.05	0.3	1.3
AAB-0462	Soil	0.5	<0.5	0.05	0.2	0.5
AAB-0461	Soil	0.4	0.6	0.06	0.3	1.2
AAB-0460	Soil	0.3	<0.5	0.11	0.5	0.8
AAB-0459	Soil	0.3	1.2	0.12	0.6	0.9
AAB-0458	Soil	0.3	2.2	0.11	0.6	0.8
AAB-0457	Soil	0.2	<0.5	0.07	0.2	0.6
AAB-0455	Soil	0.3	1.0	0.28	1.9	0.8
AAB-0454	Soil	0.2	<0.5	0.12	1.3	0.8
AAB-0452	Soil	<0.1	<0.5	0.04	0.2	<0.5
AAB-0451	Soil	0.3	<0.5	0.02	0.2	0.8



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Part 1

QUALITY CONTROL REPORT

VAN11004233.1

	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																				
BCQ-0287	Soil	2054	<1	2.6	4.9	12.8	8.1	18.7	94.9	3	93.7	1.2	10.4	3.9	219	1.7	291.6	23.7	40.2	73.2
REP BCQ-0287	QC																			
BCQ-0293	Soil	1164	1	2.4	3.0	10.7	9.0	13.4	57.0	2	71.3	1.0	7.5	3.7	213	1.2	308.4	18.8	33.3	60.6
REP BCQ-0293	QC	1172	<1	2.4	3.0	10.4	9.1	13.8	56.9	2	69.9	1.0	7.9	3.7	215	1.2	322.3	20.0	30.8	56.6
WJH-047	Soil	1305	2	9.9	3.4	9.8	7.3	19.3	67.1	2	57.5	1.3	9.4	5.1	399	1.1	265.2	33.9	39.6	73.5
REP WJH-047	QC																			
WJH-061	Soil	2532	2	9.5	3.4	10.2	7.5	18.6	72.0	2	60.1	1.2	10.0	6.0	538	1.4	281.5	41.0	42.0	77.1
REP WJH-061	QC	2481	2	9.5	3.4	10.5	7.5	18.5	72.2	1	59.8	1.2	9.8	6.1	543	1.4	284.3	40.1	41.9	74.7
J2-240	Soil	573	<1	3.8	3.3	12.2	10.2	18.7	69.0	3	104.6	1.3	11.8	3.7	120	1.6	361.2	21.4	37.4	71.2
REP J2-240	QC	580	3	5.4	3.3	12.3	9.5	17.4	67.1	2	103.0	1.3	11.7	3.6	119	1.7	356.9	21.8	38.1	71.9
J2-250	Soil	659	<1	5.5	3.1	10.6	6.8	14.5	86.8	1	83.1	1.1	9.5	2.3	85	0.9	246.4	16.1	28.5	56.7
REP J2-250	QC																			
AAB-0444	Soil	4541	<1	4.5	2.8	11.2	7.0	16.0	61.0	2	52.5	1.0	8.6	5.4	336	1.2	274.6	27.9	35.4	65.0
REP AAB-0444	QC																			
AAB-0455	Soil	2050	<1	12.5	5.3	13.1	5.8	21.7	92.6	2	70.6	1.4	10.6	3.4	208	1.2	239.2	27.0	39.3	74.0
REP AAB-0455	QC	2240	<1	12.0	5.6	13.1	5.9	22.4	90.6	2	70.8	1.4	10.9	3.5	208	0.9	236.1	26.8	39.2	72.7
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																			
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STD OREAS45CA	Standard																			



