

TILL GEOCHEMISTRY OF EASTERN POND AND MIGUELS LAKE (NTS MAP AREAS 2D/11, 12), JEDDORE LAKE (NTS MAP AREAS 1M/13, 2D/04 AND 12A/01) AND SURROUNDING AREAS



D. Brushett and S.D. Amor

Open File NFLD/3273

**St. John's
Newfoundland and Labrador
May, 2016**

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CONTENTS

	Page
ABSTRACT	iv
INTRODUCTION	1
REGIONAL GEOLOGY	1
MINERAL OCCURRENCES	1
SURFICIAL GEOLOGY	5
REGIONAL SURFICIAL SEDIMENT SAMPLING	6
SAMPLING AND SAMPLE PREPARATION METHODS	6
ANALYSIS	8
QUALITY ASSURANCE	8
ACCURACY	9
FIELD AND ANALYTICAL VARIABILITY	11
DISPLAY OF GEOCHEMICAL DATA	11
RESULTS OF PROCESSING BULK TILL SAMPLES	12
CHROMITE	12
GOLD	16
MAGNETIC COMPONENT	17
PIGEONITE	17
STAUROLITE	20
CONCLUSIONS	20
ACKNOWLEDGMENTS	21
REFERENCES	21
APPENDIX A: Thompson-Howarth Precision Plots of Field and Analytical Duplicates	23
APPENDIX B: Field and Analytical Data Listing	38
APPENDIX C1-8: Listing of Results of Heavy-mineral Processing and Examination	90

FIGURES

Figure 1.	Sample locations (NTS map areas 2D/06, 2D/10, 2D/11, 2D/12, 2D/13, 12A/08 (north), 12A/09) with bedrock geology. Cambro-Ordovician: COm: mafic intrusions; COu: ultramafic rocks; COv: submarine mafic to felsic volcanics; COmg: migmatite, gneiss and schist; COs: siliciclastic sediments (Dunnage Zone) COsg: siliciclastic sediments (Gander Zone); COg: granitoid suites; Ordovician: Og: granitoid suites; Ordovician-Silurian: OSs: turbidites; Silurian: Sv: subaerial mafic and felsic volcanics; Ss: siliciclastic sediments; Silurian-Devonian: SDg: granitoid suites; SDm: mafic intrusions	2
Figure 2.	Sample locations (NTS map areas) 2D/04, 1M/11, 1M/12, 1M/13, 11P/09, 11P/16, 12A/08 (south) with bedrock geology. Late Proterozoic to Cambrian: P3Cg: granitoid suites; P3Cm: mafic intrusions; P3vb: subaerial mafic and felsic volcanics; P3sf: siliciclastic sediments; P3Cos: marine siliciclastic sediments; Cambro-Ordovician: Cos: Dunnage Zone siliciclastic sediments; COsg: Gander Zone siliciclastic sediments; COv: submarine mafic to felsic volcanics; COmg: migmatite, gneiss and schist; COu: ultramafic rocks; Com: mafic intrusions; Ordovician: Og: granitoid suites; Silurian to Devonian: SDg: granitoid suites; SDm: mafic intrusions; Devonian to Carboniferous: DCsv: sedimentary and volcanic rocks; DCg: granitoid suites	3
Figure 3.	Bulk till sample locations. <i>See</i> Figures 1 and 2 for explanation of geological codes	4
Figure 4.	Surficial geology	7
Figure 5.	Thompson-Howarth precision plot for field and analytical duplicates of vanadium (ICP-OES analyses): an example of an element whose field variability significantly exceeds its analytical variability	13
Figure 6.	Thompson-Howarth precision plot for field and analytical duplicates of scandium (INAA analyses): an example of an element whose field variability does not significantly exceed its analytical variability	13
Figure 7.	Bar chart summarizing precision of field and analytical duplicates	14
Figure 8.	A) Chromite counts in bulk till samples. Location of Chrome Pond chromite occurrence, and northern and southern contacts of Pipestone Pond ophiolite, are shown as vertical lines; B) Cr1 (INAA) content of -180 μ till samples. Location of Chrome Pond chromite occurrence, and northern and southern contacts of Pipestone Pond ophiolite, are shown as vertical lines. Cr1 median and 97.5-percentile of all Newfoundland tills are shown as continuous and dashed horizontal lines, respectively; C) Cr2 (ICP-OES) content of -180 μ till samples. Location of Chrome Pond chromite occurrence, and northern and southern contacts of Pipestone Pond ophiolite, are shown as vertical lines. Cr2 median and 97.5-percentile of all Newfoundland tills are shown as continuous and dashed horizontal lines, respectively	15
Figure 9.	A) Pristine gold grain counts in bulk till samples. Location of Pipestone Pond gold occurrence, and northern and southern contacts of Pipestone Pond ophiolite, are shown as vertical lines; B) Total gold grain counts in bulk till samples. Location of Pipestone Pond gold occurrence, and northern and southern contacts of Pipestone Pond ophiolite, are shown as vertical lines	16
Figure 10.	Pristine gold grains in till associated with the Pipestone Pond gold occurrence (data from Clarke, 1990). GSNL bulk till sample 7705 lies within the dispersion fan identified by auriferous samples. <i>See</i> Figure 1 for geological legend	18
Figure 11.	Total gold grains in till associated with the Pipestone Pond gold occurrence (data from Clarke, 1990). <i>See</i> Figure 1 for geological legend.	19
Figure 12.	Magnetic content of HMC in bulk till samples. Location of Chrome Pond chromite occurrence is shown as a vertical line	20

TABLES

Table 1.	Samples by NTS map areas	5
Table 2.	Prospects, developed prospects and past producers in the 2013-2014 study area	6
Table 3.	Geochemical variables with analytical method, units, detection limit and number of analyses below the detection limit; one sample was only analyzed for INAA elements and LOI; one sample was only analyzed for LOI	9
Table 4.	Accuracy of ICP-OES analyses; calculated as the arithmetic mean of multiple analyses of each certified reference standard, divided by the recommended value for the standard	10
Table 5.	Accuracy of INAA analyses	11
Table 6.	Overall analytical and field precision	12

ABSTRACT

Analytical results for 779 routine <180 micron till samples from south-central Newfoundland are released, along with the results of heavy-mineral examination of eight bulk till samples.

No interpretation or plotting of the geochemical data have been done. Results of the heavy-mineral examination of the bulk till samples indicate that chromite persists for at least 40 km down-ice from the Chrome Pond occurrence, and that the grain count decreases exponentially with increased distance. One gold-bearing sample was collected within a previously defined dispersion train that is believed to be associated with the Pipestone Pond gold occurrence.

INTRODUCTION

This report accompanies the release of analytical data for 715 <180 μ (minus 80 mesh) till samples (hereafter referred to as *routine* till samples, to distinguish them from the bulk till samples) collected over the Eastern Pond (NTS map area 2D/11) and Miguels Lake (NTS 2D/12) areas, in the north, and St. Alban's, Twillick Brook and Cold Spring Pond (NTS 1M/13, 2D/04 and 12A/01) areas in the south. The two areas are not contiguous (Figures 1 and 2). Analyses are also reported for an additional 64 samples collected over adjacent NTS map areas 1M/11, 12 and 11P/09 and 16 in 2013, and 2D/05, 06, 10, 13, 12A/08 and 09 in 2014. Sampling statistics are shown in Table 1. An interpretation of the surficial and geochemical data will be released at a later date.

The samples were collected during the 2013 and 2014 field seasons as part of an ongoing till-geochemistry and surficial mapping program carried out over the Island of Newfoundland; their locations are shown in Figures 1 and 2. The work was conducted using truck and ATV traverses, as well as helicopter support. The field program also included the determination of the paleo ice-flow history to aid in the subsequent interpretation of geochemical anomalies and the understanding of the regional ice-flow history.

An additional eight bulk till samples, and one rock sample, were collected to investigate the dispersion of chromite from the Chrome Pond chromite occurrence, hosted in the Pipestone Pond ophiolite complex. The samples were collected over a total approximately linear distance of almost 80 km. The samples' locations are shown in Figure 3.

REGIONAL GEOLOGY

Cambro-Ordovician siliciclastic sedimentary rocks of the Dunnage Zone predominate over most of NTS map area 1M/13 and the eastern half of NTS 2D/11 (Geological Survey of Newfoundland and Labrador, 2013). Rocks of similar lithology and age, of the Gander Zone, underlie most of the southern half of NTS 2D/12. The northern half of both map areas is underlain by Silurian siliciclastic sediments and subaerial volcanic rocks of mixed composition, with Cambro-Ordovician submarine mixed volcanic rocks in the northwest corner of NTS 2D/12, and Silurian to Devonian intrusions of granite and gabbro (the latter of the Mount Peyton intrusive suite) in the northwest corner of NTS 2D/11. Granitic rocks of the same age are also present in the southeast corner of NTS 2D/11, and in the west and southeast of NTS 1M/13.

The Pipestone Pond and Coy Pond ophiolite complexes are situated respectively in the southwest corners of NTS map area 2D/12 (whence it extends into NTS 12A/08) and 2D/11 (whence it extends into NTS 2D/05).

MINERAL OCCURRENCES

Of the map areas upon which sampling was concentrated, only St. Alban's (NTS 1M/13) and Eastern Pond (NTS 2D/11) host mineral occurrences with the status of prospect, developed

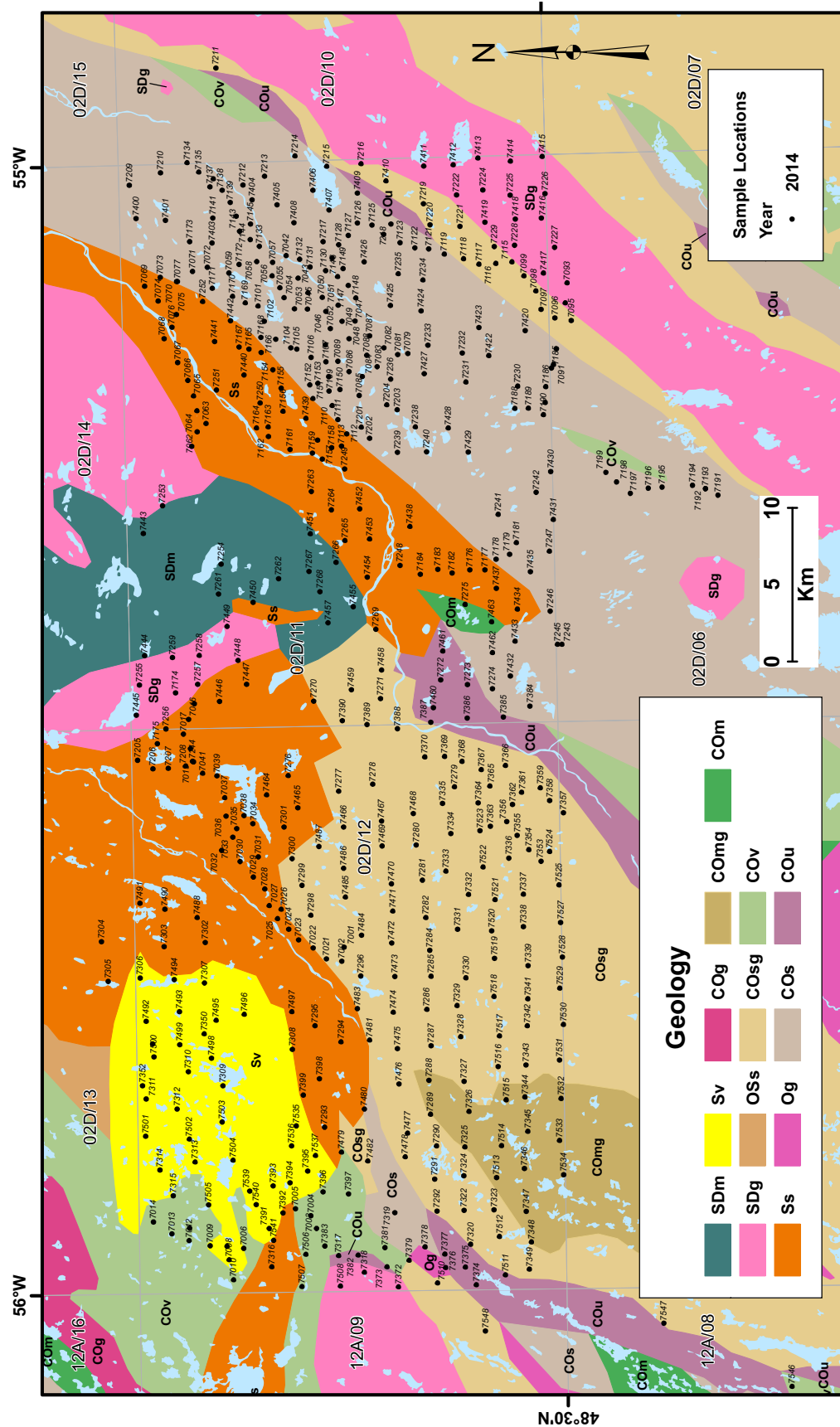


Figure 1. Sample locations (NTS map areas 2D/06, 2D/10, 2D/11, 2D/12, 2D/13, 12A/08 (north), 12A/09) with bedrock geology. Cambro-Ordovician: COm: mafic intrusions; COv: submarine mafic to felsic volcanics; COmg: migmatite, gneiss and schist; COs: siliciclastic sediments (Dunnage Zone) COsg: turbidites; Silurian: Sv: subaerial mafic and felsic intrusions; Ordovician: Og: granitoid suites; COsg: granitoid suites; COv: granitoid suites; COu: mafic intrusions; SDm: mafic intrusions; SDg: granitoid suites; Ss: mafic intrusions.

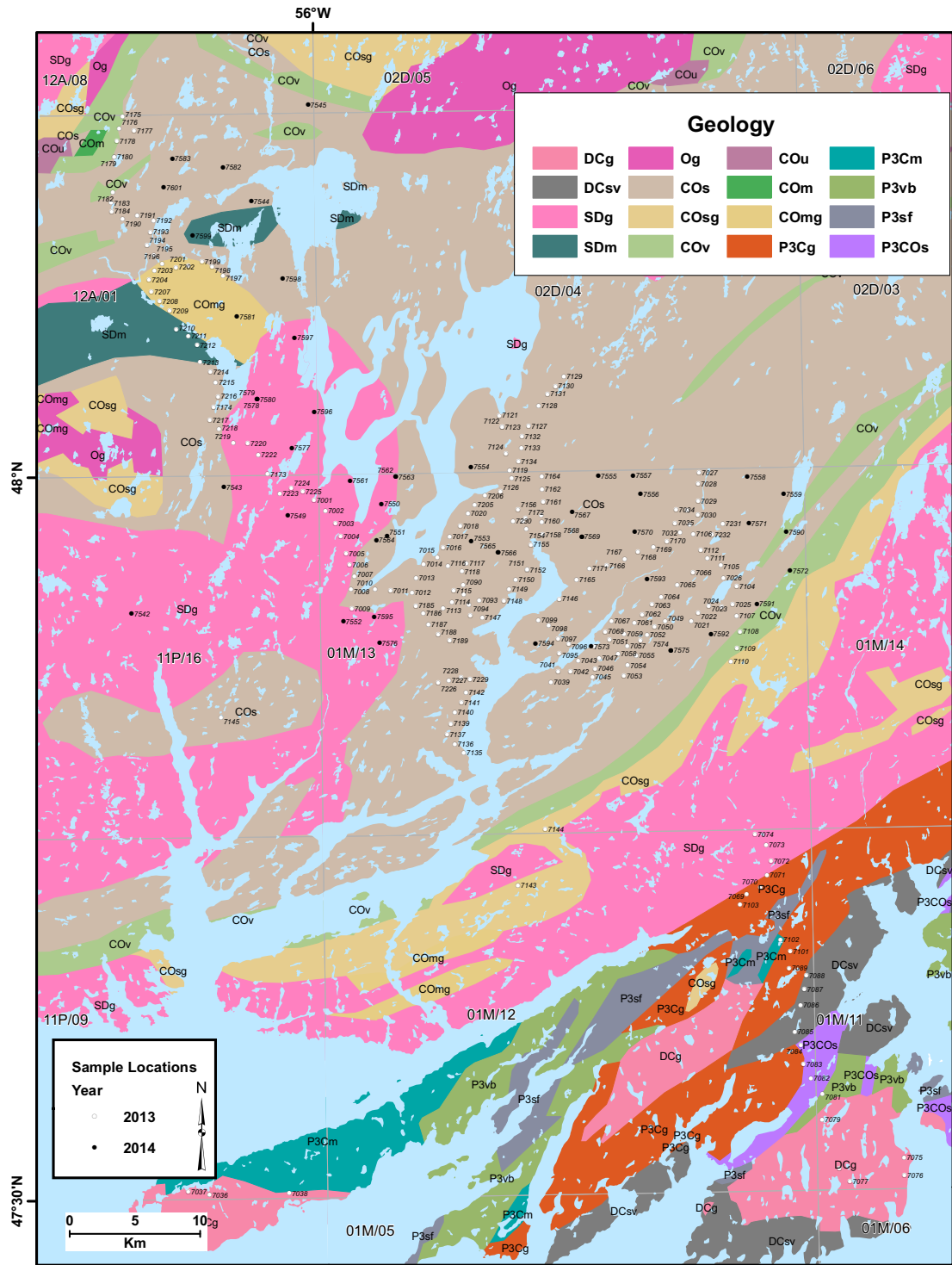


Figure 2. Sample locations (NTS map areas) 2D/04, 1M/11, 1M/12, 1M/13, 11P/09, 11P/16, 12A/08 (south) with bedrock geology. Late Proterozoic to Cambrian: P3Cg: granitoid suites; P3Cm: mafic intrusions; P3vb: subaerial mafic and felsic volcanics; P3sf: siliciclastic sediments; P3COs: marine siliciclastic sediments; Cambro-Ordovician: Cos: Dunnage Zone siliciclastic sediments; COsg: Gander Zone siliciclastic sediments; COv: submarine mafic to felsic volcanics; COmg: migmatite, gneiss and schist; COu: ultramafic rocks; Com: mafic intrusions; Ordovician: Og: granitoid suites; Silurian to Devonian: SDg: granitoid suites; SDm: mafic intrusions; Devonian to Carboniferous: DCsv: sedimentary and volcanic rocks; DCg: granitoid suites.

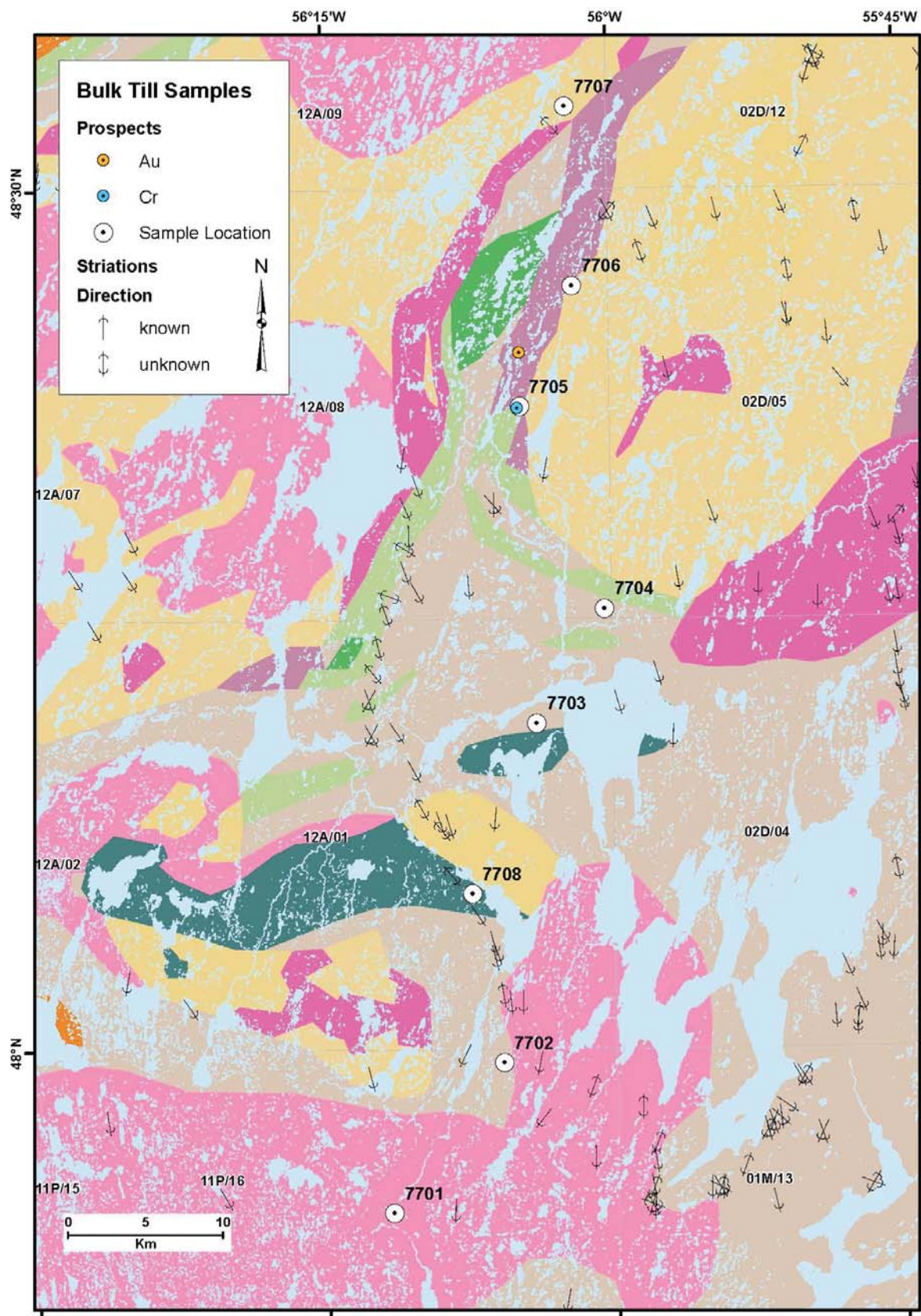


Figure 3. Bulk till sample locations; see Figures 1 and 2 for legend.

Table 1. Samples by NTS map areas

NTS Map Area	Map Sheet Name	Number of Routine Till Sample Sites	Number of Bulk Till Sample Sites
1M/11	Belleoram	6	0
1M/12	Gaultois	17	0
1M/13	St. Alban's	165	0
2D/04	Twillick Brook	14	0
2D/05	Burnt Hill	3	0
2D/06	Great Gull Lake	19	0
2D/10	Dead Wolf Pond	3	0
2D/11	Eastern Pond	262	0
2D/12	Miguels Lake	223	0
2D/13	Grand Falls	2	0
11P/09	Facheux Bay	3	0
11P/16	D'Espoir Brook	7	2
12A/01	Cold Spring Pond	52	2
12A/08	Great Burnt Lake	3	3
12A/09	Noel Paul's Brook	1	1

prospect or producer; these occurrences are listed in Table 2. The dormant Beaver Brook antimony mine lies within the latter map area.

Three routine till samples were collected in NTS map area 12A/08; they accompany bulk till samples from the same sites, which were subjected to heavy-mineral extraction and examination. The sites are collected in the dispersion train originating from the Chrome Pond ophiolite-hosted Cr prospect (MODS number 012A/08/Cr 001; Stapleton *et al.*, 2013), as suggested by the Cr and Ni content of lake sediments (Geological Survey of Newfoundland and Labrador, 2015) and possibly also that originating from the Pipestone Pond gold showing (MODS number 012A/08/Au 003; Stapleton *et al.*, 2013), as reported by Clarke (1990).

SURFICIAL GEOLOGY

This description of surficial geology (Figure 4) is derived from existing data (Liverman and Taylor, 1990) and does not incorporate information acquired during the current program.

Hummocky terrain (ablation drift) predominates over much of NTS map areas 2D/04, 2D/11 and 2D/12, with less extensive occurrence of concealed bedrock, till blanket, bog (particularly on NTS 2D/11) concealed bedrock, till veneer, ridged till and glaciofluvial gravel and sand. South of 47° 50'N, the approximate latitude of St. Alban's, till coverage is sparse or absent. Striation directions are predominantly south-southeastward on NTS 2D/11, 12 and 12A/08; in the northern half of NTS 1M/13, some striations indicate a more southeastward, and rare southwestward, direction (Taylor, 2001).

Table 2. Prospects, developed prospects and past producers in the 2013-2014 study area

Map Sheet No.	MODS No.	Occurrence Name	Status	Commodity
1M/13	Zn 011	Barasway de Cerf #1	Prospect	Zn
1M/13	Zn 010	Barasway de Cerf #2	Prospect	Zn
1M/13	Ag 003	Barasway de Cerf #4	Prospect	Ag
1M/13	Zn 008	Barasway de Cerf #7	Prospect	Zn
1M/13	Au 019	Little River One	Prospect	Au
1M/13	Au 020	Little River Two	Prospect	Au
1M/13	Au 021	Little River Three	Prospect	Au
1M/13	Au 007	Little River No. 5	Prospect	Au
1M/13	Sb 003	Little River Antimony	Prospect	Sb
1M/13	Au 009	22 West	Prospect	Au
1M/13	Au 008	Wolf Pond	Prospect	Au
2D/11	Sb 003	Beaver Brook	Past Producer (Dormant)	Sb
2D/11	Sb 001	Hunan	Developed Prospect	Sb
2D/11	Au 004	Breccia Pond	Prospect	Au
2D/11	Sb 002	Xingchang	Prospect	Sb
2D/11	Au 007	A-Zone Extension	Prospect	Au
2D/11	Au 002	Lizard Pond South	Prospect	Au
2D/11	Mg 008	Great Bend Magnesite	Prospect	Mg
2D/11	Au 001	Chiouk Brook	Prospect	Au
2D/11	Au 006	Aztec	Prospect	Au
2D/11	Au 019	Rolling Pond	Prospect	Au
2D/11	Au 011	Goose	Prospect	Au

REGIONAL SURFICIAL SEDIMENT SAMPLING

SAMPLING AND SAMPLE PREPARATION METHODS

Routine till samples were collected at 779 sites from the B (only two sites), C and BC soil horizons. Most samples were collected from test pits (464 sites; median depth 55 cm), roadcuts (222 sites; median depth 60 cm) and mudboils (26 sites; median depth 60 cm), while the source of 56 samples was unspecified. A few samples were also collected from ditches, quarry walls and river sections. Four sites were sampled in weathered granitic bedrock where there was a lack of surficial sediment to collect. Marine and fluvial or glaciofluvial sediments were avoided during sampling because of the probability of reworking and the difficulty in defining distances and directions of transport. Sample spacing was controlled by access and presence of till, but was generally one sample every 1 km along all primary and secondary roads for vehicle-based sampling, and one sample every 4 km² for helicopter-supported sampling. Field-duplicate samples were collected at 42 sites; an overall frequency of one in 19. The results of the field-duplicate analyses are presented in a later section.

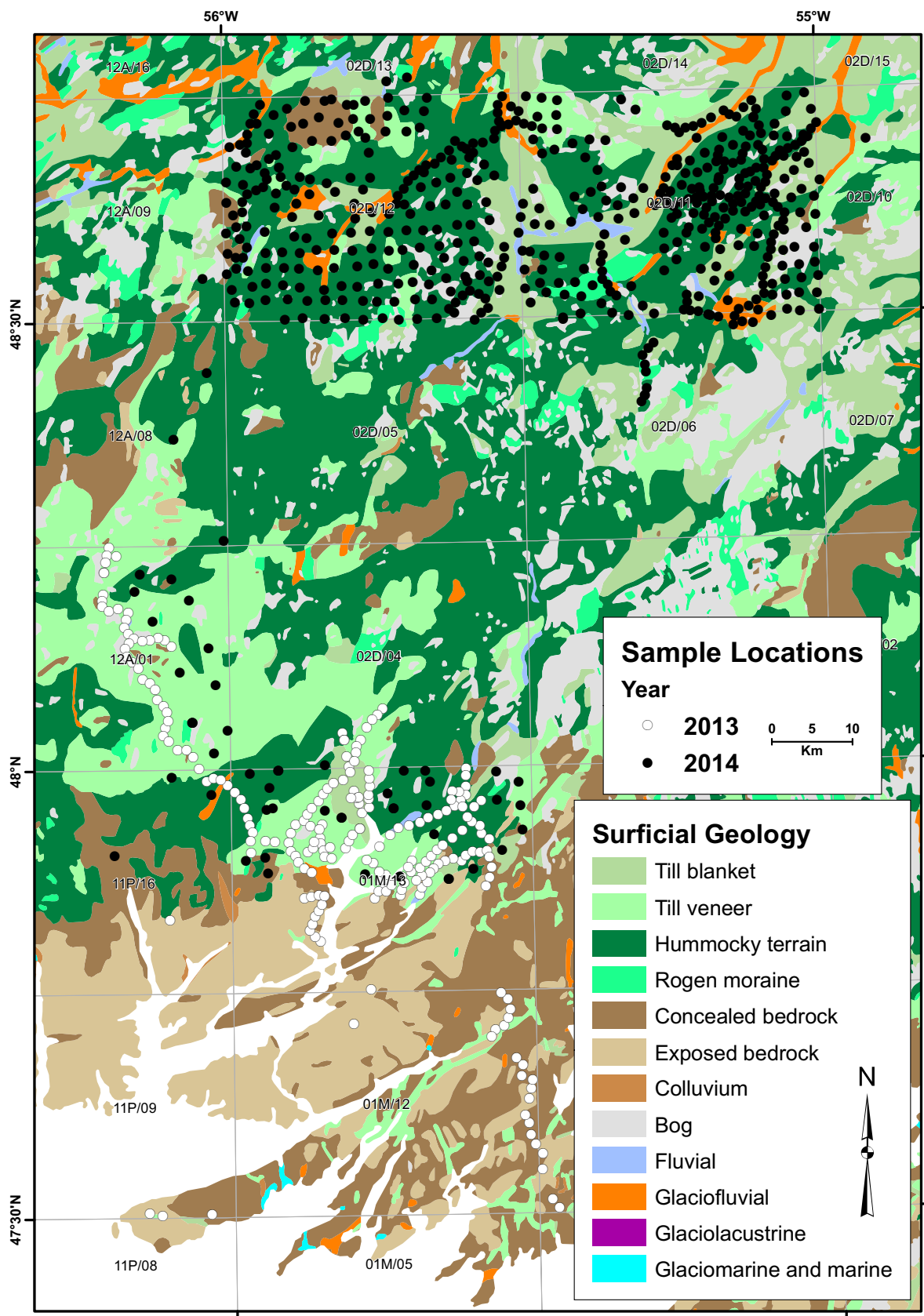


Figure 4. *Surficial geology.*

In the field, samples were placed in Kraft-paper sample bags, and sent to the Geological Survey's Geochemical Laboratory in St. John's, where they were air-dried in ovens at 60°C and dry-sieved to <180 µm (minus 80 mesh) in stainless-steel sieves.

Eight bulk (20 kg) till samples were collected along a traverse line beginning about 5 km north of the Pipestone Pond ophiolite complex, and ending about 50 km south of it, over a total traverse distance of about 78 km. Although these samples' locations are not contiguous with the rest of the samples collected in 2013 and 2014, routine till samples, using different numbers, were also collected at the same sites. The samples were placed in polyethylene bags and shipped to Overburden Drilling Management (ODM) of Nepean, Ontario, for extraction and description of heavy-mineral concentrates (HMC; *see* below).

ANALYSIS

The <180 µm fraction of the samples was subjected to inductively-coupled plasma optical emission spectrometry (ICP-OES) analysis after multi-acid (HF/HCl/HNO₃/HClO₄) digestion at the Geological Survey's Geochemical Laboratory, and induced neutron activation analysis (INAA) at Becquerel Labs in Mississauga, Ontario. Of the 49 elements determined, 12 were determined by both ICP-OES and INAA (As, Ba, Ce, Co, Cr, Fe, La, Mo, Na, Rb, Sc, Zr). Loss-on-ignition (LOI) was determined gravimetrically. A complete list of analytical variables is given in Table 3, and the analytical methods are described in more detail in Appendix A.

The bulk till samples were subjected to heavy-mineral extraction, examination and description by ODM. In addition, a sample of rock from the Chrome Pond occurrence was submitted to ODM for heavy-mineral extraction and description after being subjected to an electrostatic pulse disaggregator (EPD).

Analyses of 779 routine till samples, excluding field duplicates, are presented as part of this report in Appendix B, where the analytical variables are labelled with a combination of the element name, a numeric code denoting the analytical method, and the unit of measurement. The results of the ODM treatment are listed in Appendix C. Both these datasets are available for download in comma-delimited form.

QUALITY ASSURANCE

Quality assurance in the lab consisted of insertion of one certified reference standard (TILL-1, TILL-2, TILL-3 or TILL-4) and one analytical duplicate in every sequence of 20 samples. Standard analyses for both analytical methods, in both 2013 and 2014, and duplicate analyses for INAA in both years, and ICP-OES analyses in 2014, were satisfactory; some seriously divergent duplicate ICP-OES analyses in 2013 necessitated the re-analysis of 76 samples; the re-analyses were satisfactory and have been incorporated into the database that accompanies this Open File report (Appendix B).

Table 3. Geochemical variables with analytical method, units, detection limit and number of analyses below the detection limit; one sample was only analyzed for INAA elements and LOI; one sample was only analyzed for LOI

Element	Method	Units	D.L.	<D.L.	Element	Method	Units	D.L.	<D.L.
Ag	AAS	ppm	0.1	674	Mg	ICP-OES	%	0.01	0
Al	ICP-OES	%	0.01	0	Mn	ICP-OES	ppm	1	0
As	INAA	ppm	0.5	3	Mo	INAA	ppm	1	631
As	ICP-OES	ppm	2	0	Mo	ICP-OES	ppm	1	586
Au	INAA	ppb	1	548	Na	INAA	%	0.1	0
Ba	INAA	ppm	50	2	Na	ICP-OES	%	0.01	0
Ba	ICP-OES	ppm	1	0	Nb	ICP-OES	ppm	1	4
Be	ICP-OES	ppm	0.1	1	Ni	ICP-OES	ppm	1	0
Br	INAA	ppm	1	16	P	ICP-OES	ppm	1	0
Ca	ICP-OES	%	0.01	0	Pb	ICP-OES	ppm	1	7
Cd	ICP-OES	ppm	0.1	418	Rb	INAA	ppm	5	1
Ce	INAA	ppm	3	1	Rb	ICP-OES	ppm	1	0
Ce	ICP-OES	ppm	1	0	Sb	INAA	ppm	0.1	2
Co	INAA	ppm	2	67	Sc	INAA	ppm	0.1	0
Co	ICP-OES	ppm	1	13	Sc	ICP-OES	ppm	0.1	0
Cr	INAA	ppm	10	1	Se	INAA	ppm	1	779
Cr	ICP-OES	ppm	1	0	Sm	INAA	ppm	0.1	0
Cs	INAA	ppm	0.5	1	Sr	ICP-OES	ppm	1	0
Cu	ICP-OES	ppm	1	1	Ta	INAA	ppm	0.2	2
Dy	ICP-OES	ppm	0.1	0	Tb	INAA	ppm	0.5	24
Eu	INAA	ppm	0.5	55	Th	INAA	ppm	0.5	0
Fe	INAA	%	0.1	0	Ti	ICP-OES	ppm	1	
Fe	ICP-OES	%	0.01	0	U	INAA	ppm	0.1	1
Hf	INAA	ppm	1	1	V	ICP-OES	ppm	1	1
K	ICP-OES	%	0.01	0	W	INAA	ppm	1	79
La	INAA	ppm	1	0	Y	ICP-OES	ppm	1	1
La	ICP-OES	ppm	1	1	Yb	INAA	ppm	0.5	3
Li	ICP-OES	ppm	0.1	1	Zn	ICP-OES	ppm	1	0
LOI	Gravimetric	%	0.1	0	Zr	INAA	ppm	100	73
Lu	INAA	ppm	0.05	1	Zr	ICP-OES	ppm	1	0

ACCURACY

Comparison of the standard analyses with ‘recommended values’ (based on multiple re-analyses prior to the release of the certified material; Lynch, 1996) indicate that the multi-acid digestion is near total (>95%) for Ca, Fe, Mn, Na, Ni, P, Rb, Sc, Sr and V, and only partial (<75%) for Be, Co, Y and Zr (Table 4). The greatest overestimation is for Sr (average 117% of the recommended values), whereas the greatest underestimation is for Zr (21% of the recommended values;

Table 4. Accuracy of ICP-OES analyses; calculated as the arithmetic mean of multiple analyses of each certified reference standard, divided by the recommended value for the standard

	TILL-1	TILL-2	TILL-3	TILL-4	Average
Al	0.91	0.93	0.93	0.94	93%
As	0.89	0.96	0.92	0.94	93%
Ba	1.00	1.00	1.01	0.99	100%
Be	0.56	0.78	0.59	0.77	68%
Ca	0.93	0.97	0.96	0.98	96%
Ce	0.94	0.90	0.97	0.89	92%
Co	0.72	0.74	0.70	0.77	73%
Cr	0.79	0.80	0.77	0.71	77%
Cu	0.88	0.91	0.91	0.92	90%
Fe	0.98	1.01	1.00	1.01	100%
K	0.91	0.92	0.92	0.91	91%
La	0.94	0.94	0.92	0.90	92%
Li	0.94	0.96	0.98	0.93	95%
Mg	0.92	0.95	0.95	0.99	95%
Mn	0.99	1.01	0.98	1.05	101%
Mo		0.90		0.93	92%
Na	0.97	0.98	0.99	0.97	98%
Nb	0.86	0.79	0.83	0.86	83%
Ni	1.11	1.08	1.03	1.25	111%
P	0.97	0.93	0.99	0.96	96%
Pb	0.69	0.83	0.77	0.93	80%
Rb	1.04	0.98	0.98	0.97	99%
Sc	1.12	1.11	1.10	1.18	113%
Sr	1.12	1.17	1.15	1.24	117%
Ti	0.84	0.88	0.97	0.91	90%
V	1.02	1.06	1.06	1.05	105%
Y	0.68	0.44	0.72	0.47	58%
Zn	0.91	0.94	0.90	0.97	93%
Zr	0.16	0.20	0.28	0.19	21%

Table 5). Overall, only seven elements (Ba, Ca, Fe, Mn, Na, P and Rb) out of 29 show recoveries within $\pm 5\%$ of 100%. A recovery of greater than 100% indicates that the element is being over-estimated.

Not surprisingly, near-total analyses by INAA are more numerous, because they are not dependent on mineral solubility in a digestion reagent. Recoveries of 95% or less were only reported for Br, Lu, Tb, U, Yb and Zr (Table 5). Fifteen elements out of 25 (As, Ba, Ce, Co, Cr, Fe, Hf, La, Na, Rb, Sb, Sc, Ta, Th and W) show recoveries within $\pm 5\%$ of 100%.

Table 5. Accuracy of INAA analyses

	TILL-1	TILL-2	TILL-3	TILL-4	Average
As	0.98	0.99	1.01	1.00	100%
Ba	0.99	0.98	1.00	0.96	98%
Br	0.72	0.98	0.70	0.62	76%
Ce	1.00	1.06	0.98	1.07	103%
Co	0.95	1.06	0.98	0.94	98%
Cr	0.99	0.97	1.03	0.95	99%
Cs	0.99	0.99	1.18	1.06	105%
Eu	2.06	1.29			167%
Fe	1.00	1.00	1.02	1.00	101%
Hf	1.02	0.95	0.77	1.12	97%
La	0.95	1.02	0.90	1.00	97%
Lu	0.89	0.92	1.01	0.91	93%
Mo				1.09	109%
Na	1.00	1.03	1.03	0.99	101%
Rb	0.96	1.00	1.01	1.02	100%
Sb	1.00	1.00	0.91	0.94	96%
Sc	1.04	1.03	1.00	1.07	104%
Sm	1.06	1.06	1.10	1.09	108%
Ta	1.08	1.06	0.77	0.99	98%
Tb	0.89	1.00	0.28	0.90	77%
Th	1.02	1.00	1.04	0.99	101%
U	0.92	0.95	0.94	0.94	94%
W		1.05		0.97	101%
Yb	0.92	0.86	0.91	0.78	87%
Zr	0.96	0.95	0.93	0.94	95%

FIELD AND ANALYTICAL VARIABILITY

The overall precision of the field and analytical duplicates is shown in Table 6. This single parameter does not take into account the variability of precision with concentration level. Therefore, results of analytical and field duplicates for all elements are displayed graphically as plots devised by Thompson and Howarth (1978) in Appendix A. Figures 5 and 6 show examples where elements' repeatability in field duplicates varies significantly from the repeatability in analytical duplicates (V by ICP-OES, Br by INAA), and where it does not (Al by ICP-OES, Sc by INAA). Figure 7 summarizes the precision of all of the analytical parameters, in field and analytical parameters, in bar-chart form.

DISPLAY OF GEOCHEMICAL DATA

The purpose of this report is to accompany the timely release of till-geochemical data. No geochemical maps are presented. The results of heavy-mineral examination of the bulk till samples, and one rock sample, at ODM are, however, described in the next section.

Table 6. Overall analytical and field precision

Element	Precision (95% C.L.)		Element	Precision (95% C.L.)	
	Analytical	Field		Analytical	Field
Al2	4.2%	26.8%	Lu1	28.4%	16.6%
As1	10.7%	106.3%	Mg2	4.5%	47.7%
As2	7.1%	107.5%	Mn2	3.6%	73.7%
Au1	158.2%	185.8%	Na1	12.3%	34.5%
Ba1	10.9%	45.3%	Na2	5.5%	30.7%
Ba2	3.6%	41.8%	Nb2	8.5%	54.5%
Be	11.6%	43.1%	Ni2	10.8%	50.6%
Br	27.8%	133.3%	P2	4.6%	48.2%
Ca	2.6%	99.4%	Pb2	5.5%	74.5%
Cd	75.5%	101.3%	Rb1	11.9%	38.9%
Ce1	21.8%	44.4%	Rb2	12.1%	39.3%
Ce2	7.7%	48.7%	Sb1	21.9%	138.7%
Co1	33.3%	58.5%	Sc1	13.3%	19.2%
Co2	14.4%	66.7%	Sc2	3.6%	29.0%
Cr1	16.6%	82.1%	Sm1	8.4%	33.0%
Cr2	6.4%	59.8%	Sr2	3.4%	43.0%
Cs1	10.0%	50.9%	Ta1	18.0%	24.8%
Cu2	18.7%	87.9%	Tb1	18.2%	24.7%
Dy2	10.2%	61.8%	Th1	7.9%	39.2%
Eu1	48.0%	125.3%	Ti2	5.0%	35.2%
Fe1	12.7%	41.0%	U1	7.7%	40.3%
Fe2	3.0%	51.8%	V2	3.2%	43.0%
Hf1	16.4%	16.7%	W1	66.7%	101.0%
K2	3.4%	40.0%	Y2	7.0%	66.4%
La1	10.8%	41.4%	Yb1	30.9%	32.2%
La2	8.5%	43.1%	Zn2	3.3%	50.8%
Li2	4.1%	63.7%	Zr1	133.8%	154.5%
LOI	8.4%	66.4%	Zr2	7.1%	54.9%

RESULTS OF PROCESSING BULK TILL SAMPLES

The detailed results of the processing of the bulk till samples are presented as a MS-Excel file in Appendix C. Some of the conclusions arising from the results are described here in terms of indicator minerals and the magnetic content of the HMC. Information regarding other minerals with potential as indicators, which include diopside, enstatite, epidote, forsterite and grossular, is presented in Appendix C but is not considered in this section.

CHROMITE

Chromite is the predominant mineral extracted (by Electrostatic Pulse Disaggregation, EPD) from the rock sample collected at the Chrome Pond occurrence. A 0.7 kg subsample was reduced

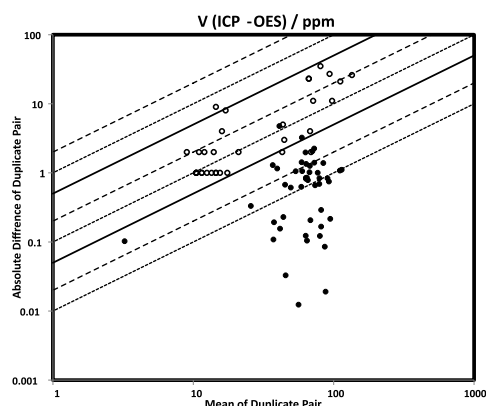


Figure 5. Thompson-Howarth precision plot for field and analytical duplicates of vanadium (ICP-OES analyses): an example of an element whose field variability significantly exceeds its analytical variability.

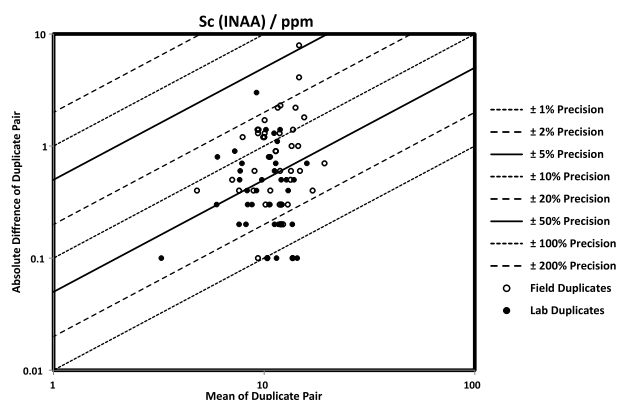


Figure 6. Thompson-Howarth precision plot for field and analytical duplicates of scandium (INAA analyses): an example of an element whose field variability does not significantly exceed its analytical variability.

to 90% <2 mm to liberate its mineral constituents; a heavy mineral concentrate (SG>3.2) was then separated from the <2 mm product. According to S. Averill of ODM (personal communication, October 2014) “the resulting concentrate was minute, with only about 500 mineral grains coarser than 0.25 mm and an inordinately high proportion (25 percent) were chromite crystals because the specific gravity of most of the olivine had been reduced by serpentinization (specific gravity 2.2–2.9) and the magnesite was so friable that it was mostly reduced by EPD to particles smaller than 0.25 mm The recovered heavy particles, other than the chromite grains, were mostly impure, consisting of a mixture of fresh and serpentinized olivine with adhering magnesite. Most of these particles were dusted with up to 30 percent fine-grained sulphides (pentlandite, cobaltiferous pentlandite, hazelwoodite and cobaltite) which increased their specific gravity and allowed their recovery.”

Chromite is present in all eight bulk till samples but in highly variable concentrations, with only seven grains in Sample 7707 (a control sample taken over siliciclastic sediments, up-ice of the Pipestone Pond ophiolite complex) and hundreds to thousands of grains in the other seven samples. The samples with the most chromite are 7705, with approximately 20 000 grains, and 7704, with 12 000 grains. The former sample was collected at the Chrome Pond occurrence, whereas the latter is from about 14 km to the south-southwest; that is, probably down-ice. The most northerly sample collected over the Pipestone Pond ophiolite complex (Sample 7706) had a potential fetch of several kilometres of serpentinized dunite; although rich in serpentinized forsterite, it returned only about 100 grains of chromite, which appears to be the background content for unmineralized rock.