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Part 2

QUALITY CONTROL REPORT

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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	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																				
BCQ-0287	Soil	30.9	5.24	0.94	4.23	0.70	4.00	0.83	2.56	0.39	2.52	0.39	5.7	7.8	13.5	38	7.4	8.2	0.1	0.5
REP BCQ-0287	QC												5.7	8.0	13.6	36	7.7	8.4	0.2	0.7
BCQ-0293	Soil	25.5	4.28	0.70	3.11	0.53	3.09	0.65	1.95	0.30	1.97	0.31	11.9	11.0	11.0	29	7.2	11.6	<0.1	0.6
REP BCQ-0293	QC	23.6	4.08	0.72	3.30	0.54	3.13	0.67	2.04	0.31	2.04	0.33								
WJH-047	Soil	34.1	6.26	1.32	5.43	0.88	5.06	1.07	3.15	0.46	2.89	0.45	12.8	27.1	23.9	419	63.3	21.2	7.3	4.6
REP WJH-047	QC												12.9	27.1	24.5	419	64.9	21.8	7.0	4.4
WJH-061	Soil	37.5	6.78	1.39	6.19	0.98	6.03	1.24	3.54	0.51	3.21	0.53	16.1	43.3	24.6	603	99.6	22.5	10.3	5.9
REP WJH-061	QC	36.0	6.55	1.33	6.03	0.95	5.61	1.19	3.38	0.51	3.20	0.52								
J2-240	Soil	31.0	4.95	0.88	3.83	0.64	3.77	0.86	2.44	0.39	2.73	0.38	1.7	6.5	10.7	33	8.2	6.5	0.1	0.2
REP J2-240	QC	31.4	5.07	0.81	3.68	0.61	3.53	0.80	2.57	0.37	2.23	0.40								
J2-250	Soil	24.3	3.84	0.73	3.12	0.48	2.71	0.63	1.63	0.25	1.61	0.27	0.8	5.0	9.1	65	8.8	4.4	0.8	0.2
REP J2-250	QC												0.7	4.8	8.3	58	8.2	4.0	0.6	0.2
AAB-0444	Soil	29.1	4.80	0.93	4.11	0.68	4.16	0.85	2.52	0.39	2.39	0.40	8.2	22.6	13.9	135	26.1	14.7	0.6	0.9
REP AAB-0444	QC												8.5	22.4	14.0	135	26.1	14.9	0.8	0.9
AAB-0455	Soil	30.1	5.28	1.03	4.57	0.73	3.81	0.82	2.64	0.37	2.52	0.37	3.4	27.5	22.4	340	56.0	35.2	3.6	1.7
REP AAB-0455	QC	31.0	4.87	1.08	4.61	0.72	3.94	0.82	2.40	0.38	2.42	0.35								
Reference Materials																				
STD DS8	Standard												14.4	119.1	128.8	337	40.2	27.2	2.5	3.8
STD DS8	Standard												11.1	103.4	112.4	292	36.5	22.8	2.3	4.6
STD DS8	Standard												14.1	111.6	115.2	294	38.7	24.3	2.2	4.5
STD DS8	Standard												11.4	109.8	129.0	315	38.1	27.8	2.5	4.7
STD DS8	Standard												12.6	111.1	128.7	312	39.5	25.8	2.5	5.0
STD DS8	Standard												13.6	110.5	122.2	309	38.0	25.1	2.2	3.6
STD OREAS45CA	Standard												0.7	522.1	20.9	63	246.8	3.2	<0.1	<0.1
STD OREAS45CA	Standard												0.8	477.6	18.8	61	240.6	3.9	<0.1	0.1
STD OREAS45CA	Standard												1.1	520.8	22.6	63	255.6	3.9	<0.1	0.1
STD OREAS45CA	Standard												0.9	465.7	21.6	58	211.3	4.3	0.1	0.1
STD OREAS45CA	Standard												0.8	539.6	21.9	70	268.1	3.9	<0.1	<0.1



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QUALITY CONTROL REPORT

VAN11004233.1

	Method Analyte	Unit	1DX	1DX	1DX	1DX	1DX
			Ag	Au	Hg	Tl	Se
			ppm	ppb	ppm	ppm	ppm
			MDL	MDL	MDL	MDL	MDL
Pulp Duplicates							
BCQ-0287	Soil		0.3	1.3	0.03	0.2	1.7
REP BCQ-0287	QC		0.3	0.7	0.04	0.3	1.9
BCQ-0293	Soil		0.4	2.1	0.05	0.2	2.1
REP BCQ-0293	QC						
WJH-047	Soil		0.5	<0.5	0.07	0.5	2.9
REP WJH-047	QC		0.5	1.0	0.08	0.5	2.3
WJH-061	Soil		1.8	0.6	0.17	0.9	4.1
REP WJH-061	QC						
J2-240	Soil		<0.1	<0.5	0.03	0.1	0.6
REP J2-240	QC						
J2-250	Soil		<0.1	<0.5	0.05	<0.1	<0.5
REP J2-250	QC		<0.1	<0.5	0.02	<0.1	<0.5
AAB-0444	Soil		0.3	<0.5	0.03	0.2	5.4
REP AAB-0444	QC		0.3	<0.5	0.03	0.2	4.0
AAB-0455	Soil		0.3	1.0	0.28	1.9	0.8
REP AAB-0455	QC						
Reference Materials							
STD DS8	Standard		2.1	105.1	0.23	5.8	5.2
STD DS8	Standard		1.5	94.8	0.19	5.1	4.5
STD DS8	Standard		1.8	87.1	0.17	4.9	4.4
STD DS8	Standard		1.9	105.6	0.22	6.1	5.0
STD DS8	Standard		2.2	110.2	0.21	5.4	4.7
STD DS8	Standard		1.6	103.0	0.20	5.5	5.4
STD OREAS45CA	Standard		0.3	42.7	0.04	<0.1	0.8
STD OREAS45CA	Standard		0.3	44.0	0.03	<0.1	0.6
STD OREAS45CA	Standard		0.3	42.3	0.03	<0.1	<0.5
STD OREAS45CA	Standard		0.3	41.8	0.02	<0.1	<0.5
STD OREAS45CA	Standard		0.3	40.7	0.03	<0.1	0.6