Many of the chromite grains in these samples have adhering talc or serpentine suggesting derivation from olivine-rich peridotite or dunite, and the grains are morphologically similar to those recovered from the dunite bedrock sample (S. Averill, ODM, personal communication, October 2014). Other, much rarer minerals found adhering to the chromite grains are pale-brown orthopyroxene (enstatite; found in Samples 7705 and 7706, both collected over the Pipestone Pond ophi-

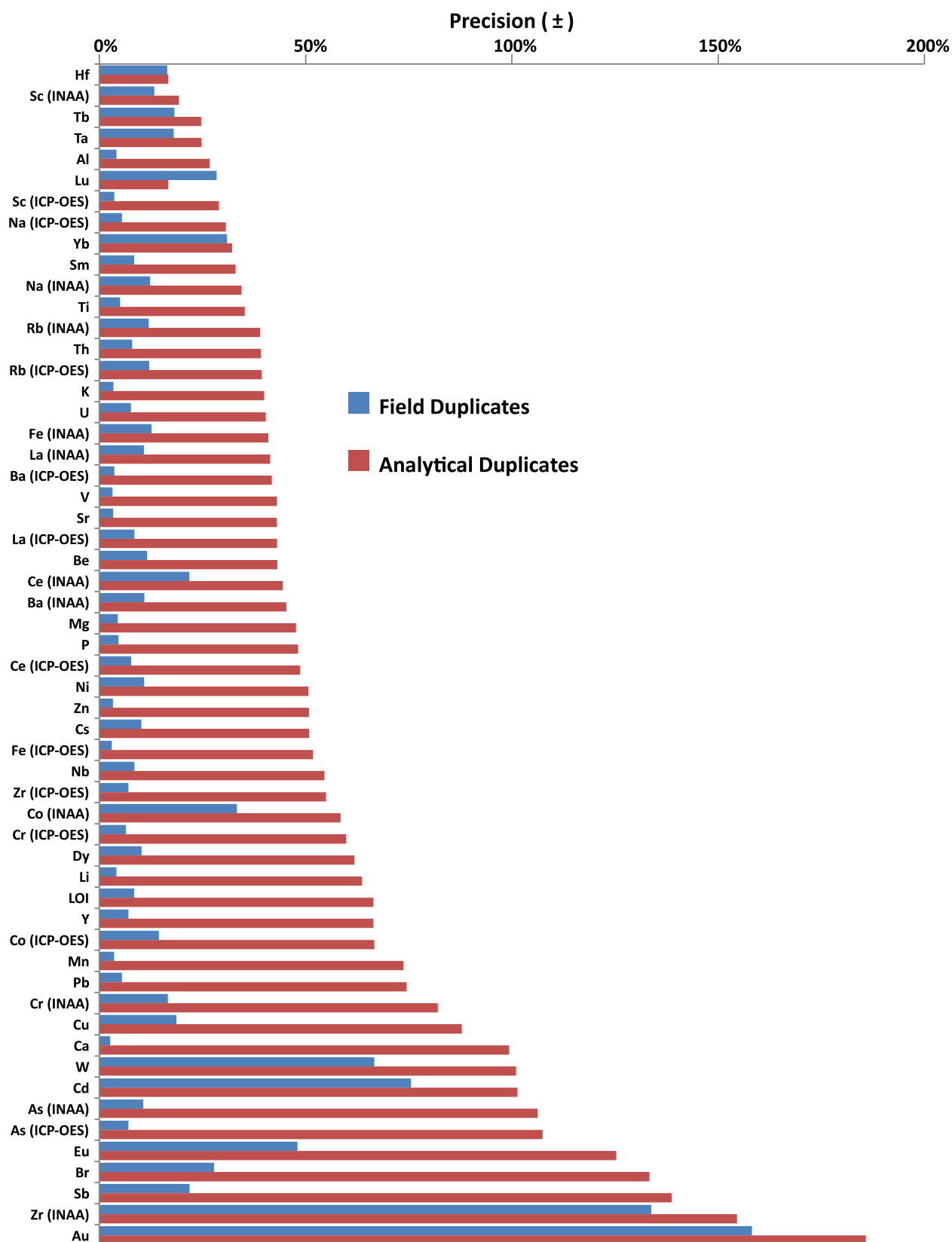


Figure 7. Bar chart summarizing precision of field and analytical duplicates.

olite complex), bright emerald-green Cr-diopside (from Sample 7705, collected at the location of the Chrome Pond occurrence) and green uvarovite garnet (from Sample 7706, collected over unmineralized ophiolite).

The dispersion of chromite over and down-ice of the Chrome Pond occurrence is shown in profile in Figure 8A. The grain count increases from less than 10 grains north (and up-ice) of the northern contact with the Pipestone Pond ophiolite complex, to about 100 grains 7 km down-ice of the contact (interpreted as the background content of unmineralized ophiolite) and more than 10 000 grains at the chromite occurrence itself. South of the ophiolite there is a systematic exponential reduction (appearing as a straight line on the logarithmically scaled profile) over a distance of about 45 km, where the grain count appears to level off at about 100 to 200 grains, although this is considerably higher than the grain count north of the Pipestone Pond ophiolite complex.

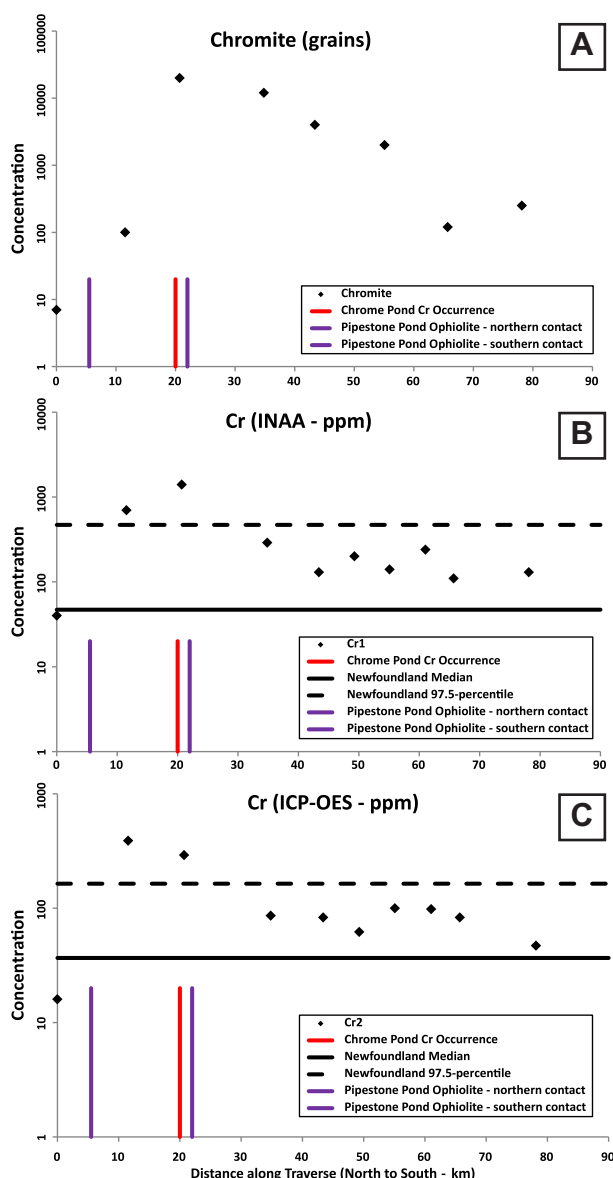


Figure 8. A) Chromite counts in bulk till samples. Location of Chrome Pond chromite occurrence, and northern and southern contacts of Pipestone Pond ophiolite, are shown as vertical lines. B) Cr1 (INAA) content of -180 μ till samples. Location of Chrome Pond chromite occurrence, and northern and southern contacts of Pipestone Pond ophiolite, are shown as vertical lines. Cr1 median and 97.5-percentile of all Newfoundland tills are shown as continuous and dashed horizontal lines, respectively. C) Cr2 (ICP-OES) content of -180 μ till samples. Location of Chrome Pond chromite occurrence, and northern and southern contacts of Pipestone Pond ophiolite, are shown as vertical lines. Cr2 median and 97.5-percentile of all Newfoundland tills are shown as continuous and dashed horizontal lines, respectively.

For comparison, the Cr contents measured by INAA (Cr1) and ICP-OES (Cr2) analysis of the minus-180 μ tills are shown in Figure 8B and C, respectively. It is noteworthy that while the Cr1 reaches a maximum in Sample 7705, collected at the location of the Chrome Pond occurrence – a characteristic it shares with the chromite grain count – Cr2 reaches a maximum over the more northerly of the two samples collected over the Pipestone Pond ophiolite. This is probably because whereas Cr1 is a measure of all of the Cr in the till, Cr2 is responding only to the till's non-chromite (serpentine?) Cr content; chromite is known to be resistant to the multi-acid digestion employed in the current study.

It has not been possible to relate the degree of abrasion of the chromite to displacement distance because “*chromite is one of the most resistant minerals known, both physically and chemically. Its physical resistance is due to both its hardness (5.5) and its equant, octahedral morphology*” (S. Averill, ODM, personal communication, November 2014).

GOLD

Although the distribution and dispersion of gold were not the focus of the current study, isolation and detailed examination of the gold grains were carried out as part of ODM's basic package and revealed significant numbers of grains in some samples.

Sample 7705, collected at the site of the Chrome Pond occurrence, returned the highest gold-grain count at 75 re-shaped, 46 modified and 21 pristine grains. Only two other samples returned pristine grains: Sample 7704, 14 km down-ice of Sample 7705, with three (along with 25 re-shaped and ten modified grains), and Sample 7707, up-ice of the Pipestone Pond ophiolite complex, with one (plus 6 re-shaped and 2 modified grains).

Figure 9A and B, respectively, show profiles of pristine gold grains and total gold grains over and down-ice of the Pipestone Pond Au occurrence. The dispersion train as defined by pristine grains (Figure 9A) is exceptionally clean and well-defined, with the response decaying to background (zero grains) over about 25 km. By contrast, the response in total grains (Figure 9B) is

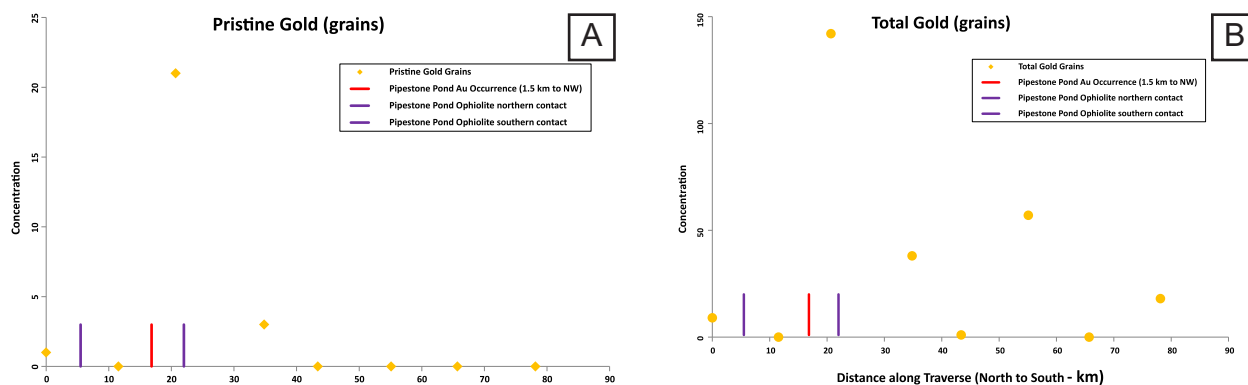


Figure 9. A) Pristine gold grain counts in bulk till samples. Location of Pipestone Pond gold occurrence, and northern and southern contacts of Pipestone Pond ophiolite, are shown as vertical lines. B) Total gold grain counts in bulk till samples. Location of Pipestone Pond gold occurrence, and northern and southern contacts of Pipestone Pond ophiolite, are shown as vertical lines.

more noisy, as it drops to only one grain over the same 25 km distance, but 57 and 18 grains were returned from samples 40 km (Sample 7708) and 60 km (Sample 7701) down-ice of the occurrence.

The presence of abundant gold and chromite may be coincidental, because Sample 7705 lies within a previously identified gold dispersion train reported by Teck Explorations Ltd. (Clarke, 1990). Teck's results are shown in Figures 10 and 11. The highest gold-grain count returned from the Teck survey was somewhat lower than that of Sample 7705, at 12 re-shaped, 19 modified and 6 pristine grains; however, this was collected at a site about 3.4 km north of Sample 7705. Furthermore, the samples collected by Teck averaged only 10 kg compared to the 20 kg samples collected during the current study. Subsequent work by Celtic Minerals (Delaney *et al.*, 2002) included six diamond-drill holes, one of which intersected quartz-veined 'mafic volcanic sediment' of which a 1.24 m intersection and a 0.18 m intersection, separated by about 5 m of essentially barren material, returned 3571 ppb and 2870 ppb Au, respectively. This discovery constitutes MODS 012A/08/Au 003 (Pipestone Pond gold) and its location is essentially coincident with that of Teck's most strongly auriferous sample, described above.

MAGNETIC COMPONENT

The background content of (ferro-) magnetic material in the heavy-mineral concentrate (HMC), probably consisting mostly of magnetite, is less than 20%, but it increases to almost 100% in Sample 7706, the more northerly of two bulk till samples collected over the Pipestone Pond ophiolite (Figure 12). In most samples, the magnetic content of the HMC can be ascribed almost entirely to magnetite; however, the Pipestone Pond and neighbouring Coy Pond ophiolite complexes are known to host significant amounts of awaruite, a naturally occurring, strongly ferromagnetic alloy of nickel and iron with the formula Ni_3Fe (Wilton and Winter, 2012). While magnetite, as a bi-product of the serpentinization of iron-bearing olivine (*e.g.*, Moody, 1976), is probably present in significant quantities, it is not possible to distinguish it from awaruite in the heavy-mineral concentrate (R. Huneault, ODM, personal communication, August 2015), although during the panning process, 20 grains of awaruite were identified in Sample 7706, and somewhat surprisingly from Sample 7708, collected about 30 km south of the Pipestone Pond ophiolite complex's southern contact.

Sample 7706, with its high magnetic content, returned only about 100 grains of chromite; on the other hand, the highly chromitiferous Sample 7705 returned only 25% magnetic HMC and the next sample collected down-ice (Sample 7704) returned only 3.5% magnetic HMC. The more southerly samples show a systematic decrease in magnetic HMC, from 17% in Sample 7703 to 6.5% in Sample 7701; this may represent a long magnetite dispersion train from the Pipestone Pond ophiolite, although the reason for its interruption in Samples 7705 and 7704 is not known.

PIGEONITE

Pigeonite, a calcium-poor clinopyroxene having a specific gravity of 3.3 to 3.5, is a characteristic mineral of quickly chilled mafic rocks, in its uninverted form. In plutonic rocks, pigeonite forms exsolution lamellae of Ca-rich augite (Deer *et al.*, 1985, pages 129-131). The mineral forms

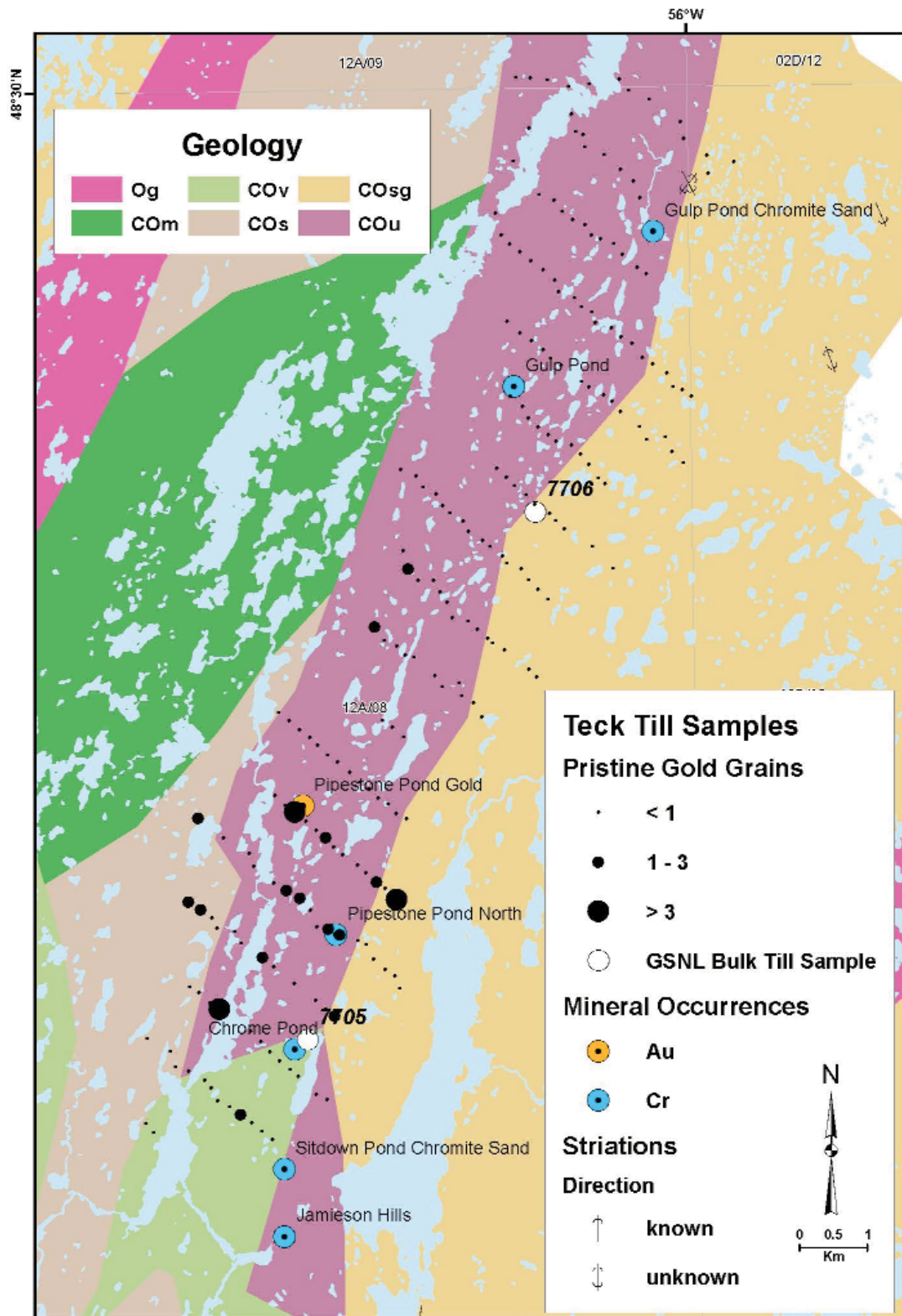


Figure 10. Pristine gold grains in till associated with the Pipestone Pond gold occurrence (data from Clarke, 1990). GSNL bulk till Sample 7705 lies within the dispersion fan identified by auriferous samples. See Figure 1 for geological legend.

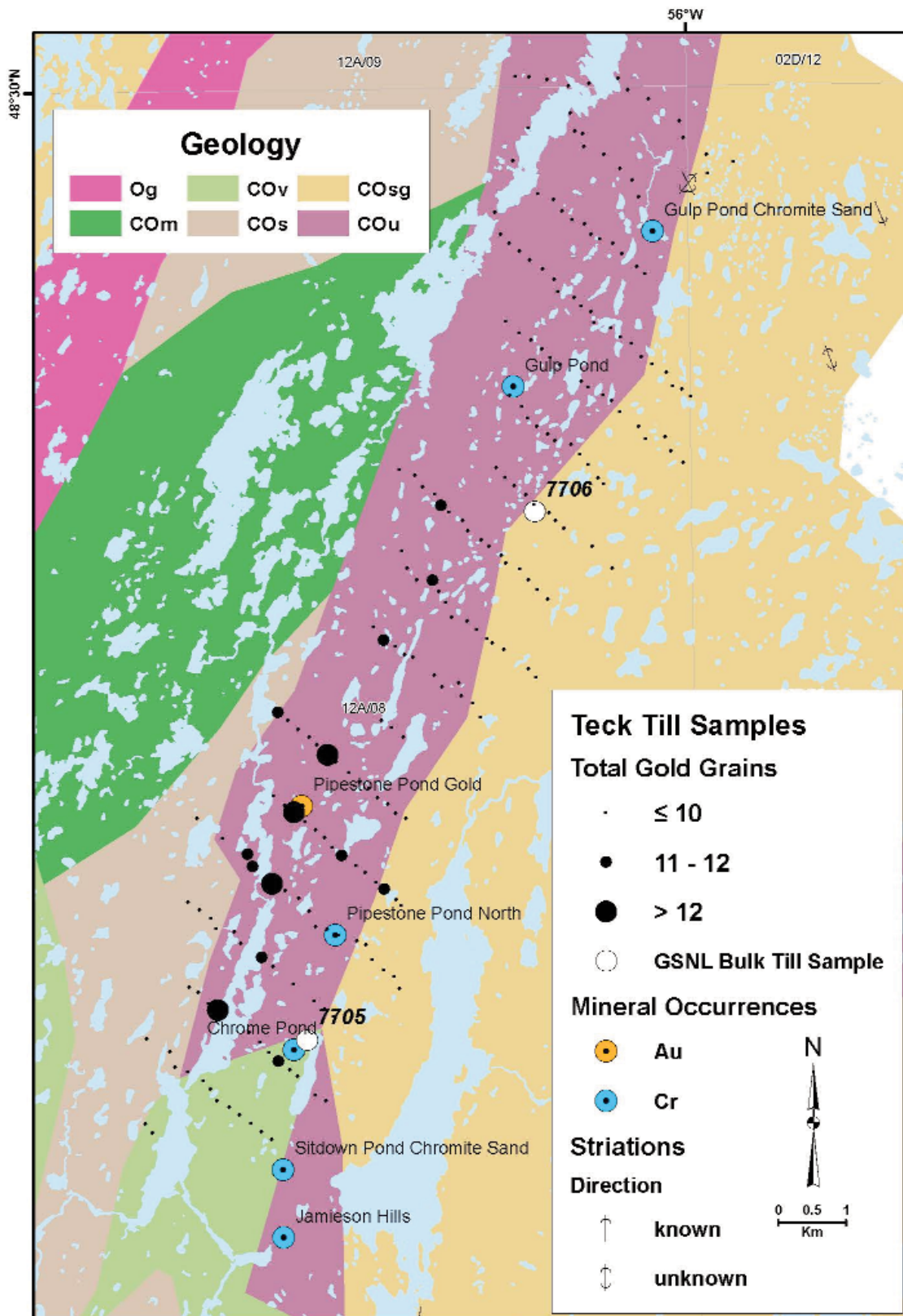


Figure 11. Total gold grains in till associated with the Pipestone Pond gold occurrence (data from Clarke, 1990). See Figure 1 for geological legend.

a major component of the paramagnetic mineral assemblage of Samples 7701 and 7702; *i.e.*, at the tail of the dispersion train from the Pipestone Pond ophiolite complex. In the absence of detailed information about the sample locations, S.Averill of ODM (personal communication, October 2014) interpreted the mineral as being derived from the sheeted diabase dyke component of an ophiolite assemblage. However, in view of the sample location's distance from the ophiolite complex, the Round Pond and Steel Pond gabbros (Colman-Sadd and Swinden, 1989) constitute more plausible sources.

STAUROLITE

Staurolite, a hydrous Fe, Mg and Al-rich metamorphic mineral with specific gravity of 3.7 to 3.8, is a component of the non-paramagnetic assemblage in Samples 7701 to 7703 and 7708; these are the four most southerly samples in the traverse. S. Averill of ODM (personal communication, October 2014) observes that *“rather than occurring as the orange crystals commonly found in metasedimentary terranes, most of the staurolite occurs as dull grey to grey-brown granular aggregates suggesting derivation from a specific, nearby metasediment horizon.”* A plausible source-rock fitting this description is Unit 13 of Colman-Sadd and Swinden (1984)'s Cold Spring Formation, described as *“green, thick to thin bedded graded psammites, siltstones; finely bedded green to black argillites, locally graphitic”*.

CONCLUSIONS

During the 2013 and 2014 surficial mapping field seasons, 779 till samples were collected in NTS map areas 2D/04, 11, 12, 1M/13 and 12A/01, and surrounding areas. These samples have been analyzed by ICP-OES and INAA and checked for acceptable accuracy and precision.

In addition, eight bulk till samples were collected in what is believed to be the glacial dispersion train from the Chrome Pond chromite occurrence in the Pipestone Pond ophiolite complex. Examination of the heavy-mineral concentrates from these samples shows that the chromite content diminishes almost exponentially, over about 45 km, from several thousand grains to about 100 grains, down-ice from the occurrence, where the grain count appears to level off. The corresponding distance for the total Cr content (measured by INAA) is about 20 km. The content of Cr as analyzed by ICP-OES responds more strongly to unmineralized serpentinized dunite and shows a peak up-ice of the chromite occurrence. It also descends to background over a distance of about 20 km.

The heavy mineral examination has also confirmed the presence of a previously identified gold dispersion train, probably originating from the Pipestone Pond gold occurrence.

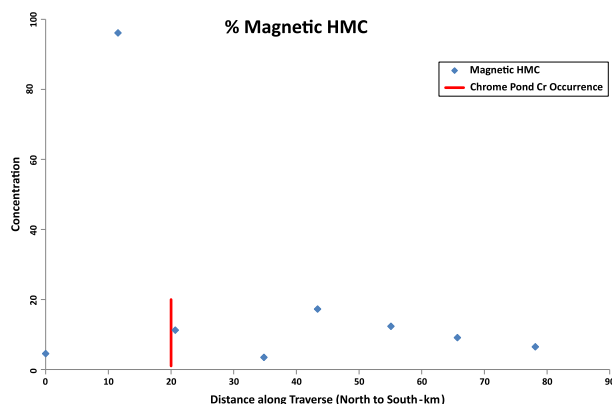


Figure 12. Magnetic content of HMC in bulk till samples. Location of Chrome Pond chromite occurrence is shown as a vertical line.

ACKNOWLEDGMENTS

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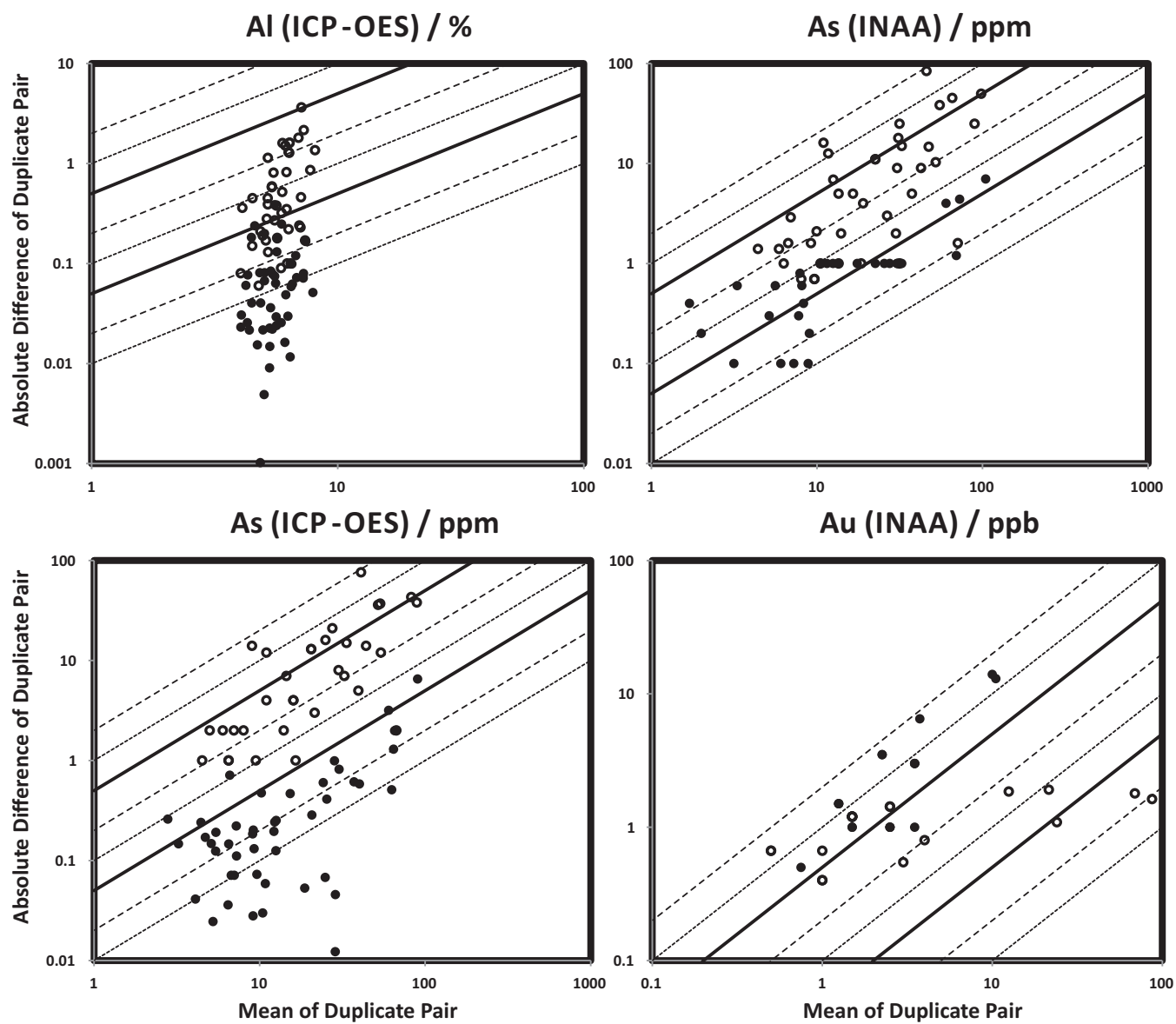
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Appendix A

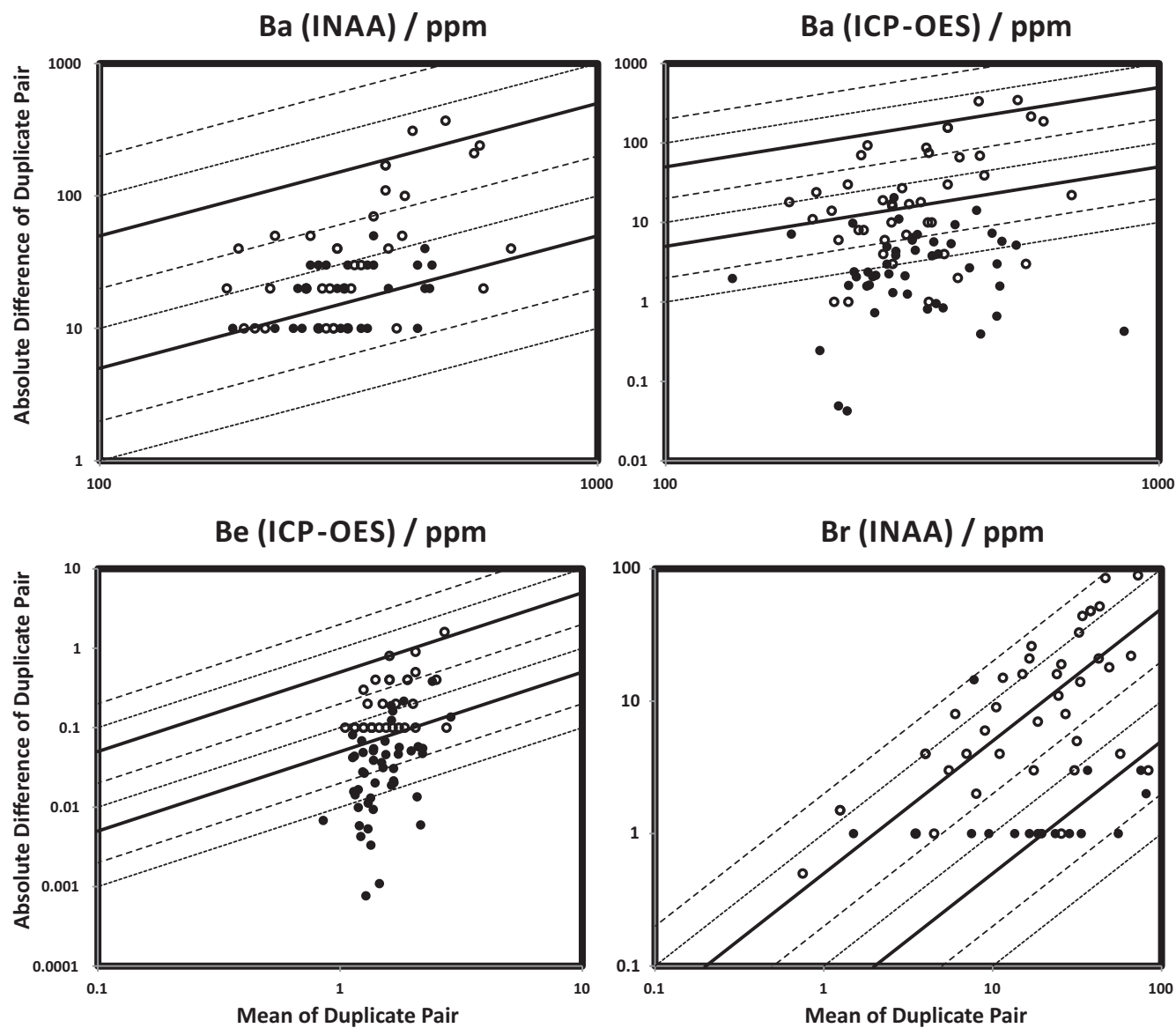
Thompson-Howarth Precision Plots of Field and Analytical Duplicates

In these precision plots, the mean of each pair of duplicates is plotted against their absolute difference; both axes are scaled logarithmically. A series of parallel lines indicates precision of gradually increasing absolute value, from $\pm 1\%$ to $\pm 200\%$. Field duplicates are denoted by open circles, and analytical duplicates by closed circles; the absolute value of the precision for the former is invariably greater (*i.e.*, the repeatability is worse).

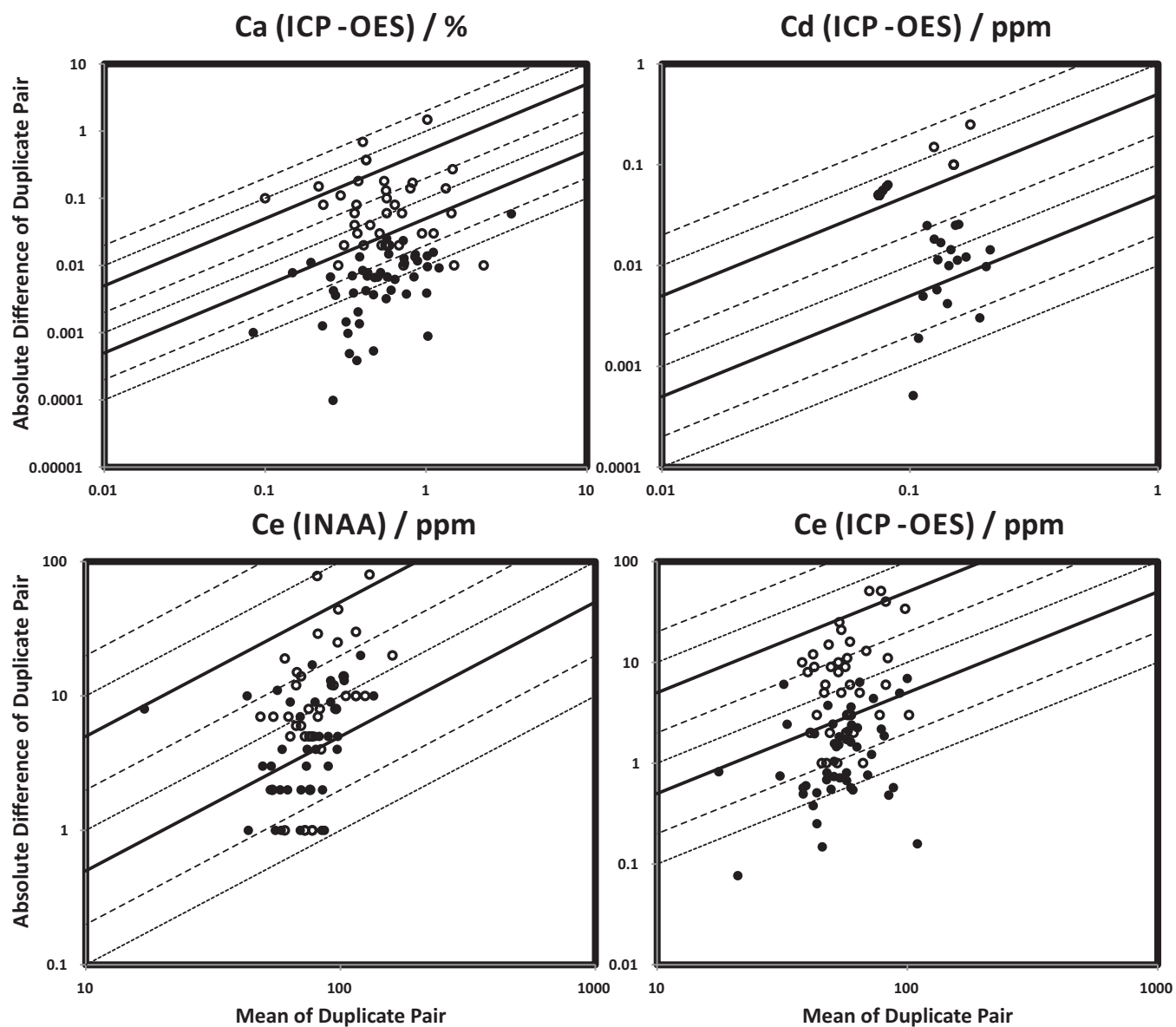
Appendix A: Thompson-Howarth Precision Plots of Field and Analytical Duplicates



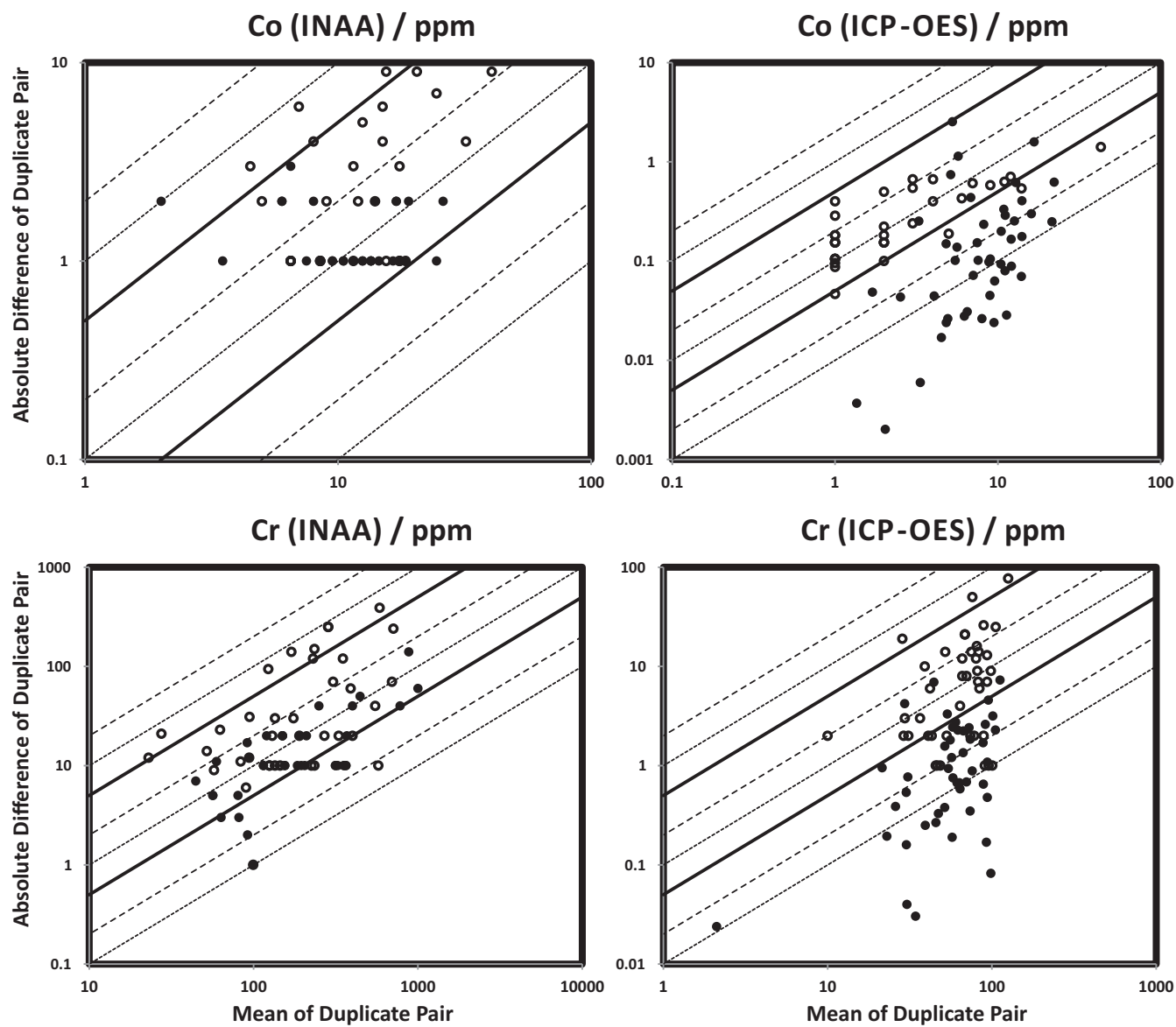
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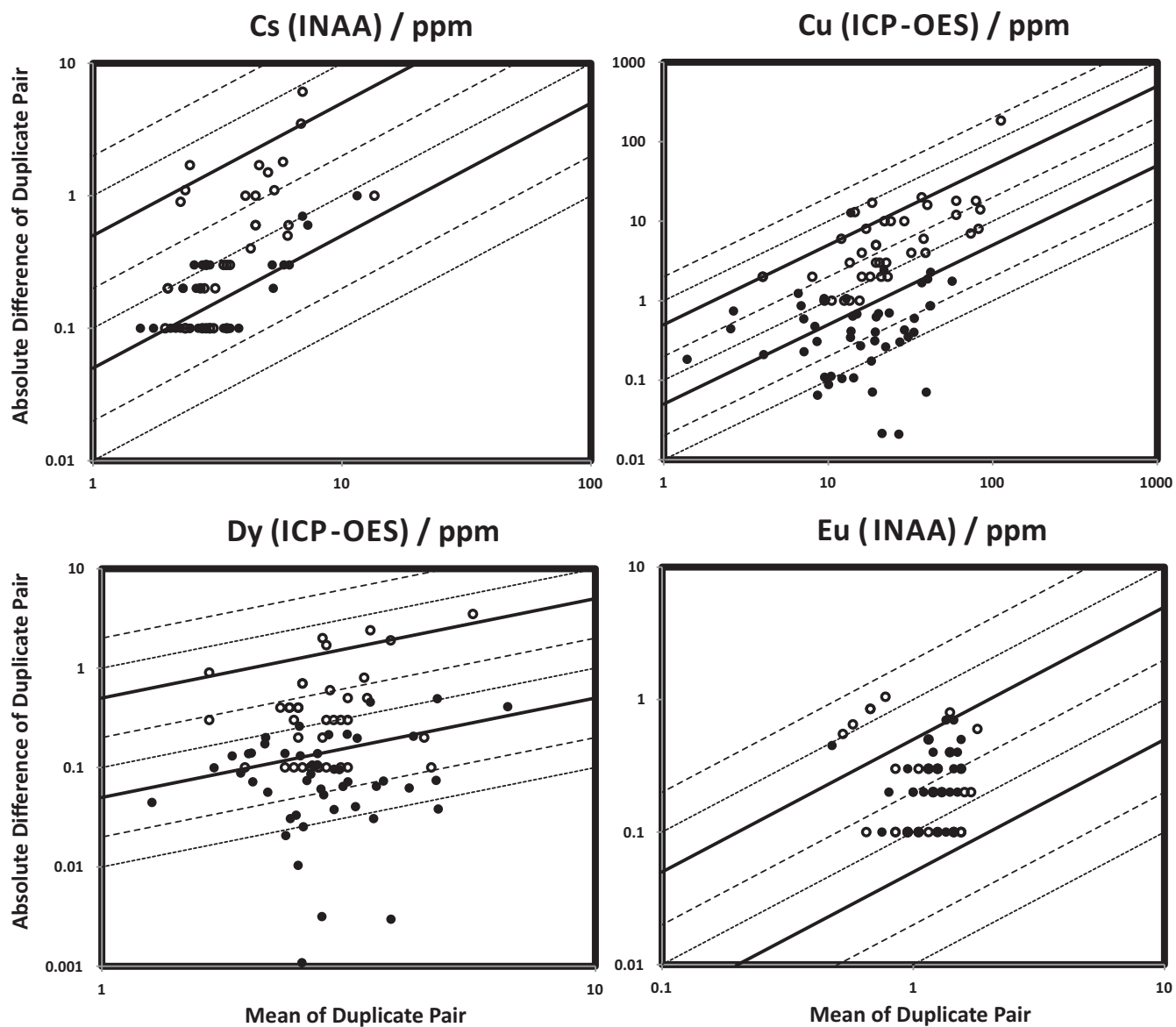
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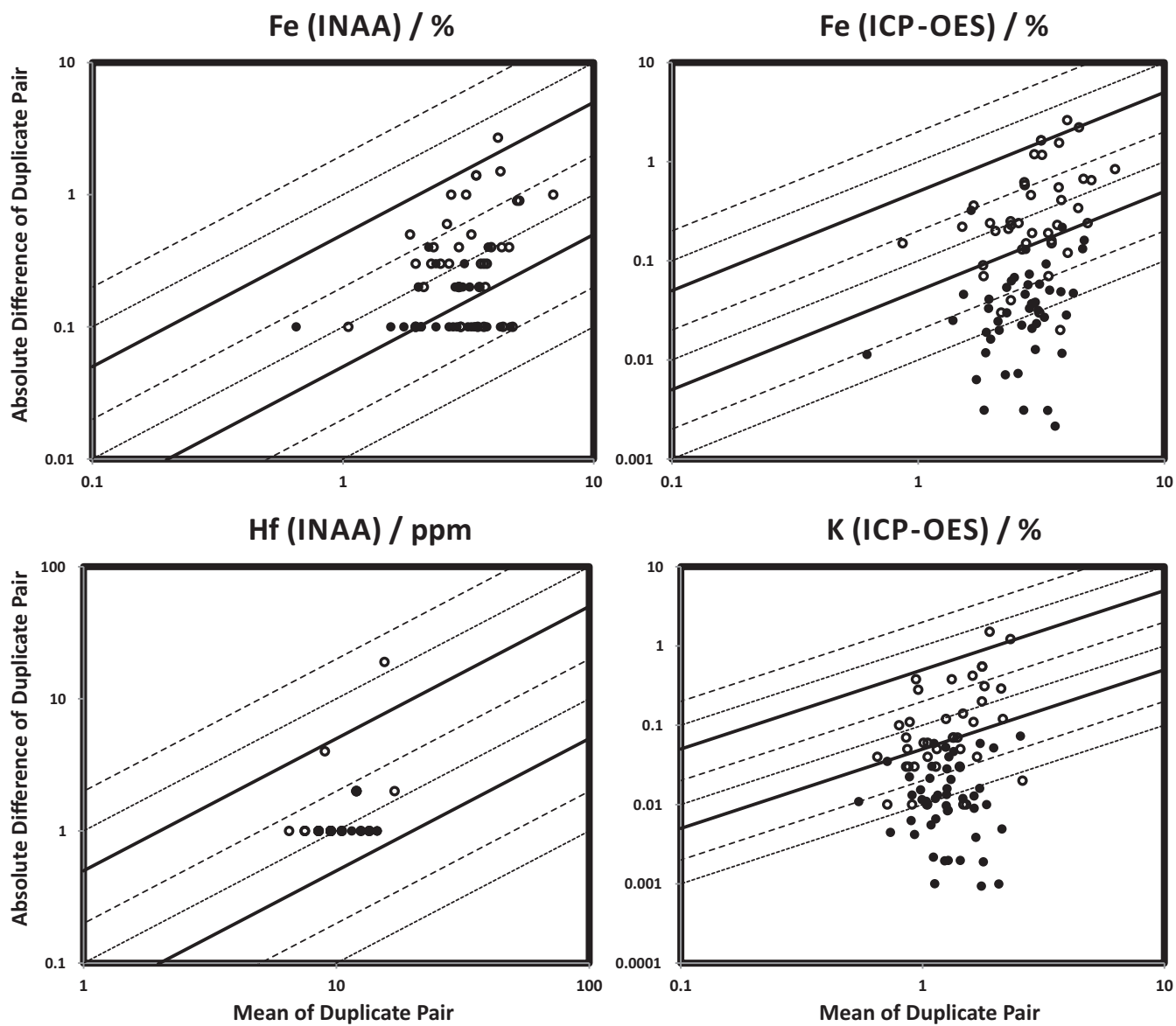
Appendix A: Thompson-Howarth Precision Plots of Field and Analytical Duplicates



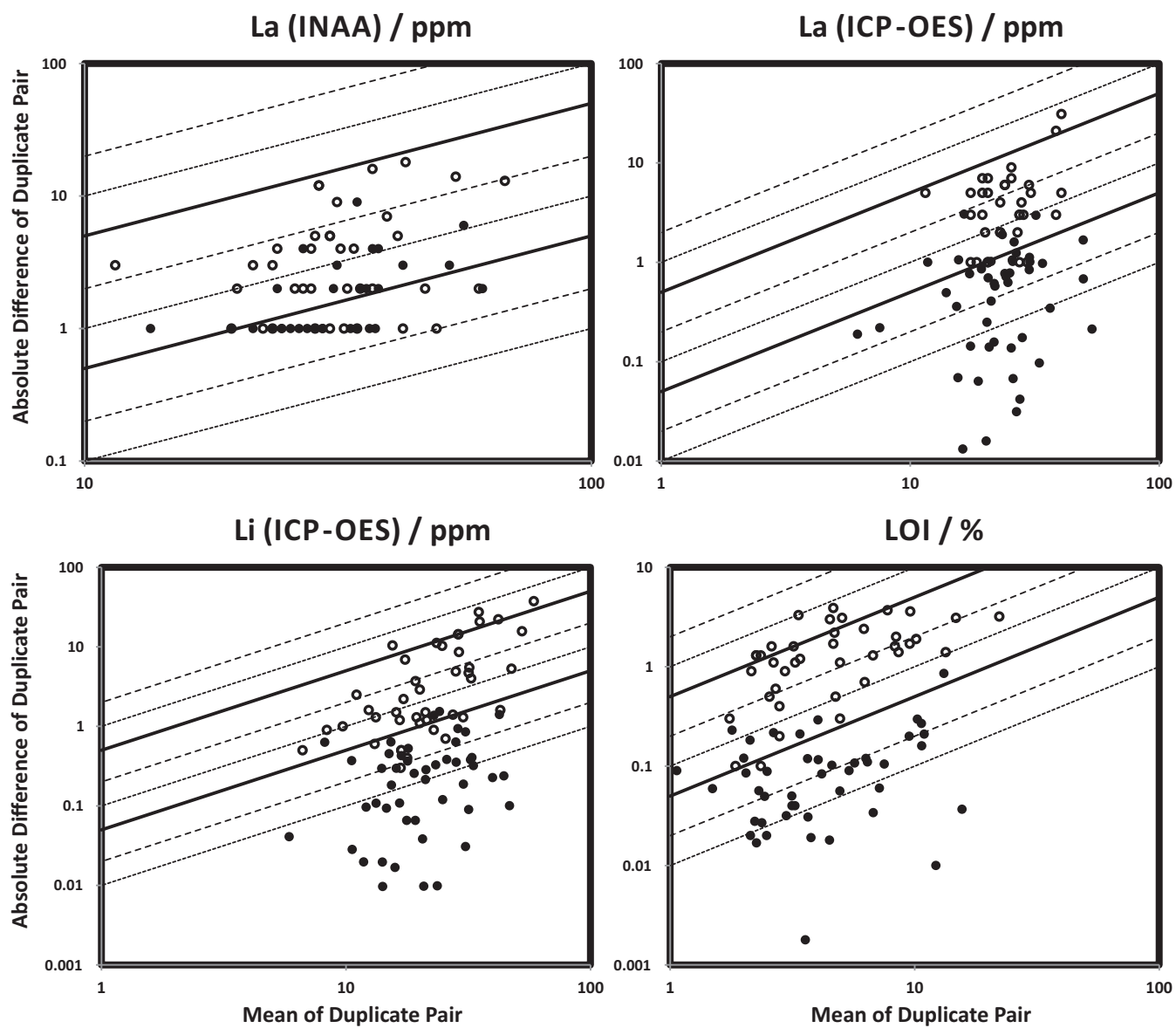
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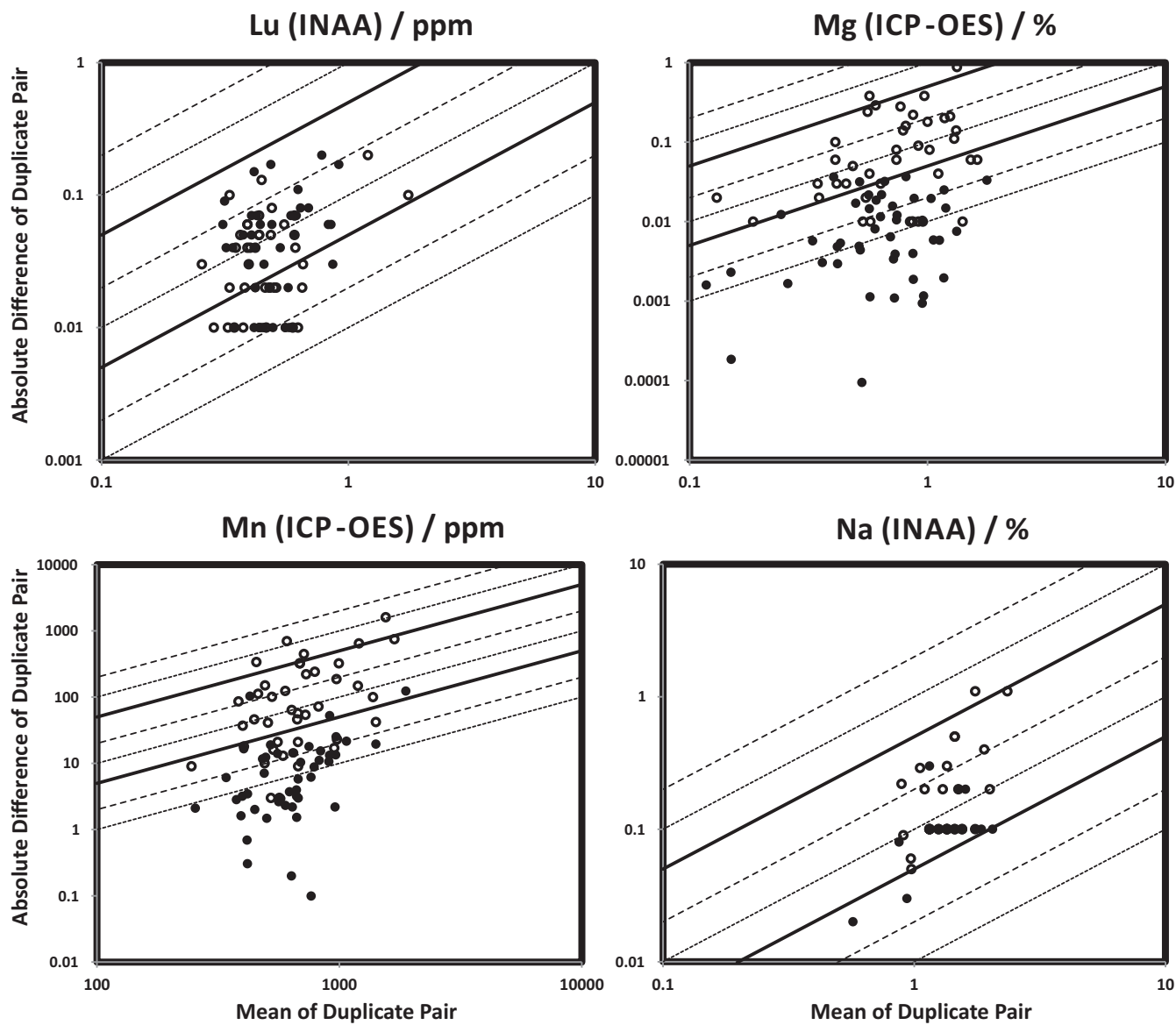
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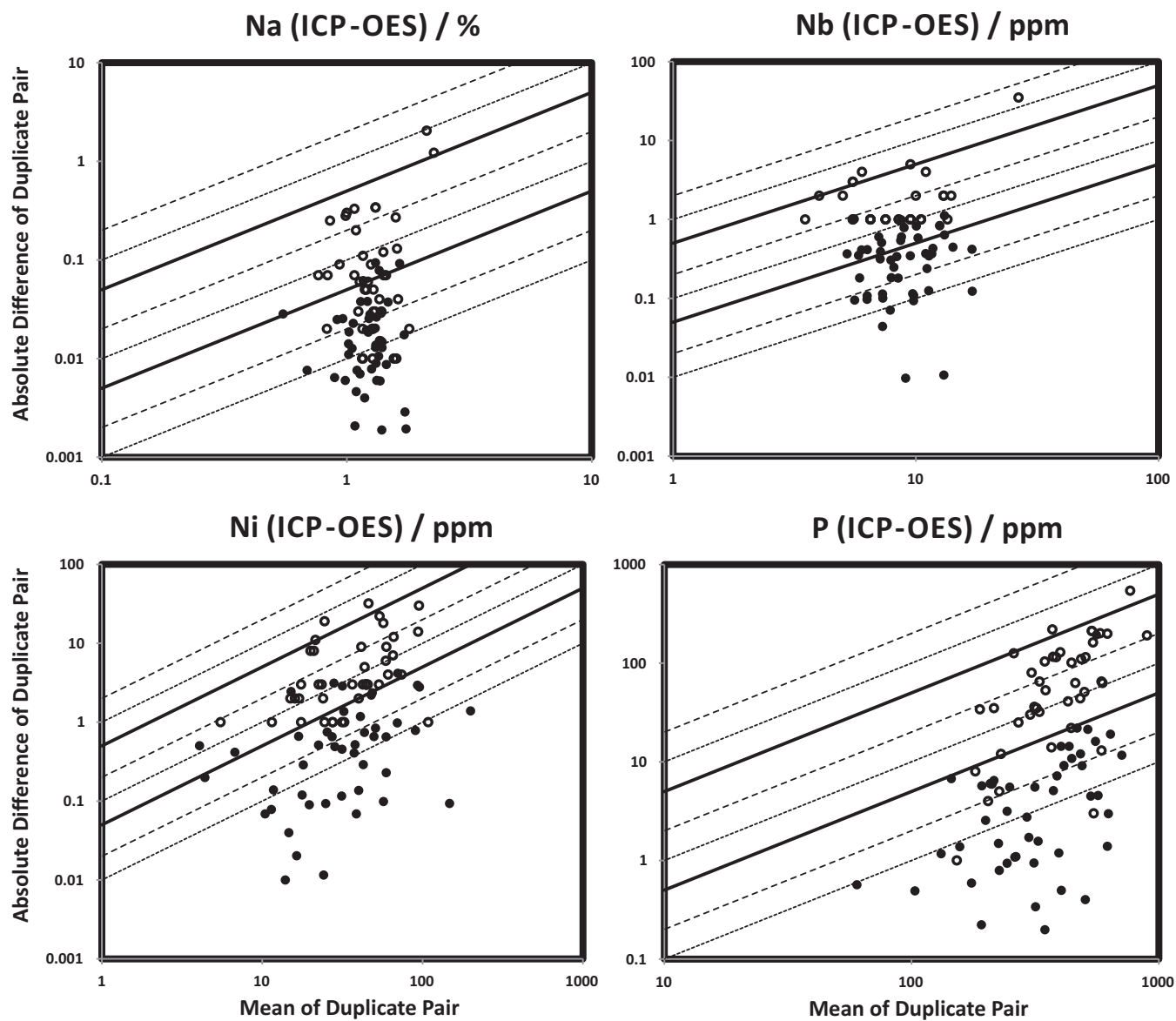
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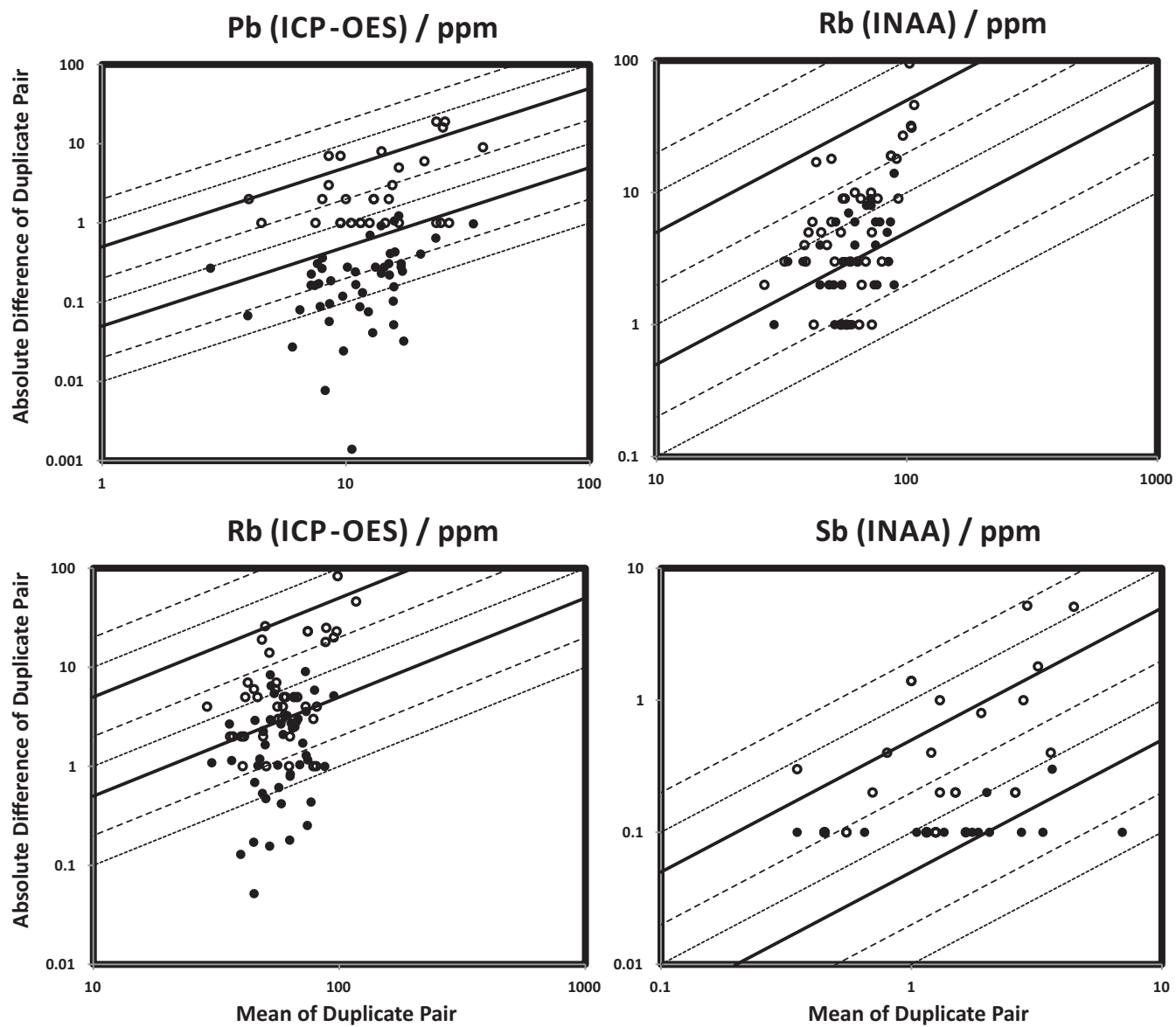
Appendix A: Thompson-Howarth Precision Plots of Field and Analytical Duplicates



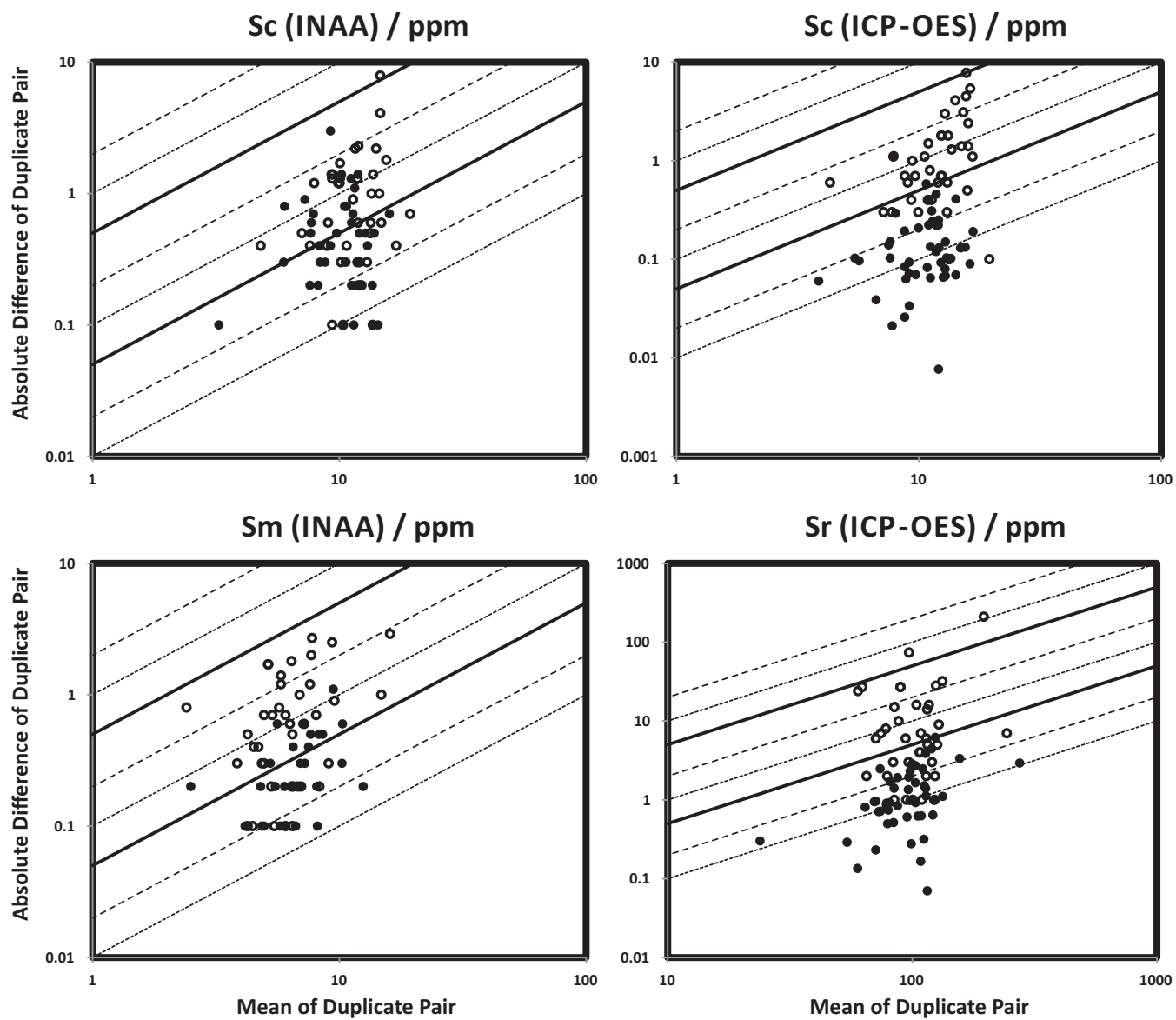
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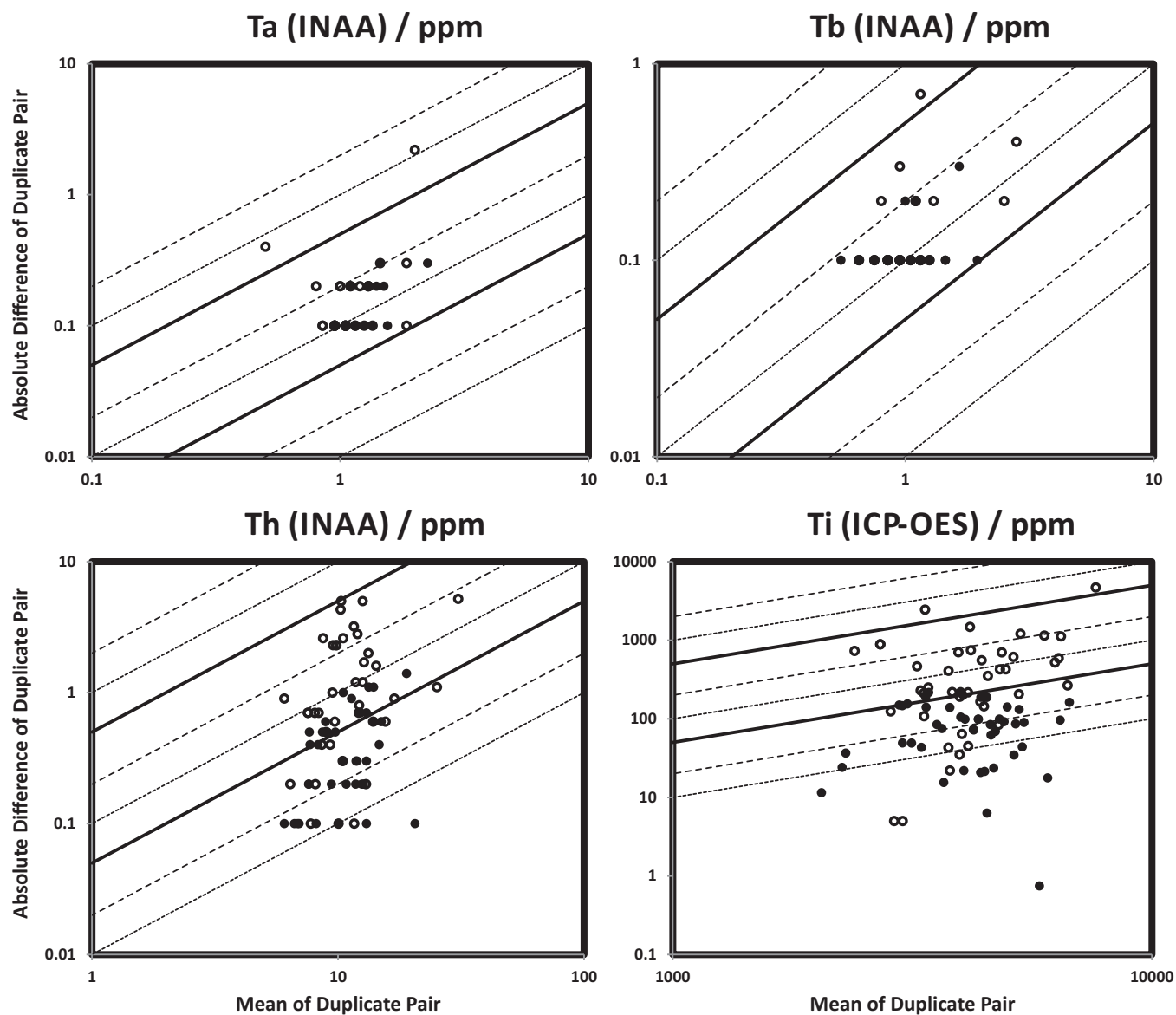
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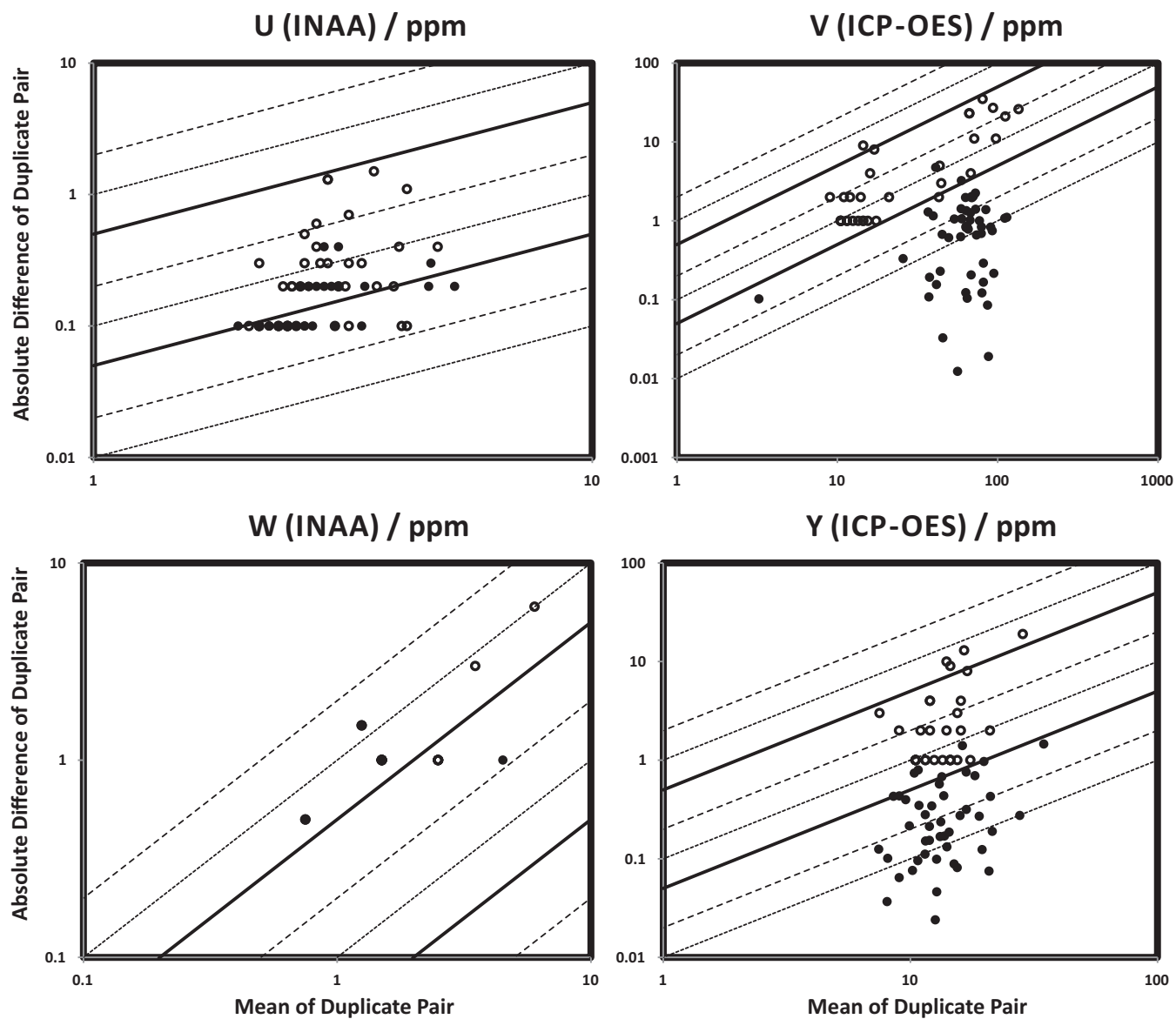
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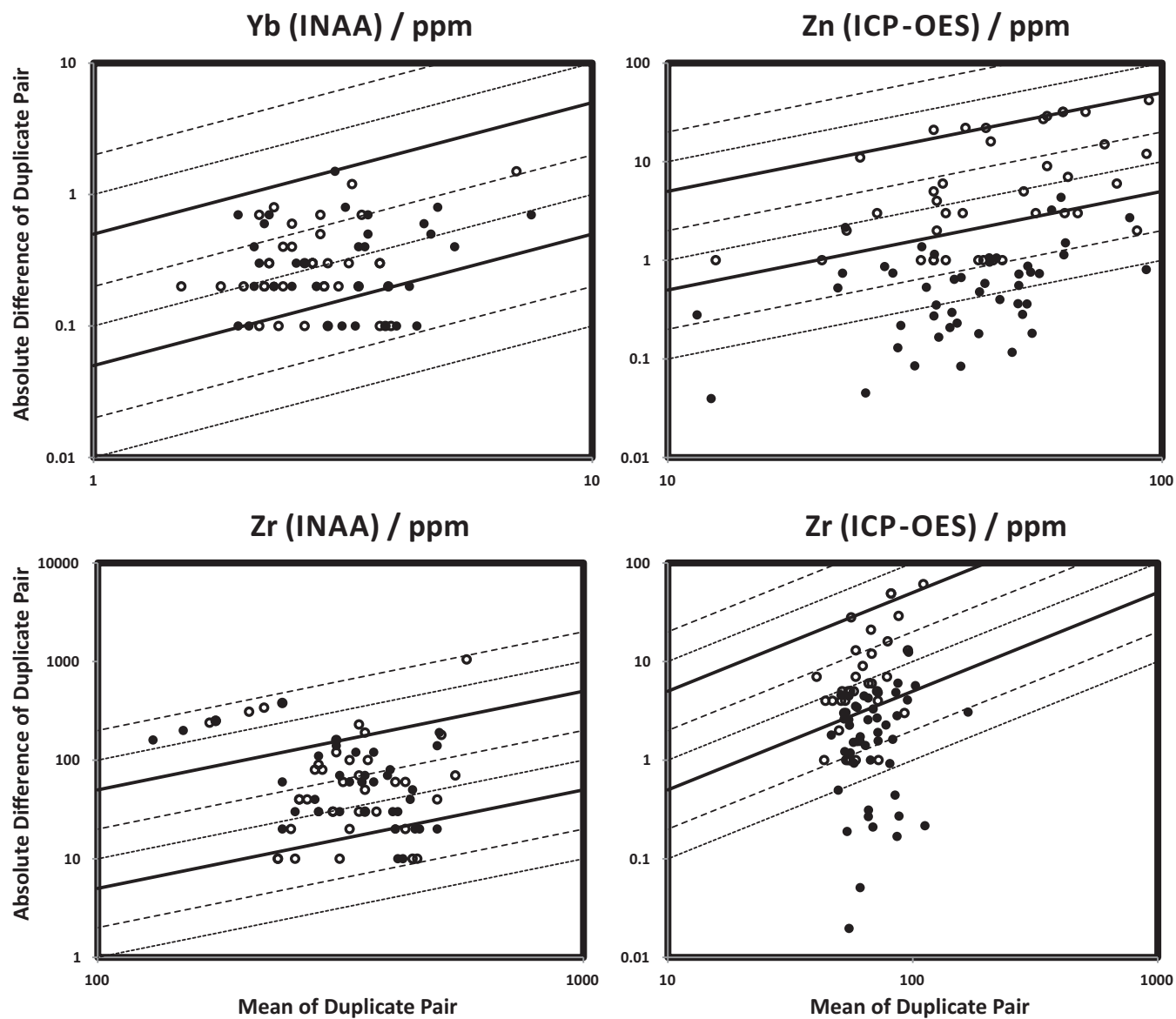
Appendix A: Thompson-Howarth Precision Plots of Field and Analytical Duplicates



Appendix A: Thompson-Howarth Precision Plots of Field and Analytical Duplicates



Appendix A: Thompson-Howarth Precision Plots of Field and Analytical Duplicates



Appendix B

Field and Analytical Data Listing

Analytical Methods

Gravimetric Analysis (LOI)

Organic carbon content was estimated from the weight loss-on-ignition (LOI) during a controlled combustion in which 1g aliquots of sample were gradually heated to 500°C in air over a 3 hour period.

Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES)

For these analyses, the procedures outlined by Finch (1998) were followed, with minor revisions. One gram of sample was weighed into a 125 ml Teflon beaker, and 15 ml HF (~48%), 5 ml of concentrated HCl, 5 ml of concentrated HNO₃ and 2.5 ml of 70% HClO₄ were added to each sample. The samples were placed on a hotplate at 200°C and evaporated to dryness, after which 5 ml concentrated HCl and 45 ml deionized water were added and returned to the hotplate at 100°C. When the residue was completely dissolved the samples were removed, cooled and transferred to 50 ml volumetric flasks. One ml of 50 g/l boric acid was added to each sample to remove any residual hydrofluoric acid. The samples were made up to volume and analyzed by ICP-OES (Lichte *et al.*, 1987).

Values for the following elements were determined: Al, Ba, Be, Ca, Ce, Co, Cr, Cu, Dy, Fe, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Sc, Sr, Ti, V, Y, Zn and Zr.

Instrumental Neutron Activation Analysis (INAA)

These analyses were carried out at Becquerel Laboratories, Mississauga, Ontario. An average of 24 g of sample was used for analysis and the samples were weighed and encapsulated in the Geochemical Laboratory of the Department of Natural Resources in St. John's. Samples were irradiated with flux wires and an internal standard (1 for 11 samples) at a thermal neutron flux of $7 \times 10^{11} \text{ n/cm}^2\text{s}$. After 7 days (to allow Na²⁴ to decay), samples were counted on a high purity Ge detector with a resolution better than 1.7 KeV. Using the flux wires, the decay-corrected activities were compared to a calibration developed from multiple certified international reference materials. The standard present is only a check on accuracy of the analysis and is not used for calibration purposes. Ten to 30 percent of the samples were checked by re-measurement.

Total contents of the following elements were determined quantitatively: As, Au, Ba, Br, Ce, Co, Cr, Cs, Eu, Fe, Hf, La, Lu, Mo, Na, Rb, Sb, Sc, Se, Sm, Ta, Tb, Th, U, W, Yb and Zr.

These data are also available for download in comma-delimited form.

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST		UTMNORTH		UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm
			NAD 27	NAD 27	NAD 27	NAD 27																			
7001	2013	11P/16	574243	5314606	21	C	55	216	0.025	4.86	5.3	5	0.5	190	202	1.4	64	0.85	0.05	71	56	5	4	150	
7002	2013	01M/13	575125	5313796	21	C	45	264	0.025	4.71	2.9	3	0.5	270	243	1.7	5	1.38	0.05	72	57	6	5	140	
7003	2013	01M/13	575882	5312839	21	C	55	228	0.025	5.04	7.2	6	0.5	290	284	1.4	47	0.65	0.05	72	60	8	6	110	
7004	2013	01M/13	576297	5311844	21	C	60	212	0.025	5.02	4.7	5	0.5	290	282	1.5	29	0.74	0.05	86	70	6	5	78	
7005	2013	01M/13	576710	5310526	21	C	65	225	0.025	4.41	3.1	3	0.5	270	250	1.5	6	0.91	0.05	78	63	4	3	120	
7006	2013	01M/13	576990	5309663	21	C	60	256	0.06	6.98	1.4	1	0.5	290	321	3.6	16	1.87	0.05	18	14	1	0.5	29	
7007	2013	01M/13	577333	5308796	21	C	60	262	0.025	4.86	8.6	8	0.5	320	299	1.4	24	0.59	0.05	76	60	10	7	110	
7008	2013	01M/13	577070	5307771	21	C	50	230	0.025	4.48	13	11	2	310	274	1.4	6	0.8	0.05	67	54	8	5	180	
7009	2013	01M/13	577153	5306263	21	C	60	280	0.025	4.96	11	10	0.5	320	295	1.7	18	0.77	0.05	86	73	13	9	300	
7010	2013	01M/13	578936	5307754	21	C	40	241	0.025	5.5	10	10	3	260	281	1.5	59	0.62	0.05	82	68	7	6	230	
7011	2013	01M/13	580113	5307663	21	C	60	267	0.025	4.86	10	10	0.5	290	276	1.4	34	0.6	0.05	59	53	7	5	260	
7012	2013	01M/13	581797	5307509	21	C	65	237	0.025	5.02	8.5	8	0.5	290	292	1.9	41	0.58	0.05	50	44	4	4	240	
7013	2013	01M/13	582089	5308659	21	C	60	243	0.025	5.42	13	12	0.5	360	324	1.7	8	0.61	0.05	79	62	12	9	250	
7014	2013	01M/13	582664	5309711	21	C	65	219	0.12	5.9	10	9	0.5	320	314	1.8	20	0.87	0.1	120	92	17	13	150	
7015	2013	01M/13	583700	5310256	21	C	70	214	0.025	5.59	25	22	0.5	250	260	1.5	83	0.54	0.05	80	58	7	5	290	
7016	2013	01M/13	584152	5311001	21	C	70	217	0.08	5.95	231	214	0.5	400	431	1.7	14	0.4	0.05	57	50	8	6	160	
7017	2013	01M/13	584678	5311816	21	C	60	243	0.025	4.57	10	8	0.5	290	267	1.5	16	0.74	0.05	65	48	6	5	230	
7018	2013	01M/13	585486	5312633	21	C	40	268	0.025	4.86	5.5	5	0.5	300	279	1.6	4	0.69	0.05	64	46	6	4	260	
7020	2013	01M/13	586071	5313608	21	C	45	281	0.025	5.11	12	10	0.5	310	289	1.6	12	0.69	0.05	60	51	8	5	280	
7021	2013	01M/13	603232	5305330	21	C	55	191	0.07	7.47	102	90	4	690	745	2.3	25	0.21	0.05	150	142	50	35	100	
7022	2013	01M/13	603783	5305964	21	C	65	188	0.15	7.29	62.2	60	0.5	780	853	2.2	56	0.18	0.2	100	104	19	15	83	
7023	2013	01M/13	604594	5306486	21	C	60	189	0.025	5.98	64.3	59	0.5	660	707	1.7	34	0.2	0.05	71	61	12	9	110	
7024	2013	01M/13	605574	5306400	21	C	65	165	0.06	6	104	101	3	570	620	1.3	48	0.14	0.05	31	33	4	3	130	
7025	2013	01M/13	606417	5306605	21	C	65	189	0.025	9.04	84.5	84	4	320	348	1.4	159	0.3	0.05	53	56	10	7	93	
7026	2013	01M/13	605705	5308652	21	C	65	170	0.025	6.12	62	56	0.5	590	604	1.7	30	0.26	0.05	100	82	19	25	110	
7027	2013	01M/13	603822	5316755	21	C	60	127	0.025	6.04	41	35	0.5	390	396	1.7	8	0.48	0.1	64	56	13	16	150	
7028	2013	01M/13	603777	5315886	21	C	60	118	0.025	5.71	29	26	0.5	350	369	1.4	66	0.33	0.05	41	33	7	5	140	
7029	2013	01M/13	603774	5314532	21	C	65	109	0.06	5.96	134	115	4	440	405	1.9	3	0.39	0.1	78	77	25	18	140	
7030	2013	01M/13	603744	5313495	21	C	60	106	0.025	5.73	69.7	59	0.5	390	368	1.6	32	0.38	0.1	74	64	23	16	130	
7031	2013	01M/13	603126	5312759	21	C	65	108	0.09	6.76	143	124	0.5	680	653	1.6	66	0.3	0.05	62	60	16	12	140	
7032	2013	01M/13	602388	5312123	21	C	65	168	0.06	5.94	171	158	0.5	300	316	1.6	62	0.35	0.05	66	58	16	11	160	
7033	2013	01M/13	602933	5313821	21	C	65	142	0.025	4.9	101	86	3	290	291	1.6	14	0.4	0.05	85	74	16	11	200	
7034	2013	01M/13	602081	5313902	21	C	65	140	0.025	5.92	47	43	5	350	330	1.6	92	0.34	0.05	46	38	8	6	150	
7035	2013	01M/13	601989	5312866	21	C	50	195	0.025	6.27	130	115	3	400	386	2	13	0.37	0.05	150	120	26	21	190	
7036	2013	11P/09	566201	5261252	21	C	65	110	0.025	7.43	6.4	6	0.5	230	247	4.5	84	0.53	0.1	435	331	11	7	41	
7037	2013	11P/09	564576	5261506	21	C	50	48	0.025	8	1.1	3	0.5	390	432	3.3	131	1.26	0.1	32	34	7	5	49	
7038	2013	11P/09	572343	5261388	21	C	40	45	0.025	7.84	3.8	3	0.5	310	344	3.5	69	1.76	0.1	92	79	18	11	76	
7039	2013	01M/13	592469	5300628	21	C	60	23	0.025	6.03	87.9	79	3	680	690	1.9	17	0.28	0.1	100	85	31	23	170	
7041	2013	01M/13	592996	5301461	21	C	65	119	0.12	10.18	74.3	71	3	1100	1084	2.8	16	0.05	0.05	88	87	9	7	130	
7042	2013	01M/13	593950	5301460	21	C	65	71	0.025	5.62	39	35	0.5	580	604	1.6	26	0.11	0.05	40	36	4	3	130	
7043	2013	01M/13	594542	5302292	21	C	50	151	0.025	6.23	72.9	61	3	660	613	2	8	0.31	0.1	97	80	26	18	160	
7044	2013	01M/13	595811	5303371	21	C	70	102	0.07	6.39	170	145	2	790	786	2	16	0.14	0.05	150	123	34	23	110	
7045	2013	01M/13	595652	5301029	21	C	60	44	0.07	6.95	22	20	0.5	430	451	2.1	62	0.05	0.05	34	34	10	8	130	
7046	2013	01M/13	595847	5301676	21	C	55	171	0.025	6.56	44	38	0.5	470	442	1.9	16	0.07	0.05	150	114	34	24	120	
7047	2013	01M/13	596155	5302498	21	C	55	202	0.06	7.06	38	35	5	480	465	1.8	128	0.12	0.1	63	58	19	28	140	
7048	2013	01M/13	602234	5305522	21	C	70	192	0.025	6.08	81.4	69	3	540	538	1.7	23	0.25	0.05	92	71	29	20	130	
7049	2013	01M/13	601240	5305340	21	C	65	175	0.025	7.21	32	30	0.5	11200	13252	2.5	35	0.04	0.05	18	24	4	4	100	
7050	2013	01M/13	600406	5304896	21	C	50	213	0.025	7.59	90.3	79	0.5	650	619	2.3	13	0.11	0.1	100	108	28	20	110	

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST	UTMNORTH	UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm	
7051	2013	01M/13	596969	5303915	21	C	50	221	0.025	6.13	65.1	59	3	480	485	1.9	25	0.44	0.2	130	110	31	24	200
7052	2013	01M/13	599826	5304275	21	C	65	76	0.09	6.94	35	32	0.5	550	537	2.1	44	0.04	0.1	72	59	15	11	110
7053	2013	01M/13	598035	5301121	21	C	60	198	0.2	7.25	50	45	2	570	608	1.9	50	0.12	0.1	46	47	10	7	130
7054	2013	01M/13	598344	5301929	21	C	50	47	0.025	7.72	24	24	0.5	600	630	2.2	104	0.04	0.1	31	26	7	5	120
7055	2013	01M/13	598982	5302673	21	C	60	108	0.06	7.55	53.8	53	2	490	539	2	76	0.04	0.05	44	46	7	5	100
7056	2013	01M/13	599320	5303844	21	C	65	175	0.2	7.78	21	20	0.5	570	586	2.2	68	0.03	0.05	62	52	17	12	130
7057	2013	01M/13	598330	5303415	21	C	65	210	0.025	10.83	47	49	6	2500	3308	2.3	184	0.04	0.05	130	117	67	51	130
7058	2013	01M/13	597606	5302824	21	C	60	183	0.19	7.46	71.7	68	0.5	360	423	2	85	0.05	0.1	42	45	16	12	120
7059	2013	01M/13	598085	5304364	21	C	65	192	0.06	7.29	70.1	66	2	460	462	2.1	82	0.15	0.2	120	96	25	23	140
7061	2013	01M/13	598855	5305195	21	C	65	93	0.15	6.54	29	26	2	1000	1067	1.9	35	0.03	0.2	76	64	29	25	110
7062	2013	01M/13	599461	5305850	21	C	55	125	0.025	5.67	128	115	0.5	460	425	1.6	39	0.26	0.2	130	100	21	17	230
7063	2013	01M/13	600213	5306628	21	C	65	105	0.25	5.79	61.9	62	3	440	448	1.7	116	0.2	0.1	65	57	9	8	130
7064	2013	01M/13	600931	5307205	21	C	65	136	0.11	6.08	73	67	0.5	490	491	1.7	57	0.23	0.1	110	87	18	13	130
7065	2013	01M/13	602149	5308102	21	C	65	122	0.1	6.07	396	378	3	430	462	1.5	90	0.12	0.3	42	53	8	7	120
7066	2013	01M/13	603365	5309040	21	C	65	128	0.025	5.79	74.9	64	3	450	420	1.9	14	0.38	0.05	110	88	11	9	160
7067	2013	01M/13	597107	5305325	21	C	45	170	0.26	3.43	48	43	0.5	910	892	0.9	8	0.05	0.05	96	76	11	8	680
7068	2013	01M/13	596615	5304526	21	C	55	169	0.025	7.24	118	108	0.5	1200	1150	2.2	36	0.16	0.2	150	125	33	27	140
7069	2013	01M/12	607493	5284359	21	C	65	91	0.025	6.13	3.7	3	0.5	320	297	4.8	19	0.7	0.05	49	40	3	2	36
7070	2013	01M/12	608534	5284823	21	C	40	180	0.025	8.09	11	10	13	580	523	5.2	2	0.67	0.1	110	91	10	8	34
7071	2013	01M/12	609062	5285812	21	C	55	161	0.025	4.84	1.1	1	0.5	350	317	3.4	20	0.56	0.05	45	38	1	1	30
7072	2013	01M/12	609345	5286909	21	C	35	214	0.025	6.74	1.3	1	0.5	580	576	4.4	35	0.68	0.05	62	47	1	0.5	36
7073	2013	01M/12	608995	5288139	21	C	35	207	0.025	5.3	2.5	1	0.5	270	281	4.7	25	0.74	0.05	73	58	4	3	61
7074	2013	01M/12	608148	5288961	21	C	40	181	0.025	6.17	3.5	3	0.5	360	345	5.6	12	0.92	0.1	84	65	8	6	65
7075	2013	01M/11	619579	5264109	21	C	55	195	0.025	5.96	6.7	6	0.5	480	456	2.2	20	1.01	0.2	100	81	9	7	37
7076	2013	01M/11	619611	5262744	21	C	65	91	0.025	6.22	10	10	6	670	770	1.7	62	1.17	0.1	50	53	4	2	17
7077	2013	01M/11	615426	5262276	21	BC	55	210	0.025	7.86	4.1	4	0.5	630	565	3.5	67	1.67	0.1	150	125	14	11	41
7078	2013	01M/11	614594	5263303	21	C	70	105	0.025	7.41	2.9	2	0.5	700	658	2.7	16	1.47	0.2	96	102	11	8	17
7079	2013	01M/11	613289	5267036	21	BC	60	134	0.025	8.77	19	16	0.5	460	443	2.3	49	1.41	0.2	67	62	20	15	38
7081	2013	01M/11	613331	5269017	21	C	60	141	0.025	7.84	15	14	0.5	450	447	2.7	9	0.62	0.1	74	61	11	9	76
7082	2013	01M/12	612449	5270198	21	C	60	108	0.1	8.11	13	14	0.5	250	282	3.7	51	0.24	0.1	130	111	5	3	21
7083	2013	01M/12	611874	5271295	21	BC	40	120	0.025	6.4	5.9	6	0.5	340	354	2.8	69	0.72	0.05	77	65	4	3	47
7084	2013	01M/12	611670	5272751	21	C	40	182	0.06	6.53	9.4	8	2	290	308	2.3	82	0.75	0.1	50	44	8	5	53
7085	2013	01M/12	611189	5273764	21	C	40	206	0.025	6.34	2.9	3	7	310	325	2.6	129	1.1	0.1	56	45	10	5	62
7086	2013	01M/12	611633	5275833	21	C	40	173	0.025	4.73	1.5	1	5	330	354	1.9	86	0.47	0.05	48	31	1	2	41
7087	2013	01M/12	611919	5277057	21	C	40	183	0.025	5.66	4.1	3	3	320	295	3.8	66	1.01	0.05	49	38	5	4	43
7088	2013	01M/12	612061	5278091	21	C	65	233	0.025	5.4	1	1	0.5	380	338	2.2	211	0.56	0.05	37	37	4	2	38
7089	2013	01M/12	610729	5278639	21	C	35	211	0.025	6.17	6.2	6	0.5	380	327	2.6	77	1.01	0.05	63	48	11	7	63
7090	2013	01M/13	585706	5308121	21	C	40	315	0.05	8.45	51.4	49	0.5	520	560	2.5	93	0.05	0.2	79	72	36	30	120
7091	2013	01M/13	585753	5307383	21	C	60	168	0.06	7.53	57.8	58	0.5	530	545	2.1	69	0.02	0.1	82	71	8	4	97
7092	2013	01M/13	586141	5306586	21	C	60	140	0.025	7.33	29	27	0.5	520	542	2.1	30	0.06	0.1	66	56	10	7	130
7093	2013	01M/13	586942	5306934	21	C	60	70	0.11	6.38	50.2	49	0.5	330	385	1.9	36	0.28	0.2	140	106	17	13	140
7094	2013	01M/13	586258	5305772	21	C	60	110	0.025	7.38	75.7	78	4	390	446	2.3	51	0.08	0.2	110	90	20	16	92
7095	2013	01M/13	593111	5302873	21	C	60	90	0.07	8.16	55.6	52	0.5	540	567	2.5	35	0.05	0.2	85	73	32	25	110
7096	2013	01M/13	593823	5303571	21	C	60	76	0.09	7.27	21	20	0.5	450	518	2.2	35	0.04	0.1	82	74	18	15	95
7097	2013	01M/13	592998	5303959	21	C	65	84	0.14	6.38	31	28	2	360	355	1.7	56	0.07	0.1	80	64	16	12	120
7098	2013	01M/13	592297	5304985	21	C	45	160	0.08	5.17	54.7	51	0.5	320	335	1.4	28	0.29	0.1	53	46	12	11	130
7099	2013	01M/13	591488	5305394	21	BC	65	138	0.05	6.77	40	37	3	350	345	1.8	117	0.14	0.2	55	46	18	14	120
7101	2013	01M/12	610844	5279944	21	BC	60	90	0.06	5.67	3.4	3	51	200	220	1.4	117	2.26	0.1	52	39	8	5	150