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Part 1

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	501	3	26.5	6.6	16.4	9.5	20.0	26.0	15	403.3	7.1	10.9	16.0	208	11.9	276.4	30.0	11.4	25.9	3.14
STD SO-18	Standard	508	<1	26.8	6.8	17.1	8.5	19.3	26.6	14	398.2	7.0	10.0	15.5	202	13.9	276.6	28.7	11.4	25.6	3.14
STD SO-18	Standard	522	1	25.7	7.2	16.8	9.4	20.7	27.1	17	395.4	7.2	10.4	16.2	211	14.0	277.0	29.2	12.6	25.8	3.32
STD SO-18	Standard	495	2	25.6	6.9	16.2	9.0	19.3	27.4	15	405.8	6.7	9.5	15.3	199	13.4	280.6	30.6	12.5	26.2	3.29
STD SO-18	Standard	474	2	25.6	6.5	16.2	10.0	19.0	26.2	14	397.0	6.5	9.4	14.6	194	13.2	272.7	29.9	11.7	25.8	3.17
STD SO-18	Standard	535	2	27.2	6.8	16.9	9.7	20.1	27.8	15	403.9	7.0	9.9	16.1	219	13.7	286.1	30.4	12.4	27.1	3.43
STD SO-18	Standard	527	1	27.1	6.9	16.9	9.7	20.5	27.7	15	416.8	6.9	9.9	16.3	214	14.5	284.0	31.2	12.2	26.4	3.37
STD SO-18	Standard	533	<1	27.4	7.1	17.4	9.5	20.6	28.2	15	421.4	7.0	9.6	16.1	213	14.2	288.1	30.3	12.2	26.3	3.34
STD SO-18	Standard	535	<1	27.7	7.0	17.4	10.0	21.8	28.1	15	411.5	7.1	9.9	16.3	217	14.2	291.4	31.7	12.6	27.1	3.40
STD SO-18	Standard	519	2	27.2	7.1	17.2	8.4	20.4	27.6	15	419.8	7.2	10.0	16.8	197	13.1	282.4	30.8	12.2	26.5	3.28
STD SO-18	Standard	538	1	27.5	7.2	17.6	9.1	20.9	28.4	16	429.1	7.1	10.0	16.8	204	13.5	290.8	31.2	12.7	27.8	3.40
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																				
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																				
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
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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Part 2

QUALITY CONTROL REPORT

VAN11004233.1

		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	522.8	19.9	62	264.3	3.8	0.1
STD SO-18	Standard	13.5	2.78	0.86	2.92	0.47	2.90	0.58	1.69	0.27	1.72	0.27							
STD SO-18	Standard	13.5	2.66	0.83	2.67	0.47	2.77	0.57	1.72	0.27	1.72	0.26							
STD SO-18	Standard	14.3	2.98	0.87	2.96	0.49	2.88	0.64	1.81	0.28	1.90	0.30							
STD SO-18	Standard	13.8	2.79	0.83	2.90	0.49	2.91	0.60	1.87	0.26	1.75	0.26							
STD SO-18	Standard	12.9	2.69	0.81	2.74	0.48	2.84	0.60	1.68	0.26	1.72	0.26							
STD SO-18	Standard	13.4	2.88	0.85	2.91	0.51	2.99	0.63	1.87	0.29	1.87	0.28							
STD SO-18	Standard	13.6	2.80	0.85	2.85	0.50	2.88	0.63	1.85	0.27	1.81	0.28							
STD SO-18	Standard	13.3	2.78	0.87	2.85	0.50	2.89	0.66	1.79	0.27	1.81	0.26							
STD SO-18	Standard	13.8	2.87	0.86	2.94	0.50	2.97	0.66	1.93	0.28	1.77	0.28							
STD SO-18	Standard	12.9	2.94	0.83	2.83	0.49	2.94	0.64	1.84	0.27	1.87	0.27							
STD SO-18	Standard	13.8	3.03	0.87	2.99	0.50	3.05	0.64	1.80	0.27	1.82	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
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												<0.1	<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												<0.1	<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							
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: November 22, 2011

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QUALITY CONTROL REPORT

VAN11004233.1

		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	40.6	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 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	<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	<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					
BLK	Blank					
BLK	Blank					