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST	UTMNORTH	UTMZONE	Soil	Depth	Elevation	Ag6	Al2	As1	As2	Au1	Ba1	Ba2	Be2	Br1	Ca2	Cd2	Ce1	Co1	Co2	Cr1	
			NAD 27	NAD 27	NAD 27	Horizon	cm	m	ppm	pct	ppm	ppm	ppb	ppm	ppm	ppm	ppm	pct	ppm	ppm	ppm	ppm	ppm	
7102	2013	01M/12	610093	5280843	21	C	40	176	0.025	5.59	1.7	1	0.5	310	327	2.6	19	0.72	0.05	36	27	3	2	60
7103	2013	01M/12	606985	5283535	21		40	195	0.025	9.45	3.6	3	0.5	250	242	5.2	15	0.28	0.1	93	74	30	22	230
7104	2013	01M/13	606698	5308020	21	C	65	161	0.07	5.64	93	81	0.5	570	553	1.6	23	0.3	0.05	91	69	27	19	150
7105	2013	01M/13	605493	5309642	21	C	60	178	0.1	7.01	96.7	85	0.5	3200	2946	2.1	22	0.12	0.1	93	77	52	40	130
7106	2013	01M/13	603404	5312011	21	C	60	192	0.06	5.77	67.5	58	0.5	510	487	1.8	6	0.28	0.05	67	61	22	18	120
7107	2013	01M/13	606700	5305732	21	C	60	168	0.025	5.75	157	59	6	560	486	1.7	25	0.28	0.05	82	60	19	18	110
7108	2013	01M/13	606989	5304522	21	C	60	215	0.025	4.84	149	129	3	470	432	1.5	13	0.4	0.05	95	71	20	15	130
7109	2013	01M/13	606742	5303243	21	C	45	250	0.025	5.47	5.3	5	0.5	470	469	1.5	7	0.08	0.05	21	18	1	0.5	5
7110	2013	01M/13	606259	5302210	21	C	65	283	0.85	11.13	34	32	0.5	510	565	2.5	26	0.21	0.1	82	79	5	2	120
7111	2013	01M/13	604492	5310160	21	C	40	318	0.025	6.12	142	121	4	680	620	2	6	0.28	0.1	160	124	49	37	190
7112	2013	01M/13	603959	5310796	21	C	65	173	0.025	4.95	99	80	2	540	445	1.5	9	0.39	0.05	99	75	33	23	150
7113	2013	01M/13	584161	5306324	21	C	60	167	0.14	6.27	63.5	62	3	360	362	1.7	118	0.6	0.1	57	40	10	6	87
7114	2013	01M/13	584841	5306791	21	C	65	220	0.1	5.82	50	46	5	360	411	1.6	19	0.03	0.1	78	68	14	11	75
7115	2013	01M/13	584959	5307676	21	C	60	247	0.09	7.75	40	38	9	520	534	2.3	46	0.04	0.2	74	70	20	16	110
7116	2013	01M/13	584515	5309567	21	C	60	238	0.025	7.58	39	36	0.5	410	435	2.1	42	0.21	0.05	80	74	22	18	160
7117	2013	01M/13	585962	5309754	21	C	50	372	0.08	7.58	153	141	15	580	603	2.5	10	0.07	0.1	91	74	34	28	140
7118	2013	01M/13	585609	5309142	21	C	60	237	0.025	7.18	28	27	0.5	460	451	2.1	62	0.24	0.1	78	58	18	14	160
7119	2013	02D/04	589287	5316925	21	C	60	253	0.025	5.57	17	14	0.5	290	295	1.7	14	0.61	0.05	77	56	17	12	410
7121	2013	02D/04	588494	5321110	21	C	55	132	0.025	6	8.4	8	0.5	260	297	1.6	64	0.49	0.05	130	102	12	8	170
7122	2013	02D/04	588689	5320233	21	C	55	212	0.025	4.59	21	18	0.5	310	258	1.4	5	0.7	0.05	70	56	14	9	390
7123	2013	02D/04	588694	5320237	21	C	55	230	0.025	4.37	12	10	0.5	250	235	1.3	6	0.71	0.05	59	49	7	5	310
7124	2013	02D/04	589016	5318216	21	C	55	227	0.025	4.72	20	18	0.5	240	228	1.5	16	0.62	0.05	72	59	11	7	290
7125	2013	01M/13	589444	5316296	21	C	50	183	0.025	5.02	21	17	1	320	267	1.5	12	0.61	0.05	75	62	13	9	330
7126	2013	01M/13	588574	5315283	21	C	65	55	0.025	5.06	19	16	0.5	280	270	1.7	5	0.69	0.05	67	56	12	9	270
7127	2013	02D/04	590732	5320307	21	C	65	153	0.025	4.81	58.2	46	0.5	270	247	1.7	2	0.79	0.05	99	72	15	10	650
7128	2013	02D/04	591502	5321857	21	C	65	120	0.025	4.56	14	12	1	250	235	1.4	11	0.66	0.05	59	46	12	8	500
7129	2013	02D/04	593442	5324132	21	C	60	190	0.025	4.76	12	11	4	210	211	1.4	17	0.59	0.05	67	51	8	5	370
7130	2013	02D/04	592799	5323357	21	C	55	232	0.025	5.44	15	13	0.5	280	285	1.8	26	0.75	0.05	110	85	12	8	300
7131	2013	02D/04	592193	5322777	21	C	60	237	0.025	4.83	18	15	2	300	267	1.4	8	0.59	0.05	73	57	12	7	240
7132	2013	02D/04	590232	5319508	21	C	60	222	0.025	5.61	13	10	0.5	350	327	1.7	7	0.58	0.05	73	58	15	10	330
7133	2013	02D/04	590173	5318646	21	C	60	104	0.025	5.7	55.5	47	0.5	290	294	1.9	12	0.77	0.05	150	108	19	13	340
7134	2013	02D/04	589932	5317581	21	C	60	86	0.05	6.13	18	17	0.5	260	269	1.9	52	0.64	0.05	84	71	11	9	280
7135	2013	01M/13	585746	5295209	21	C	60	71	0.025	5.77	3	3	2	450	487	2	8	0.24	0.05	91	60	3	0.5	52
7136	2013	01M/13	585083	5295864	21	C	55	43	0.025	5.72	16	15	0.5	300	313	2.1	13	0.36	0.05	66	29	9	6	59
7137	2013	01M/13	584457	5296630	21	C	55	67	0.025	8.17	74.3	70	2	460	490	2.7	30	0.29	0.05	110	53	26	20	130
7139	2013	01M/13	584769	5297448	21	C	50	196	0.025	7.18	24	22	2	660	677	2.7	5	0.48	0.05	120	93	13	10	130
7140	2013	01M/13	585060	5298335	21	C	50	196	0.11	6.49	149	130	5	700	656	2	31	0.35	0.05	130	98	19	14	120
7141	2013	01M/13	585581	5299048	21	C	60	159	0.18	7.32	32	29	0.5	400	446	2.2	86	0.57	0.05	56	47	14	10	92
7142	2013	01M/13	585931	5299826	21	C	55	121	0.09	6.97	42	39	0.5	380	418	2.1	28	0.5	0.1	130	104	21	18	110
7146	2013	01M/13	593094	5307018	21	C	50	-9	0.18	8.02	109	104	5	460	468	2.3	43	0.05	0.1	80	68	34	27	130
7147	2013	01M/13	587160	5305608	21	C	55	177	0.025	6.13	17	16	0.5	400	406	1.6	18	0.02	0.05	89	70	1	1	110
7148	2013	01M/13	588824	5306873	21	C	50	420	0.07	6.29	20	19	0.5	380	427	1.8	20	0.02	0.05	83	60	8	6	110
7149	2013	01M/13	589241	5307771	21	C	50	289	0.025	4.98	26	24	0.5	230	224	1.3	23	0.39	0.05	52	43	9	5	330
7150	2013	01M/13	589756	5308521	21	C	50	151	0.05	6.75	55.2	52	0.5	370	399	1.8	20	0.02	0.05	96	73	13	10	110
7151	2013	01M/13	590636	5309273	21	C	50	358	0.025	5.93	27	25	0.5	300	292	1.8	31	0.68	0.05	73	58	13	10	210
7152	2013	01M/13	590635	5309279	21	C	50	430	0.025	5.84	27	25	0.5	280	282	1.7	23	0.74	0.05	61	48	13	9	210
7154	2013	01M/13	590559	5312406	21	C	50	144	0.025	5.88	28	25	0.5	260	271	1.8	52	0.53	0.1	130	97	11	8	220
7155	2013	01M/13	590891	5311205	21	C	50	177	0.025	5.1	23	21	0.5	280	275	1.6	13	0.79	0.05	75	61	13	10	240

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST		UTMNORTH		UTMZONE	Soil	Depth	Elevation	Ag6	Al2	As1	As2	Au1	Ba1	Ba2	Be2	Br1	Ca2	Cd2	Ce1	Co1	Co2	Cr1
			NAD 27	NAD 27	NAD 27	Horizon																			
7156	2013	01M/13	589920	5313885	21	C	50	151	0.025	5.92	18	16	0.5	350	362	1.8	2	0.55	0.05	73	67	13	10	180	
7157	2013	01M/13	590288	5313028	21	C	50	144	0.025	5.27	31	27	2	260	260	1.6	29	0.72	0.05	67	57	12	8	330	
7158	2013	01M/13	591799	5311952	21	C	50	154	0.26	6.3	19	19	0.5	380	444	1.5	35	0.19	0.1	65	50	5	4	130	
7159	2013	01M/13	591752	5312941	21	C	50	318	0.025	5.25	29	26	0.5	230	228	1.7	29	0.86	0.05	65	51	11	7	300	
7160	2013	01M/13	591709	5313475	21	C	50	207	0.025	6.63	23	21	0.5	500	521	1.8	2	0.03	0.05	98	60	7	5	120	
7161	2013	01M/13	591852	5314495	21	C	50	344	0.025	5.3	44	38	2	270	264	1.6	4	0.75	0.05	76	59	13	8	310	
7162	2013	01M/13	591785	5315469	21	C	55	214	0.07	8.94	19	17	0.5	580	598	2.5	89	0.06	0.1	120	56	17	12	160	
7164	2013	01M/13	591737	5316446	21	C	65	242	0.025	8.03	30	28	0.5	590	618	2.2	40	0.04	0.05	93	66	7	5	130	
7165	2013	01M/13	594410	5308506	21	C	55	52	0.06	6.21	230	205	3	470	445	2	2	0.63	0.05	130	122	48	37	140	
7166	2013	01M/13	596735	5309589	21	C	60	180	0.025	5.97	38	35	0.5	230	252	1.4	121	0.34	0.05	52	35	9	5	190	
7167	2013	01M/13	598120	5310109	21	C	60	214	0.025	4.98	71	62	2	280	263	1.5	25	0.58	0.05	89	69	16	11	200	
7168	2013	01M/13	599129	5310651	21	C	55	242	0.07	6.65	69	65	5	370	366	1.9	52	0.11	0.05	74	55	18	14	110	
7169	2013	01M/13	600305	5311006	21	C	60	293	0.025	6.1	79.1	66	0.5	420	390	1.8	14	0.21	0.05	110	90	25	18	140	
7170	2013	01M/13	601375	5311477	21	C	55	59	0.08	6.06	100	90	2	410	414	1.8	27	0.24	0.05	85	62	26	19	140	
7171	2013	01M/13	595400	5309367	21	C	50	71	0.025	6.01	65.5	63	4	350	352	1.7	55	0.38	0.05	44	43	8	6	140	
7172	2013	01M/13	590475	5313231	21	C	60	32	0.025	6.87	49	43	0.5	340	333	1.8	27	0.51	0.05	150	118	22	16	140	
7173	2013	12A/01	570678	5316632	21	C	55	36	0.08	7.11	11	9	0.5	280	288	1.8	45	1.04	0.05	50	41	9	6	140	
7174	2013	12A/01	566505	5321758	21	C	55	234	0.025	6.16	4.7	5	0.5	310	329	1.9	45	1.59	0.05	99	85	12	9	290	
7175	2013	12A/01	559524	5344110	21	C	60	251	0.025	5.88	7.3	6	0.5	400	369	1.8	12	1.19	0.05	95	68	7	5	70	
7176	2013	12A/01	559254	5343177	21	C	55	317	0.025	5.97	42	36	0.5	460	449	1.8	9	0.77	0.05	95	62	7	5	53	
7177	2013	12A/01	560399	5343006	21	C	55	317	0.11	5.61	15	13	0.5	550	521	1.6	22	0.75	0.05	70	52	14	11	210	
7178	2013	12A/01	559090	5342225	21	C	55	300	0.025	7.58	88.4	81	0.5	460	483	2	16	0.54	0.05	99	64	14	10	77	
7179	2013	12A/01	558899	5340983	21	C	55	300	0.025	5.45	7.7	6	0.5	400	365	1.6	15	1.1	0.05	73	36	6	4	45	
7182	2013	12A/01	558789	5338302	21	C	55	264	0.025	5.54	6	5	0.5	280	297	1.4	19	0.82	0.05	57	29	4	4	59	
7183	2013	12A/01	558646	5337468	21	C	55	259	0.025	5.71	7	6	3	320	340	1.6	19	1	0.05	73	40	5	4	68	
7184	2013	12A/01	558672	5336793	21	C	60	260	0.025	6	10	10	0.5	330	348	1.7	11	1.06	0.05	90	53	6	5	80	
7185	2013	01M/13	582048	5306485	21	C	50	262	0.07	6.52	21	20	0.5	950	984	1.3	35	0.52	0.05	69	35	7	5	180	
7186	2013	01M/13	582646	5305926	21	C	50	170	0.025	6	22	19	0.5	440	437	1.7	31	0.74	0.05	70	51	9	6	350	
7187	2013	01M/13	583023	5305073	21	C	55	138	0.05	6.25	59	54	0.5	610	629	2	30	1.36	0.05	110	91	10	7	140	
7188	2013	01M/13	583784	5304309	21	C	45	116	0.22	7.01	53.2	53	3	450	497	1.9	40	0.72	0.1	45	44	9	7	96	
7189	2013	01M/13	584674	5303855	21	C	50	100	0.19	8.31	88.1	86	3	400	445	2.2	32	0.43	0.05	110	112	22	17	150	
7190	2013	12A/01	559530	5336209	21	C	45	73	0.025	5.23	11	9	0.5	410	380	1.6	0.5	1.36	0.05	85	48	8	5	120	
7191	2013	12A/01	560635	5336504	21	C	50	278	0.025	5.54	6.9	6	0.5	410	378	1.7	2	1.27	0.05	86	57	7	5	63	
7192	2013	12A/01	561891	5336102	21	C	50	280	0.025	6.82	155	153	0.5	360	413	1.7	41	0.87	0.05	92	81	14	10	110	
7193	2013	12A/01	561653	5335202	21	C	60	236	0.025	7.1	14	12	0.5	290	303	1.8	34	1.03	0.2	56	36	11	7	190	
7194	2013	12A/01	561401	5334228	21	BC	40	242	0.1	6.77	6.9	6	0.5	310	345	1.7	29	0.84	0.1	61	47	11	7	160	
7195	2013	12A/01	561921	5333447	21	C	60	236	0.025	6.2	9	8	0.5	350	358	1.6	14	1.29	0.05	95	64	14	9	200	
7196	2013	12A/01	562570	5332812	21	C	50	237	0.025	5.62	6	5	2	350	329	1.5	27	1.24	0.05	70	48	9	6	200	
7197	2013	12A/01	567250	5331860	21	C	55	232	0.025	5.6	14	12	2	420	397	1.6	1	1.2	0.1	85	65	32	24	650	
7198	2013	12A/01	566393	5332575	21	C	60	278	0.025	4.63	22	17	22	320	294	1.2	2	1.49	0.05	73	49	16	14	780	
7199	2013	12A/01	565622	5332939	21	C	60	253	0.025	5.77	40	33	0.5	430	381	1.6	10	1.5	0.1	78	57	19	14	390	
7201	2013	12A/01	564594	5332638	21	C	60	253	0.025	6.18	50	42	0.5	400	370	1.8	25	1.15	0.05	78	54	13	10	280	
7202	2013	12A/01	563630	5332509	21	BC	55	271	0.025	5.93	33	27	3	360	332	1.4	25	1.07	0.05	54	39	13	10	260	
7203	2013	12A/01	561982	5332258	21	C	65	282	0.07	5.36	12	10	7	340	320	1.2	34	1.03	0.05	61	44	12	9	360	
7204	2013	12A/01	561554	5331557	21	C	55	222	0.025	5.54	14	12	0.5	380	365	1.6	20	1.38	0.05	86	55	12	9	170	
7205	2013	01M/13	586604	5314283	21	C	65	244	0.025	5.02	17	15	0.5	340	322	1.6	7	0.55	0.05	55	43	8	7	200	
7206	2013	01M/13	587377	5314970	21	C	50	259	0.025	4.44	6.2	5	0.5	260	238	1.5	6	0.71	0.05	71	58	8	6	290	
7207	2013	12A/01	561749	5330644	21	C	50	225	0.025	5.61	3.2	3	0.5	440	381	1.5	5	1.21	0.05	85	61	11	8	160	

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST NAD 27	UTMNORTH NAD 27	UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm	
7208	2013	12A/01	562365	5329906	21	C	60	243	0.025	4.81	14	11	0.5	350	319	1.2	14	1.07	0.05	60	45	11	8	250
7209	2013	12A/01	563148	5329161	21	C	60	252	0.025	5.81	24	19	0.5	350	315	1.5	9	1.22	0.1	69	53	16	13	380
7210	2013	12A/01	563673	5327735	21	C	45	249	0.025	5.43	10	7	0.5	290	266	1.5	36	1.2	0.1	55	36	7	6	350
7211	2013	12A/01	564582	5327232	21	BC	40	249	0.18	7.82	111	95	0.5	490	426	3	41	1.91	0.1	77	61	18	14	140
7212	2013	12A/01	565241	5326524	21	C	50	250	0.025	5.24	10	9	0.5	300	273	1.6	30	1.32	0.05	58	45	12	9	580
7213	2013	12A/01	565504	5325235	21	C	50	242	0.05	6.32	23	20	0.5	360	321	2.6	34	1.74	0.05	88	69	14	10	280
7214	2013	12A/01	566283	5324461	21	C	55	241	0.09	6.35	62.4	56	0.5	290	314	2.8	35	1.56	0.1	94	73	13	10	250
7215	2013	12A/01	566694	5323658	21	C	50	259	0.09	6.1	20	18	0.5	460	424	2.2	27	1.43	0.05	90	71	11	8	160
7216	2013	12A/01	566872	5322571	21	C	55	240	0.08	6.46	5.8	6	0.5	360	340	2.1	66	1.49	0.05	110	86	13	10	240
7217	2013	12A/01	566243	5320769	21	C	50	254	0.07	6.2	40	36	3	260	265	2.1	44	1.15	0.1	130	95	13	10	450
7218	2013	12A/01	566939	5320092	21	BC	45	236	0.11	6.48	2.8	3	0.5	420	380	2	15	1.47	0.05	98	92	17	12	170
7219	2013	12A/01	568040	5319007	21	C	55	259	0.025	4.57	10	9	0.5	240	220	1.7	32	0.96	0.05	75	65	8	5	340
7220	2013	12A/01	569152	5318988	21	C	55	254	0.025	4.42	11	9	0.5	290	219	1.7	29	0.93	0.05	80	65	9	5	270
7222	2013	12A/01	569950	5318113	21	C	55	286	0.025	4.45	4.3	4	0.5	280	233	1.9	7	0.99	0.05	88	67	7	4	220
7223	2013	11P/16	571613	5315119	21	C	50	253	0.025	4.09	7.7	6	0.5	200	190	1.3	25	0.8	0.05	66	49	6	4	170
7224	2013	11P/16	572487	5315547	21	C	55	255	0.025	4.92	3.4	3	0.5	240	218	1.8	26	0.99	0.05	66	37	6	4	160
7225	2013	11P/16	573394	5315278	21	C	60	243	0.025	4.19	2.8	2	0.5	260	233	1.6	8	1.12	0.05	75	47	6	4	160
7226	2013	01M/13	583779	5300593	21	C	60	230	0.32	6.08	85.7	75	0.5	310	286	1.8	19	1.15	0.1	100	97	25	20	120
7227	2013	01M/13	584582	5300765	21	BC	40	277	0.18	5.86	34	31	0.5	350	366	1.5	122	0.55	0.05	45	35	5	4	100
7228	2013	01M/13	585541	5300979	21	C	50	237	0.08	6.66	25	24	0.5	360	371	1.9	120	0.39	0.05	82	65	9	7	94
7229	2013	01M/13	586223	5300860	21	C	60	189	0.09	6.39	40	36	0.5	340	351	1.9	91	0.23	0.1	86	60	26	19	120
7230	2013	01M/13	589532	5313029	21	C	65	126	0.08	5.07	24	23	13	220	215	1.5	79	0.6	0.05	55	41	14	11	250
7231	2013	01M/13	605657	5312801	21	C	60	200	0.06	6.4	147	138	0.5	240	280	1.4	93	0.14	0.05	63	51	29	24	94
7232	2013	01M/13	604814	5311977	21	C	50	193	0.07	6.09	37	34	0.5	710	737	1.7	37	0.14	0.05	56	46	11	10	110
7001	2014	02D/12	596122	5386681	21	C	60	221	0.025	4.99	12	12	0.5	340	338	1.5	25	0.53	0.05	89	77	6	6	82
7002	2014	02D/12	595221	5386833	21	C	65	226	0.025	4.19	6.5	7	0.5	260	253	1.4	2	0.9	0.05	78	56	9	6	86
7003	2014	02D/12	577804	5388463	21	C	65	251	0.025	5.46	8.9	9	0.5	520	513	1.5	17	0.76	0.05	110	76	5	10	53
7004	2014	02D/12	578628	5388844	21	BC	55	243	0.3	7.4	17	18	2	230	238	1.4	56	0.38	0.4	33	47	4	5	81
7005	2014	02D/12	579096	5389849	21	C	65	251	0.025	5.31	6.3	5	0.5	480	476	1.2	5	0.57	0.1	84	59	5	5	59
7006	2014	02D/12	576502	5393208	21	C	60	290	0.025	5.58	11	11	0.5	290	292	1.3	33	0.77	0.05	46	39	4	4	48
7007	2014	02D/12	576640	5394293	21	C	65	326	0.025	5.08	6.4	7	0.5	430	432	1.4	9	0.71	0.05	82	64	4	3	36
7008	2014	02D/12	575748	5394163	21	C	65	297	0.025	5.16	4.6	5	0.5	450	414	1.4	12	0.63	0.05	80	49	1	2	16
7009	2014	02D/12	576670	5395404	21	C	65	295	0.025	5.4	15	11	2	380	302	1.4	16	0.75	0.05	110	58	9	7	71
7010	2014	02D/12	574463	5393876	21	C	60	265	0.025	6.08	91.4	52	5	400	255	1.6	21	1.1	0.2	160	66	29	15	180
7011	2014	02D/12	577820	5396739	21	C	60	296	0.025	6.55	13	12	7	310	299	1.7	20	0.72	0.2	85	52	10	9	70
7012	2014	02D/12	577015	5396762	21	C	60	303	0.025	4.66	8.3	8	0.5	360	344	1.3	2	0.7	0.05	75	50	5	4	34
7013	2014	02D/12	577444	5397884	21	C	65	317	0.025	4.79	10	9	0.5	370	346	1.5	3	0.63	0.05	71	51	5	4	33
7014	2014	02D/12	578229	5399093	21	C	65	286	0.025	4.7	9	9	0.5	350	338	1.2	10	0.61	0.05	66	43	4	4	29
7015	2014	02D/11	611980	5396435	21	C	60	211	0.025	4.22	8	8	2	270	271	1.2	19	0.26	0.05	57	54	5	4	97
7016	2014	02D/11	610966	5396795	21	C	65	214	0.025	4.42	8.5	8	1	260	272	1.3	2	0.2	0.05	70	66	10	8	110
7017	2014	02D/12	610001	5397143	21	C	65	186	0.025	4.45	3.9	5	3	240	246	1.2	12	0.37	0.05	52	51	7	6	84
7018	2014	02D/12	609059	5396685	21	C	65	146	0.025	5.29	8.8	9	0.5	320	317	1.5	3	0.2	0.2	78	71	10	8	110
7019	2014	02D/12	608195	5396475	21	C	60	148	0.025	4.28	3.7	4	0.5	230	227	1.2	6	0.35	0.05	77	67	7	6	100
7021	2014	02D/12	595372	5387831	21	C	60	220	0.025	4.27	8.9	7	4	290	266	1.3	3	0.56	0.05	69	57	6	5	150
7022	2014	02D/12	596077	5388698	21	C	60	227	0.025	4.46	10	10	3	280	288	1.3	18	0.54	0.05	82	66	5	4	170
7023	2014	02D/12	596603	5389643	21	C	60	180	0.025	4.4	15	15	1	240	267	1.3	7	0.49	0.05	93	74	19	16	340
7024	2014	02D/12	597299	5390289	21	C	60	201	0.025	4.58	21	20	3	250	260	1.4	6	0.59	0.05	71	66	12	10	220
7025	2014	02D/12	597995	5391012	21	C	60	201	0.025	4.73	15	14	0.5	270	289	1.4	2	0.56	0.1	86	73	9	7	220

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST	UTMNORTH	UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm	
7026	2014	02D/12	598599	5390776	21	C	60	194	0.025	5.38	15	14	0.5	270	296	1.5	8	0.45	0.1	93	76	6	5	100
7027	2014	02D/12	598828	5391556	21	C	60	170	0.025	4.54	17	14	2	320	301	1.5	6	0.59	0.05	91	75	11	7	190
7028	2014	02D/12	599903	5391842	21	C	60	188	0.025	4.43	50.9	38	8	320	281	1.6	2	0.34	0.2	150	111	25	16	270
7029	2014	02D/12	600677	5392590	21	C	70	209	0.025	4.35	25	16	0.5	400	294	1.5	3	0.41	0.1	100	68	16	8	220
7030	2014	02D/12	601705	5393451	21	BC	40	205	0.025	6.24	22	20	12	290	314	1.5	13	0.2	0.2	67	60	12	9	150
7031	2014	02D/12	601997	5392256	21	C	60	198	0.025	5.57	16	15	0.5	310	327	1.5	7	0.27	0.1	69	66	9	7	95
7032	2014	02D/12	602425	5394645	21	C	60	-9	0.025	5.67	24	23	2	320	350	1.7	19	0.29	0.1	85	76	10	8	130
7033	2014	02D/12	603296	5393926	21	C	60	-9	0.025	5.07	12	11	0.5	300	333	1.4	8	0.27	0.1	64	58	4	4	100
7034	2014	02D/12	604177	5392621	21	C	60	-9	0.025	6.42	17	16	0.5	280	327	1.6	9	0.28	0.1	66	57	10	8	110
7035	2014	02D/12	603845	5393663	21	C	60	-9	0.025	5.67	10	10	0.5	300	302	1.5	13	0.25	0.1	92	77	9	8	110
7036	2014	02D/12	604669	5394370	21	C	60	-9	0.025	5.05	14	12	2	270	266	1.4	12	0.24	0.05	74	60	10	7	130
7037	2014	02D/12	605865	5394456	21	C	55	179	0.025	6.85	9	8	0.5	350	394	1.8	9	0.22	0.2	80	70	12	9	120
7038	2014	02D/12	604695	5393198	21	C	50	170	0.025	5.91	22	21	2	330	359	1.8	11	0.27	0.2	95	80	11	9	130
7039	2014	02D/12	607277	5394954	21	C	55	173	0.025	5.89	5.2	6	0.5	390	427	1.3	4	0.19	0.1	51	56	3	3	230
7041	2014	02D/12	607438	5395888	21	C	60	177	0.025	4.08	11	10	3	210	213	1	4	0.17	0.05	53	49	7	7	220
7042	2014	02D/11	641156	5390459	21	C	55	167	0.025	6.17	26	26	12	190	216	1.5	16	0.51	0.2	44	47	17	13	440
7043	2014	02D/11	639688	5389677	21	C	60	193	0.025	6.53	70.4	68	0.5	240	278	1.9	3	0.63	0.1	110	112	25	20	310
7044	2014	02D/11	638745	5389024	21	C	65	222	0.025	8.29	211	213	0.5	220	249	2.4	37	0.47	0.2	100	110	27	23	250
7045	2014	02D/11	637690	5389066	21	C	60	205	0.025	5.06	13	12	2	190	208	1.1	11	0.8	0.05	49	48	11	8	460
7046	2014	02D/11	637535	5387865	21	C	60	217	0.025	5.71	20	20	3	180	187	1.4	18	0.79	0.05	58	65	15	12	430
7047	2014	02D/11	636917	5385962	21	C	65	193	0.025	6.51	28	27	0.5	210	214	1.3	45	0.7	0.05	63	62	12	10	350
7048	2014	02D/11	635763	5386356	21	C	60	222	0.025	5.72	15	16	4	130	168	1	36	1.04	0.05	42	44	11	9	440
7049	2014	02D/11	636896	5386814	21	C	60	220	0.025	8.69	38	39	0.5	260	319	2.1	35	0.46	0.2	60	73	22	19	340
7050	2014	02D/11	638460	5388094	21	C	60	-9	0.025	6.18	31	29	17	200	205	1.2	24	0.64	0.05	45	42	14	11	360
7051	2014	02D/11	637941	5387069	21	C	60	208	0.025	6.45	29	28	9	240	274	1.5	7	0.65	0.1	93	88	21	16	340
7052	2014	02D/11	636425	5387567	21	C	60	209	0.025	5.2	13	12	3	220	231	1.1	15	0.81	0.05	55	52	13	10	420
7053	2014	02D/11	637700	5389914	21	C	55	190	0.025	5.88	25	23	12	210	225	1.2	32	0.52	0.05	71	62	16	12	340
7054	2014	02D/11	638435	5390588	21	C	60	234	0.025	4.77	17	16	4	180	188	1.3	5	0.61	0.1	80	68	14	11	400
7055	2014	02D/11	639064	5390857	21	C	60	189	0.025	5.04	13	12	4	180	194	1	23	0.56	0.05	43	45	8	7	380
7056	2014	02D/11	639841	5391367	21	C	60	216	0.025	5.81	36	34	17	220	228	1.5	15	0.62	0.1	84	79	16	12	360
7057	2014	02D/11	640719	5391330	21	C	60	88	0.025	4.84	24	22	3	170	179	1.1	3	0.73	0.1	49	51	15	11	530
7058	2014	02D/11	640776	5392366	21	C	60	221	0.025	7.08	44	42	2	290	307	1.8	14	0.49	0.2	67	78	21	17	240
7059	2014	02D/11	640036	5394175	21	C	55	202	0.025	6.38	26	26	97	170	190	1.2	53	0.6	0.2	61	60	12	11	290
7061	2014	02D/11	628748	5396603	21	C	55	257	0.025	7.9	30	29	0.5	360	365	3.4	12	1.61	0.2	95	101	15	12	110
7062	2014	02D/11	629701	5396243	21	C	60	184	0.025	7.31	7.7	8	0.5	230	238	1.6	49	1.95	0.1	42	43	13	10	130
7063	2014	02D/11	630239	5395662	21	C	65	151	0.025	8.13	47	45	0.5	480	497	1.7	25	0.94	0.1	50	54	11	11	93
7064	2014	02D/11	631047	5396263	21	C	60	164	0.025	6.77	13	12	0.5	290	289	1.9	6	2.2	0.1	52	49	12	8	84
7065	2014	02D/11	632010	5396475	21	C	55	124	0.025	7.14	15	15	0.5	290	308	1.9	10	1.01	0.2	52	51	14	10	95
7066	2014	02D/11	633025	5396849	21	C	60	111	0.025	6.93	12	11	0.5	330	332	2.1	5	0.85	0.2	120	102	19	13	110
7067	2014	02D/11	634210	5397513	21	C	70	117	0.025	6.45	23	21	5	250	249	1.5	8	1.07	0.2	55	53	14	11	160
7068	2014	02D/11	635753	5398393	21	C	60	81	0.025	6.32	21	20	3	290	301	1.8	2	0.75	0.1	73	65	12	10	170
7069	2014	02D/11	639172	5399671	21	C	50	137	0.025	7.57	53.8	50	2	350	367	1.9	4	0.37	0.2	90	87	16	12	160
7070	2014	02D/11	639465	5397580	21	C	55	198	0.025	7.2	22	22	2	200	232	1.7	31	0.84	0.1	59	56	16	14	230
7071	2014	02D/11	640134	5396548	21	C	55	190	0.025	6.38	12	13	0.5	220	243	1.3	13	1.27	0.1	46	46	12	10	300
7072	2014	02D/11	640398	5395576	21	C	55	193	0.025	6.5	27	26	5	250	283	1.5	16	0.87	0.1	91	82	18	14	210
7073	2014	02D/11	639744	5398656	21	C	55	170	0.025	6.37	16	17	0.5	190	213	1.3	32	0.73	0.1	44	45	10	7	190
7074	2014	02D/11	638213	5398785	21	C	55	146	0.025	6.74	35	32	3	290	274	1.7	6	0.65	0.2	88	74	19	13	260
7075	2014	02D/11	637328	5397595	21	C	60	150	0.025	7.25	17	16	0.5	240	268	1.8	28	1.16	0.2	60	57	21	16	150

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST NAD 27	UTMNORTH NAD 27	UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm	
7076	2014	02D/11	636507	5397889	21	C	60	148	0.1	7.91	16	16	0.5	170	196	2	17	1.25	0.2	50	53	20	15	360
7077	2014	02D/11	639469	5397532	21	C	55	153	0.1	6.66	17	18	0.5	240	246	1.3	14	0.66	0.2	55	58	15	12	190
7079	2014	02D/11	634797	5382530	21	C	65	200	0.025	6.97	102	108	73	280	315	1.8	19	0.6	0.3	110	115	40	33	830
7081	2014	02D/11	634729	5383189	21	C	70	214	0.025	6.08	236	210	19	270	278	1.6	11	0.45	0.2	91	85	22	15	850
7082	2014	02D/11	635166	5384090	21	C	60	200	0.025	6.26	14	12	2	230	242	1.2	10	1.01	0.2	51	44	14	11	370
7083	2014	02D/11	633926	5384529	21	C	60	216	0.025	5.49	29	27	4	190	194	1.1	12	0.77	0.1	72	60	14	11	390
7084	2014	02D/11	633290	5385489	21	C	60	205	0.025	4.9	26	24	4	220	205	1.1	6	0.85	0.05	65	58	13	9	670
7085	2014	02D/11	632053	5385689	21	C	60	210	0.025	4.46	10	10	4	190	193	1	14	0.53	0.05	55	54	9	7	560
7086	2014	02D/11	633606	5386354	21	C	60	207	0.025	5.79	6.9	8	2	170	193	1	27	0.82	0.05	46	42	10	8	350
7087	2014	02D/11	635951	5385018	21	C	60	200	0.025	5.92	31	29	3	230	245	1.4	21	1.13	0.1	56	60	16	13	530
7088	2014	02D/11	634679	5385207	21	C	60	210	0.025	5.8	10	10	0.5	210	224	1	20	0.98	0.05	40	41	11	9	500
7089	2014	02D/11	634290	5387089	21	C	55	214	0.025	5.66	10	10	0.5	170	181	1	35	1.05	0.05	44	38	12	9	430
7090	2014	02D/11	635346	5387893	21	C	60	220	0.025	5.12	49	47	14	210	245	1.1	11	0.51	0.1	83	77	14	11	370
7091	2014	02D/06	634080	5373027	21	C	60	205	0.025	5.06	13	14	0.5	280	299	1.4	3	0.32	0.1	54	47	10	8	660
7092	2014	02D/06	635101	5372837	21	C	60	199	0.025	6.75	19	7	2	260	317	2.2	41	1.04	0.05	40	53	14	4	680
7093	2014	02D/06	639392	5372148	21	C	60	230	0.025	6.1	22	21	0.5	250	240	2.8	4	0.45	0.1	63	31	9	7	340
7094	2014	02D/06	638091	5372260	21	C	55	225	0.025	5.01	28	24	0.5	200	188	2.4	1	0.47	0.1	80	24	8	5	320
7095	2014	02D/06	636942	5371868	21	C	55	212	0.025	5.27	11	11	0.5	240	274	1.4	15	0.43	0.05	48	42	10	8	430
7096	2014	02D/06	637122	5372937	21	C	50	227	0.1	6.98	30	27	0.5	420	427	2	10	0.31	0.1	83	31	8	6	260
7097	2014	02D/11	637669	5373840	21	C	60	216	0.025	4.47	10	9	0.5	250	242	1.7	2	0.41	0.05	56	30	9	7	400
7098	2014	02D/11	638864	5374182	21	C	60	245	0.025	5.48	14	14	0.5	260	268	1.4	18	0.44	0.05	51	38	12	9	400
7099	2014	02D/11	639837	5374959	21	C	60	235	0.025	6.08	13	13	0.5	320	338	2.7	6	0.33	0.1	71	45	11	9	230
7101	2014	02D/11	637900	5392282	21	C	65	221	0.025	4.66	16	14	5	190	188	1	6	0.87	0.1	57	48	11	9	420
7102	2014	02D/11	636889	5391867	21	C	60	200	0.025	5.93	13	12	4	230	242	1.3	5	0.89	0.2	77	71	15	12	280
7103	2014	02D/11	635732	5391130	21	C	60	197	0.025	5.25	7.3	7	4	210	222	1	5	0.61	0.05	61	48	10	8	360
7104	2014	02D/11	635169	5390149	21	C	55	196	0.025	5.39	9.1	9	2	260	257	1.2	2	1.03	0.05	59	46	14	11	360
7105	2014	02D/11	635087	5389763	21	C	55	212	0.025	6.29	8.5	8	0.5	170	170	1	37	0.98	0.05	45	36	9	8	340
7106	2014	02D/11	634548	5388818	21	C	65	210	0.025	5.75	11	11	2	200	210	1.3	13	1.25	0.1	57	50	16	12	320
7107	2014	02D/11	634249	5387859	21	C	55	215	0.025	5.15	8.1	8	0.5	180	191	1	19	0.85	0.05	48	41	11	8	330
7108	2014	02D/11	633262	5387679	21	C	60	236	0.025	6.42	10	10	0.5	190	169	1.1	6	1.11	0.1	64	47	15	12	500
7109	2014	02D/11	632336	5387661	21	C	60	227	0.025	5.37	10	10	1	160	199	1.1	48	1.19	0.1	56	56	16	11	430
7110	2014	02D/11	631387	5387452	21	C	60	208	0.025	6.19	6.6	7	0.5	150	157	1	45	1.57	0.1	39	33	12	98	620
7111	2014	02D/11	630494	5387078	21	C	65	195	0.025	5.29	9.2	9	2	160	188	1	28	0.64	0.1	49	39	11	8	350
7112	2014	02D/11	629563	5386505	21	C	60	195	0.025	5.67	8	8	0.5	170	174	1	25	1.32	0.05	51	41	12	10	330
7113	2014	02D/11	628758	5386839	21	C	60	178	0.025	5.52	7.1	7	0.5	220	232	1.1	2	1.48	0.05	52	48	12	9	340
7114	2014	02D/11	629152	5388405	21	C	65	150	0.025	5.58	10	10	0.5	210	227	1.2	11	1.52	0.1	52	46	16	12	480
7115	2014	02D/11	640756	5375741	21	C	55	240	0.025	4.36	9.1	10	0.5	220	243	1.1	16	0.3	0.05	38	24	4	4	360
7116	2014	02D/11	640660	5376791	21	C	1	263	0.025	5.5	14	14	0.5	240	266	1.3	16	0.41	0.05	46	39	13	10	310
7117	2014	02D/11	640598	5377879	21	C	20	254	0.025	5.02	16	16	0.5	260	275	1.2	4	0.5	0.05	58	52	13	10	340
7118	2014	02D/11	640953	5378898	21	C	30	248	0.025	6.08	15	16	0.5	310	327	1.4	21	0.44	0.05	59	54	31	25	270
7119	2014	02D/11	641270	5380159	21	C	60	243	0.025	5.01	32	29	2	250	266	1.3	7	0.39	0.2	73	57	18	14	420
7121	2014	02D/11	641596	5381163	21	C	15	233	0.025	5.32	23	23	1	250	262	1.4	15	0.32	0.05	88	74	13	10	300
7122	2014	02D/11	641663	5382070	21	C	60	240	0.025	5.26	4	5	2	270	300	1.3	2	0.35	0.05	44	38	7	5	330
7123	2014	02D/11	642014	5383026	21	C	65	247	0.025	4.7	5.8	6	0.5	270	277	1.1	7	0.25	0.05	34	30	8	5	300
7124	2014	02D/11	642556	5384097	21	C	56	229	0.025	5.66	24	24	2	300	297	1.5	10	0.22	0.1	72	63	15	13	250
7125	2014	02D/11	643154	5384855	21	C	25	241	0.025	5.51	23	21	0.5	270	270	1.4	4	0.38	0.1	77	64	16	12	310
7126	2014	02D/11	643291	5385810	21	C	58	203	0.025	6.15	8	9	0.5	190	229	1.3	89	0.31	0.05	41	31	7	6	300
7127	2014	02D/11	642486	5386400	21	C	10	188	0.025	4.97	22	21	5	230	245	1.2	2	0.44	0.2	77	59	13	11	630

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST	UTMNORTH	UTMZONE	Soil	Depth	Elevation	Ag6	Al2	As1	As2	Au1	Ba1	Ba2	Be2	Br1	Ca2	Cd2	Ce1	Co1	Co2	Cr1		
			NAD 27	NAD 27		Horizon	cm	m	ppm	pct	ppm	ppm	ppb	ppm	ppm	ppm	ppm	pct	ppm	ppm	ppm	ppm	ppm		
7128	2014	02D/11	641869	5387030		21	C	30	209	0.025	5.5	23	24	0.5	300	344	1.2	30	0.43	0.1	46	6	8	380	
7129	2014	02D/11	641009	5387461		21	C	54	219	0.3	6.88	64.5	62	0.5	1600	1600	1.8	9	0.4	0.2	62	61	9	7	210
7130	2014	02D/11	640183	5387873		21	C	25	228	0.2	5.96	79.3	73	0.5	890	895	1.3	37	0.54	0.2	54	58	12	9	270
7131	2014	02D/11	640409	5388901		21	C	35	187	0.025	5.67	23	23	0.5	240	264	1.3	21	0.49	0.05	62	56	10	10	290
7132	2014	02D/11	640926	5389573		21	C	36	186	0.025	6.02	16	17	0.5	310	313	1.3	20	1.14	0.1	47	49	14	13	230
7133	2014	02D/11	641768	5392196		21	C	40	187	0.025	5.42	32	29	4	200	187	1.3	13	0.77	0.1	51	65	15	11	420
7134	2014	02D/10	647206	5396905		21	C	60	158	0.025	6.06	29	27	2	230	245	1.4	15	0.7	0.1	66	62	21	17	180
7135	2014	02D/11	646593	5396150		21	C	100	160	0.025	6.17	38	35	3	250	255	1.5	11	0.75	0.1	98	91	23	16	180
7136	2014	02D/11	646168	5395198		21	C	68	148	0.025	4.48	28	24	3	180	176	1.1	3	0.88	0.1	63	52	17	12	320
7137	2014	02D/11	645656	5395414		21	C	69	181	0.025	6.44	40	26	2	250	206	1.3	10	0.69	0.1	75	57	29	9	200
7138	2014	02D/11	645426	5394616		21	C	46	159	0.025	5.4	35	14	2	240	156	0.9	8	1.01	0.1	77	38	27	8	260
7139	2014	02D/11	644632	5394097		21	C	75	167	0.025	8.36	40	36	3	210	303	2	35	0.46	0.2	170	66	28	17	180
7141	2014	02D/11	643623	5395226		21	C	80	192	0.025	6.27	13	26	3	220	261	1.4	23	0.64	0.1	49	80	9	15	250
7142	2014	02D/11	643741	5393704		21	C	80	187	0.025	5.16	39	11	9	190	227	1	5	0.79	0.05	66	54	24	9	370
7143	2014	02D/11	642753	5393483		21	C	100	190	0.025	5.77	10	22	2	180	217	1.2	36	0.52	0.05	50	60	9	11	230
7144	2014	02D/11	642210	5392790		21	C	60	194	0.025	4.68	24	14	3	180	183	1.2	32	0.59	0.1	71	63	12	10	250
7145	2014	02D/11	643222	5392773		21	C	40	166	0.2	5.09	10	11	0.5	390	193	1	20	0.56	0.05	14	41	5	6	77
7146	2014	02D/11	639786	5387096		21	C	55	212	0.1	5.77	24	33	0.5	560	219	1.4	8	0.65	0.1	63	73	11	11	190
7147	2014	02D/11	639216	5386397		21	C	60	216	0.025	4.71	22	21	0.5	290	170	1.1	6	0.72	0.1	75	48	18	10	350
7148	2014	02D/11	638423	5385908		21	C	60	206	0.025	6.96	26	40	2	180	294	1.7	7	0.49	0.1	62	73	18	16	1490
7149	2014	02D/11	640309	5386747		21	C	65	218	0.025	6.26	30	24	2	480	184	1.2	20	0.59	0.2	79	53	15	10	330
7150	2014	02D/11	632435	5386948		21	C	65	236	0.025	5.79	9.4	32	0.5	240	203	1.1	25	0.69	0.2	63	52	16	9	320
7151	2014	02D/11	631841	5388715		21	C	60	202	0.025	7.62	4.8	28	0.5	210	344	3.2	14	1.6	0.2	48	95	12	11	310
7152	2014	02D/11	632741	5388907		21	C	60	225	0.025	5.06	4.5	5	0.5	160	174	0.9	29	1.02	0.05	37	33	9	7	290
7153	2014	02D/11	632848	5388377		21	C	70	223	0.025	6.19	6.7	7	0.5	170	185	1.1	39	1.08	0.05	40	43	13	10	230
7154	2014	02D/11	633720	5391323		21	C	60	157	0.025	6.39	7.7	8	2	180	208	1.2	19	1.1	0.1	48	47	12	10	400
7155	2014	02D/11	632530	5390779		21	C	50	173	0.025	7.94	13	13	0.5	300	316	1.7	9	0.61	0.2	59	59	21	17	190
7156	2014	02D/11	631022	5390650		21	C	50	183	0.025	7.22	10	11	0.5	170	200	1.3	17	1.26	0.1	61	57	16	13	200
7157	2014	02D/11	627912	5388105		21	C	55	88	0.025	7.15	12	12	0.5	290	310	1.3	2	1.47	0.2	49	56	22	16	280
7158	2014	02D/11	628661	5387490		21	C	70	139	0.025	5.13	8.6	8	2	190	190	1.1	13	1.29	0.1	51	44	15	10	480
7159	2014	02D/11	628306	5388743		21	C	60	105	0.025	5.37	6.8	7	1	200	214	1.1	12	1.33	0.05	45	41	13	10	290
7161	2014	02D/11	628542	5390204		21	C	65	91	0.025	6.57	6.3	7	0.5	170	227	1.2	16	1.97	0.2	39	44	21	16	190
7162	2014	02D/11	629394	5391599		21	C	60	112	0.025	6.47	11	11	0.5	230	230	1.3	6	2.28	0.2	46	52	18	14	210
7163	2014	02D/11	630010	5391615		21	C	55	170	0.1	8.66	22	22	2	300	311	2	12	0.57	0.2	59	60	23	18	160
7164	2014	02D/11	629958	5392390		21	C	55	99	0.025	6.51	13	13	0.5	280	284	1.5	2	1.34	0.2	56	58	20	15	240
7165	2014	02D/11	635074	5392868		21	C	55	151	0.025	6.97	7.9	9	0.5	210	231	1.3	41	0.85	0.1	56	55	15	11	220
7166	2014	02D/11	634863	5392074		21	C	50	163	0.025	6.47	15	14	2	220	233	1.3	25	1.03	0.1	68	53	18	14	310
7167	2014	02D/11	635224	5393513		21	C	60	139	0.025	7.78	19	18	0.5	400	452	2.3	12	0.43	0.2	110	101	18	14	160
7168	2014	02D/11	635839	5392092		21	C	65	171	0.025	6.56	7.9	7	0.5	240	258	1.3	18	0.85	0.05	55	50	14	12	310
7169	2014	02D/11	638100	5393116		21	C	55	215	0.025	6.81	28	27	6	310	321	1.6	32	0.48	0.1	80	75	11	10	250
7170	2014	02D/11	638518	5393943		21	C	65	218	0.025	6.41	12	10	0.5	220	215	1.1	17	0.84	0.05	56	43	13	10	260
7171	2014	02D/11	639029	5395264		21	C	55	202	0.025	6.91	26	23	3	240	248	1.5	14	0.95	0.1	77	68	17	13	260
7172	2014	02D/11	640581	5393509		21	C	45	218	0.025	5.11	6.6	6	1	240	245	1.1	3	0.62	0.05	51	48	11	9	280
7173	2014	02D/11	642082	5396730		21	C	65	213	0.025	6.49	32	29	15	210	209	1.3	42	0.86	0.1	57	46	14	11	330
7174	2014	02D/11	612688	5397657		21	C	65	225	0.025	5	12	19	4	240	264	1.4	23	0.31	0.1	79	65	13	11	130
7175	2014	02D/12	609375	5398843		21	C	65	-9	0.025	3.8	2.7	3	0.5	250	269	0.9	2	0.2	0.05	56	47	3	3	95
7176	2014	02D/11	620695	5378485		21	C	55	165	0.025	5.9	13	11	1	240	236	1.3	20	0.51	0.1	94	73	16	12	680
7177	2014	02D/11	620710	5377499		21	C	60	198	0.025	5.36	14	12	4	250	257	1.1	7	0.46	0.05	72	52	17	12	620

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST		UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm	
			NAD 27	UTM																				NAD 27
7178	2014	02D/11	621398	5376774	21	C	60	193	0.025	4.36	18	15	3	230	219	1.1	8	0.4	0.05	79	57	18	13	540
7179	2014	02D/11	621723	5375886	21	C	70	183	0.025	5.15	88.2	72	34	280	287	1.3	0.5	0.28	0.2	67	61	36	24	660
7181	2014	02D/11	622481	5375450	21	C	60	189	0.025	7.62	34	28	2	360	349	1.8	2	0.12	0.2	78	69	53	40	330
7182	2014	02D/11	620498	5379653	21	C	65	155	0.025	5.65	12	10	2	290	292	1.4	17	0.38	0.05	67	57	15	11	390
7183	2014	02D/11	620738	5380572	21	C	70	167	0.025	5.13	11	10	3	240	258	1.2	7	0.5	0.1	77	59	17	29	320
7184	2014	02D/11	620421	5381706	21	C	60	-9	0.025	5.12	12	10	2	250	249	1.1	4	0.46	0.1	82	66	15	12	440
7185	2014	02D/06	633851	5373151	21	C	100	250	0.025	4.88	10	9	1	280	292	1.5	9	0.42	0.05	62	48	10	8	500
7186	2014	02D/11	632627	5373529	21	C	45	206	0.025	5.65	7.2	6	0.5	280	305	1.3	6	0.47	0.05	44	39	13	10	450
7187	2014	02D/11	631601	5373566	21	C	80	224	0.025	5.53	9.3	7	2	260	275	1.4	7	0.41	0.05	60	50	12	10	480
7188	2014	02D/11	631207	5375550	21	C	89	183	0.025	5.15	21	19	0.5	200	207	1.3	29	0.44	0.1	130	97	15	11	600
7189	2014	02D/11	631228	5374662	21	C	79	197	0.025	5.63	8.7	8	0.5	290	310	1.2	10	0.42	0.1	46	44	16	12	900
7190	2014	02D/11	630797	5373677	21	C	80	222	0.025	5.37	15	13	8	290	289	1.2	4	0.53	0.1	52	51	17	14	610
7191	2014	02D/06	625568	5362323	21	C	50	273	0.025	5.93	20	18	0.5	200	213	1.6	20	0.44	0.1	52	45	20	15	420
7192	2014	02D/06	625992	5363132	21	C	60	230	0.025	8.76	22	21	0.5	260	288	2.1	39	0.33	0.1	120	104	15	12	190
7193	2014	02D/06	625989	5363135	21	C	40	238	0.025	5.43	15	12	1	300	312	1.3	5	0.42	0.05	66	57	19	14	390
7194	2014	02D/06	626207	5363987	21	C	80	240	0.025	4.43	15	13	0.5	180	180	1	32	0.36	0.05	58	45	15	12	700
7195	2014	02D/06	626096	5365967	21	C	60	236	0.025	6.49	23	23	0.5	230	254	1.7	26	0.44	0.1	66	53	19	16	870
7196	2014	02D/06	626018	5366856	21	C	80	229	0.025	5.51	12	12	8	180	199	1.1	47	0.3	0.05	53	41	11	9	520
7197	2014	02D/06	625677	5368031	21	C	60	217	0.025	6.28	27	25	3	180	189	1.4	40	0.35	0.1	110	76	14	12	1040
7198	2014	02D/06	626421	5368924	21	C	50	209	0.025	8.01	11	10	0.5	400	426	1.6	7	0.18	0.2	61	60	27	21	170
7199	2014	02D/06	627061	5369616	21	C	50	210	0.025	4.96	11	9	0.5	220	224	1.2	19	0.37	0.1	70	49	13	10	420
7201	2014	02D/11	629993	5385558	21	C	60	208	0.025	5.01	12	10	6	200	197	1.1	12	0.72	0.1	82	62	16	12	430
7202	2014	02D/11	629269	5385019	21	C	65	214	0.025	5.77	15	14	0.5	210	212	1.1	33	1.13	0.05	50	43	13	11	290
7203	2014	02D/11	631114	5383217	21	C	60	213	0.025	5.27	138	121	23	260	259	1.3	3	0.58	0.2	120	88	25	18	1070
7204	2014	02D/11	631434	5383890	21	C	60	180	0.025	5.73	53.8	49	0.5	310	316	1.4	19	0.56	0.1	66	57	18	14	580
7205	2014	02D/12	608288	5400122	21	C	65	134	0.025	3.82	14	12	0.5	180	198	1.4	10	0.42	0.2	51	49	14	12	150
7206	2014	02D/12	607726	5399129	21	C	65	148	0.025	4.21	4.9	5	0.5	210	246	1.1	7	0.34	0.1	68	63	7	7	160
7207	2014	02D/12	607757	5398125	21	C	60	158	0.025	3.98	6.3	6	0.5	210	216	1	2	0.2	0.05	56	50	7	5	150
7208	2014	02D/12	607912	5396989	21	C	65	180	0.025	3.9	11	10	2	220	219	1.1	2	0.24	0.05	59	58	8	7	160
7209	2014	02D/11	645753	5400659	21	C	50	173	0.025	6.03	24	22	2	230	243	1.4	3	0.73	0.1	59	53	12	11	200
7210	2014	02D/11	646570	5398639	21	C	50	234	0.025	8.24	33	30	2	190	225	1.6	24	0.61	0.1	51	47	16	13	200
7211	2014	02D/10	653394	5395031	21	BC	45	22	0.025	4.68	15	15	0.5	220	257	0.9	2	0.75	0.05	26	23	6	5	520
7212	2014	02D/11	645766	5393256	21	C	55	196	0.025	8.01	32	30	2	190	217	1.7	40	0.7	0.2	73	66	20	16	200
7213	2014	02D/11	646340	5391852	21	C	45	263	0.025	6.96	20	19	0.5	320	483	1.7	8	0.43	0.1	81	70	15	12	240
7214	2014	02D/10	647657	5389867	21	C	55	201	0.025	5.88	12	11	0.5	170	213	1.2	34	0.29	0.1	37	32	8	7	250
7215	2014	02D/11	646969	5387816	21	C	50	227	0.025	5.69	11	10	0.5	290	335	1	6	0.25	0.1	22	20	5	5	170
7216	2014	02D/11	647137	5385566	21	C	50	299	0.025	5.33	16	16	0.5	300	347	1.3	2	0.61	0.1	45	40	7	6	110
7217	2014	02D/11	642085	5388047	21	C	55	240	0.025	6.35	18	17	0.5	260	277	1.4	32	0.47	0.1	60	49	14	12	310
7218	2014	02D/11	643235	5383629	21	C	55	257	0.025	6.7	22	22	0.5	280	315	1.6	26	0.27	0.1	71	67	32	27	180
7219	2014	02D/11	644555	5381512	21	C	55	256	0.025	7.91	25	25	0.5	300	365	2.1	19	0.33	0.1	82	34	8	6	180
7220	2014	02D/11	643178	5381080	21	BC	45	273	0.025	5.55	7.3	8	0.5	290	338	2	5	0.4	0.05	45	32	1	43	79
7221	2014	02D/11	643074	5379132	21	B	45	269	0.025	6.03	11	10	15	360	360	1.6	2	0.5	0.05	58	49	16	13	380
7222	2014	02D/11	645122	5379366	21	C	60	252	0.025	6.95	18	17	0.5	300	304	2.3	12	0.73	0.1	75	61	10	8	240
7224	2014	02D/11	645447	5377626	21	C	60	226	0.025	5.38	14	14	3	170	196	2.8	37	0.46	0.1	77	53	7	6	290
7225	2014	02D/11	645112	5375858	21	C	55	224	0.025	5.7	3.4	4	0.5	150	170	9.2	73	1.01	0.1	51	39	6	7	320
7226	2014	02D/11	645216	5373576	21	C	65	324	0.025	5.37	11	10	0.5	280	305	1.9	2	0.56	0.05	60	46	14	10	420
7227	2014	02D/06	641697	5372957	21	C	60	249	0.025	5.1	8.8	8	0.5	270	279	3	1	0.6	0.05	70	47	12	9	640
7228	2014	02D/11	641841	5375557	21	C	60	223	0.025	5.22	25	24	0.5	230	227	1.5	16	0.5	0.1	64	50	12	10	440

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST NAD 27	UTM NORTH NAD 27	UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm	
7229	2014	02D/11	641763	5376887	21	C	60	271	0.025	6.19	11	12	0.5	330	376	1.7	0.5	0.57	0.1	63	57	17	14	280
7230	2014	02D/11	632662	5375369	21	C	60	227	0.025	6.02	19	20	0.5	270	290	1.2	21	0.37	0.2	48	45	10	10	360
7231	2014	02D/11	632931	5378739	21	C	55	203	0.025	5.15	7.1	7	2	240	261	1	3	0.51	0.05	37	32	8	7	750
7232	2014	02D/11	634831	5378987	21	C	200	229	0.025	5.16	14	14	4	240	258	1	3	0.39	0.05	57	37	5	4	380
7233	2014	02D/11	635330	5381216	21	C	55	19	0.025	5.74	15	16	2	230	255	1.2	13	0.39	0.1	54	45	11	10	380
7234	2014	02D/11	639577	5381540	21	C	50	220	0.1	6.73	12	12	0.5	350	378	1.7	4	0.18	0.1	41	32	19	15	220
7235	2014	02D/11	639973	5383145	21	C	55	235	0.025	5.74	27	27	0.5	260	281	1.5	15	0.44	0.2	64	52	16	13	430
7236	2014	02D/11	633110	5383651	21	C	55	220	0.025	7.1	25	26	4	210	234	1.1	59	0.5	0.1	46	40	12	52	290
7238	2014	02D/11	630013	5382042	21	C	60	208	0.2	5.66	46	45	2	220	246	1.1	18	0.19	0.3	39	39	6	5	350
7239	2014	02D/11	628353	5383204	21	C	60	213	0.025	4.85	10	10	6	190	203	1	23	0.89	0.1	60	47	10	8	620
7240	2014	02D/11	628393	5381303	21	C	55	201	0.025	6.7	32	30	3	270	291	1.7	24	0.25	0.2	110	84	20	14	360
7241	2014	02D/11	624305	5376638	21	C	300	22	0.025	6.59	20	19	2	240	254	1.4	19	0.29	0.2	50	44	22	17	470
7242	2014	02D/11	625746	5374152	21	BC	50	186	0.025	4.89	11	11	3	240	249	1	8	0.36	0.1	62	42	12	8	810
7243	2014	02D/06	615839	5372477	21	C	60	-9	0.025	4.62	10	11	0.5	220	230	1	29	0.2	0.1	54	35	6	4	700
7244	2014	02D/12	608215	5396540	21	C	50	-9	0.025	4.71	5.8	6	0.5	220	249	1	18	0.23	0.05	60	44	6	3	1610
7245	2014	02D/06	615839	5372771	21	C	60	-9	0.025	5.55	14	14	0.5	200	217	1.1	16	0.3	0.1	62	41	16	13	1000
7246	2014	02D/11	618013	5373235	21	C	60	204	0.025	6.54	16	17	3	270	312	1.2	0.5	0.74	0.1	49	54	17	14	510
7247	2014	02D/11	621923	5373300	21	C	100	201	0.025	6.36	15	15	3	220	244	1.1	28	0.22	0.1	51	43	7	7	430
7248	2014	02D/11	620994	5383040	21	C	50	123	0.025	6.51	16	15	0.5	130	130	1	37	0.52	0.2	56	36	19	14	1270
7249	2014	02D/11	627278	5386647	21	C	55	105	0.025	5.78	10	10	15	200	214	1.2	6	0.8	0.2	61	47	17	12	560
7250	2014	02D/11	631553	5392140	21	C	50	169	0.025	5.88	4.3	5	0.5	240	261	1.2	6	1.51	0.1	45	41	13	10	250
7251	2014	02D/11	632409	5394986	21	C	55	83	0.025	6.29	11	11	0.5	200	218	1.4	18	1.39	0.2	59	48	14	11	280
7252	2014	02D/11	638186	5395880	21	C	50	194	0.025	6.17	6.3	7	0.5	210	255	1.2	9	0.9	0.1	49	46	11	8	210
7253	2014	02D/11	624863	5398501	21	C	60	141	0.025	7.25	4.5	5	2	170	188	1.3	51	2.16	0.2	45	38	12	9	140
7254	2014	02D/11	621072	5394682	21	C	65	210	0.025	5.86	1.2	2	0.5	240	266	1.2	8	2.32	0.2	38	31	11	8	97
7255	2014	02D/11	613195	5399997	21	C	50	165	0.025	4.5	4	4	11	200	236	1	34	0.23	0.05	48	44	4	4	100
7256	2014	02D/11	610343	5398269	21	C	50	165	0.025	4.59	5.4	6	0.5	200	237	0.8	26	0.28	0.05	45	41	3	3	95
7257	2014	02D/11	613253	5396203	21	C	70	243	0.025	5.64	8.7	9	0.5	240	255	1.1	1	0.19	0.05	59	50	14	4	95
7258	2014	02D/11	615106	5396106	21	C	55	203	0.025	4.87	3	4	2	220	236	1.1	0.5	0.74	0.1	52	42	8	5	120
7259	2014	02D/11	614980	5397844	21	C	55	170	0.025	6.28	14	14	0.5	240	250	1.4	0.5	2.28	0.2	55	50	16	11	140
7261	2014	02D/11	619120	5394848	21	C	55	240	0.025	6.78	3.9	5	0.5	210	219	1.3	0.5	1.71	0.2	42	35	20	11	130
7262	2014	02D/11	620135	5390948	21	C	55	207	0.025	6.56	3.2	4	0.5	180	208	1	0.5	1.27	0.2	42	36	15	9	120
7263	2014	02D/11	625796	5388815	21	C	60	188	0.025	6.7	4.9	5	0.5	200	198	1	0.5	1.55	0.1	43	35	18	9	170
7264	2014	02D/11	624594	5387497	21	C	60	201	0.025	5.16	3.9	5	0.5	130	170	0.8	0.5	1.11	0.1	51	37	11	7	200
7265	2014	02D/11	622615	5386616	21	C	55	202	0.025	6.45	4.9	6	0.5	160	168	0.8	0.5	1.09	0.1	43	31	13	8	160
7266	2014	02D/11	621188	5387202	21	C	40	193	0.025	6.83	5.8	8	2	250	273	1.3	42	0.87	0.2	50	51	11	13	110
7267	2014	02D/11	620596	5388955	21	C	45	184	0.025	6.08	3.2	4	0.5	200	239	1.2	28	2	0.2	48	41	22	19	130
7268	2014	02D/11	619282	5388254	21	C	40	224	0.025	7.27	9.1	9	0.5	120	140	1	38	2.1	0.2	33	30	15	12	140
7269	2014	02D/11	616824	5384612	21	C	55	137	0.025	5.09	18	18	0.5	220	233	1.3	8	0.42	0.2	88	58	18	15	310
7270	2014	02D/11	612152	5388651	21	C	80	184	0.025	5.13	6.4	7	0.5	250	263	1.1	4	0.13	0.05	68	54	4	4	88
7271	2014	02D/11	612323	5384310	21	C	65	192	0.1	6.36	28	27	0.5	340	372	1.7	13	0.1	0.1	98	64	8	8	110
7272	2014	02D/11	613531	5380388	21	C	50	184	0.025	2.81	10	8	2	150	157	0.8	11	0.21	0.2	66	57	180	112	1830
7273	2014	02D/11	613239	5378621	21	C	50	210	0.025	5.37	16	15	0.5	200	200	0.9	30	0.12	0.2	57	48	13	10	1540
7274	2014	02D/11	612970	5377008	21	C	50	190	0.1	7.99	6.8	6	3	170	190	0.9	23	0.13	0.2	33	34	21	16	290
7275	2014	02D/11	618457	5378775	21	C	40	168	0.025	6.1	21	19	0.5	120	136	0.9	42	0.33	0.05	59	40	13	11	810
7276	2014	02D/12	607296	5390309	21	C	50	155	0.025	6.33	7.1	7	0.5	160	162	1.2	30	0.19	0.1	43	40	3	4	75
7277	2014	02D/12	606296	5387027	21	C	50	221	0.025	6.76	16	16	0.5	300	306	1.4	36	0.11	0.05	54	46	1	3	72
7278	2014	02D/12	606722	5384804	21	C	50	208	0.025	4.81	4.6	5	0.5	380	389	1.2	10	0.16	0.05	67	35	1	1	58

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST NAD 27	UTMNORTH NAD 27	UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm
7279	2014	02D/12	606576	5379491	21	B	60	209	0.025	5.31	7.9	8	0.5	150	154	1.2	74	0.22	0.05	43	1	2	69
7280	2014	02D/12	602784	5381979	21	C	60	240	0.025	5.9	3.1	3	0.5	350	379	1.3	20	0.51	0.05	45	2	3	74
7281	2014	02D/12	600484	5381574	21	C	50	241	0.025	4.35	5.9	7	0.5	300	297	1.1	21	0.3	0.05	98	1	1	62
7282	2014	02D/12	598057	5381357	21	C	50	241	0.025	5.7	19	17	13	170	169	1.2	77	0.34	0.05	82	52	1	3
7284	2014	02D/12	595924	5381104	21	BC	50	260	0.025	6.79	35	30	0.5	240	234	1.4	20	0.44	0.05	110	80	3	4
7285	2014	02D/12	594226	5381009	21	C	50	286	0.025	5.48	11	11	0.5	340	345	1.7	22	0.53	0.05	130	103	4	4
7286	2014	02D/12	592055	5381292	21	C	70	262	0.025	5.47	5.7	7	0.5	380	422	1.9	2	0.52	0.05	160	131	1	0.5
7287	2014	02D/12	589708	5381011	21	BC	45	307	0.025	7.82	19	20	0.5	120	119	1.1	102	0.15	0.1	37	30	1	0.5
7288	2014	02D/12	587464	5381154	21	BC	50	233	0.025	7.21	153	133	0.5	290	273	1.8	6	0.31	0.05	130	86	4	3
7289	2014	02D/12	585233	5381058	21	BC	10	238	0.025	3.31	3.4	3	0.5	260	281	0.9	0.5	0.24	0.05	100	27	1	0.5
7290	2014	02D/12	583170	5380658	21	BC	45	247	0.025	5.07	3.6	4	0.5	240	243	1.1	31	0.7	0.05	65	31	1	3
7291	2014	02D/12	581026	5380782	21	C	50	255	0.025	6.79	7.2	7	0.5	280	291	1.4	31	0.3	0.1	91	36	1	2
7292	2014	02D/12	578942	5380632	21	C	50	271	0.025	6.21	5.8	5	0.5	440	416	1.7	17	0.63	0.05	100	45	6	5
7293	2014	02D/12	584396	5387949	21	C	68	227	0.025	4.47	8.2	8	0.5	250	273	0.9	26	0.28	0.1	59	37	1	1
7294	2014	02D/12	589969	5386871	21	C	45	195	0.025	5.61	15	14	0.5	210	211	1.1	38	0.16	0.2	53	35	1	2
7295	2014	02D/12	590999	5388576	21	C	15	205	0.025	3.7	17	16	0.5	280	288	0.9	4	0.23	0.05	51	37	1	1
7296	2014	02D/12	594244	5385590	21	C	60	198	0.025	3.92	16	13	0.5	270	248	1.3	1	0.54	0.05	85	47	7	5
7298	2014	02D/12	598214	5388842	21	BC	45	235	0.025	6.07	12	18	0.5	130	154	1.3	42	0.26	0.3	45	36	1	3
7299	2014	02D/12	600138	5389423	21	C	50	212	0.025	4.25	5.2	6	0.5	210	243	1	9	0.41	0.05	52	40	1	2
7300	2014	02D/12	601885	5390057	21	C	55	211	0.025	5.4	19	19	0.5	200	213	1.2	10	0.31	0.1	54	39	5	5
7301	2014	02D/12	603947	5390590	21	C	39	183	0.025	2.15	1.6	2	0.5	170	171	0.5	0.5	0.08	0.05	63	50	1	1
7302	2014	02D/12	596433	5395725	21	C	55	192	0.025	6.04	14	14	0.5	240	259	1.5	75	0.29	0.2	74	60	3	5
7303	2014	02D/12	596166	5398390	21	C	50	191	0.025	5.96	11	12	0.5	240	256	1.2	26	0.28	0.1	65	52	2	4
7304	2014	02D/13	596478	5402473	21	C	50	194	0.025	5.77	10	11	0.5	380	392	1.7	10	0.35	0.1	69	64	6	7
7305	2014	02D/13	593898	5402042	21	C	40	192	0.025	6.19	7.4	9	0.5	240	263	1.1	41	0.43	0.2	50	42	1	3
7306	2014	02D/12	594110	5399956	21	C	55	200	0.025	5.15	10	10	0.5	330	342	1.4	5	0.44	0.05	76	61	5	6
7307	2014	02D/12	593793	5395768	21	C	60	207	0.025	5.07	15	16	0.5	250	281	1.3	62	0.23	0.1	60	50	1	2
7308	2014	02D/12	589469	5390042	21	C	50	239	0.025	4.27	2.1	3	0.5	310	320	1.2	5	0.41	0.05	99	71	1	1
7309	2014	02D/12	587094	5394563	21	C	40	301	0.025	6.76	7.3	8	0.5	340	334	1.3	32	0.25	0.1	67	43	1	2
7310	2014	02D/12	588014	5396825	21	C	40	298	0.025	7.1	8.3	8	0.5	400	394	1.6	11	0.29	0.1	85	56	4	3
7311	2014	02D/12	586239	5399560	21	C	40	325	0.025	6.12	7.7	8	0.5	510	489	1.6	3	0.27	0.1	74	47	1	1
7312	2014	02D/12	585580	5397541	21	C	45	335	0.025	5.68	8.1	8	0.5	420	423	1.7	7	0.26	0.1	80	52	1	2
7313	2014	02D/12	582146	5396383	21	C	50	308	0.025	3.66	1.9	3	0.5	390	414	0.9	2	0.24	0.05	89	57	1	0.5
7314	2014	02D/12	581610	5398671	21	C	50	310	0.025	5.89	7.3	9	0.5	390	407	1.2	32	0.23	0.05	71	57	1	2
7315	2014	02D/12	579945	5397798	21	C	70	297	0.025	4.81	6	7	0.5	400	398	1	18	0.39	0.05	80	41	1	1
7316	2014	02D/12	575302	5391377	21	C	55	264	0.025	7.4	9	10	0.5	410	398	1.3	8	0.57	0.1	120	52	3	3
7317	2014	02D/12	576017	5387034	21	C	65	262	0.025	5.83	14	15	0.5	590	585	1.5	16	0.75	0.1	100	69	4	5
7318	2014	02D/12	574944	5385348	21	C	45	352	0.025	5.63	3.9	6	0.5	630	662	1.3	60	0.51	0.05	240	102	1	1
7319	2014	02D/12	578836	5383377	21	C	65	231	0.025	6.12	13	14	0.5	470	483	1.4	13	0.5	0.1	110	62	7	7
7320	2014	02D/12	576768	5378418	21	C	55	305	0.025	6.43	10	11	0.5	350	392	1.3	34	0.54	0.1	79	45	8	8
7322	2014	02D/12	578987	5378872	21	C	55	272	0.025	8.33	6.5	8	0.5	380	396	2.1	11	0.5	0.1	140	79	10	9
7323	2014	02D/12	579016	5376900	21	C	55	290	0.025	6.75	3.9	6	0.5	440	406	1.4	11	1.2	0.2	180	115	6	6
7324	2014	02D/12	581233	5378876	21	C	55	256	0.025	4.71	3	4	0.5	240	238	1.1	38	0.56	0.1	85	49	1	4
7325	2014	02D/12	583097	5378814	21	BC	45	279	0.025	6.06	11	11	0.5	290	290	1.5	21	0.43	0.2	74	38	4	4
7326	2014	02D/12	585425	5378536	21	C	50	223	0.025	6.17	10	10	0.5	230	240	1.5	15	0.43	0.1	81	42	5	4
7327	2014	02D/12	587397	5378870	21	C	55	272	0.025	6.24	12	13	0.5	270	250	1.4	73	0.4	0.1	82	51	1	4
7328	2014	02D/12	590310	5379085	21	C	50	287	0.025	4.42	0.9	3	0.5	340	359	0.8	2	0.19	0.05	180	98	1	2
7329	2014	02D/12	592324	5379319	21	BC	50	287	0.025	5.15	4.2	5	0.5	220	209	1.3	29	2.31	0.3	98	84	16	13

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SAMPLE_NUM	Year	NTS_MAP	UTMEAST NAD 27	UTMNORTH NAD 27	UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm	
7330	2014	02D/12	594128	5378726	21	C	45	306	0.025	7.3	11	12	0.5	270	289	2.2	38	0.48	0.1	130	58	7	7	100
7331	2014	02D/12	597294	5379286	21	C	55	263	0.025	5.32	30	27	0.5	270	250	1.3	52	0.3	0.1	120	54	1	4	61
7332	2014	02D/12	599543	5378563	21	C	60	267	0.025	5.03	6	7	0.5	470	455	1.3	4	0.22	0.05	110	51	1	2	51
7333	2014	02D/12	601082	5380054	21	C	55	239	0.025	5.13	10	12	0.5	180	218	1.2	16	0.37	0.05	51	40	4	4	54
7334	2014	02D/12	603525	5379730	21	BC	50	224	0.025	5.86	2.7	4	0.5	460	509	1.5	6	0.57	0.05	47	25	1	3	48
7335	2014	02D/12	605486	5380273	21	C	55	207	0.025	5.48	3.9	5	0.5	340	376	1.3	4	0.54	0.05	54	42	3	3	90
7336	2014	02D/12	601923	5375939	21	C	55	239	0.025	4.31	16	17	0.5	220	241	1.4	42	0.33	0.05	99	65	1	3	59
7337	2014	02D/12	599563	5374995	21	C	65	274	0.025	5.34	12	12	0.5	390	374	1.8	9	0.43	0.05	100	84	6	6	61
7338	2014	02D/12	597458	5374982	21	BC	50	239	0.025	7.83	11	12	0.5	330	332	1.9	26	0.45	0.1	97	67	7	7	88
7339	2014	02D/12	594930	5374685	21	C	55	281	0.025	7	16	18	0.5	310	341	1.7	40	0.5	0.1	120	78	5	5	89
7341	2014	02D/12	592755	5374692	21	C	50	319	0.025	7.56	6.7	8	0.5	310	330	1.4	26	0.49	0.1	130	59	4	5	92
7342	2014	02D/12	591003	5374734	21	C	50	311	0.025	6.03	5.7	7	0.5	220	245	1.4	62	0.71	0.1	89	68	1	5	75
7343	2014	02D/12	588461	5374825	21	C	50	266	0.025	5.99	6.5	7	0.5	160	173	0.9	89	0.97	0.2	57	53	1	6	150
7344	2014	02D/12	586371	5374883	21	C	50	263	0.025	6.24	6.3	8	0.5	210	227	1.5	37	0.86	0.2	96	83	6	7	220
7345	2014	02D/12	584126	5374701	21	C	40	280	0.025	5.37	5	7	0.5	270	284	1.5	23	0.78	0.1	120	101	5	6	210
7346	2014	02D/12	581713	5374925	21	C	50	265	0.025	5.14	4.3	6	0.5	310	314	1.3	24	0.69	0.1	140	118	4	5	250
7347	2014	02D/12	578918	5374806	21	C	50	276	0.025	7.35	6.3	7	0.5	260	279	1.4	26	0.51	0.2	83	49	4	5	210
7348	2014	02D/12	576915	5374457	21	C	50	316	0.025	5.3	8.6	10	0.5	310	320	1.2	48	0.4	0.1	63	37	1	3	420
7349	2014	02D/12	575138	5374591	21	C	55	289	0.025	6.79	16	15	0.5	360	368	1.5	69	0.43	0.2	97	60	2	4	350
7350	2014	02D/12	590481	5395782	21	C	45	419	0.025	4.49	6	5	0.5	470	435	1.6	8	0.35	0.05	98	64	2	3	61
7351	2014	02D/12	589832	5399134	21	C	60	322	0.025	4.58	14	14	0.5	380	395	1.3	20	0.28	0.05	90	59	1	2	56
7352	2014	02D/12	587103	5399800	21	C	55	324	0.025	4.05	5.4	5	0.5	480	386	1.2	16	0.22	0.05	77	63	1	2	34
7353	2014	02D/12	601721	5373841	21	C	55	221	0.025	4.51	13	13	0.5	300	292	1.6	11	0.42	0.05	100	42	3	4	62
7354	2014	02D/12	602485	5374639	21	C	65	223	0.025	4.46	19	17	0.5	310	293	1.5	13	0.37	0.1	160	62	5	5	73
7355	2014	02D/12	603407	5375390	21	C	65	224	0.025	5.2	18	17	0.5	330	319	1.5	23	0.34	0.1	100	43	5	5	67
7356	2014	02D/12	604306	5376067	21	C	60	207	0.025	5.31	17	16	0.5	370	356	1.6	20	0.29	0.1	110	50	4	5	69
7357	2014	02D/05	604878	5372387	21	C	65	199	0.025	4.71	77.8	68	10	290	277	1.5	24	0.34	0.2	99	56	4	5	70
7358	2014	02D/12	605682	5373285	21	C	65	182	0.025	3.65	14	12	0.5	210	197	1.5	4	0.35	0.05	86	45	5	4	58
7359	2014	02D/12	606517	5373894	21	C	60	181	0.025	4	25	20	0.5	250	219	1.4	2	0.32	0.1	130	67	9	7	79
7361	2014	02D/12	606215	5375099	21	C	65	204	0.025	5.76	17	16	0.5	320	325	1.8	4	0.26	0.1	94	54	10	8	67
7362	2014	02D/12	605423	5375692	21	C	60	203	0.025	4.21	23	19	0.5	250	246	1.4	2	0.33	0.1	100	52	6	5	69
7363	2014	02D/12	604007	5377143	21	C	60	235	0.025	5.78	21	20	0.5	360	357	1.8	11	0.32	0.1	120	66	8	7	86
7364	2014	02D/12	605523	5377932	21	C	60	226	0.025	6.04	65.8	58	2	460	438	1.9	14	0.2	0.2	100	62	6	6	82
7365	2014	02D/12	606631	5377173	21	C	55	197	0.025	4.71	7.8	8	0.5	290	286	1.4	14	0.39	0.05	81	46	4	4	75
7366	2014	02D/12	607958	5376156	21	C	55	175	0.025	4.85	19	18	0.5	260	273	1.4	20	0.32	0.1	77	49	5	4	64
7367	2014	02D/12	607671	5377729	21	C	65	176	0.025	4.13	27	23	0.5	250	231	1.3	12	0.31	0.2	80	48	7	6	89
7368	2014	02D/12	608223	5378995	21	C	60	195	0.025	4.17	18	17	0.5	240	236	1.3	19	0.29	0.1	76	49	5	5	74
7369	2014	02D/12	608545	5380129	21	C	60	200	0.025	4.26	13	12	0.5	300	287	1.3	2	0.32	0.1	88	57	6	5	83
7370	2014	02D/12	608514	5381427	21	C	60	175	0.025	4.88	11	11	0.5	250	262	1.3	16	0.3	0.05	58	40	4	4	68
7372	2014	02D/12	574007	5383133	21	C	70	294	0.025	5.51	3.8	4	0.5	700	629	1.4	2	0.91	0.1	130	51	3	3	31
7373	2014	02D/12	575299	5383887	21	C	65	264	0.025	5.73	7.9	8	0.5	570	520	1.3	14	0.99	0.05	110	45	6	6	62
7374	2014	02D/12	574144	5378054	21	C	60	281	0.025	6.28	30	27	8	460	459	1.6	3	0.84	0.2	98	50	19	14	300
7375	2014	02D/12	575279	5378772	21	C	60	264	0.025	5.8	16	15	0.5	450	420	1.5	8	0.91	0.2	95	57	11	9	180
7376	2014	02D/12	575249	5380075	21	C	55	309	0.025	6.52	12	12	0.5	480	477	1.6	19	0.5	0.1	92	47	8	8	93
7377	2014	02D/12	576127	5380116	21	C	60	254	0.025	6.52	15	14	0.5	440	419	1.7	7	0.9	0.2	100	67	20	14	180
7378	2014	02D/12	576596	5381412	21	C	65	239	0.025	5.82	11	11	0.5	430	390	1.5	35	0.75	0.1	110	50	10	8	140
7379	2014	02D/12	575719	5382434	21	C	65	276	0.025	6.21	123	104	0.5	580	539	1.8	9	0.72	0.3	140	44	7	6	74
7381	2014	02D/12	576546	5384011	21	C	60	258	0.025	5.73	7.7	7	0.5	580	559	1.4	13	0.75	0.05	100	53	5	4	52

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST NAD 27	UTMNORTH NAD 27	UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm	
7382	2014	02D/12	576055	5385763	21	C	60	276	0.025	5.83	36	32	0.5	530	527	1.4	29	0.79	0.05	80	34	6	6	37
7383	2014	02D/12	576649	5387933	21	C	60	254	0.025	5.66	8.9	8	0.5	500	493	1.4	18	0.78	0.05	84	38	3	4	41
7384	2014	02D/11	611829	5374560	21	C	50	176	0.025	4.44	19	16	0.5	260	255	1.6	4	0.36	0.05	83	58	16	12	280
7385	2014	02D/11	611119	5376290	21	C	55	167	0.025	4.54	8.7	8	0.5	270	283	1.4	4	0.57	0.1	67	45	18	14	910
7386	2014	02D/11	611054	5378652	21	BC	45	179	0.025	2.69	8.4	7	0.5	170	176	0.8	7	0.26	0.2	47	51	130	82	3880
7387	2014	02D/11	610785	5381033	21	C	60	169	0.025	3.79	57	49	0.5	250	234	1.3	8	0.51	0.05	85	48	13	10	280
7388	2014	02D/12	610348	5383204	21	C	55	141	0.025	4.45	22	20	0.5	210	205	1	26	0.15	0.05	69	36	2	3	91
7389	2014	02D/11	610618	5385176	21	C	50	135	0.025	4.71	36	33	2	300	295	1.4	10	0.23	0.05	87	59	12	10	78
7390	2014	02D/11	610874	5386794	21	C	55	149	0.025	4.85	8.1	7	0.5	300	310	1.3	8	0.23	0.05	69	54	5	5	83
7391	2014	02D/12	577807	5391544	21	C	65	284	0.025	5.72	7.4	8	0.5	730	660	1.3	25	0.6	0.05	130	54	1	2	25
7392	2014	02D/12	578823	5390657	21	C	70	263	0.025	5.08	7	7	0.5	570	511	1.3	2	0.74	0.05	110	54	4	4	53
7393	2014	02D/12	580587	5391291	21	C	65	346	0.025	5.29	6.6	7	0.5	490	448	1.1	22	0.78	0.05	79	44	4	4	56
7394	2014	02D/12	580782	5390200	21	C	60	269	0.025	5	6.5	6	0.5	460	437	1.2	11	0.72	0.1	94	48	8	6	64
7395	2014	02D/12	581549	5389042	21	C	55	236	0.025	5.7	11	11	9	440	423	1.3	5	0.74	0.1	90	50	10	7	110
7396	2014	02D/12	580199	5388038	21	C	60	245	0.025	6.15	12	12	0.5	450	445	1.5	12	0.62	0.1	84	51	9	7	74
7397	2014	02D/12	580063	5386394	21	C	60	236	0.025	5.21	10	9	0.5	460	416	1.1	13	0.84	0.1	83	43	12	8	120
7398	2014	02D/12	587561	5388280	21	C	55	217	0.025	4.53	7.4	7	0.5	380	360	1.3	9	0.49	0.05	88	50	4	4	190
7399	2014	02D/12	586496	5389338	21	C	50	249	0.025	5.11	7.4	8	0.5	350	357	1.3	14	0.47	0.05	57	46	3	49	72
7400	2014	02D/11	643589	5400216	21	C	45	179	0.025	7.07	37	32	6	300	286	1.7	11	0.52	0.2	67	59	21	17	170
7401	2014	02D/11	643462	5398303	21	C	50	177	0.025	7.33	38	37	0.5	290	281	1.9	13	0.52	0.2	120	100	17	19	160
7403	2014	02D/11	641988	5395270	21	C	50	227	0.025	7.01	17	18	0.5	190	211	1.3	29	0.49	0.1	71	50	10	9	290
7404	2014	02D/11	644808	5392664	21	C	150	188	0.025	4.86	30	25	6	220	199	1	4	1.17	0.1	64	43	17	10	650
7405	2014	02D/11	644484	5391048	21	BC	60	206	0.025	6.36	40	36	0.5	430	405	1.5	9	0.49	0.1	75	55	16	16	280
7406	2014	02D/11	645438	5388702	21	C	50	194	0.025	8.5	11	13	0.5	290	345	1.6	78	0.33	0.05	31	27	3	5	160
7407	2014	02D/11	644136	5387665	21	C	60	194	0.025	5.17	21	18	0.5	240	225	1.2	69	0.43	0.05	61	40	7	7	410
7408	2014	02D/11	643307	5389936	21	C	50	221	0.025	6.01	19	14	0.5	470	370	1.5	12	0.33	0.05	80	51	15	9	380
7409	2014	02D/11	645247	5385804	21	C	60	239	0.025	8.88	28	27	0.5	720	729	2.8	21	0.7	0.2	31	32	12	10	150
7410	2014	02D/11	646035	5383951	21	C	55	248	0.025	5.78	38	35	0.5	290	290	2	21	0.38	0.05	83	50	9	8	280
7411	2014	02D/11	646989	5381492	21	C	60	254	0.025	5.51	13	12	0.5	300	291	2.8	16	0.58	0.05	88	50	8	7	200
7412	2014	02D/11	647074	5379574	21	C	65	228	0.025	5.15	15	13	0.5	300	276	3.4	1	0.6	0.05	110	55	11	8	270
7413	2014	02D/11	647518	5377953	21	C	50	236	0.025	5.42	16	15	0.5	300	279	2.6	6	0.42	0.05	75	43	12	9	330
7414	2014	02D/11	647316	5375829	21	C	75	272	0.025	6.09	22	20	0.5	340	332	3.1	0.5	0.53	0.1	76	55	18	13	360
7415	2014	02D/11	647617	5373762	21	C	65	-9	0.025	6.68	38	35	0.5	230	205	3.9	32	0.53	0.05	58	27	11	9	360
7416	2014	02D/11	643615	5373817	21	C	50	260	0.025	5.11	8.4	7	13	310	283	2.1	3	0.48	0.05	56	37	11	7	500
7417	2014	02D/11	640032	5373683	21	C	45	219	0.025	4.44	19	15	0.5	200	179	1.7	7	0.51	0.1	80	33	14	9	730
7418	2014	02D/11	643553	5375511	21	C	90	213	0.025	4.75	22	18	34	220	210	2.4	12	0.6	0.1	87	51	14	11	610
7419	2014	02D/11	643348	5377503	21	C	70	258	0.025	6.16	55	48	0.5	320	318	2.5	11	0.55	0.05	81	48	12	9	250
7420	2014	02D/11	636283	5374871	21	C	110	225	0.025	4.97	21	18	7	290	278	1.2	7	0.55	0.05	70	50	15	10	580
7422	2014	02D/11	634651	5377238	21	C	65	220	0.025	5.69	22	19	0.5	240	229	1.3	43	0.4	0.05	97	63	16	13	460
7423	2014	02D/11	636490	5377891	21	C	75	223	0.025	6.22	38	33	0.5	370	350	1.8	8	0.33	0.05	110	85	30	21	450
7424	2014	02D/11	637574	5381662	21	BC	25	211	0.025	5.44	2.1	1	0.5	220	233	1.1	14	0.09	0.05	29	18	2	2	210
7425	2014	02D/11	637934	5383659	21	C	75	186	0.025	5.87	32	27	11	270	256	1.4	13	0.47	0.1	93	65	22	15	580
7426	2014	02D/11	640762	5385371	21	C	50	183	0.025	5.08	13	10	0.5	210	199	1	33	0.51	0.05	60	31	8	7	1030
7427	2014	02D/11	633475	5381457	21	C	75	199	0.025	5.81	34	28	0.5	280	243	1.3	15	0.46	0.1	130	92	24	16	540
7428	2014	02D/11	629944	5379900	21	C	65	202	0.025	6.28	30	27	0.5	230	244	1.3	28	0.35	0.05	70	63	18	16	400
7429	2014	02D/11	628371	5378581	21	C	65	210	0.025	6.35	243	218	4	240	248	1.4	19	0.28	0.05	92	82	27	21	470
7430	2014	02D/11	627107	5373209	21	C	65	238	0.025	6.19	20	18	0.5	340	322	1.3	2	0.54	0.05	59	53	12	9	330
7431	2014	02D/11	623972	5373039	21	C	75	190	0.025	5.28	18	15	85	250	229	1.1	13	0.32	0.1	80	56	16	13	460

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST	UTMNORTH	UTMZONE	Soil	Depth	Elevation	Ag6	Al2	As1	As2	Au1	Ba1	Ba2	Be2	Br1	Ca2	Cd2	Ce1	Co1	Co2	Cr1	
			NAD 27	NAD 27	NAD 27	Horizon	cm	m	ppm	pct	ppm	ppm	ppb	ppm	ppm	ppm	ppm	pct	ppm	ppm	ppm	ppm	ppm	
7432	2014	02D/11	613794	5375827	21	C	75	188	0.025	4.37	13	10	0.5	240	233	1.2	2	0.27	0.05	80	53	24	16	760
7433	2014	02D/11	616046	5375532	21	C	50	180	0.025	4.26	10	8	3	190	175	0.9	25	0.34	0.05	57	35	14	10	1170
7434	2014	02D/11	618139	5375372	21	C	65	196	0.025	5.42	26	23	3	240	229	1.1	22	0.39	0.05	66	53	27	18	1110
7435	2014	02D/11	620578	5374537	21	C	90	199	0.025	5.78	31	25	0.5	310	280	1.4	3	0.39	0.05	88	62	34	22	570
7437	2014	02D/11	619506	5376754	21	C	75	203	0.025	7.15	18	18	0.5	210	220	1.2	66	0.53	0.1	67	57	20	18	510
7438	2014	02D/11	623514	5382395	21	C	75	149	0.025	6.18	12	12	0.5	240	217	1.3	22	0.92	0.05	87	72	14	10	380
7439	2014	02D/11	630576	5389171	21	C	70	169	0.025	8.82	20	18	0.5	430	385	1.9	3	0.13	0.1	97	78	23	16	170
7440	2014	02D/11	633389	5393191	21	C	65	201	0.025	7.14	7.9	8	0.5	190	184	1.2	33	1.64	0.05	49	41	12	9	180
7441	2014	02D/11	635573	5395117	21	BC	35	149	0.025	7.18	6.6	7	0.5	270	284	1.2	27	0.09	0.2	77	62	15	12	140
7442	2014	02D/11	636925	5394077	21	BC	30	182	0.3	6.79	16	16	0.5	160	192	1.7	72	0.27	0.3	34	41	8	8	100
7443	2014	02D/11	623053	5399749	21	C	75	288	0.025	7.46	4.3	5	0.5	220	214	1.5	46	2.58	0.1	57	45	12	9	120
7444	2014	02D/11	615093	5399665	21	C	50	165	0.025	6.21	3.3	4	20	260	255	1.2	39	1.86	0.1	48	42	12	9	120
7445	2014	02D/11	611238	5400205	21	C	55	145	0.025	4.99	12	11	0.5	320	312	1.5	6	0.19	0.05	100	79	8	7	98
7446	2014	02D/11	612132	5394783	21	C	60	198	0.025	4.97	10	9	0.5	340	313	1.5	0.5	0.71	0.05	75	66	10	7	110
7447	2014	02D/11	613246	5393032	21	C	70	193	0.025	8.09	10	12	0.5	320	350	2.8	37	0.4	0.2	140	125	14	13	140
7448	2014	02D/11	614788	5393592	21	C	40	228	0.025	5.01	5.2	5	1	310	313	1.2	5	0.61	0.05	55	50	9	7	110
7449	2014	02D/11	617018	5394302	21	C	80	217	0.025	7.15	3	4	0.5	200	202	1.4	45	2.08	0.1	43	36	9	8	130
7450	2014	02D/11	618580	5392594	21	C	65	214	0.025	7.15	5.2	6	0.5	220	216	1.3	54	1.75	0.1	48	41	11	10	140
7451	2014	02D/11	623035	5388884	21	C	70	205	0.025	7.13	7.9	8	0.5	270	259	1.2	21	2.04	0.2	68	55	18	13	160
7452	2014	02D/11	624669	5385665	21	C	60	147	0.025	7.22	5.9	6	0.5	350	345	1.1	11	1.65	0.1	41	33	26	16	640
7453	2014	02D/11	622700	5385011	21	BC	45	152	0.025	8.87	11	11	0.5	200	203	1.6	50	0.95	0.2	62	48	16	13	200
7454	2014	02D/11	620221	5385163	21	C	65	139	0.025	6.59	14	13	0.5	300	319	1.5	13	0.91	0.1	81	69	28	20	550
7455	2014	02D/11	618296	5386087	21	C	55	111	0.025	6.39	8.4	9	0.5	200	204	1.1	30	1.26	0.1	66	52	15	12	170
7457	2014	02D/11	617251	5387716	21	C	65	154	0.025	5.2	6.8	7	0.5	310	302	1.3	20	0.35	0.05	79	69	9	7	110
7458	2014	02D/11	614185	5384241	21	C	75	185	0.025	6.03	12	12	0.5	390	388	1.7	2	0.16	0.05	89	62	9	7	110
7459	2014	02D/11	612892	5386204	21	C	70	181	0.025	5.04	3.8	4	8	340	328	1.4	4	0.2	0.05	87	59	7	5	100
7460	2014	02D/11	611729	5380859	21	C	80	214	0.025	4.05	13	12	0.5	280	270	1.3	1	0.26	0.05	75	64	57	38	350
7461	2014	02D/11	615397	5380249	21	C	55	205	0.025	0.75	41	33	3	25	41	0.2	11	0.06	0.05	9	12	140	87	1810
7462	2014	02D/11	615295	5377000	21	C	65	219	0.025	4.05	13	11	17	260	240	1.1	2	0.32	0.1	86	53	31	22	1030
7463	2014	02D/11	617324	5377057	21	BC	45	186	0.025	10.61	9.2	8	0.5	120	110	0.9	75	0.49	0.1	33	24	15	12	330
7464	2014	02D/12	606054	5391720	21	BC	35	173	0.025	4.96	10	9	2	200	193	1	16	0.16	0.05	66	42	4	118	77
7465	2014	02D/12	605207	5389696	21	C	65	201	0.025	4.42	13	11	0.5	290	271	1.3	2	0.23	0.05	92	57	8	179	84
7466	2014	02D/12	603957	5386703	21	C	45	218	0.025	4.25	15	12	0.5	270	242	1.3	2	0.38	0.05	67	40	6	12	56
7467	2014	02D/12	604337	5384240	21	C	50	228	0.025	5.35	33	27	0.5	340	308	1.6	7	0.29	0.05	78	49	10	9	89
7468	2014	02D/12	604833	5382165	21	C	65	213	0.025	4.34	14	12	0.5	270	247	1.3	12	0.36	0.05	76	56	6	5	91
7469	2014	02D/12	602712	5384199	21	BC	50	249	0.025	7.65	17	15	0.5	330	314	2	56	0.26	0.1	70	43	6	6	95
7470	2014	02D/12	600249	5383592	21	BC	35	243	0.025	4.87	9	8	0.5	320	308	1	13	0.16	0.05	89	45	2	3	73
7471	2014	02D/12	598474	5383502	21	C	55	250	0.025	4.42	7.3	6	0.5	290	248	1.4	9	0.54	0.05	100	45	6	4	76
7472	2014	02D/12	596396	5383577	21	C	35	280	0.025	5.35	24	19	0.5	290	259	1.2	20	0.32	0.05	78	30	3	3	94
7473	2014	02D/12	594207	5383367	21	C	50	221	0.025	4.89	19	15	0.5	350	290	1.4	37	0.46	0.05	88	62	7	5	130
7474	2014	02D/12	591877	5383467	21	C	50	250	0.025	4.93	3	3	0.5	380	359	1.3	4	0.41	0.05	100	64	2	2	100
7475	2014	02D/12	589522	5383204	21	BC	45	243	0.025	4.97	13	11	0.5	320	299	1.4	39	0.53	0.05	76	70	3	4	110
7476	2014	02D/12	587214	5383095	21	C	45	214	0.025	4.76	13	11	0.5	340	321	1.6	2	0.63	0.05	97	73	4	5	120
7477	2014	02D/12	584006	5382538	21	C	60	277	0.025	4.63	1.7	2	0.5	350	309	1.4	4	0.66	0.05	120	81	4	4	170
7478	2014	02D/12	582478	5382698	21	C	65	276	0.025	6.63	28	24	0.5	460	414	2	6	0.51	0.05	130	84	10	8	170
7479	2014	02D/12	582765	5386848	21	C	59	207	0.025	5.12	8	7	0.5	430	391	1.2	21	0.67	0.05	86	36	5	4	370
7480	2014	02D/12	585579	5385360	21	BC	30	227	0.025	5.36	6.9	6	0.5	370	355	1.3	29	0.43	0.1	85	31	1	1	96
7481	2014	02D/12	590084	5385013	21	C	70	205	0.025	4.39	19	16	0.5	270	253	1.3	16	0.64	0.05	100	51	6	5	120

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST NAD 27	UTMNORTH NAD 27	UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm	
7482	2014	02D/12	582213	5385125	21	BC	35	247	0.025	6.54	44	36	3	370	340	1.5	16	0.98	0.05	94	66	30	20	590
7483	2014	02D/12	592106	5385810	21	C	65	202	0.025	4.05	18	15	0.5	290	285	1.3	6	0.43	0.05	96	61	18	13	270
7484	2014	02D/12	596915	5385539	21	C	75	243	0.025	6.15	14	13	3	430	368	1.7	43	0.4	0.05	82	65	6	5	130
7485	2014	02D/12	599375	5386586	21	BC	35	224	0.025	3.58	6.8	6	0.5	260	254	0.8	6	0.27	0.05	38	34	1	0.5	79
7486	2014	02D/12	601265	5386701	21	BC	40	224	0.4	6.71	4.8	6	0.5	190	212	1.5	42	0.43	0.1	57	43	4	3	88
7487	2014	02D/12	602687	5388317	21	C	65	208	0.025	6.24	9.1	10	0.5	200	228	1.5	88	0.36	0.05	51	39	1	3	80
7488	2014	02D/12	598051	5396242	21	C	55	170	0.025	5.02	10	10	0.5	360	351	1.6	2	0.39	0.05	110	67	8	6	130
7490	2014	02D/12	598602	5398352	21	C	65	176	0.025	4.98	17	15	0.5	370	330	1.6	5	0.38	0.05	120	82	10	7	170
7491	2014	02D/12	598966	5399963	21	BC	45	181	0.025	5	11	10	0.5	360	311	1.5	20	0.27	0.05	84	58	8	5	140
7492	2014	02D/12	591276	5399570	21	C	55	284	0.025	5.68	15	15	0.5	450	420	1.7	14	0.22	0.05	74	55	1	2	64
7493	2014	02D/12	591916	5397391	21	C	45	234	0.025	4.55	17	16	0.5	460	447	1.6	3	0.43	0.05	83	66	3	2	71
7494	2014	02D/12	594018	5397731	21	C	65	201	0.025	4.6	19	17	0.5	430	414	1.7	2	0.23	0.05	66	55	4	3	60
7495	2014	02D/12	591351	5395014	21	BC	35	300	0.025	5.52	16	17	0.5	290	307	1	52	0.24	0.05	55	46	1	0.5	77
7496	2014	02D/12	591737	5393173	21	BC	45	279	0.025	5.55	22	22	0.5	270	274	1.4	45	0.27	0.1	64	51	2	3	100
7497	2014	02D/12	591908	5390075	21	BC	55	227	0.025	5.53	13	12	0.5	250	260	1.2	37	0.31	0.05	65	54	3	4	110
7498	2014	02D/12	588902	5395304	21	C	45	305	0.025	6.1	7.4	8	0.5	370	379	1.5	68	0.31	0.2	85	68	3	6	86
7499	2014	02D/12	589776	5397380	21	C	65	312	0.025	5.21	8.6	8	0.5	420	409	1.6	15	0.26	0.1	130	103	3	3	61
7500	2014	02D/12	588986	5399057	21	C	55	249	0.025	5.54	11	11	0.5	360	353	1.4	38	0.28	0.05	97	74	3	4	73
7501	2014	02D/12	583794	5399595	21	C	45	340	0.025	6	9.2	7	0.5	450	401	1.5	8	0.4	0.05	95	47	3	2	41
7502	2014	02D/12	583615	5396758	21	C	55	336	0.025	5.22	14	11	0.5	500	452	1.5	3	0.33	0.05	82	49	1	2	41
7503	2014	02D/12	584723	5394624	21	C	70	304	0.025	4.85	8.3	7	0.5	470	414	1.4	10	0.44	0.05	110	60	3	3	65
7504	2014	02D/12	582262	5393900	21	C	45	300	0.025	5.14	5.1	4	0.5	480	442	1.2	8	0.47	0.05	70	30	2	2	37
7505	2014	02D/12	579350	5395503	21	C	75	307	0.025	5.56	6.2	5	0.5	580	543	1.3	11	0.53	0.05	100	38	1	2	32
7506	2014	02D/12	576116	5389160	21	C	50	252	0.025	5.57	5.4	5	0.5	560	537	1.1	6	0.58	0.05	86	22	2	2	29
7507	2014	02D/12	574019	5389414	21	C	45	257	0.025	5.48	5.7	4	0.5	550	514	1.2	2	0.6	0.05	67	18	4	3	26
7508	2014	02D/12	574055	5386913	21	C	70	332	0.025	5.41	5.9	6	0.5	650	654	1.2	26	0.56	0.05	150	33	1	1	29
7510	2014	02D/12	574257	5380586	21	C	80	310	0.025	5.79	13	10	0.5	550	506	1.6	2	0.64	0.05	110	38	6	5	63
7511	2014	02D/12	574769	5376152	21	C	65	290	0.025	6.98	7.6	7	0.5	490	506	1.9	2	0.56	0.05	93	47	12	8	1360
7512	2014	02D/12	577283	5376543	21	C	60	292	0.025	6.97	11	9	0.5	480	432	1.8	8	0.52	0.1	140	55	17	12	330
7513	2014	02D/12	581127	5376738	21	C	65	266	0.025	6.04	10	8	0.5	310	274	1.5	79	0.56	0.05	72	29	3	6	190
7514	2014	02D/12	583189	5376412	21	C	70	256	0.025	5.44	5.9	6	0.5	370	349	1.4	12	0.85	0.1	130	110	7	4	180
7515	2014	02D/12	586179	5376105	21	C	65	235	0.025	4.36	5.2	5	0.5	260	263	1.3	0.5	0.77	0.05	85	72	8	5	160
7516	2014	02D/12	588360	5376628	21	C	65	296	0.025	5.62	6.5	7	0.5	250	260	1.4	18	0.85	0.05	99	70	6	4	160
7517	2014	02D/12	590347	5376547	21	C	75	316	0.025	5.65	6.2	7	0.5	300	313	1.5	12	0.67	0.05	120	82	8	6	110
7518	2014	02D/12	592914	5376908	21	C	65	299	0.025	6.01	45	43	0.5	310	320	1.6	22	0.68	0.05	150	95	7	5	93
7519	2014	02D/12	595406	5376873	21	C	65	299	0.025	7.4	26	25	0.5	400	436	3.1	9	0.42	0.05	160	66	5	3	83
7520	2014	02D/12	597197	5377053	21	C	65	254	0.025	6.29	12	12	0.5	310	347	1.9	13	0.47	0.05	110	56	6	4	69
7521	2014	02D/12	599218	5376832	21	BC	35	260	0.025	5.31	13	12	0.5	270	275	1.3	24	0.41	0.05	81	39	3	2	66
7522	2014	02D/12	601349	5377607	21	C	45	249	0.025	3.78	12	12	0.5	220	216	1.3	10	0.41	0.05	77	67	4	2	60
7523	2014	02D/12	603710	5377813	21	C	55	257	0.025	5.38	58.1	54	0.5	210	205	1.2	56	0.27	0.05	76	53	1	2	66
7524	2014	02D/12	602366	5373281	21	C	75	218	0.025	4.36	5.6	6	0.5	300	292	1.5	2	0.4	0.05	110	83	3	0.5	50
7525	2014	02D/12	600174	5372676	21	C	80	234	0.025	5.01	13	13	0.5	360	358	1.9	2	0.42	0.05	100	76	6	3	53
7527	2014	02D/12	597743	5372565	21	C	55	237	0.025	4.25	3.3	4	0.5	220	217	2	1	0.65	0.05	96	68	3	2	40
7528	2014	02D/05	595476	5372454	21	C	75	262	0.025	4.49	6.4	7	0.5	330	307	1.4	4	0.62	0.05	140	78	4	2	71
7529	2014	02D/12	593459	5372613	21	C	80	284	0.025	5.64	6.3	7	0.5	420	449	1.6	7	0.58	0.05	160	84	4	2	74
7530	2014	02D/05	591083	5372373	21	C	75	320	0.025	6.49	8.4	9	0.5	360	398	1.7	27	0.65	0.05	110	73	8	7	100
7531	2014	02D/12	588783	5372642	21	C	75	319	0.025	6.14	6.9	8	0.5	380	384	1.6	5	0.75	0.1	120	112	9	6	140
7532	2014	02D/12	586271	5372539	21	C	50	269	0.025	7.86	1.5	4	0.5	600	600	1.2	21	1.04	0.1	220	197	1	0.5	91

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST	UTMNORTH	UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm
7533	2014	02D/12	583526	5372636	21	C	65	275	0.025	5.32	6.3	7	0.5	350	352	1.4	9	0.76	0.05	100	7	3	270
7534	2014	02D/12	581308	5372371	21	BC	45	282	0.025	5.25	3.1	4	0.5	260	274	1.3	15	0.94	0.1	98	88	7	3 280
7535	2014	02D/12	584474	5389785	21	C	55	250	0.025	5.47	11	10	0.5	380	389	1.5	20	0.57	0.1	83	63	6	4 98
7536	2014	02D/12	583174	5390103	21	C	55	264	0.025	5.26	9.2	9	0.5	470	457	1.4	16	0.62	0.05	78	65	9	7 76
7537	2014	02D/12	582565	5388545	21	C	60	237	0.025	5.59	10	9	0.5	430	468	1.4	16	0.57	0.05	77	48	6	6 100
7539	2014	02D/12	580236	5392825	21	C	65	311	0.025	4.67	5.9	5	0.5	550	514	1.2	4	0.62	0.05	97	44	3	3 46
7540	2014	02D/12	579368	5392407	21	C	55	331	0.025	5.09	6.4	6	0.5	490	476	1.2	13	0.64	0.05	67	33	4	3 42
7541	2014	02D/12	577031	5391257	21	C	65	274	0.025	5.19	4.3	4	0.5	560	589	1.2	12	0.59	0.05	99	31	1	2 30
7542	2014	11P/16	560225	5305892	21	C	80	201	0.025	6.78	2.6	5	0.5	320	318	2.2	108	1.02	0.05	72	59	1	3 130
7543	2014	11P/16	567311	5315612	21	C	60	322	0.2	3.93	7.6	8	0.5	340	335	1.1	16	0.79	0.05	18	19	4	4 110
7544	2014	12A/01	569418	5337561	21	C	60	278	0.025	6.05	19	21	1	350	384	1.6	95	0.67	0.05	38	41	3	5 130
7545	2014	12A/08	573780	5345008	21	C	60	256	0.025	5.15	5.3	6	1	360	340	1.6	10	0.69	0.05	99	60	8	7 290
7546	2014	12A/08	567500	5357500	21	C	60	-9	0.025	4.86	4.9	5	6	280	273	0.8	2	2.5	0.1	44	41	35	24 1400
7547	2014	12A/08	571631	5365847	21	C	60	346	0.025	0.22	1	1	0.5	25	17	0.05	14	0.05	0.05	1.5	11	160	110 700
7548	2014	12A/09	571129	5377456	21	C	50	376	0.025	5.7	3.8	5	0.5	610	584	1.9	3	0.76	0.05	120	25	2	2 40
7549	2014	11P/16	572228	5313412	21	C	50	262	0.025	4.38	9.1	9	0.5	190	184	1.4	25	0.92	0.05	82	37	6	5 230
7550	2014	01M/13	579428	5314350	21	C	55	229	0.025	5.17	3.3	7	0.5	220	240	1.2	79	0.55	0.05	62	36	1	3 110
7551	2014	01M/13	579844	5311855	21	C	50	262	0.025	6.53	5.1	9	0.5	230	279	1.9	63	0.5	0.05	74	42	1	5 130
7552	2014	01M/13	576489	5305321	21	BC	35	276	0.025	5.61	1.4	4	0.5	440	476	2.2	29	0.7	0.05	130	50	1	19 83
7553	2014	01M/13	586323	5311507	21	C	50	287	0.4	6.93	13	15	3	470	498	2	53	0.02	0.2	54	77	42	34 110
7554	2014	02D/04	586292	5317156	21	C	50	267	0.025	5.23	6.3	9	0.5	210	233	1.2	49	0.45	0.05	45	35	3	3 250
7555	2014	01M/13	596083	5316491	21	C	60	199	0.025	5.18	28	30	0.5	200	238	1.2	40	0.49	0.05	29	29	4	4 170
7556	2014	01M/13	599341	5315078	21	C	55	161	0.1	7.26	110	119	0.5	490	617	1.4	79	0.24	0.2	41	52	7	6 140
7557	2014	01M/13	598759	5316518	21	C	55	200	0.025	6.02	47	51	0.5	190	228	1.3	99	0.52	0.1	32	35	3	5 170
7558	2014	01M/13	607544	5316401	21	C	55	207	0.025	5.59	37	40	0.5	250	291	1.5	34	0.36	0.05	54	56	7	6 130
7559	2014	01M/13	610337	5315111	21	C	55	232	0.025	4.81	47	48	0.5	270	304	1.4	22	0.47	0.05	60	52	8	6 150
7561	2014	01M/13	576992	5316106	21	C	55	229	0.025	4.54	3.6	6	0.5	240	243	1.4	38	0.79	0.05	68	56	4	4 96
7562	2014	01M/13	580531	5316420	21	C	60	328	0.025	7.31	0.25	3	0.5	420	438	2	111	1.21	0.05	37	44	3	4 93
7563	2014	01M/13	580533	5316423	21	C	60	347	0.025	6.66	6.2	9	0.5	340	386	1.9	49	0.86	0.05	62	57	5	4 110
7564	2014	01M/13	579030	5311559	21	C	60	306	0.025	5.11	1.8	3	0.5	250	272	1.5	27	1.56	0.05	54	48	6	5 180
7565	2014	01M/13	588387	5310608	21	C	60	184	0.2	6.84	24	24	3	500	520	1.9	41	0.05	0.1	67	77	15	12 120
7566	2014	01M/13	588391	5310600	21	C	50	173	0.2	7.03	39	40	2	410	449	1.9	62	0.02	0.2	76	87	25	19 100
7567	2014	01M/13	594067	5313697	21	C	100	237	0.1	6.83	53.1	54	2	1200	1276	1.6	75	0.08	0.05	61	60	24	19 110
7568	2014	01M/13	594825	5311807	21	C	50	252	0.3	6.98	128	128	6	480	514	1.9	64	0.06	0.1	69	67	19	15 110
7569	2014	01M/13	594823	5311806	21	C	60	245	0.025	5.41	47	47	4	270	292	1.5	66	0.42	0.05	41	42	5	5 170
7570	2014	01M/13	598878	5312180	21	C	40	113	0.3	7.77	126	125	11	550	574	1.9	24	0.02	0.05	52	56	21	17 98
7571	2014	01M/13	607648	5312836	21	C	50	243	0.2	6.42	43	43	0.5	1000	1048	1.5	51	0.14	0.1	26	44	1	2 94
7572	2014	01M/13	610816	5309206	21	C	40	287	0.1	6.42	109	107	0.5	210	244	1	85	0.15	0.05	32	45	11	9 170
7573	2014	01M/13	595539	5303369	21	C	50	44	0.025	5.87	61.6	57	2	340	355	1.6	54	0.5	0.1	74	63	6	6 110
7574	2014	01M/13	601675	5303059	21	C	100	179	0.1	6.63	94	87	3	620	633	1.8	42	0.26	0.05	77	77	24	18 120
7575	2014	01M/13	601670	5303061	21	C	50	186	0.025	5.48	35	33	2	330	335	1.5	16	0.4	0.05	44	42	5	4 160
7576	2014	01M/13	579274	5303662	21	C	50	267	0.025	5.67	5.2	8	0.5	250	266	1.4	112	0.51	0.05	55	48	4	3 190
7577	2014	12A/01	572527	5318637	21	BC	70	260	0.025	4.55	0.25	1	0.5	250	268	2.5	9	0.74	0.05	84	32	1	0.5 130
7578	2014	12A/01	569877	5322373	21	BC	60	142	0.025	4.88	9	9	1	370	402	1.8	7	1.1	0.05	38	32	5	3 190
7580	2014	12A/01	569864	5322367	21	C	60	156	0.025	5.69	3.6	4	0.5	320	320	1.4	58	0.91	0.05	56	36	6	5 390
7581	2014	12A/01	568314	5328695	21	BC	65	351	0.025	6.42	0.25	1	0.5	510	511	1.7	9	3.43	0.05	14	21	12	9 100
7582	2014	12A/01	567246	5340187	21	C	30	304	0.025	6.45	8.2	9	0.5	300	313	1.2	9	0.54	0.05	20	23	5	4 260
7583	2014	12A/01	563348	5340862	21	C	50	279	0.025	4.42	2.6	3	0.5	260	282	0.7	5	0.48	0.05	29	22	1	2 120

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	NTS_MAP	UTMEAST NAD 27	UTMNORTH NAD 27	UTMZONE	Soil Horizon	Depth cm	Elevation m	Ag6 ppm	Al2 pct	As1 ppm	As2 ppm	Au1 ppb	Ba1 ppm	Ba2 ppm	Be2 ppm	Br1 ppm	Ca2 pct	Cd2 ppm	Ce1 ppm	Co1 ppm	Co2 ppm	Cr1 ppm	
7590	2014	01M/13	610528	5312199	21	C	55	196	-9	-9	105	-9	2	340	-9	-9	54	-9	-9	63	-9	3	-9	130
7591	2014	01M/13	608269	5306651	21	C	55	239	0.025	5.47	2.2	5	0.5	410	455	1.2	40	0.24	0.05	30	24	1	1	97
7592	2014	01M/13	604738	5304308	21	BC	35	161	0.025	10.67	21	27	0.5	430	502	3	92	0.14	0.2	100	108	6	8	86
7593	2014	01M/13	599847	5308583	21	C	55	103	0.1	5.57	67.1	63	2	360	376	1.7	7	0.38	0.1	55	64	13	11	130
7594	2014	01M/13	591282	5303611	21	C	40	168	0.025	5.48	12	14	0.5	300	344	1.4	2	0.03	0.05	60	59	1	2	120
7595	2014	01M/13	578875	5305653	21	C	40	233	0.1	8.8	1.6	5	0.5	670	646	1.8	72	5.3	0.4	31	48	43	31	650
7596	2014	12A/01	574253	5321433	21	C	55	272	0.025	5.48	6.6	9	0.5	220	239	1.7	40	0.75	0.05	57	46	4	4	200
7597	2014	12A/01	572745	5327106	21	C	55	217	0.025	4.26	2.1	4	0.5	230	233	1.3	27	0.79	0.05	64	45	4	3	300
7598	2014	12A/01	571834	5331611	21	C	50	297	0.1	4.58	1.8	4	1	280	301	1.3	25	0.67	0.05	59	42	4	3	270
7599	2014	12A/01	564920	5334942	21	C	55	257	0.025	4.59	1.8	3	0.5	310	321	0.9	4	1.19	0.05	40	26	4	3	780
7601	2014	12A/01	562690	5338628	21	C	50	294	0.3	9.27	7.2	8	0.5	550	559	1.4	27	0.15	0.2	22	38	21	11	160

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7001	2013	40	2.2	7	2.6	0.25	2.2	1.92	14	0.91	29	27	9.7	6.8	0.4	0.45	508	0.5	0.5	1.3	1.14	8	14	373	10	43	35	0.3	8	7.9	0.5
7002	2013	36	3.7	13	4	1.2	1.8	1.54	16	1.19	33	29	15.6	2.5	0.5	0.59	563	0.5	0.5	1.7	1.45	9	16	878	11	62	50	0.4	8.9	8.3	0.5
7003	2013	37	2.4	11	2.7	1.1	2.2	1.85	12	1.29	31	28	12.1	4.1	0.4	0.49	493	0.5	0.5	1.5	1.3	8	20	463	11	60	54	0.3	8.9	8.5	0.5
7004	2013	34	3.1	10	3.3	0.9	2.1	1.88	14	1.28	35	33	14.1	2.8	0.41	0.52	491	0.5	0.5	1.5	1.39	10	16	504	10	59	52	0.3	8.9	8.8	0.5
7005	2013	31	2.1	8	3.7	1.2	1.5	1.31	17	1.14	36	34	10.4	2.9	0.52	0.43	467	0.5	0.5	1.6	1.39	9	12	572	9	50	48	0.3	7.7	7.2	0.5
7006	2013	8	1.2	1	0.9	0.25	0.9	0.8	37	1.74	9	6	3.6	5.9	0.39	0.11	160	0.5	0.5	2.3	2.44	25	5	145	24	46	49	0.6	7.5	7.4	0.5
7007	2013	40	2.8	13	2.8	0.9	2.1	1.73	13	1.42	29	26	12.6	2.6	0.37	0.51	586	0.5	0.5	1.5	1.28	7	22	514	10	70	61	0.3	8.6	8.2	0.5
7008	2013	38	2.9	7	2.8	0.9	1.8	1.66	15	1.25	28	26	14.1	3.7	0.39	0.53	415	0.5	0.5	1.5	1.38	8	20	373	12	50	53	0.3	7.6	7.5	0.5
7009	2013	47	2.9	21	3.7	1	2.4	2.13	15	1.38	38	35	14.6	2.1	0.49	0.71	700	0.5	0.5	1.6	1.42	8	39	504	12	64	57	0.3	9.4	9	0.5
7010	2013	56	3.1	25	3.1	0.9	3.2	2.66	15	1.2	35	33	19.1	7.4	0.48	0.76	624	0.5	0.5	1.5	1.3	8	32	216	11	45	46	0.3	10	9.5	0.5
7011	2013	45	2.9	14	2.8	1.1	1.8	1.73	13	1.31	26	26	12.7	4.9	0.33	0.57	479	0.5	0.5	1.4	1.38	8	24	388	11	54	52	0.3	7.5	8.3	0.5
7012	2013	45	3.4	11	2.6	0.9	1.7	1.57	12	1.37	23	22	13.2	8.4	0.34	0.51	368	0.5	0.5	1.3	1.3	9	18	356	13	59	55	0.3	7.9	8.5	0.5
7013	2013	47	3.3	17	3.3	1.2	2.3	1.97	13	1.64	29	27	15.7	1.8	0.4	0.65	587	0.5	0.5	1.7	1.54	9	37	542	12	76	65	0.4	10	9.9	0.5
7014	2013	63	6.1	23	4.8	0.9	3.1	2.81	10	1.28	36	35	30.2	4	0.41	1.15	1602	0.5	1	1.5	1.35	7	37	337	14	60	53	0.2	10.7	11.2	0.5
7015	2013	59	4.2	10	2.2	0.7	2.7	2.33	13	1.21	22	18	16.7	8.3	0.33	0.55	449	0.5	0.5	1.5	1.38	8	24	318	15	49	50	0.4	8.6	8.6	0.5
7016	2013	66	11	12	2.8	0.6	3.1	2.84	11	1.75	23	21	30	6.5	0.35	0.89	428	1	1	1.4	1.32	11	23	356	15	73	71	0.2	10.9	11.4	0.5
7017	2013	38	2.8	10	2.8	0.8	1.8	1.48	15	1.25	28	23	11.4	3.6	0.43	0.5	417	0.5	0.5	1.7	1.47	8	23	351	11	56	50	0.4	7.6	7	0.5
7018	2013	42	3	12	2.9	0.9	1.8	1.4	13	1.36	27	24	12.6	2.3	0.42	0.55	381	0.5	0.5	1.9	1.6	9	19	547	11	61	57	0.4	9.4	8.4	0.5
7020	2013	48	3.8	12	3.2	0.9	2	1.84	13	1.41	27	24	14.8	3	0.39	0.63	500	0.5	0.5	1.7	1.61	8	22	504	9	66	56	0.4	8.6	9.3	0.5
7021	2013	75	7.8	85	4.7	1.7	5.8	5.87	6	1.82	55	58	46.9	5.5	0.36	0.98	3453	3	3	1.1	1.05	15	26	1286	24	94	101	5	13.2	15	0.5
7022	2013	74	10	23	6.6	1.4	4.6	4.78	7	2.06	46	50	42.4	12.2	0.42	0.53	1893	5	5	0.58	0.56	18	58	646	15	110	114	6.5	14.3	16.8	0.5
7023	2013	68	6.3	29	2.4	0.9	3.7	3.7	7	1.52	27	25	33.3	6.7	0.3	0.69	1321	3	3	1	0.95	12	30	475	13	80	80	3.3	11.2	12.4	0.5
7024	2013	69	9.3	12	1.4	0.6	5.7	5.61	7	1.53	15	12	28.6	10.1	0.32	0.45	752	3	4	0.72	0.72	13	33	217	11	76	81	8.5	12.8	14.8	0.5
7025	2013	75	6.8	39	3.9	0.8	4.9	4.87	5	1.12	25	26	39.6	20.3	0.32	0.61	824	0.5	2	0.82	0.74	11	738	20	59	64	3.1	14.8	17.4	0.5	
7026	2013	65	5.2	44	2.5	1.3	3.6	3.49	8	1.41	33	30	37.2	4.1	0.33	0.75	1439	1	2	1.2	1.13	11	30	482	18	70	74	3.1	10.8	11.5	0.5
7027	2013	65	6	34	2.5	0.7	3.5	3.46	8	1.42	24	23	27.1	3.8	0.35	0.94	1013	2	1	1.5	1.45	9	39	516	13	70	69	1.1	13	14.1	0.5
7028	2013	83	4.8	14	2	0.7	2.9	2.84	11	1.23	17	14	22.9	7.2	0.28	0.65	537	2	2	1.2	1.14	9	37	339	8	56	57	1.2	9.3	10.2	0.5
7029	2013	68	5.4	56	3.6	1.4	4.7	4.52	9	1.47	35	33	31	2.6	0.42	0.96	1247	2	3	1.5	1.39	7	28	696	17	78	74	5.4	12.3	13.7	0.5
7030	2013	64	4.6	30	2.4	0.6	3.3	3.32	9	1.18	24	23	27.7	4.8	0.29	0.75	956	3	2	1.5	1.4	9	56	318	13	60	56	2.7	10.5	11.5	0.5
7031	2013	82	5.1	45	2.5	1.1	5.4	4.89	8	1.2	37	32	33.1	10.7	0.33	0.77	678	4	4	1.2	1.01	8	39	450	28	57	55	4.4	12.3	12.7	0.5
7032	2013	67	3.9	48	2.1	0.8	4.5	4.25	8	0.98	27	25	29.3	10.7	0.32	0.65	769	5	4	1.2	1.11	7	46	500	28	48	51	3.4	10	9.8	0.5
7033	2013	55	3.8	40	2.6	1	4.2	3.84	11	1.09	36	33	24	3.1	0.4	0.65	915	2	2	1.5	1.36	7	45	409	16	57	52	3.3	10.3	10.3	0.5
7034	2013	66	5.9	17	1.9	0.7	3.4	3.35	8	1.19	19	15	25	9.3	0.3	0.52	605	1	2	1.3	1.2	8	44	401	8	60	63	2.8	10	10.7	0.5
7035	2013	74	5.2	49	4.5	1.7	5.1	4.7	9	1.67	52	48	33.9	3.9	0.48	0.9	1264	2	2.8	1.5	1.38	5	20	554	27	77	72	6	12.7	13.8	0.5
7036	2013	24	7.7	8	12.2	1.5	5	4.77	32	2.63	63	60	41.6	8.6	1.2	0.56	1194	0.5	1.4	1.8	2.93	36	16	903	25	160	158	0.3	13.9	14.6	0.5
7037	2013	40	6.9	4	2.1	0.9	4.2	4.11	18	2.51	12	11	18.7	20.3	0.34	0.75	368	0.5	1.1	2	3.61	30	17	263	20	150	162	0.3	10.2	10.9	0.5
7038	2013	62	6.7	32	4.7	0.9	3.7	3.45	8	1.96	31	29	24.7	6.6	0.29	1.16	880	0.5	0.5	2.3	3.14	12	30	623	14	100	97	0.3	13.1	14.1	0.5
7039	2013	70	4.9	48	2.3	0.9	4.1	4	8	1.65	26	22	33.3	3.7	0.28	0.78	1528	5	4.8	1.2	1.1	7	62	461	17	82	79	5.5	10.8	12.3	0.5
7041	2013	113	9	20	2.5	1.2	3.1	3.36	7	3.26	34	37	54.5	6.5	0.43	0.44	2120	0.5	1.3	0.69	0.64	19	13	287	0.5	160	168	1.9	21.9	26.1	0.5
7042	2013	69	5.1	8	1.5	0.25	2.5	2.45	11	1.55	17	16	19.1	3.9	0.35	0.22	1066	0.5	1.2	0.88	0.85	15	10	295	6	88	90	1.4	11.4	12.5	0.5
7043	2013	71	5.9	39	2.7	1.1	4.3	3.87	10	1.63	30	28	35.9	2.7	0.42	0.82	1684	2	1.9	1.3	1.1	11	54	558	16	99	84	3.4	13.5	13.3	0.5
7044	2013	70	5.8	67	2.9	0.7	5	4.62	9	1.64	34	32	45.5	3.6	0.4	0.79	2379	3	3.2	1	0.92	12	61	524	27	94	93	4.4	12.6	12.8	0.5
7045	2013	122	7.1	12	1.4	0.7	2.9	2.78	8	1.7	11	11	46.7	7.8	0.28	0.81	272	0.5	0.5	1.3	1.22	5	37	346	5	84	89	1.6	13.8	15.8	0.5
7046	2013	107	5.5	43	2.5	1	5.4	4.93	8	1.93	33	30	40.6	3.4	0.38	1.18	942	2	1.4	1.4	1.19	3	94	403	22	100	97	10.8	12.8	13.2	0.5
7047	2013	108	4.5	24	1.5	0.25	4.9	4.52	7	1.46	15	13	37.8	12.9	0.25	1.17	677	2	1.9	1.1	1	4	50	605	20	82	75	3.2	11.1	11.9	0.5
7048	2013	70	5.4	40	2.4	0.9	4.1	3.73	8	1.51	32	27	36.9	4.8	0.34	0.83	1695	3	2.4	1.2	1.05	10	46	478	18	80	76	4.4	11.8	11.9	0.5
7049	2013	91	11	17	2	0.25	3.5	3.61	7																						

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eul	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7051	2013	72	4.6	43	3.6	1	3.8	3.69	10	1.45	25	25	32.7	4	0.39	0.79	1961	2	1.7	1.3	1.2	8	61	509	22	74	62	2.8	11.4	13.5	0.5
7052	2013	100	12	20	1.8	0.25	4.2	4.27	7	1.76	11	10	52.4	10.5	0.3	0.83	909	2	2.5	1	1.01	4	31	458	13	90	90	1.7	11.9	13.3	0.5
7053	2013	110	8.3	24	1.6	0.25	5.2	5.15	6	1.84	20	18	48	11.1	0.24	0.9	903	0.5	1.1	0.94	0.86	10	42	334	11	100	106	2.6	13.9	15.1	0.5
7054	2013	110	9.4	12	1.6	0.25	4.5	4.35	8	2.01	7	7	53.6	11.1	0.31	0.78	281	2	1.9	1	0.96	6	23	387	5	110	113	1.5	15.6	17.7	0.5
7055	2013	96	8.1	17	1.7	0.25	5.6	5.56	7	2	15	15	40.7	13.1	0.33	0.67	680	0.5	1.1	0.79	0.74	14	25	480	10	110	117	2.4	14.4	16.1	0.5
7056	2013	113	9.3	18	1.3	0.25	3.9	3.82	5	1.88	11	9	61.4	14.1	0.29	1.33	700	1	2.4	1.1	1	2	31	607	7	92	88	1.8	12.5	12.9	0.5
7057	2013	111	13	85	4.5	1.8	6.6	6.65	4	1.87	31	34	56.9	30.3	0.31	0.59	1170	4	4.2	0.63	0.55	5	30	751	33	90	114	7.8	14	16.9	0.5
7058	2013	118	8.6	35	1.2	0.25	5.5	5.38	6	1.86	10	9	77.4	12.1	0.24	1.77	491	0.5	0.5	0.78	0.73	4	76	448	18	110	101	1.9	12.7	14.3	0.5
7059	2013	93	5.1	41	2.1	0.25	4.6	4.73	7	1.66	13	14	39.9	11.1	0.27	0.89	938	0.5	1.4	1	0.98	6	72	563	24	83	76	7	10.5	13	0.5
7061	2013	91	6.8	56	1.7	0.25	5.7	5.68	6	1.86	11	12	36.3	12	0.34	1.01	1156	4	3.5	0.82	0.77	3	71	670	25	89	83	4.9	11.4	13.1	0.5
7062	2013	72	4.2	39	3.1	1	4.3	3.94	13	1.21	26	24	31.2	5.5	0.42	0.71	1436	3	2.5	1.2	1.06	8	51	466	23	70	60	3.2	10.6	10.7	0.5
7063	2013	64	4.2	20	2.1	0.25	3.6	3.55	8	1.28	22	22	26.9	11.7	0.31	0.55	907	3	2.5	1.1	1	7	27	557	9	66	63	2	9.2	10	0.5
7064	2013	73	4.4	32	2.4	1.1	4	3.82	9	1.43	25	24	33	7	0.32	0.85	1146	2	2	1.1	1.05	7	44	445	13	75	73	3.2	10.6	11.3	0.5
7065	2013	81	4.8	59	2.8	0.25	12.1	11.61	6	1.08	31	32	28.7	18.5	0.29	0.55	852	9	9	0.64	0.6	7	44	503	36	55	59	4.3	9.1	9.9	0.5
7066	2013	57	6	56	3.9	1.3	3.2	2.79	10	1.32	54	49	30.4	5.4	0.38	0.63	957	3	2.8	1.3	1.14	10	40	427	33	76	63	3.8	11	10.8	0.5
7067	2013	297	2.1	9	4.1	1.3	2.9	2.6	49	1.38	36	35	11.2	4	0.54	0.17	5195	0.5	0.5	0.59	0.55	2	13	654	15	58	52	2.5	8.5	8.1	0.5
7068	2013	85	6.5	50	3.6	1	4.5	4.49	9	1.93	38	41	48.7	5.4	0.36	0.88	2272	0.5	0.5	1	0.92	11	70	390	29	99	96	4.2	11.9	13.9	0.5
7069	2013	10	9	6	2.4	0.6	1.2	1.06	7	2.34	21	19	35.6	2.5	0.21	0.2	610	0.5	0.5	2.5	2.17	9	5	747	23	160	131	0.3	4.9	4.6	0.5
7070	2013	24	24	36	3.5	1.2	3.1	2.77	7	3.05	50	47	56.8	2.3	0.31	0.56	831	0.5	0.5	1.8	1.65	9	16	917	43	230	189	0.9	10	9.6	0.5
7071	2013	12	5.6	1	1.1	0.25	0.8	0.69	10	1.75	22	20	17.9	5.4	0.24	0.14	463	0.5	0.5	1.9	1.69	10	4	127	18	100	85	0.3	5.2	4.7	0.5
7072	2013	10	9.4	3	1.3	0.7	1	0.91	12	3.07	27	25	30.2	5.4	0.23	0.13	427	0.5	0.5	1.9	1.88	13	3	221	25	180	150	0.3	5.1	4.9	0.5
7073	2013	22	7	4	3.1	1.2	1.3	1.19	12	1.72	30	27	33.7	7.2	0.4	0.36	785	0.5	0.5	1.9	1.74	11	9	526	19	110	95	0.4	7.5	7.1	0.5
7074	2013	21	10	19	4.4	0.9	2	1.83	11	2.23	28	26	57	2	0.38	0.47	1135	0.5	0.5	2.1	2.01	12	11	1165	20	170	137	0.4	8.6	8.7	0.5
7075	2013	21	5.5	22	5.3	1.4	3.5	3.01	15	2.06	39	37	23.9	1.6	0.45	0.53	675	1	0.5	2.3	2.13	21	14	724	24	100	85	1	10.1	9.7	0.5
7076	2013	16	4	6	3.6	1.6	4.3	4.08	32	3.66	27	29	6	14.7	0.36	0.11	877	0.5	1.7	1.6	1.73	37	13	503	19	160	140	3.5	9.4	9.1	0.5
7077	2013	17	5.2	14	7.9	1.8	4	3.56	20	2.69	55	55	23.4	6.5	0.63	0.68	822	0.5	1	2.6	2.39	26	16	1178	12	120	101	1.6	12.5	12.5	0.5
7078	2013	19	3.9	20	7.4	0.25	4.5	4.76	25	2.92	45	49	24.9	1.9	0.51	0.63	1067	2	2.5	2.9	2.88	44	16	991	10	120	105	0.8	10.7	11.8	0.5
7079	2013	38	10	204	3.9	1.3	5.4	5	6	1.7	29	28	45.6	5.9	0.38	0.91	880	0.5	0.5	1.8	1.66	9	24	800	18	89	85	1.8	18.6	19.6	0.5
7081	2013	56	8.9	35	3	0.25	3	2.83	8	2.04	32	30	51.9	5.1	0.36	0.75	522	2	1.7	1.5	1.43	10	25	262	19	120	104	0.7	12.7	13.3	0.5
7082	2013	18	9.4	25	5.6	0.25	2.7	2.77	12	3.25	52	45	31.7	11.9	0.88	0.25	335	20	19.9	1.8	1.81	31	9	360	61	230	214	0.7	12	11.6	0.5
7083	2013	31	9.2	8	3.5	1	2.6	2.5	11	2.12	36	34	32.4	8	0.43	0.47	450	8	8.2	1.7	1.56	14	13	290	24	130	108	0.7	10	9.5	0.5
7084	2013	32	5.5	23	2.5	0.25	4.6	4.2	9	1.53	20	18	31.6	9	0.23	0.37	439	1	1.1	1.7	1.55	7	18	284	16	78	71	0.6	8.4	8.4	0.5
7085	2013	33	5.3	8	2.9	0.25	2.7	2.27	12	1.72	23	21	17.1	12.4	0.34	0.53	619	0.5	0.5	1.9	1.74	11	12	342	15	76	84	0.5	10	9.8	0.5
7086	2013	23	4.6	2	1.3	0.25	2.8	2.54	13	1.78	17	16	10.6	8.2	0.34	0.15	395	0.5	0.5	1.3	1.22	11	7	157	17	81	77	0.5	5.8	5.4	0.5
7087	2013	21	4.5	9	2.7	0.25	1.9	1.54	8	1.6	20	17	16.5	4	0.3	0.41	667	0.5	0.5	2.4	2.07	7	10	497	14	88	80	0.4	7.6	7.7	0.5
7088	2013	24	5.2	2	1.9	0.25	2.4	2.18	10	1.65	18	18	17.1	10.7	0.36	0.2	366	0.5	0.5	1.6	1.56	11	7	175	18	74	77	0.3	7.3	7.7	0.5
7089	2013	34	4.4	28	2.9	0.25	2.8	2.55	9	1.57	25	22	23.9	6.7	0.33	0.77	570	0.5	0.5	1.9	1.77	9	17	480	12	82	76	0.4	10.1	10.4	0.5
7090	2013	102	7.3	65	2	1	7.1	6.96	6	2.45	23	23	47.5	15.5	0.3	1.13	528	2	3.5	0.62	0.54	3	111	762	34	110	112	3.3	13.6	15.2	0.5
7091	2013	96	5.3	12	1.5	1.2	4.1	3.95	8	2.53	40	35	32.6	11.7	0.41	0.41	117	0.5	1.2	0.83	0.81	3	20	482	10	120	116	6.6	13.4	15.7	0.5
7092	2013	93	6.3	20	1.7	1	4.6	4.47	9	2.39	25	23	30.3	7.1	0.38	0.5	179	2	1.9	1.1	1.09	4	27	334	6	130	120	2.5	13.6	15.2	0.5
7093	2013	72	4.6	27	3.3	0.25	5.2	5.23	9	1.72	31	29	28.5	11.5	0.37	0.71	416	2	3.8	1.2	1.15	5	47	638	20	79	77	14.4	10.2	11.2	0.5
7094	2013	89	4.5	26	3	1.5	6.9	7.1	6	1.96	36	37	31.6	13.9	0.36	0.45	408	5	4.7	1.1	1.12	3	40	782	20	99	92	19.8	11.8	14	0.5
7095	2013	98	5.3	47	2.1	1.7	7.2	6.89	7	2.53	37	34	41.6	8.6	0.4	1.05	524	4	4.4	1.2	1.11	3	81	594	28	120	114	9	14.6	15.9	0.5
7096	2013	90	4.9	38	2.3	1.1	5.3	5.59	8	2.18	36	35	37.2	10.3	0.32	0.69	381	3	3.3	1	1	4	52	634	18	110	109	4.8	11.6	14.2	0.5
7097	2013	82	4.3	36	1.8	0.25	6.5	5.92	10	1.5	35	30	32.2	17.2	0.4	0.68	392	4	3.9	1.1	1.02	4	51	838	18	82	77	2.2	10.6	10.8	0.5
7098	2013	68	5.5	27	1.5	0.8	6.4	5.89	8	1.47	23	20	19.6	13.2	0.33	0.44	419	7	6.9	1.2	1.13	5	48	335	14	72	71	4.1	9.4	10	0.5
7099	2013	82	3.8																												

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7102	2013	27	4.9	4	1.6	0.25	1.2	1.21	9	1.79	17	14	13.4	6.1	0.24	0.18	438	0.5	1.4	1.9	1.88	10	6	185	20	85	84	0.4	7.7	7.9	0.5
7103	2013	173	45	32	4.9	1.5	5.1	4.68	6	2.59	27	25	74.3	5.7	0.69	1.3	2019	0.5	1.4	1.2	1.02	10	100	734	10	210	176	0.5	25.8	27.8	0.5
7104	2013	55	6	48	2.7	1	4	3.57	10	1.24	31	28	30.7	4.7	0.34	0.65	1611	3	2.8	1.2	1.07	9	48	564	17	72	58	3.5	11.4	11.4	0.5
7105	2013	80	6.3	106	2.7	0.9	6.8	6.39	7	1.92	27	26	39.7	5.7	0.36	0.99	1687	13	10.5	1	0.83	6	77	728	40	92	83	8.1	14.4	15.1	0.5
7106	2013	61	4.5	27	2.9	0.9	3.8	3.62	10	1.55	28	30	32	3.6	0.31	0.72	1268	3	2.4	1.2	1.15	9	44	436	16	86	70	3.5	10.4	12.2	0.5
7107	2013	61	5.9	27	2.9	1	4	3.64	9	1.55	30	29	32.2	3.7	0.42	0.72	1247	5	2.5	1.1	1.15	8	45	440	16	66	71	10.8	10.8	12.3	0.5
7108	2013	40	6.5	40	3.4	1.2	3.5	3.21	11	1.03	35	32	26.7	2.2	0.44	0.58	1523	2	2.2	1.3	1.18	12	33	541	16	55	46	4.8	10.2	10.2	0.5
7109	2013	2	2.2	1	4.8	0.25	2.1	1.98	12	2.58	7	7	15.9	3.2	1	0.12	83	0.5	0.5	1.8	1.75	14	4	60	6	96	74	0.05	3.3	3.9	0.5
7110	2013	103	8.5	27	4.3	2.1	5.8	5.81	8	3.43	28	28	50.1	6.5	0.53	1.78	676	11	9.9	1.7	1.6	2	14	307	24	160	144	0.2	27	31.8	0.5
7111	2013	60	6.4	77	4.2	1.5	5.1	4.41	10	1.54	59	52	40	2.6	0.48	0.81	2019	6	5.4	1.3	1.07	10	66	541	33	85	75	5.7	13.9	13.6	0.5
7112	2013	49	4.2	43	3.5	1.7	4.1	3.34	12	1.18	47	39	25.1	1.9	0.48	0.69	1504	2	2	1.5	1.23	8	59	627	17	74	57	4.1	11	10.1	0.5
7113	2013	79	4.7	17	2.3	0.25	4.9	4.63	8	1.18	11	11	35.5	16.8	0.28	1.05	236	4	3.9	0.83	0.74	8	29	373	14	41	47	1.5	11.7	13	0.5
7114	2013	61	3.8	24	1.8	1.1	7.2	6.62	11	1.83	35	34	18.8	8.7	0.35	0.36	255	8	6.7	1.4	1.23	0.5	38	424	20	90	80	10	10.2	11.3	0.5
7115	2013	97	5.4	47	2	0.25	6.9	6.9	7	2.35	17	20	35	10.4	0.32	0.67	238	4	3.5	1.2	1.12	2	73	452	24	110	98	6	12.1	14.8	0.5
7116	2013	91	4.5	35	2.7	1.2	4.6	4.55	11	2.24	39	37	32	6.4	0.41	0.81	597	0.5	2	1.5	1.4	3	60	505	17	100	82	1.5	13.5	15.2	0.5
7117	2013	91	5.1	64	3.5	1.9	6.8	6.46	8	2.63	42	36	38.6	3.8	0.44	0.85	746	5	5.4	1.4	1.35	2	97	862	32	120	108	11	14.3	16.2	0.5
7118	2013	79	4.2	27	2.2	1.1	4.1	3.98	10	2.04	35	27	36	8.5	0.42	0.87	526	0.5	1.8	1.2	1.14	4	46	642	14	96	86	1.7	11.8	13.3	0.5
7119	2013	58	4.8	17	2.9	0.25	2.7	2.34	10	1.49	23	21	21.6	2.9	0.36	0.86	849	0.5	0.5	1.7	1.48	7	43	430	12	77	63	0.3	10.9	11.5	0.5
7121	2013	65	3.6	15	3.5	1.3	3.1	2.97	12	1.32	34	32	22.2	10.4	0.43	0.68	538	0.5	0.5	1.4	1.27	8	30	577	18	60	59	0.3	10	10.2	0.5
7122	2013	42	2.8	19	3.6	1.2	2	1.85	15	1.33	29	26	12.2	1.3	0.48	0.64	601	0.5	0.5	1.8	1.57	7	35	539	12	57	49	0.4	9.2	9.1	0.5
7123	2013	48	2.2	12	3.2	0.9	1.7	1.51	15	1.22	28	25	10.4	1.1	0.44	0.56	476	0.5	0.5	1.8	1.6	7	25	505	8	56	44	0.4	8.1	7.9	0.5
7124	2013	51	2.9	12	2.7	0.25	1.9	1.78	13	1.15	22	23	13.8	2.1	0.34	0.58	602	0.5	0.5	1.7	1.55	7	26	395	11	56	46	0.4	8.6	9.5	0.5
7125	2013	48	3.8	18	3.4	0.25	2.2	2.01	13	1.41	26	26	16	2.6	0.37	0.68	639	0.5	0.5	1.7	1.55	8	37	494	13	71	55	0.4	8.6	9.6	0.5
7126	2013	46	4.4	17	3.9	1.4	2.4	2.19	10	1.33	28	28	16.8	3.2	0.41	0.71	610	0.5	0.5	1.6	1.55	7	34	463	11	56	55	0.6	10.2	11.3	0.5
7127	2013	51	4.9	26	3.8	0.8	2.9	2.44	14	1.24	33	28	17	1.1	0.44	0.8	762	0.5	0.5	1.8	1.57	8	38	561	15	70	56	0.7	10.6	10.5	0.5
7128	2013	41	2.9	11	2.8	0.25	2	1.67	14	1.25	25	21	13.1	1.4	0.37	0.61	641	0.5	0.5	1.8	1.61	7	28	465	9	60	50	0.4	7.9	8.1	0.5
7129	2013	51	2.4	11	2.6	1	1.9	1.65	15	1.02	25	23	12.7	3.2	0.4	0.56	488	0.5	0.5	1.7	1.53	7	25	326	10	40	37	0.3	8.3	8.5	0.5
7130	2013	59	5	13	4.4	1.4	2.9	2.74	11	1.31	30	28	27.6	5	0.46	0.9	629	0.5	0.5	1.5	1.45	8	31	616	14	62	56	0.4	10.3	11	0.5
7131	2013	42	3.9	16	3.2	0.7	2.2	1.91	14	1.34	26	23	16.8	2.2	0.41	0.64	693	0.5	0.5	1.8	1.53	6	27	525	10	63	51	0.4	8.9	8.9	0.5
7132	2013	57	4.8	19	3.4	0.9	2.6	2.3	12	1.71	27	25	18.4	1.7	0.41	0.78	626	0.5	0.5	1.7	1.53	8	44	486	12	85	71	0.3	11.1	11.7	0.5
7133	2013	59	5.3	28	4.3	1.3	3	2.72	11	1.43	28	27	25.1	2.2	0.35	1	797	0.5	0.5	1.7	1.58	8	39	619	20	80	67	0.4	11	12.2	0.5
7134	2013	58	4.9	12	3.3	0.7	2.7	2.71	11	1.23	22	22	28.9	7.5	0.31	0.69	643	0.5	0.5	1.5	1.54	9	32	504	12	53	56	0.2	9.4	11.3	0.5
7135	2013	38	5.5	2	1.6	0.8	0.9	0.87	13	1.93	43	31	7.2	2	0.37	0.14	456	4	4.2	1.1	1.09	17	4	72	21	65	67	0.4	10.2	11.8	0.5
7136	2013	44	5.7	8	1.4	1.2	4.5	4.4	9	1.4	32	14	22.8	3.3	0.33	0.57	699	0.5	0.5	1.4	1.43	13	21	223	15	68	61	0.5	8.8	10.2	0.5
7137	2013	87	11	86	3	1.5	5.5	5.34	7	2.26	47	25	60.3	5.7	0.31	1.09	1157	3	3.8	0.91	0.85	14	65	481	25	120	109	0.6	14	15.7	0.5
7139	2013	81	10	64	3.6	1.4	2.7	2.59	11	1.95	58	52	44.8	5.1	0.36	0.9	862	3	2.9	1.2	1.12	13	40	252	21	89	82	0.8	12.4	14.1	0.5
7140	2013	89	10	105	3.4	1.4	8.4	7.57	8	1.84	27	24	58.1	6.7	0.37	1.21	734	7	6.8	1	0.82	6	54	726	26	96	93	2.7	14.2	14.8	0.5
7141	2013	80	5.3	38	3.2	0.8	5.8	5.56	7	1.35	19	19	41.9	10.6	0.32	1.21	287	8	7.1	1	0.95	3	48	304	17	57	59	1.2	11.4	12.7	0.5
7142	2013	83	5.6	32	2.9	1	5.3	5.24	7	1.68	26	27	45.3	8.2	0.37	1.45	434	6	5.5	1.1	1.05	3	58	439	17	75	77	2	11.7	13.6	0.5
7146	2013	99	4.5	64	2.3	1	7	6.65	8	2.09	37	31	34.7	7.7	0.43	0.84	479	4	4	1.2	1.14	3	104	494	26	110	108	25.8	14.5	16.2	0.5
7147	2013	83	4.9	6	1.7	1.3	2.4	2.29	9	2.09	42	35	20.7	5.6	0.43	0.33	60	1	1.3	0.92	0.83	5	14	231	3	97	95	1.9	13.7	15.1	0.5
7148	2013	93	4.3	22	2.2	1.2	4.9	4.8	8	2.16	35	28	26.9	9.4	0.43	0.58	229	2	3.5	1	0.99	4	33	754	16	120	114	5.2	13.6	15.8	0.5
7149	2013	59	3.5	11	2	0.6	2.8	2.52	10	1.08	24	22	14.9	6.4	0.35	0.37	418	0.5	0.5	1.4	1.24	6	22	353	10	47	50	1.5	9.1	9.5	0.5
7150	2013	91	4.5	34	2	1.5	5.7	5.54	9	2.1	42	36	28.9	7.2	0.44	0.43	176	4	4	1	0.88	3	47	591	14	110	107	5	13.6	15.2	0.5
7151	2013	54	4.8	24	2.8	0.7	3	2.82	9	1.38	23	22	22.4	4.4	0.39	0.85	681	0.5	0.5	1.7	1.54	8	38	503	11	65	62	0.7	12.5	13.4	0.5
7152	2013	52	5.9	22	2.9	0.6	2.8	2.67	9	1.31	22	22	23.3	3	0.34	0.84	672	0.5	0.5	1.7	1.67	8	35	459	11	62	64	0.7	11.2	12.8	0.5
7154	2013	59	5.7	16	3.7	1.2																									

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7156	2013	58	4.2	21	4.1	0.8	2.9	2.69	11	1.82	35	36	22.7	1.9	0.44	0.87	654	0.5	0.5	1.6	1.5	9	41	524	11	82	76	0.6	10.8	11.9	0.5
7157	2013	55	4.6	23	3.2	0.9	2.6	2.33	11	1.28	27	25	19.1	3.3	0.4	0.75	568	0.5	0.5	1.8	1.55	9	33	461	10	66	57	0.5	10.8	10.7	0.5
7158	2013	67	5	10	1.7	0.7	2.4	2.44	10	1.39	26	23	31.7	10.9	0.36	0.32	276	0.5	0.5	1.2	1.19	7	13	294	9	69	74	0.9	10.4	11.7	0.5
7159	2013	47	4.8	16	2.9	0.7	2.4	2.18	10	1.09	20	19	19.5	2.9	0.37	0.71	598	0.5	0.5	1.9	1.67	8	29	460	10	49	49	0.5	11.1	11.1	0.5
7160	2013	85	5.7	12	1.6	1.1	2.1	2.1	11	2.4	46	30	19.4	2.5	0.41	0.34	77	0.5	1.6	1.1	1.06	5	29	226	0.5	110	104	2.8	12.3	13.7	0.5
7161	2013	51	6.3	34	3.8	1.5	3.5	2.96	13	1.14	34	30	21.3	1.9	0.49	0.73	624	0.5	0.5	2.1	1.72	8	44	624	16	55	57	1.5	13	12.1	0.5
7162	2013	101	5.8	24	1.8	1.4	5	4.51	11	2.65	52	27	48.6	10.4	0.49	0.89	286	2	2.3	1.7	1.45	4	41	561	35	150	140	2.3	15.2	16.2	0.5
7164	2013	103	5.6	17	2	0.9	3.8	3.91	8	2.56	42	32	41.7	7	0.48	0.46	191	3	2.6	1.3	1.27	4	25	441	7	120	110	3.2	16.2	19.1	0.5
7165	2013	67	8.2	94	6.6	2.4	5.8	5.24	7	1.43	64	63	31.2	3.2	0.57	1.13	1360	1	2.6	1.7	1.54	6	78	824	37	66	60	3.8	14.3	15.8	0.5
7166	2013	86	4.2	17	1.8	0.8	3.9	3.51	8	0.9	21	16	23	14.9	0.31	0.52	397	0.5	1	1.3	1.1	5	27	465	13	44	43	1.3	9.3	9.4	0.5
7167	2013	50	4	40	2.6	1.2	3.3	2.91	10	1	28	26	18.7	3.5	0.4	0.6	831	0.5	1.3	1.7	1.46	7	37	400	15	49	47	2.3	10	9.6	0.5
7168	2013	78	6.5	41	2	0.25	5.2	4.91	7	1.82	34	27	36.7	10.8	0.38	0.54	379	4	3.5	1.2	1.05	3	56	397	22	81	88	13.4	11.5	12.5	0.5
7169	2013	63	4.8	32	2.5	1.2	5	4.23	10	1.63	49	44	35.5	3.7	0.42	0.97	689	3	3	1.6	1.39	4	54	692	18	78	63	4.9	11.4	11.2	0.5
7170	2013	66	4.7	47	2.4	0.9	4.4	4.06	9	1.35	25	23	31.5	6.4	0.42	0.62	1230	6	5.7	1.3	1.13	7	45	523	16	67	62	4.4	13	13.6	0.5
7171	2013	69	5.9	11	1.8	0.25	4.4	4.31	9	1.26	20	20	33.5	8.7	0.34	0.38	325	3	2.8	1.4	1.34	6	22	228	9	64	65	2.3	9.2	10.6	0.5
7172	2013	85	5.4	39	2.9	1.1	4.5	4.45	8	1.42	25	25	36.1	5.9	0.3	1.12	742	0.5	0.5	1.5	1.42	6	54	524	24	65	62	1.2	12.3	14.5	0.5
7173	2013	80	4.8	10	2.6	0.9	4.3	3.98	10	1.12	24	20	20.3	12.4	0.37	0.8	468	0.5	0.5	1.4	1.29	15	25	454	14	52	50	0.4	12.9	13.4	0.5
7174	2013	81	6	33	4	0.9	2.7	2.49	10	1.15	45	43	35	6.5	0.43	1.08	485	0.5	0.5	1.4	1.37	10	46	340	11	46	44	0.2	10.6	11.8	0.5
7175	2013	37	2.2	11	4.8	1.4	2.1	1.94	14	1.87	40	30	10.1	2.2	0.68	0.56	473	0.5	0.5	1.9	1.74	11	21	519	13	77	71	0.8	10	10.5	0.5
7176	2013	32	2.3	11	3.4	1.1	2.3	2.07	16	2.1	38	28	11.3	2.6	0.62	0.5	347	0.5	0.5	1.6	1.48	10	21	579	25	86	71	1.8	7.7	7.9	0.5
7177	2013	82	2.6	30	2.8	1.2	3.1	2.93	11	1.63	31	25	13.9	5	0.51	0.78	1201	0.5	0.5	1.3	1.21	8	68	418	11	71	68	2.7	10	10.3	0.5
7178	2013	63	4.6	32	4.2	1.3	4.2	4.11	13	1.95	44	28	24.2	7.3	0.6	0.9	1056	0.5	0.5	1.3	1.27	12	36	463	29	94	91	1.8	12.1	13.7	0.5
7179	2013	28	1.8	8	2.6	0.8	1.6	1.5	13	1.68	29	16	7.9	2	0.52	0.4	406	0.5	0.5	1.9	1.79	8	14	478	13	64	57	0.7	7.3	7.3	0.5
7182	2013	32	1.8	5	1.9	0.6	2	2.05	15	1.37	26	13	6.6	7.1	0.43	0.25	464	0.5	0.5	1.3	1.39	10	11	472	14	49	45	0.6	6	6.6	0.5
7183	2013	37	2	9	2.6	0.8	1.9	1.98	15	1.59	32	18	8.3	5.6	0.55	0.4	503	0.5	0.5	1.5	1.59	10	17	474	15	61	59	0.6	7.3	8.1	0.5
7184	2013	44	2.3	11	2.7	1.2	2.2	2.22	17	1.65	36	20	9.5	5.2	0.61	0.5	564	0.5	0.5	1.7	1.73	11	20	286	14	62	59	0.6	8.3	9.3	0.5
7185	2013	81	5.3	19	1.9	1.1	3	3.16	10	1.7	29	15	30.6	8.7	0.28	0.67	554	1	1.8	1.2	1.19	12	23	264	17	57	60	0.3	11.4	12.9	0.5
7186	2013	61	3.7	28	2.6	0.9	2.8	2.7	10	1.4	28	22	25	5.3	0.32	0.83	533	0.5	0.5	1.6	1.55	7	32	359	12	56	53	0.4	10	10.3	0.5
7187	2013	75	4.8	30	4.3	1.4	3.7	3.53	9	1.57	45	43	36.9	10.3	0.37	1.19	494	3	2.9	1.3	1.28	11	37	452	14	58	60	0.5	10.4	11.4	0.5
7188	2013	84	4.5	17	2.4	0.8	4.1	4.18	7	1.28	13	13	34.9	19.8	0.32	0.84	625	4	4	0.85	0.81	10	19	490	13	39	46	1	11.1	12.6	0.5
7189	2013	99	5.3	71	3.5	0.8	5.4	5.6	7	1.6	30	30	47.4	10.8	0.3	1.61	828	3	2.5	1	1.01	7	62	412	19	63	70	4	15	17.2	0.5
7190	2013	42	1.7	17	3.9	1.2	2.1	1.84	15	1.67	36	23	7.6	0.7	0.59	0.54	560	0.5	0.5	1.9	1.78	8	25	706	14	68	60	0.9	9.2	9.7	0.5
7191	2013	34	1.7	12	4.1	1.2	1.9	1.73	15	1.83	37	28	7.6	0.8	0.56	0.46	620	0.5	0.5	1.9	1.88	9	18	781	14	71	66	0.6	7.7	8.6	0.5
7192	2013	84	5.3	25	3.8	1.1	3.8	3.99	9	1.44	27	24	26.2	12	0.46	0.84	535	0.5	1.4	1.4	1.42	9	35	498	20	53	61	0.3	11.9	13.2	0.5
7193	2013	79	4	19	2.4	1	4	3.71	10	1.25	25	15	14.4	11.5	0.42	0.67	484	0.5	0.5	1.5	1.44	10	28	358	10	52	53	0.6	12.7	13.4	0.5
7194	2013	94	4	23	2.1	0.8	4.3	4.1	10	1.17	23	18	28.5	9.5	0.45	0.95	453	0.5	1.4	1.2	1.22	7	31	274	11	43	47	0.3	14.1	15	0.5
7195	2013	72	2.2	22	2.9	1.2	2.4	2.31	11	1.67	30	21	12.6	2.9	0.5	0.86	646	0.5	0.5	1.8	1.77	8	37	262	11	60	65	0.7	12	13	0.5
7196	2013	62	2.8	13	3.3	1.1	2.4	2.03	12	1.41	33	23	10.6	5.1	0.57	0.69	559	0.5	0.5	1.8	1.5	8	30	403	10	63	52	0.6	11.9	11.8	0.5
7197	2013	141	3	31	3.7	1.1	4.3	3.73	9	1.55	39	33	15.3	2.2	0.54	1.49	974	0.5	0.5	1.5	1.29	7	169	376	10	79	67	0.9	16.4	17	0.5
7198	2013	100	1.6	13	3	1.1	3	2.39	10	1.13	28	21	10.3	1.2	0.46	1.08	647	0.5	0.5	1.7	1.41	6	72	428	7	57	45	0.8	13.7	12.9	0.5
7199	2013	87	3.3	21	3.3	1.4	3.5	3.01	9	1.51	26	20	20.7	2.7	0.41	1.28	693	0.5	0.5	1.7	1.48	7	60	491	10	67	59	0.6	13.1	13.2	0.5
7201	2013	89	4.6	45	3	1.1	3.7	3.44	10	1.45	32	25	22.7	4.5	0.44	1.04	642	0.5	0.5	1.3	1.19	7	58	356	13	66	60	0.6	12.6	14.5	0.5
7202	2013	78	5.1	12	2.5	0.8	3.2	2.85	9	1.37	26	18	17.4	5.2	0.44	0.79	781	0.5	0.5	1.4	1.24	7	31	281	7	67	60	0.6	13	13.9	0.5
7203	2013	88	2.7	19	2.5	0.7	3.4	2.91	8	1.08	19	16	16.6	6.4	0.32	0.87	697	0.5	0.5	1.4	1.3	6	43	299	8	50	46	0.7	12.2	12.9	0.5
7204	2013	54	3	15	4.2	1	2.4	2.1	13	1.69	35	26	10.8	2.5	0.6	0.69	771	0.5	0.5	1.9	1.65	8	33	666	11	69	60	0.6	10.1	10.6	0.5
7205	2013	64	3.9	11	2.6	0.8	2	1.89	12	1.49	24	22	16.5	4.5	0.37	0.63	474	0.5	0.5	1.5	1.36	9	27	394	9	71	58	0.5	9.4	10.2	0.5
7206	2013	48	2.7	9	3.6	1																									

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7208	2013	63	1.8	16	2.8	0.9	2.2	1.91	10	1.23	24	20	10.3	2.1	0.4	0.67	604	0.5	0.5	1.6	1.4	6	38	308	8	56	41	0.6	10.7	11	0.5
7209	2013	89	2.5	33	3.4	1.3	3.3	2.87	10	1.23	31	26	20.4	3.7	0.39	1.08	855	0.5	0.5	1.6	1.39	7	51	561	10	55	48	0.6	13.2	14.3	0.5
7210	2013	81	4.1	7	2.2	0.25	3.6	3.19	11	1.03	25	18	11.4	10.2	0.33	0.64	521	0.5	0.5	1.3	1.17	11	22	288	12	43	43	0.8	11	11.6	0.5
7211	2013	100	12	17	3.5	1.3	4.3	3.91	10	1.82	36	30	46.4	7.1	0.32	1.7	733	0.5	0.5	1.7	1.53	14	44	594	19	92	76	1.4	16.2	17.1	0.5
7212	2013	97	2.6	15	2.7	1.3	2.6	2.22	9	1.1	24	20	14.5	4.2	0.35	0.96	587	0.5	0.5	1.5	1.33	7	55	336	10	45	44	0.6	10.6	11.1	0.5
7213	2013	95	7.8	13	3.1	1.1	2.9	2.59	12	1.26	32	28	39	4.8	0.37	1.27	578	0.5	0.5	1.7	1.52	10	40	354	14	62	57	0.5	13.4	14	0.5
7214	2013	88	7.8	21	3.2	1.3	2.9	2.74	11	1.16	34	31	52	6.2	0.36	1.14	549	0.5	0.5	1.5	1.44	10	42	319	13	50	46	0.4	13.3	14.7	0.5
7215	2013	90	8.9	19	3.4	1.3	3	2.75	11	1.43	40	36	54.3	4.8	0.45	0.93	506	0.5	1.1	1.7	1.49	10	44	382	11	68	56	0.3	11	11.7	0.5
7216	2013	98	7.1	29	4.3	1.4	3.1	2.7	10	1.09	53	49	36.4	7.6	0.41	1.13	483	0.5	0.5	1.5	1.3	12	48	293	9	47	45	0.2	11.8	12.5	0.5
7217	2013	110	4	35	4.3	1.1	3.6	3.23	16	0.97	40	34	30.6	8.7	0.59	1.01	652	0.5	0.5	1.4	1.24	10	56	362	14	33	39	0.5	14.1	15	0.5
7218	2013	104	6.7	46	5.1	1.3	3.4	3.05	10	1.48	62	60	49.8	3.1	0.41	1.34	614	0.5	0.5	1.6	1.45	11	55	535	10	70	56	0.2	13.3	14.5	0.5
7219	2013	75	2.6	13	3	1.1	2.1	1.88	11	0.87	30	29	18	3	0.36	0.65	542	0.5	0.5	1.4	1.25	8	32	229	10	41	38	0.4	8.7	9.5	0.5
7220	2013	73	2.8	12	3	1.3	2.5	1.81	10	0.84	34	30	17.6	3	0.36	0.62	526	0.5	0.5	1.4	1.19	7	31	224	10	59	36	0.4	10	9.1	0.5
7222	2013	44	2.9	8	3.2	1.3	1.8	1.49	13	1.05	38	34	13.9	1.4	0.48	0.48	503	0.5	0.5	1.7	1.46	9	21	309	12	50	48	0.3	7.6	7.5	0.5
7223	2013	47	1.7	8	2.4	0.6	1.8	1.6	12	0.76	27	22	8.3	4.5	0.36	0.46	507	0.5	0.5	1.3	1.15	7	17	239	9	35	37	0.3	7.6	7.9	0.5
7224	2013	36	2.7	6	1.9	0.9	1.7	1.48	10	1.03	29	19	11.4	4.6	0.35	0.41	447	0.5	0.5	1.5	1.28	7	14	313	12	44	40	0.2	7	7.1	0.5
7225	2013	32	2.6	8	3.1	0.9	1.6	1.39	13	1.15	33	23	11.8	1.9	0.43	0.43	523	0.5	0.5	1.6	1.32	7	13	612	11	58	47	0.3	6.8	6.8	0.5
7226	2013	103	5.1	40	7.8	1.7	4.9	4.67	9	1.12	45	45	42	5.1	0.42	1.96	2618	1	1.7	1.3	1.14	11	59	233	13	53	49	0.8	14.5	15.7	0.5
7227	2013	91	3.9	15	1.6	0.25	6.1	5.63	7	1.1	18	19	30.8	15.7	0.36	1.15	259	6	5.7	0.7	0.62	2	24	234	13	41	44	0.9	13	14.4	0.5
7228	2013	80	5.5	18	2	0.25	3.9	3.61	8	1.35	27	27	43.9	16.2	0.44	1.16	283	2	2.3	0.78	0.65	3	21	307	15	63	56	1.4	12	13.4	0.5
7229	2013	92	5.5	55	1.9	0.6	7.7	5.92	7	1.54	20	17	36.2	15.6	0.44	0.97	296	5	5.1	1	0.65	2	83	461	18	72	69	2.2	14	12.2	0.5
7230	2013	51	2.6	14	2.4	1	2.5	2.15	11	1	22	19	15	8.6	0.36	0.52	645	0.5	0.5	1.6	1.33	6	30	578	11	42	45	0.8	8.8	8.8	0.5
7231	2013	69	4.2	37	2.3	0.9	5.5	5.08	6	1.04	20	17	28.3	19.2	0.29	0.62	870	4	3.7	0.85	0.72	4	54	524	22	44	49	2.3	9.2	9.3	0.5
7232	2013	70	6.4	27	1.9	0.7	4.2	4.06	8	1.64	18	16	27.8	9.8	0.35	0.69	577	4	3.6	1	0.97	4	36	406	15	76	70	2.6	11.3	12.7	0.5
7001	2014	41	2.7	15	3.3	0.9	2.4	2.45	11	1.29	31	30	16.9	4.9	0.42	0.46	510	0.5	0.5	1.3	1.24	9	20	185	15	63	61	1.4	8.2	9.7	0.5
7002	2014	31	1.5	11	3.4	1.3	2.3	2.06	12	0.95	36	27	8.5	1.4	0.67	0.44	645	0.5	0.5	1.6	1.43	8	15	440	9	44	42	0.9	10.2	10.6	0.5
7003	2014	33	2.1	16	4	1.2	1.8	1.66	12	2.19	41	32	12.9	2.3	0.89	0.39	383	0.5	0.5	1.7	1.57	5	17	165	21	87	82	1.2	8.8	9.4	0.5
7004	2014	80	4.9	17	2.3	1	7.8	8.2	4	0.95	18	15	33.8	32.5	0.36	0.35	343	0.5	1	0.69	0.64	10	21	655	19	52	65	1.7	11.4	13.1	0.5
7005	2014	30	2.5	9	3	1.2	1.8	1.73	12	2.07	34	25	14.1	3.2	0.82	0.33	396	0.5	0.5	1.5	1.31	5	15	329	16	83	77	1.5	7.5	7.8	0.5
7006	2014	40	2.6	10	2.3	0.9	2.2	2.11	6	1.77	20	15	12.2	3.5	0.52	0.42	440	0.5	0.5	1.7	1.57	5	15	167	18	84	78	1.6	9	9.6	0.5
7007	2014	23	2.2	10	3.6	1.2	1.3	1.3	12	2.18	34	29	10.8	2.2	0.73	0.26	455	0.5	0.5	1.7	1.62	5	11	439	19	93	89	1.4	6	6.6	0.5
7008	2014	15	2.2	7	3.2	1	1	0.82	11	2.44	35	23	8.3	1.7	1	0.16	296	0.5	0.5	2.1	1.68	3	8	342	23	110	93	0.9	4.6	4.5	0.5
7009	2014	40	3.2	19	3.1	1.7	3.1	2.19	14	1.87	44	23	16.4	3	0.84	0.47	678	0.5	0.5	2.1	1.48	5	22	219	18	110	83	3.1	12.2	10	0.5
7010	2014	70	4.1	51	3.8	2.3	6.4	3.73	28	1.43	76	27	17.5	5	1.2	0.71	1144	0.5	1	2.7	1.53	7	34	561	16	120	70	5.1	24.7	16.7	0.5
7011	2014	53	3.6	16	3.6	1	3.9	3.42	11	1.56	34	21	23.3	7.1	0.79	0.45	721	0.5	0.5	1.6	1.33	7	26	460	15	86	78	2.5	12.8	12.9	0.5
7012	2014	21	2.8	14	3	1	1.4	1.31	12	2.02	31	22	10.8	0.9	0.7	0.27	484	0.5	0.5	1.8	1.55	4	12	443	18	91	82	1.5	6.6	6.9	0.5
7013	2014	20	2.4	14	2.8	0.9	1.5	1.24	11	2.1	32	24	10.5	0.9	0.6	0.23	465	0.5	0.5	1.9	1.57	4	12	427	20	100	89	1.6	6.6	6.7	0.5
7014	2014	20	2.5	11	2.6	1	1.3	1.19	11	2.03	28	19	10.8	1.5	0.69	0.22	487	0.5	0.5	1.7	1.51	4	10	291	19	95	82	1.7	5.7	5.8	0.5
7015	2014	33	2.3	11	3.1	1.2	1.8	1.71	14	1.14	26	25	17.9	3.3	0.5	0.38	281	0.5	0.5	1.3	1.13	9	19	328	7	58	55	1.6	6.5	6.4	0.5
7016	2014	48	2.7	14	2.9	0.9	2.5	2.33	12	1.07	29	20.8	2	0.53	0.6	0.630	0.5	0.5	1.2	1.07	8	27	143	10	68	55	1.5	8.9	9.6	0.5	
7017	2014	45	2.2	14	2.7	0.9	1.8	1.77	11	0.97	25	25	18.7	4.5	0.49	0.54	372	0.5	0.5	1.1	1.08	8	23	439	7	46	48	1.3	7.2	7.7	0.5
7018	2014	53	4.3	18	2.6	0.9	2.6	2.62	11	1.27	28	27	25.2	2.8	0.4	0.67	482	0.5	0.5	1.2	1.1	8	34	293	12	70	68	1.5	8.8	9.4	0.5
7019	2014	46	2	17	3.1	1	1.9	1.84	13	0.91	30	28	20.1	1.8	0.37	0.58	341	0.5	0.5	1.3	1.23	7	28	540	9	48	44	1.3	7.3	7.7	0.5
7021	2014	30	1.6	8	2.6	1	2.1	1.92	12	1.03	30	26	11.8	1.5	0.51	0.43	511	0.5	0.5	1.4	1.2	6	20	225	10	50	45	1.4	8.5	8.6	0.5
7022	2014	39	1.7	9	3.2	1.1	1.9	1.86	15	1.12	33	28	12.3	2.3	0.58	0.43	533	0.5	0.5	1.4	1.29	9	21	257	11	48	50	1.4	8.1	8.4	0.5
7023	2014	88	1.6	13	3	1.3	2.4	2.45	15	1.04	36	30	14.5	2.2	0.56	1.17	632	0.5	0.5	1.2	1.21	7	138	144	11	45	48	1.6	7.9	8.8	0.5
7024	2014	57	1.8	23	3.1	0.9	2.5	2.43																							

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2 ppm	Cs1 ppm	Cu2 ppm	Dy2 ppm	Eul ppm	Fe1 pct	Fe2 pct	Hf1 ppm	K2 pct	La1 ppm	La2 ppm	Li2 ppm	LOI pct	Lu1 ppm	Mg2 pct	Mn2 ppm	Mo1 ppm	Mo2 ppm	Na1 pct	Na2 pct	Nb2 ppm	Ni2 ppm	P2 ppm	Pb2 ppm	Rb1 ppm	Rb2 ppm	Sb1 ppm	Sc1 ppm	Sc2 ppm	Se1 ppm
7026	2014	44	2.9	13	2.9	1.2	2.8	2.7	11	1.12	43	37	17.6	3.5	0.54	0.48	594	0.5	0.5	1.2	1.14	10	22	387	12	53	50	0.9	10	10	0.5
7027	2014	47	2.4	17	3.7	1.6	2.5	2.31	14	1.22	38	35	15.7	1.5	0.6	0.68	724	0.5	0.5	1.5	1.26	10	42	419	12	61	53	1.7	10	9.4	0.5
7028	2014	50	3.1	47	4	1.9	4.2	3.42	14	1.13	46	37	18.2	1.9	0.6	0.6	1247	2	2	1.3	1.04	11	52	407	22	69	53	3.9	12.9	11.3	0.5
7029	2014	34	3.1	17	3.7	1.9	3.3	2.36	19	1.2	47	32	15.4	1.1	0.68	0.48	732	0.5	0.5	1.9	1.21	10	34	394	14	84	56	2.6	12.2	9.1	0.5
7030	2014	73	4.1	19	2.2	0.9	4	3.98	10	1.31	30	28	33.5	7.3	0.35	0.69	516	0.5	0.5	1	0.88	9	44	457	12	77	71	2	13	14	0.5
7031	2014	53	3.4	18	2.6	1.1	3.1	3.13	10	1.3	27	27	24.3	5.1	0.41	0.57	525	0.5	0.5	1.1	1.07	10	28	447	10	70	69	1.1	10.2	11.1	0.5
7032	2014	60	3.6	17	3	1	3.4	3.35	11	1.44	33	31	27.1	6.3	0.52	0.74	544	0.5	0.5	1.2	1.1	10	45	311	11	72	74	1.4	10.4	10.9	0.5
7033	2014	47	4.3	10	2.5	1.1	3.1	3.2	10	1.32	30	28	26	6.2	0.47	0.44	333	0.5	0.5	1.2	1.08	10	17	203	8	82	77	1.2	9.4	10.1	0.5
7034	2014	53	3.3	29	2.3	1.6	3.3	3.32	10	1.25	32	27	26.9	4.8	0.41	0.51	439	1	1	1.2	1.1	9	28	361	15	66	66	1.7	10.5	10.8	0.5
7035	2014	53	2.9	13	3	1.7	3	2.91	14	1.25	38	35	27.1	4.7	0.64	0.7	440	0.5	0.5	1.4	1.23	10	32	283	9	63	60	1.3	10	9.8	0.5
7036	2014	42	2.9	23	2.6	1.4	2.9	2.6	14	1.08	31	26	23	4.8	0.61	0.51	416	0.5	0.5	1.4	1.14	9	27	208	11	58	53	1.5	8.9	8.1	0.5
7037	2014	69	4.4	22	2.9	1.2	3.8	3.65	11	1.6	35	32	37.8	5.4	0.61	0.85	714	0.5	0.5	1.2	1.07	10	40	595	7	84	81	1.2	11.9	12.6	0.5
7038	2014	52	3.8	27	3.2	1.6	3.2	3.09	12	1.47	35	28	23.6	3.5	0.58	0.61	678	0.5	0.5	1.3	1.13	9	34	395	20	68	70	1.7	10.5	10.9	0.5
7039	2014	72	5	9	2.2	0.9	3.2	3.56	9	1.82	22	26	16	7.5	0.45	0.36	258	0.5	0.5	0.86	0.89	11	17	316	5	130	140	1.1	10.9	14.3	0.5
7041	2014	42	1.9	18	2	1	2.2	2.07	12	0.88	23	21	18.4	2.2	0.47	0.4	405	0.5	0.5	1.2	1.07	7	34	235	10	44	47	1.6	6.5	6.7	0.5
7042	2014	105	4.6	26	2.5	1	4.4	4.38	9	0.8	18	17	42.9	8.6	0.4	0.78	1005	0.5	0.5	1.1	1.02	9	41	358	7	46	50	1.1	11.9	12.9	0.5
7043	2014	104	5.6	97	4.8	2	4.3	4.25	9	1.13	58	60	42.7	3.4	0.35	1.17	1465	0.5	1	1.3	1.2	11	67	437	15	52	59	0.8	14.3	15.4	0.5
7044	2014	115	6.6	119	5.6	1.7	5	5.09	8	1.23	50	50	50.9	10.2	0.64	1.08	2040	0.5	0.5	1	0.93	11	72	473	31	55	63	0.5	15.2	16.3	0.5
7045	2014	86	2	15	2.6	1.1	2.6	2.34	13	0.77	25	22	20.5	4	0.48	0.83	549	0.5	0.5	1.4	1.24	7	40	465	5	38	39	2	11.5	11.1	0.5
7046	2014	118	3.2	35	3.4	1.4	3.3	3.26	11	0.76	27	28	28.7	5.6	0.43	1.03	979	0.5	2	1.3	1.22	7	43	298	10	39	41	1.3	13.5	14.1	0.5
7047	2014	85	3.1	37	3.6	1.5	3.4	3.28	8	0.84	27	26	31.2	7.1	0.42	1.01	744	0.5	0.5	1.3	1.21	8	44	315	8	39	47	0.9	15	16.1	0.5
7048	2014	93	1.5	16	2.4	0.7	2.8	2.99	10	0.65	18	18	17.4	6.1	0.36	1.03	625	0.5	0.5	1.3	1.23	7	39	350	5	30	34	1.4	11.3	13.2	0.5
7049	2014	177	6.4	31	4.2	1.3	5.7	6.05	7	1.15	23	26	58	9.3	0.32	0.97	2502	0.5	1	1	0.95	14	51	330	15	59	73	0.4	16.2	19.2	0.5
7050	2014	88	2.9	18	1.9	0.7	3.6	3.36	10	0.73	20	17	30.3	6.8	0.28	0.95	741	0.5	0.5	1.3	1.22	9	38	195	8	32	37	1.3	12.7	13	0.5
7051	2014	85	4	66	2.9	1.3	3.9	4.02	9	1.07	26	26	44.7	3.2	0.36	1.18	987	0.5	0.5	1.4	1.36	9	58	385	15	55	58	1.2	14.7	16.4	0.5
7052	2014	80	2.2	14	2.7	1.2	2.7	2.61	14	0.78	26	23	23	2.8	0.47	0.95	595	0.5	0.5	1.5	1.35	7	41	170	6	37	39	1.6	12.6	13.1	0.5
7053	2014	88	2.4	22	2.1	0.9	3.2	3.02	8	0.88	20	17	27	5.9	0.34	0.92	708	0.5	0.5	1.3	1.14	5	49	243	10	44	45	2.3	11.9	12.2	0.5
7054	2014	81	2.2	23	2.5	1	3	2.82	15	0.74	24	20	25.4	2.4	0.43	0.78	643	0.5	0.5	1.4	1.23	8	45	156	9	38	40	2.4	12.8	12.9	0.5
7055	2014	91	1.9	13	2.3	0.8	2.3	2.19	13	0.76	23	22	21.3	4.7	0.37	0.69	538	0.5	0.5	1.3	1.16	8	34	420	4	39	41	2.1	10	10	0.5
7056	2014	97	3.8	31	3	1	3.7	3.61	10	0.98	29	28	34.5	3.9	0.38	0.98	919	0.5	0.5	1.3	1.19	9	47	179	13	52	55	1.7	13.7	14.6	0.5
7057	2014	80	2.2	22	2.4	0.9	3	2.92	11	0.75	21	20	24.4	2.3	0.32	0.83	1182	0.5	0.5	1.3	1.22	8	41	283	9	38	41	1.8	10.6	11.8	0.5
7058	2014	108	5.6	42	3.1	1	4.1	4.43	8	1.41	25	28	43.3	5.3	0.3	1.12	1371	0.5	0.5	1.1	1.07	11	58	583	12	79	83	1.5	13.8	16.9	0.5
7059	2014	90	2.6	17	2.5	0.9	3.7	3.56	9	0.75	22	20	30.8	11.4	0.34	0.72	579	0.5	0.5	1.1	0.99	6	39	398	10	38	44	2.5	12.4	13.3	0.5
7061	2014	79	14	15	8.3	1.7	4	3.99	10	1.73	41	40	66.5	5.8	0.64	1.45	1252	2	3	1.6	1.48	12	33	276	18	100	107	2.1	20.6	22.7	0.5
7062	2014	83	3.2	10	3.6	1.1	3.5	3.26	11	1.2	22	18	22.1	7.5	0.49	1.24	698	0.5	0.5	1.9	1.69	8	29	282	5	58	64	1.6	17.1	17	0.5
7063	2014	79	7.5	18	3.5	1.2	3.4	3.43	8	1.62	25	24	53	8	0.4	0.93	505	0.5	1	1.1	0.97	10	53	310	4	93	106	40.9	15.3	17.1	0.5
7064	2014	54	4	9	4.3	1	3.1	2.8	13	1.82	23	20	19.7	1.3	0.54	0.97	679	0.5	0.5	2.5	2.2	8	18	345	7	100	98	3.6	14.8	14.5	0.5
7065	2014	65	5.1	19	3	1	3.7	3.72	10	1.58	20	19	35.8	5.5	0.4	0.8	697	0.5	1	1.5	1.42	9	30	319	6	90	94	6.9	14.8	16	0.5
7066	2014	69	11	47	3.7	0.9	4.7	4.45	10	1.9	25	22	37.5	3.4	0.45	0.92	1096	0.5	0.5	1.6	1.4	10	33	350	14	100	101	11.7	18.6	19.2	0.5
7067	2014	71	4.6	21	3.1	1.1	4	3.91	11	1.36	20	18	39.5	5.1	0.43	0.87	853	0.5	0.5	1.4	1.31	10	30	410	7	78	76	30.7	15.2	16.2	0.5
7068	2014	65	6.8	24	3	1	4.5	3.97	13	1.63	26	23	38.1	2.8	0.49	0.73	704	0.5	0.5	1.6	1.36	10	39	309	13	94	91	8	15.5	15.3	0.5
7069	2014	91	11	40	3.1	1.7	5.7	5.43	9	1.64	46	41	57.1	5.2	0.48	1.27	1371	0.5	1	1.1	0.96	13	59	444	9	100	108	2.4	16.8	17.3	0.5
7070	2014	87	8.1	20	2.9	1.2	3.6	3.64	8	1.05	25	23	48.3	10.5	0.35	0.97	670	1	2	1.3	1.2	9	50	306	9	52	56	4.4	13.6	14.6	0.5
7071	2014	84	4.5	16	2.5	0.9	3.8	3.73	8	0.93	22	20	48	8.9	0.35	1.16	785	0.5	0.5	1.3	1.2	9	34	268	5	56	58	2.6	15.9	16.8	0.5
7072	2014	93	3.6	30	3.6	1.6	3.8	3.6	8	1.16	30	27	30.8	5	0.44	1.09	792	0.5	0.5	1.5	1.33	7	51	391	11	60	64	2.8	16.3	16.3	0.5
7073	2014	78	5.9	17	2.6	1	3.6	3.51	9	1.02	21	19	39.8	1.2	0.38	0.69	647	0.5	1	1.2	1.08	9	25	385	7	55	64	2.4	13	13.7	0.5
7074	2014	88	5.3	45	3	1.2	4.6	4.1	13	1.41	40	34	50.4	4.2	0.52	1.02	1243	0.5	0.5	1.4</											

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2 ppm	Cs1 ppm	Cu2 ppm	Dy2 ppm	Eu1 ppm	Fe1 pct	Fe2 pct	Hf1 ppm	K2 pct	La1 ppm	La2 ppm	Li2 ppm	LOI pct	Lu1 ppm	Mg2 pct	Mn2 ppm	Mo1 ppm	Mo2 ppm	Na1 pct	Na2 pct	Nb2 ppm	Ni2 ppm	P2 ppm	Pb2 ppm	Rb1 ppm	Rb2 ppm	Sb1 ppm	Sc1 ppm	Sc2 ppm	Se1 ppm
7076	2014	100	4.7	28	3.4	0.9	4.9	4.73	6	0.78	20	17	38.3	13.5	0.33	1.28	814	0.5	1	1.2	1	7	54	508	8	45	50	1.8	16.4	17.2	0.5
7077	2014	90	6.2	19	2.6	0.9	3.9	4.15	8	1.04	24	24	38	9.1	0.27	0.88	1096	0.5	0.5	1.1	1.03	9	46	535	8	61	66	2.6	12.9	15.2	0.5
7079	2014	103	3.6	69	4.8	1.8	4.8	5.03	10	1.02	33	30	34.7	6.6	0.41	1.39	2060	1	2	1.3	1.21	7	110	1037	33	47	54	3.8	15	17.2	0.5
7081	2014	130	5	47	3.3	1.1	5	4.56	10	1.04	32	28	36.5	5.3	0.46	1.28	914	0.5	0.5	1.2	1.07	8	74	387	18	56	58	1.8	15.5	15.7	0.5
7082	2014	94	3.1	13	2.8	1	3.1	2.87	9	0.92	24	19	28.1	7.2	0.35	1.19	639	0.5	0.5	1.3	1.18	7	50	346	7	48	48	1.3	14.1	14.8	0.5
7083	2014	88	2.6	16	2.3	0.8	2.9	2.77	11	0.7	21	18	21.1	5.4	0.35	0.93	599	0.5	0.5	1.3	1.15	6	47	302	8	36	36	1.4	12.4	12.8	0.5
7084	2014	97	2.2	17	3.1	1.3	2.8	2.59	18	0.74	32	27	18	4.3	0.51	0.94	604	0.5	0.5	1.3	1.2	7	46	517	5	35	36	1.5	11.4	11.4	0.5
7085	2014	95	1.8	13	2.4	1.2	2.4	2.3	15	0.74	24	22	18.9	2.7	0.4	0.86	438	0.5	0.5	1.3	1.19	6	40	288	6	36	36	1.5	10.1	10.6	0.5
7086	2014	86	2.2	12	2.4	0.8	2.3	2.48	10	0.71	18	18	23.7	6.4	0.31	0.85	485	0.5	0.5	1.2	1.17	7	33	198	4	32	38	1.3	11.5	13.4	0.5
7087	2014	114	3.2	43	3.7	1.1	3.6	3.57	11	0.95	29	29	29.4	3.9	0.34	1.29	982	0.5	0.5	1.4	1.29	10	55	472	9	51	53	1.3	14.1	15.6	0.5
7088	2014	99	3	11	2.2	0.7	3	3.13	11	0.85	19	18	39	7.6	0.34	1.07	663	0.5	0.5	1.2	1.15	9	33	146	5	41	46	1.2	13.6	15.1	0.5
7089	2014	86	1.7	16	2.4	0.8	2.7	2.64	12	0.72	19	15	19.5	6.2	0.39	1.01	577	0.5	0.5	1.3	1.23	5	37	280	5	32	36	1.4	13	14.2	0.5
7090	2014	81	2.7	24	2.5	0.9	2.8	2.77	10	0.87	23	21	26.2	4.3	0.39	0.9	740	0.5	0.5	1.3	1.2	5	45	198	8	44	44	2.9	11.7	12.7	0.5
7091	2014	165	2.9	22	2	0.9	2.8	2.68	10	0.92	23	18	27.5	3.1	0.43	0.82	822	0.5	0.5	1.4	1.28	9	58	357	14	48	46	0.7	10	9.8	0.5
7092	2014	47	3.6	8	2.8	0.9	3.9	2.47	7	1.42	20	23	17.6	11.5	0.29	0.48	498	0.5	0.5	1.1	1.47	12	14	240	17	40	60	0.7	10	9.9	0.5
7093	2014	89	6.8	23	1.6	1	3.3	3.07	8	0.95	33	14	40.1	4.4	0.31	0.66	784	0.5	0.5	1.5	1.34	9	41	404	13	57	55	0.6	10	9.2	0.5
7094	2014	51	5	19	1.6	1.1	2.8	2.57	9	0.82	39	9	26.3	2.8	0.36	0.46	994	0.5	0.5	1.5	1.32	13	27	286	11	56	50	0.4	8.2	7.2	0.5
7095	2014	93	3	20	2.2	1	2.3	2.39	8	1	22	18	21.8	4.5	0.33	0.83	634	0.5	0.5	1.3	1.3	7	59	400	9	45	49	1	9.3	10.4	0.5
7096	2014	86	8.4	38	1.1	1.4	4.1	4.12	8	1.74	41	12	30.9	3.5	0.33	0.72	583	0.5	1	1.2	1.22	14	30	387	15	80	82	0.6	13.4	15.5	0.5
7097	2014	58	3.5	16	1.8	0.9	2.4	2.22	9	0.96	27	13	20.3	2.2	0.38	0.54	899	0.5	0.5	1.3	1.21	11	32	323	9	52	50	0.5	8.5	8.1	0.5
7098	2014	88	3.5	26	1.8	0.8	2.7	2.65	8	1.04	24	15	24.2	4.2	0.34	0.93	631	0.5	0.5	1.3	1.19	7	52	309	9	54	55	0.9	11.5	12.1	0.5
7099	2014	74	13	30	1.9	1.3	3.4	3.42	7	1.44	32	18	43.6	3.2	0.41	0.77	698	0.5	0.5	1.2	1.16	12	47	361	12	78	79	0.6	12.1	12.7	0.5
7101	2014	76	1.7	19	2.3	0.9	3	2.74	10	0.81	21	17	19.7	2.9	0.36	0.84	878	0.5	0.5	1.4	1.22	4	36	388	8	41	42	2.1	11.7	11.6	0.5
7102	2014	86	3	30	3.2	1.1	3.5	3.31	10	0.95	28	24	23.8	4.7	0.41	1.04	699	0.5	0.5	1.4	1.27	6	43	222	11	54	54	1.9	15.2	15.8	0.5
7103	2014	72	2.9	13	2.3	1	2.5	2.49	11	0.85	25	20	28.8	3.6	0.39	0.78	604	0.5	0.5	1.3	1.23	7	28	97	5	49	50	1.5	12.5	12.8	0.5
7104	2014	75	2.4	20	3.1	1.2	2.9	2.74	10	0.99	28	20	23.5	2.5	0.44	1.05	679	0.5	0.5	1.5	1.37	6	40	533	9	52	51	1.7	13.2	13.6	0.5
7105	2014	75	2	16	2.6	1.1	2.3	2.24	10	0.68	20	17	23	11.3	0.3	0.91	544	0.5	0.5	1.2	1.08	5	30	298	4	31	38	1.2	12.8	13.8	0.5
7106	2014	84	2	24	3.1	1.4	3.2	2.86	11	0.84	26	22	22.6	5.9	0.33	1.07	855	0.5	0.5	1.5	1.28	5	35	342	3	28	32	1.4	15.6	14.7	0.5
7107	2014	74	1.9	16	2	1.2	2.5	2.36	10	0.76	22	18	20.3	7.6	0.36	0.91	505	0.5	0.5	1.4	1.23	4	35	203	6	38	38	1.4	11.6	11.5	0.5
7108	2014	96	1.9	21	2.4	1.1	3.6	3.27	10	0.68	23	13	22.3	4.6	0.42	0.99	632	0.5	0.5	1.4	1.06	5	44	330	7	33	38	1.6	15.6	16.4	0.5
7109	2014	97	2.1	20	3	0.7	3.6	3.43	7	0.74	17	18	20.2	10.8	0.33	1.15	733	0.5	0.5	1.3	1.21	6	39	131	7	36	39	1.4	16.2	16.1	0.5
7110	2014	86	1.4	17	2.6	1.3	3.1	2.64	8	0.65	19	14	15.1	11.5	0.34	1.12	641	0.5	0.5	1.4	1.15	5	35	342	3	28	32	1.4	15.6	14.7	0.5
7111	2014	72	2.2	13	1.9	0.7	3.1	3.05	8	0.7	19	15	24.1	12	0.32	0.66	490	0.5	0.5	1	0.9	5	33	261	6	34	39	1.3	11.2	11.9	0.5
7112	2014	74	1.6	16	2.3	0.9	2.8	2.62	8	0.67	20	16	16.5	8.2	0.34	1.05	649	0.5	0.5	1.4	1.22	6	38	298	5	31	33	1.4	13.1	12.8	0.5
7113	2014	88	2.2	15	3	1.1	3	2.85	9	0.91	25	22	20.6	2.7	0.34	1	707	0.5	1	1.6	1.38	7	41	391	4	45	43	2	14.6	14.8	0.5
7114	2014	93	3	18	3	1.4	3.7	3.38	9	0.94	22	18	39	4.4	0.34	1.36	1033	0.5	0.5	1.5	1.28	6	47	505	5	51	48	1.8	15.1	15.3	0.5
7115	2014	66	3.8	7	1.2	0.8	2.2	2.35	9	0.93	17	10	25.8	6	0.37	0.58	612	0.5	0.5	1	1.09	8	22	103	11	47	49	0.6	8	9.2	0.5
7116	2014	85	3.2	17	1.9	0.7	2.7	2.7	8	0.99	21	17	27.7	9.3	0.38	0.78	656	0.5	0.5	1.2	1.11	6	63	271	8	50	49	0.9	10	10.7	0.5
7117	2014	81	2.7	20	2.3	0.9	2.9	2.83	9	1.06	23	21	23.1	3	0.37	0.8	841	0.5	0.5	1.3	1.25	6	50	284	8	52	53	1.1	10.2	10.8	0.5
7118	2014	94	3.3	27	2.4	1	3.3	3.31	7	1.27	22	21	29.6	5.7	0.4	1	1426	0.5	0.5	1.2	1.15	6	51	372	10	64	64	1.1	12.9	14.4	0.5
7119	2014	74	2.7	41	2.6	1	3.6	3.34	10	1.12	25	19	25.7	2.4	0.46	0.87	961	0.5	0.5	1.4	1.31	6	59	619	15	54	52	1	11.7	12.1	0.5
7121	2014	75	2.9	42	2.4	1.5	3.2	3.18	9	1.09	23	19	26.7	4	0.42	0.83	722	0.5	0.5	1.3	1.28	6	50	224	15	55	55	1	11	11.9	0.5
7122	2014	72	3	12	1.7	0.9	2.3	2.3	10	1.24	20	18	28.8	4	0.44	0.81	669	0.5	0.5	1.4	1.39	6	30	378	6	65	65	0.7	10.6	11.6	0.5
7123	2014	72	3.3	10	1.4	0.8	2.1	1.97	7	1.11	16	14	27.9	6	0.36	0.7	615	0.5	1	1.2	1.07	6	31	285	4	58	56	0.7	10.4	10.6	0.5
7124	2014	82	3.4	40	2	0.8	3.6	3.42	8	1.16	19	18	34.1	4.1	0.31	0.86	835	0.5	1	1.2	1.14	6	53	191	12	61	63	0.8	11.8	12.7	0.5
7125	2014	75	3.7	37	1.9	0.9	3.2	3.18	7	1.02	19	18	29.8	4.1	0.31	0.81	827	0.5	0.5	1.3	1.18	7	53	262	12	54	55	0.9	10.9	11.6	0.5
7126	2014	78	5.3	20	1.7	0.8	3.7	3.44	7	0.96	19	13	34.5	16.8	0.42	0.58	991	0.5	1	1.1	0.87	11									

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7128	2014	76	4.5	22	2.1	0.8	2.9	3.12	6	0.79	17	17	24.9	16.2	0.34	0.69	938	0.5	1	1	0.99	8	30	396	10	39	40	0.7	10.3	11.8	0.5
7129	2014	81	18	39	2.1	1.3	5	5.19	5	1.36	25	26	38.6	6.3	0.45	1.09	909	10	5	1.1	0.97	9	28	533	17	67	71	0.6	15.5	17.3	0.5
7130	2014	74	14	32	2.5	0.7	4.3	4.56	5	1.05	24	23	30	8.9	0.39	1.03	807	0.5	3	1.3	1.22	8	34	485	12	68	60	0.8	13.5	14.8	0.5
7131	2014	76	3.8	25	2.4	0.7	3.1	3.18	6	1	20	21	29.7	6.9	0.37	0.88	1102	0.5	0.5	1.2	1.16	9	40	327	9	51	53	1.1	12.2	13.6	0.5
7132	2014	80	3.9	23	2.8	0.9	2.9	3.49	6	0.86	18	20	35.4	8.1	0.4	1.2	1011	7	0.5	1.4	1.44	8	42	584	7	39	47	1	12.2	15.8	0.5
7133	2014	84	3.4	36	2.8	1	3.3	3.37	10	0.77	24	24	28.5	4.6	0.42	0.91	1177	0.5	0.5	1.4	1.13	9	39	264	10	50	46	1.4	13.5	14.4	0.5
7134	2014	72	2.8	57	2.9	1	3.6	3.69	8	1.02	22	21	33.1	4.6	0.4	1.03	1210	0.5	0.5	1.5	1.38	9	46	534	14	54	54	1.2	14.2	15.8	0.5
7135	2014	78	3.3	88	3.4	1.2	3.8	3.69	8	1.11	28	27	38.1	3.4	0.42	1.13	1115	0.5	1	1.4	1.39	9	51	300	21	56	59	1.3	15.2	16.9	0.5
7136	2014	63	2.2	36	2.7	1	3	2.67	10	0.7	24	22	22.2	2.2	0.41	0.79	1059	0.5	0.5	1.5	1.26	8	38	456	9	40	34	1.2	11.6	11.6	0.5
7137	2014	79	3.6	36	3.3	1.2	4.2	3.17	7	0.85	28	25	29.7	4	0.43	1.02	697	0.5	0.5	1.4	1.14	8	42	328	7	56	44	1.1	15.5	15.6	0.5
7138	2014	84	2.7	16	2.3	1.5	3.7	2.75	9	0.63	26	17	16.1	2.6	0.42	0.98	574	0.5	0.5	1.5	1.15	7	36	343	4	53	28	1.7	15.2	12.6	0.5
7139	2014	164	3.5	29	3.7	1.4	3.5	5.61	7	1.13	36	24	53.1	6.6	0.38	0.95	2354	0.5	0.5	1.2	0.91	13	46	322	13	50	63	1.1	13.1	17.9	0.5
7141	2014	81	2.4	63	2.7	0.9	3.2	3.89	10	1.05	22	24	42	7.9	0.4	1.18	930	0.5	0.5	1.5	1.3	10	54	382	14	42	53	1.2	13.2	15.9	0.5
7142	2014	101	2.4	15	2.8	1.4	3.2	2.53	10	0.79	27	25	22.3	3	0.39	0.95	561	0.5	0.5	1.4	1.34	9	38	175	5	41	39	1.3	12.2	13.1	0.5
7143	2014	87	2.3	22	2.2	0.9	2.8	3.02	9	0.89	22	17	26.4	6.8	0.31	0.93	692	0.5	0.5	1.4	1.14	7	48	246	9	37	42	1.3	11.1	12.3	0.5
7144	2014	71	3.4	23	2.4	1.3	3.3	2.68	9	0.75	27	18	24.3	15.3	0.37	0.78	586	0.5	0.5	1.3	1.18	8	42	160	9	44	37	1.3	12.2	12.5	0.5
7145	2014	70	3.7	14	2.2	0.25	4.3	2.15	6	0.78	6	20	20.9	11.3	0.45	0.71	522	1	0.5	1.8	1.15	7	33	436	4	34	38	0.3	14.3	9.9	0.5
7146	2014	89	4.4	30	2.8	0.9	4.6	3.49	6	0.97	28	27	32.4	7.9	0.35	0.98	899	6	0.5	1.5	1.19	9	45	181	12	46	49	0.8	16	14.4	0.5
7147	2014	76	2.9	23	2.4	1.3	3.6	2.8	9	0.73	23	20	23.2	3.8	0.44	0.81	1093	2	0.5	1.3	1.19	8	38	288	9	50	37	1.6	14.3	11.4	0.5
7148	2014	103	3.9	41	2.9	1	4.5	4.27	16	1.41	24	27	40.8	6.8	0.51	1.13	1302	0.5	0.5	1	1.03	11	55	592	10	29	74	1.2	11.8	16.6	0.5
7149	2014	83	3.8	17	2.4	1.2	3.9	3.44	9	0.75	25	18	29.4	5	0.46	0.73	557	0.5	0.5	1.3	0.97	7	36	403	8	44	40	0.8	13.3	13.1	0.5
7150	2014	82	2.7	18	2.2	1.2	3.3	3.2	7	0.81	24	17	27.7	5.7	0.42	0.83	566	0.5	0.5	1.3	1.11	7	38	290	8	50	42	1.8	15.6	12.6	0.5
7151	2014	74	2.7	15	7.9	1.1	2.7	3.79	9	1.65	22	39	61.6	9.4	0.39	1.41	1171	1	2	1.3	1.41	11	31	284	18	46	95	1.3	13	21.7	0.5
7152	2014	73	2	9	2.1	0.6	2.2	2.4	8	0.66	16	14	21.2	12.9	0.28	0.85	566	0.5	0.5	1.1	1.09	8	23	295	3	33	36	1.1	10.7	12.8	0.5
7153	2014	79	2	19	2.8	1.3	2.7	2.73	7	0.73	18	16	20.2	9.7	0.36	1.05	571	0.5	0.5	1.2	1.15	6	35	271	4	40	39	1.3	14.3	15.6	0.5
7154	2014	89	2.2	30	2.8	1.1	3	3.17	10	0.92	22	20	29.8	7.7	0.43	1.13	790	0.5	0.5	1.2	1.2	9	43	333	5	44	49	1.6	14.2	15.8	0.5
7155	2014	105	4.7	30	2.6	0.8	4.3	4.5	7	1.43	26	25	44.4	8.3	0.39	1.01	1180	0.5	0.5	1	0.97	9	54	464	8	95	103	1.5	16.9	18.1	0.5
7156	2014	94	2.3	18	3.3	1	3.6	3.5	9	0.84	21	18	23.7	8.8	0.4	1.1	804	0.5	0.5	1.4	1.27	7	39	418	6	44	47	1.6	16.9	17.8	0.5
7157	2014	101	3.7	35	4.1	1.7	4.6	4.45	7	1.17	25	23	26.1	4.1	0.47	1.4	1163	0.5	0.5	1.5	1.31	8	55	471	7	54	59	2.3	20.6	21.9	0.5
7158	2014	82	1.6	15	2.8	1.1	3.1	2.98	9	0.79	20	17	16.3	3	0.41	1.14	858	0.5	0.5	1.5	1.41	8	42	326	6	39	39	2	13.6	14.2	0.5
7159	2014	76	1.8	19	2.9	1.1	2.6	2.6	9	0.82	20	18	17.4	4.4	0.39	1.14	619	0.5	0.5	1.4	1.34	7	46	442	5	35	39	1.6	12.6	13.6	0.5
7161	2014	93	2.7	17	3.3	0.9	3.2	3.58	7	0.91	17	18	30.8	8.4	0.31	1.45	1270	0.5	0.5	1.4	1.44	8	44	393	4	41	48	1.1	14.4	17.2	0.5
7162	2014	100	2.7	20	3.9	1.4	3.9	3.83	9	0.97	21	20	24.3	5.1	0.43	1.49	1130	0.5	1	1.7	1.64	8	44	386	6	50	48	1.7	16.9	18.6	0.5
7163	2014	105	7.2	51	2.6	1.3	4.8	4.77	7	1.4	27	26	55.4	8.9	0.44	0.81	678	2	2	1.2	1.07	9	79	445	6	89	91	2.2	17.4	19.1	0.5
7164	2014	88	3.4	28	4	1.1	3.9	3.81	8	1.26	27	25	26.1	4.1	0.46	1.22	1356	0.5	0.5	1.5	1.4	8	54	410	9	65	64	2.4	16.8	17.9	0.5
7165	2014	89	3	23	3.2	1	3.3	3.37	8	0.93	27	25	37.5	10.5	0.37	1.09	671	0.5	1	1.2	1.13	8	42	237	5	46	52	1.5	15.2	16.4	0.5
7166	2014	89	2.4	36	2.9	1.1	3.6	3.58	9	1.06	22	21	29	4.5	0.42	1.2	923	0.5	0.5	1.4	1.32	8	48	376	11	51	59	1.9	14.8	15.6	0.5
7167	2014	94	5.7	41	3.9	1.3	4.4	4.54	8	2.15	34	35	40.8	4.5	0.48	1.71	628	1	1	1	0.94	12	57	292	12	100	116	2.3	16.1	18.2	0.5
7168	2014	104	3.4	21	2.8	1.3	3.2	3.14	8	1.08	25	25	32.5	7.6	0.4	1.19	649	0.5	0.5	1.2	1.1	9	57	494	3	57	63	1.9	13.7	14.4	0.5
7169	2014	105	3.9	16	3.4	1.4	3.7	3.81	12	1.39	34	33	33.8	7.8	0.54	0.87	500	0.5	0.5	1.2	1.11	8	45	369	3	76	81	4.1	13.7	15	0.5
7170	2014	77	2.3	19	2.4	1	2.9	2.83	9	0.86	24	21	24.1	6.2	0.43	0.96	550	0.5	0.5	1.4	1.25	8	39	268	5	45	49	1.8	13.4	13.3	0.5
7171	2014	87	3.3	27	3.9	1.7	3.7	3.69	9	1.1	24	25	29.8	6.1	0.42	1.17	849	0.5	0.5	1.3	1.17	9	47	475	9	58	64	2.3	15.9	17.5	0.5
7172	2014	68	3	7	2.1	1	2.4	2.36	10	1.02	24	24	28.2	4.8	0.46	0.81	686	0.5	0.5	1.3	1.22	11	29	325	7	59	65	1.6	12	12.3	0.5
7173	2014	72	2.7	20	2.7	1.2	3.3	2.97	11	0.94	27	23	30.5	6.8	0.47	1.01	690	0.5	0.5	1.4	1.23	9	37	272	6	52	52	2.2	14.7	13.9	0.5
7174	2014	43	2.5	16	3.6	1.3	2.7	2.44	13	1.15	28	26	20.5	5.3	0.59	0.59	863	0.5	0.5	1.2	1.05	9	28	520	11	59	57	1.5	8.9	8.7	0.5
7175	2014	37	3.6	6	2	0.7	1	1	13	1.1	25	25	12.8	4.8	0.51	0.26	245	0.5	0.5	1	0.93	11	9	185	8	80	82	1.2	7.6	7.5	0.5
7176	2014	85	2.6	26	3.5	1.4	3.2	3</																							

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eul	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7178	2014	78	2.2	20	2.3	1.3	2.8	2.33	10	0.81	29	26	17.1	2.8	0.45	1.21	520	0.5	0.5	1.2	1.01	8	113	222	7	46	44	2.3	10.8	10	0.5
7179	2014	90	3.1	70	2.9	1.6	4.8	4.11	9	1.12	31	29	26.7	2.3	0.51	1.49	1118	0.5	1	1.4	1.15	6	109	409	16	58	55	4	14.5	13.3	0.5
7181	2014	83	3.8	85	2.2	1.4	6.7	6.4	8	1.6	33	30	48	4.6	0.45	1.5	1411	3	2	1.5	1.31	4	86	966	46	84	81	3.4	15.1	15.8	0.5
7182	2014	75	3.7	23	2.7	1.3	2.9	2.7	10	1.13	31	28	22.9	5.8	0.5	1.18	445	0.5	0.5	1.1	0.95	9	103	377	6	62	62	1.8	11.1	11	0.5
7183	2014	76	3.1	19	2.7	1.2	2.9	2.68	9	0.97	32	29	21.6	6.7	0.47	0.95	598	0.5	0.5	1.1	0.97	9	74	317	8	55	60	1.9	10.8	10.9	0.5
7184	2014	77	2.2	20	2.5	1.1	3.5	3.17	12	0.85	32	30	20	3.2	0.53	0.96	561	0.5	0.5	1.2	1.05	9	75	210	8	45	48	3.6	12.4	12	0.5
7185	2014	104	2.2	16	2.3	1.1	2.4	2.26	10	0.98	23	22	22.6	2.2	0.47	0.74	692	0.5	0.5	1.5	1.39	9	45	323	10	53	51	0.7	10	9.6	0.5
7186	2014	116	3.4	13	2.1	0.9	2.7	2.63	8	1.24	21	21	31.7	4.6	0.43	0.96	666	0.5	0.5	1.4	1.23	9	49	372	7	59	69	0.9	12.3	12.6	0.5
7187	2014	103	2.4	18	2.2	0.8	3.1	2.87	9	1.02	27	26	24.7	4.7	0.41	1.01	621	0.5	0.5	1.5	1.24	8	64	298	6	51	57	1.5	12.2	11.9	0.5
7188	2014	77	2.4	33	3.7	1.5	3.1	2.97	10	0.76	30	28	25.5	4.1	0.53	0.91	859	0.5	0.5	1.5	1.35	11	51	217	15	38	45	1.2	12.6	12.3	0.5
7189	2014	101	3.6	13	1.9	1.1	3.2	3.07	7	1.1	23	22	38.6	9.5	0.36	1.16	665	0.5	0.5	1.2	1.08	9	92	408	6	66	70	1.3	12.6	12.9	0.5
7190	2014	90	3.1	17	2.6	1	3.2	3.15	8	1.12	24	25	26.2	4	0.34	1.15	897	0.5	0.5	1.3	1.2	9	87	402	7	59	58	1.8	11.1	12.3	0.5
7191	2014	88	3.1	34	2.2	1.1	3.5	3.3	7	0.81	25	21	33.3	6.4	0.4	1.02	852	0.5	0.5	1.2	1.06	9	79	362	12	45	48	1	11.4	11.5	0.5
7192	2014	93	4.2	49	4.7	1.8	3.5	3.52	5	1.47	33	34	35.8	13.8	0.24	0.96	619	0.5	0.5	1	0.92	9	52	399	15	61	67	0.3	14.7	17.3	0.5
7193	2014	82	3.2	18	2.4	1.3	3.4	3.26	9	1.23	30	27	26.8	3.7	0.42	1.2	649	0.5	0.5	1.3	1.16	9	107	424	7	68	66	2.3	11.4	11.7	0.5
7194	2014	93	2.2	21	2	0.9	2.9	2.57	8	0.68	23	19	23.1	4.1	0.4	1.28	537	0.5	0.5	1.2	0.99	7	100	342	8	35	36	1.5	9.5	9.2	0.5
7195	2014	115	3.4	27	2.5	1	3.7	3.68	8	0.89	29	26	50.3	12.5	0.46	1.03	763	4	4	1.2	1.14	12	93	408	7	48	53	1.2	12.4	13	0.5
7196	2014	71	2.2	14	2.2	0.9	2.7	2.55	9	0.76	24	21	22.1	10.5	0.39	0.83	671	0.5	0.5	1	0.92	8	61	310	4	40	45	1.4	9.2	9.2	0.5
7197	2014	91	2.4	43	3.6	1.7	4.1	3.92	8	0.71	25	22	26.7	9	0.46	1.01	714	0.5	0.5	1.1	1.02	9	88	547	13	34	40	1.5	13.1	13.4	0.5
7198	2014	98	3.4	69	3.1	1.4	5.1	5.12	6	1.77	32	32	52.7	3.5	0.42	1.6	951	0.5	0.5	1.5	1.41	9	64	413	16	79	84	0.4	20.7	22.1	0.5
7199	2014	66	2.1	21	2.5	0.9	2.8	2.68	8	0.89	21	16	20.6	3	0.37	1.06	668	0.5	0.5	1.4	1.27	8	69	317	8	43	40	1.3	10.3	11.1	0.5
7201	2014	79	2.3	22	2.3	1	3.2	3.06	11	0.79	22	20	25.2	3.7	0.44	0.93	555	0.5	0.5	1.3	1.18	6	52	162	9	45	44	1.6	10.9	11.5	0.5
7202	2014	88	1.9	20	2.7	1	3	2.8	10	0.81	22	21	18.4	4.5	0.42	1.09	572	0.5	0.5	1.4	1.27	8	39	290	5	40	41	1.6	14.3	15	0.5
7203	2014	117	4.3	44	3.1	1.3	4.3	4.02	11	1.03	32	29	29.7	3	0.46	1.48	1110	0.5	0.5	1.2	1.08	9	84	519	14	60	59	2.8	14.4	14.7	0.5
7204	2014	87	4.8	26	2.8	1.2	3.2	3.07	12	0.97	31	29	27.8	4.5	0.47	1.17	751	0.5	0.5	1.2	1.14	10	63	354	8	52	51	1.6	12.6	12.8	0.5
7205	2014	54	6.4	12	2.6	1	4.6	4.65	7	0.81	21	23	142.5	15.7	0.42	0.5	2232	1	0.5	0.61	0.6	5	38	577	23	49	50	5.1	8.7	9.7	0.5
7206	2014	62	2.2	12	2.7	1.1	2	2.02	13	0.99	27	29	24.1	3.1	0.48	0.58	768	0.5	0.5	1.2	1.19	9	30	337	7	49	46	1.2	7.1	7.5	0.5
7207	2014	48	1.9	12	2.2	0.9	1.8	1.78	14	0.85	25	25	19.4	1.8	0.51	0.46	282	0.5	0.5	1.2	1.17	10	25	169	7	46	43	1.2	6.3	6.4	0.5
7208	2014	57	1.9	19	2.8	1.3	2.1	2.07	13	0.92	27	29	17	3.4	0.42	0.55	772	0.5	0.5	1.2	1.13	8	29	516	16	48	46	1.6	6.8	7.4	0.5
7209	2014	78	3	22	2.6	0.8	2.9	3.14	9	1.09	19	21	30	3.7	0.34	0.86	769	0.5	0.5	1.3	1.36	9	38	262	9	60	60	2.5	11.2	13.5	0.5
7210	2014	98	3.8	27	2.7	1.1	4.4	4.65	7	1.04	21	21	38.8	12.2	0.35	0.85	1256	0.5	0.5	1.2	1.12	10	32	487	18	50	56	1.3	15	16.6	0.5
7211	2014	387	3.3	3	1.4	0.25	1.6	1.74	7	0.87	12	13	14.8	8.6	0.35	1.34	609	0.5	1	1.4	2.93	10	32	125	8	35	41	0.4	11.2	12.6	0.5
7212	2014	98	3.4	33	3.7	1.3	4.3	4.33	6	0.7	24	24	41	13.1	0.42	0.95	894	0.5	0.5	1.2	1.15	8	40	563	10	37	42	1.1	16	17.5	0.5
7213	2014	93	5.7	49	2.5	0.9	3.7	3.89	7	1.15	21	23	43.8	5.3	0.37	1.05	945	0.5	0.5	1.2	1.17	10	58	350	11	60	64	0.9	15.4	18	0.5
7214	2014	88	3.1	17	1.7	0.6	3.5	3.6	6	0.91	18	18	20.8	10.8	0.33	0.5	1029	0.5	0.5	0.92	0.87	12	25	283	9	39	40	0.5	10.5	11.6	0.5
7215	2014	96	5.2	9	1.2	0.25	5	5.17	6	1.43	10	11	16.8	8.5	0.39	0.59	1092	0.5	1	0.9	0.88	14	22	224	7	62	64	0.5	15.3	18.5	0.5
7216	2014	91	6.2	5	1.9	0.8	2.8	2.92	10	1.32	21	21	13.3	4.2	0.48	0.78	794	1	1	1.3	2.88	14	17	136	11	55	55	0.5	15.4	18	0.5
7217	2014	92	4.1	24	2.1	0.5	3.3	3.32	8	0.86	19	19	31	10.7	0.34	0.84	715	0.5	0.5	1.1	1.04	8	50	523	10	44	46	1	11.7	12.9	0.5
7218	2014	84	4	74	2.6	1	3.7	3.91	6	1.23	27	29	36.8	8.6	0.38	1	1857	1	2	1	1.02	8	55	453	16	57	58	0.7	12	13.7	0.5
7219	2014	93	5.2	27	1.9	1.5	3.8	4.02	7	1.43	35	12	20.8	12.7	0.45	0.57	563	1	2	0.95	0.89	13	26	566	15	58	57	0.3	13.6	15.5	0.5
7220	2014	58	5.5	4	1.5	0.8	1.1	1.09	13	1.57	19	18	9	5	0.51	0.21	479	0.5	0.5	1.2	2.83	19	6	133	15	65	72	0.2	11.6	13.7	0.5
7221	2014	119	5.4	17	2.3	1.1	3.3	3.26	9	1.38	26	25	40.9	2.8	0.46	1.04	741	0.5	0.5	1.5	1.36	12	55	280	8	71	70	0.9	13.2	14.1	0.5
7222	2014	89	5.8	27	2.6	1.3	3.9	3.79	8	1.19	36	33	29.1	7.9	0.47	0.76	660	0.5	0.5	1.6	1.45	13	34	206	11	61	59	0.5	13	13.7	0.5
7224	2014	67	6.5	22	2.4	1.4	3.2	3.17	9	0.87	33	27	30.2	7.5	0.49	0.55	865	0.5	0.5	1.3	1.24	15	27	309	17	46	54	0.4	9.3	9.5	0.5
7225	2014	63	18	12	3.1	1.3	3.2	3.04	6	1	25	23	65.5	9.6	0.41	0.75	955	2	2	1.6	2.76	12	21	281	12	77	82	0.2	11.7	12.7	0.5
7226	2014	81	6.7	17	2.3	1.1	2.9	2.79	9	1.26	27	24	39.4	3	0.41	0.84	747	0.5	0.5	1.4	1.29	11	48	346	9	73	66	1.1	11.8	12.2	0.5
7227	2014	79	5.1	17	3	0.9	3	2																							

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7229	2014	93	5.5	22	2.8	1.2	3.1	3.3	7	1.56	27	26	36.8	3.2	0.4	1.05	778	0.5	0.5	1.4	1.25	7	55	524	9	79	77	1.1	13	14.7	0.5
7230	2014	114	3.6	15	2.4	1	4	4.15	8	1.05	21	20	31.8	9.4	0.4	0.89	603	0.5	0.5	1	0.93	7	51	324	6	63	61	1.3	11.9	13.1	0.5
7231	2014	76	2.7	8	1.8	0.8	2.6	2.64	9	0.96	18	16	32.9	2.7	0.33	0.89	689	0.5	0.5	1.5	1.36	9	33	118	5	51	52	0.9	11.7	12.3	0.5
7232	2014	59	1.9	15	2.4	1	1.7	1.69	9	1.13	25	18	16.7	8	0.47	0.53	540	0.5	0.5	1.4	1.23	7	22	595	15	48	48	0.8	8.3	8.6	0.5
7233	2014	89	2.6	16	2	1	2.9	3.06	8	0.93	20	19	29.7	5.9	0.33	0.85	632	0.5	0.5	1.3	1.13	7	53	238	8	46	49	1.1	11	11.9	0.5
7234	2014	102	5.1	21	1.3	0.8	3.7	3.63	9	1.57	15	13	43.6	5	0.44	0.87	394	1	1	1.4	1.19	4	47	203	7	98	94	0.7	14.3	15	0.5
7235	2014	89	3.2	43	2	0.8	3.8	3.69	10	0.94	23	20	35.6	6.5	0.37	0.89	755	0.5	0.5	1.3	1.11	6	54	335	12	48	46	1	12.2	12.6	0.5
7236	2014	101	3.4	18	2.3	1	3.8	3.79	8	0.86	19	18	34.5	14.1	0.38	0.76	477	0.5	0.5	0.95	0.8	6	43	338	5	53	51	1.2	13.6	14.7	0.5
7238	2014	93	3.7	13	1.7	0.9	4.9	5.16	8	1.08	18	19	29.4	11.7	0.33	0.38	521	0.5	0.5	0.78	0.71	8	21	316	6	60	64	1.3	11	13.1	0.5
7239	2014	98	2.1	13	2.5	1.1	2.9	2.7	16	0.72	25	22	18.9	6.6	0.48	1	516	0.5	0.5	1.3	1.14	5	43	343	5	34	36	1.3	10.5	10.9	0.5
7240	2014	99	5.6	29	2.1	1.3	4.3	4.25	9	1.26	26	21	44.1	6.3	0.41	1.12	641	3	3	1.2	1.01	10	92	205	17	73	72	1.8	11.8	11.7	0.5
7241	2014	82	3.4	40	2	1	4.2	4.2	8	1.09	22	20	43.4	9.5	0.42	0.98	977	0.5	0.5	1.1	1.01	5	63	627	12	59	60	1.8	13.3	14	0.5
7242	2014	66	2.7	10	2	1	2.9	2.78	11	0.92	23	18	20.3	5.4	0.44	0.51	384	0.5	0.5	1.2	1.04	8	43	154	6	52	52	1.5	11.5	11.6	0.5
7243	2014	57	2.4	8	1.4	1	2.8	2.86	9	0.8	24	17	17.4	9.9	0.41	0.29	353	0.5	0.5	0.71	0.6	8	26	262	6	42	43	1.5	10	9.6	0.5
7244	2014	61	3.5	8	1.8	0.8	1.9	1.91	10	0.91	25	22	26.8	5.8	0.48	0.29	252	0.5	0.5	1.1	0.96	11	26	157	5	55	54	1.3	10	9.8	0.5
7245	2014	90	2.4	20	2	1.4	3.2	3.16	9	0.77	24	18	28.8	7.1	0.41	1.41	435	0.5	0.5	1.1	0.96	7	130	229	6	43	40	1.8	10.7	10.8	0.5
7246	2014	97	3.6	35	2.8	1.4	3.7	3.91	6	1.27	25	26	34.1	3.7	0.43	1.44	894	0.5	0.5	1.4	1.25	6	102	473	5	57	59	3.3	14.7	16.5	0.5
7247	2014	80	2.7	13	1.8	0.9	3.6	3.83	8	0.94	22	21	37.3	12.1	0.36	0.4	305	0.5	0.5	1.1	1.06	4	29	414	3	47	49	1.7	12.9	15.4	0.5
7248	2014	117	2	21	1.9	1.1	3.6	3.47	9	0.5	22	14	20.6	17.3	0.36	1.4	443	0.5	0.5	0.8	0.62	5	118	320	4	28	28	1.7	10.1	9.6	0.5
7249	2014	99	2.2	18	2.4	1.4	3.5	3.49	12	0.69	24	19	23.4	6.1	0.43	1.09	638	0.5	0.5	1.2	1.05	7	68	262	6	36	40	1.8	12.6	12.8	0.5
7250	2014	84	2.5	13	2.9	1.2	3	3.16	10	1.11	21	20	26.7	3.8	0.42	1.26	759	0.5	0.5	1.6	1.52	9	34	256	4	51	54	1.5	14.5	15.8	0.5
7251	2014	78	3.1	11	2.7	0.9	3.3	3.43	11	1.05	21	17	23.5	7.7	0.45	1.1	678	0.5	0.5	1.5	1.36	8	40	235	8	51	55	1.8	13	13.6	0.5
7252	2014	84	3.7	10	2.5	0.8	3.2	3.35	10	1.17	24	23	50.9	7.1	0.44	1.09	658	0.5	0.5	1.3	1.17	11	31	165	5	64	65	1.6	14	15.1	0.5
7253	2014	101	2.3	10	4.1	1.2	4.1	4.26	14	0.88	16	14	16.7	13.7	0.51	1.41	816	0.5	0.5	1.5	1.44	10	22	395	4	36	40	0.7	19.3	21.4	0.5
7254	2014	73	3.2	3	3.5	1.1	3.2	3.35	18	1.3	17	14	8.2	7.6	0.52	1.39	940	0.5	0.5	1.7	1.63	16	14	172	14	53	55	0.6	19.2	20.4	0.5
7255	2014	44	2.8	9	2.6	0.8	2	2.1	13	0.96	22	21	25.3	9.6	0.47	0.39	279	0.5	0.5	0.91	0.84	8	14	255	5	58	57	1	7.9	8.5	0.5
7256	2014	44	3.6	7	2.1	0.8	2.4	2.81	12	0.92	20	20	27	11.9	0.48	0.35	243	2	1	0.9	0.9	9	13	201	13	42	48	1.1	6.6	7.7	0.5
7257	2014	41	2.4	11	2.9	0.9	2.3	2.21	12	1.08	24	22	22.5	10.7	0.55	0.38	254	0.5	0.5	1.2	0.96	7	20	493	10	55	56	1.4	7.5	7.4	0.5
7258	2014	59	2.6	8	3	1.3	2	1.96	15	0.91	24	20	21.4	10.1	0.55	0.62	420	0.5	0.5	1.3	1.07	10	17	294	8	44	49	1.1	11.1	11.2	0.5
7259	2014	96	2	9	4.6	1.4	3.6	3.52	15	0.94	24	21	25.9	5	0.59	1.4	967	0.5	0.5	1.7	1.56	9	28	526	5	37	41	0.9	19	19.6	0.5
7261	2014	99	3.2	13	3.3	1.2	4.3	4.12	8	0.85	18	16	25.6	22.3	0.42	1.39	707	0.5	0.5	1.3	1.07	9	28	380	2	37	41	0.6	18.5	18.9	0.5
7262	2014	89	2.4	15	3	1.5	3.3	3.21	9	0.72	20	17	24.5	20.9	0.45	1.01	560	0.5	0.5	1.2	1.01	8	27	468	5	27	34	0.7	15	15.6	0.5
7263	2014	91	1.8	14	3	1.1	3	2.65	8	0.72	20	16	15.9	15.1	0.4	1.17	552	0.5	0.5	1.4	1.06	7	34	562	1	33	36	1	16.5	16	0.5
7264	2014	72	1.6	9	2.6	1.1	2.5	2.27	12	0.6	22	17	16.4	9.4	0.51	0.84	552	0.5	0.5	1.3	1.03	9	20	294	4	31	32	1	14.2	13.6	0.5
7265	2014	80	1.7	17	2.2	1.1	2.6	2.55	9	0.57	18	15	19.6	15.7	0.33	0.87	457	0.5	0.5	1.1	0.97	7	30	298	4	23	28	0.9	12.8	13.4	0.5
7266	2014	87	3.5	14	3.4	1.1	3.1	3.79	7	0.9	21	23	30	10.8	0.3	1.09	573	0.5	0.5	0.95	0.96	8	39	170	6	39	49	0.9	12	15.4	0.5
7267	2014	99	3.4	16	3.2	1.1	3.7	4.1	8	0.84	19	18	28.3	14.1	0.38	1.62	1390	0.5	0.5	1.3	1.27	9	34	765	6	37	42	0.7	15.8	18	0.5
7268	2014	101	1.6	24	3.1	1	4.1	4.37	7	0.5	15	12	16.4	17.9	0.34	1.52	754	0.5	0.5	1.3	1.18	8	34	260	0.5	11	24	0.6	18.8	19.4	0.5
7269	2014	81	2.6	24	2.3	1	3	3.13	10	0.85	36	25	25.9	6.1	0.43	0.91	449	0.5	0.5	0.94	0.82	8	89	197	10	49	48	2.3	10.7	10.8	0.5
7270	2014	47	3.4	11	2.2	0.9	2.3	2.28	11	1.07	32	26	22.1	6.2	0.47	0.38	220	0.5	0.5	1	0.84	10	17	233	9	62	64	1.2	9	9.2	0.5
7271	2014	61	6.5	25	2.1	1.4	3.7	3.7	10	1.57	42	31	25.9	10.5	0.58	0.5	449	0.5	0.5	0.71	0.63	8	34	408	11	99	92	4.4	12.3	12.6	0.5
7272	2014	115	1.6	20	2	0.7	10	8.47	9	0.63	25	19	10.8	5.1	0.35	6.49	1376	0.5	0.5	0.95	0.72	5	1390	172	7	36	33	1.6	10.8	9.6	0.5
7273	2014	167	9.4	15	2	1.2	6.8	6.52	8	0.72	23	21	40.7	15.2	0.43	0.62	379	0.5	0.5	0.85	0.78	12	95	417	2	47	45	6.3	14.1	14	0.5
7274	2014	90	6.3	22	2.2	1.1	7.4	6.9	5	1.01	13	13	58.8	17.1	0.34	0.75	770	0.5	0.5	1.2	1.01	9	73	462	3	69	67	0.9	19.6	20.2	0.5
7275	2014	93	2.4	14	2	1.7	3.6	3.24	9	0.54	25	15	19.3	15.6	0.34	0.95	394	0.5	0.5	0.83	0.68	7	90	227	4	29	30	1.9	9.5	8.8	0.5
7276	2014	47	2.4	12	2.1	0.8	4	4.08	8	0.64	19	17	16.4	21	0.26	0.21	370	0.5	0.5	0.65	0.61	8	16	1273	11	35	38	0.9	7.9	8.6	0.5
7277	2014	55	5.5	17	1.9	0.9	3.5	3.48	7	1.2																					

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2 ppm	Cs1 ppm	Cu2 ppm	Dy2 ppm	Eu1 ppm	Fe1 pct	Fe2 pct	Hf1 ppm	K2 pct	La1 ppm	La2 ppm	Li2 ppm	LOI pct	Lu1 ppm	Mg2 pct	Mn2 ppm	Mo1 ppm	Mo2 ppm	Na1 pct	Na2 pct	Nb2 ppm	Ni2 ppm	P2 ppm	Pb2 ppm	Rb1 ppm	Rb2 ppm	Sb1 ppm	Sc1 ppm	Sc2 ppm	Se1 ppm
7279	2014	36	2	43	1.9	0.6	2.7	2.37	6	0.59	23	17	8.9	32.8	0.31	0.19	294	0.5	0.5	0.62	0.49	7	13	393	9	30	29	0.3	6.9	6.2	0.5
7280	2014	47	5.1	6	1.2	0.9	1.7	1.61	8	1.39	21	13	14.1	11.7	0.5	0.32	390	0.5	0.5	1.2	1.03	12	11	247	14	60	60	0.3	13.5	13.4	0.5
7281	2014	32	3	3	1.2	1.4	2.1	1.87	14	0.95	42	16	6.8	7.6	0.59	0.14	441	0.5	0.5	0.91	0.72	13	8	434	12	40	37	0.4	9	7.8	0.5
7282	2014	45	2.3	9	2.3	1.6	3.4	2.81	9	0.63	34	26	10.2	16.3	0.47	0.18	457	0.5	0.5	0.94	0.73	9	12	362	10	26	27	0.4	8.7	7.6	0.5
7284	2014	47	2.8	15	2.7	1.6	3	2.48	11	0.87	48	40	13.5	9.8	0.52	0.29	405	0.5	0.5	1.3	1.02	9	13	304	14	39	37	0.5	10.3	9.1	0.5
7285	2014	39	3.1	10	3.8	1.9	2	1.9	12	1.27	52	53	15.2	4.2	0.71	0.41	512	0.5	0.5	1.6	1.31	11	15	191	13	59	53	0.6	10	9.4	0.5
7286	2014	34	4.9	2	3.8	1.8	0.5	0.56	14	1.51	70	70	5.9	3.8	0.83	0.11	484	2	1	1.4	1.37	24	4	280	37	54	58	0.4	9.2	9.5	0.5
7287	2014	56	1.9	10	1.6	1.1	3.8	3.82	5	0.47	17	12	7.9	38.5	0.36	0.11	165	0.5	0.5	0.4	0.34	6	8	456	16	17	24	0.4	7.4	7.8	0.5
7288	2014	63	6.2	29	2.7	1.7	5.8	4.93	12	1.21	62	43	24.3	7	0.78	0.46	414	3	2	1.1	0.85	10	16	680	17	67	58	1.4	11.7	10.1	0.5
7289	2014	23	2.8	2	1.3	1.5	0.7	0.58	16	1.1	45	14	5.8	2.1	0.81	0.12	333	0.5	0.5	0.73	0.64	10	3	94	9	45	42	0.9	7.8	7	0.5
7290	2014	48	3.8	10	2.1	1.1	2.8	2.62	9	1	29	14	8.5	14.7	0.56	0.45	409	0.5	0.5	1	0.84	10	10	264	13	50	45	0.6	11.3	11.1	0.5
7291	2014	59	3.6	8	1.6	1.4	5.1	5.14	10	1.04	38	14	14.3	17.3	0.53	0.24	342	0.5	0.5	0.86	0.75	13	14	398	17	45	48	0.4	10	10	0.5
7292	2014	53	6.2	3	2	1.4	2.1	1.97	12	1.58	49	22	20.1	5.5	0.71	0.51	545	0.5	0.5	1.7	1.49	14	17	228	28	70	64	0.4	11.8	11	0.5
7293	2014	35	4	6	2.3	0.9	3.8	3.44	11	1.08	28	17	15.1	18	0.58	0.2	196	1	0.5	1.1	0.93	12	11	296	13	59	55	1.1	7.3	6.8	0.5
7294	2014	54	3.5	8	2.3	1	5	4.64	9	0.78	22	15	18.4	22.2	0.51	0.16	196	0.5	0.5	0.72	0.6	10	12	591	9	49	48	1.4	7.7	7.4	0.5
7295	2014	31	5.4	4	2.1	0.9	1.9	2.06	11	1.1	22	18	8.6	7.2	0.44	0.17	185	0.5	0.5	0.84	0.88	10	9	316	7	75	67	2.1	5.7	6.4	0.5
7296	2014	28	2.1	10	2.6	1.4	2	1.79	13	0.98	36	21	11.6	1.6	0.63	0.33	686	0.5	0.5	1.3	1.16	7	16	345	9	52	42	1.3	7.8	7.4	0.5
7298	2014	22	1.8	11	2.9	1.2	5.5	5.91	8	0.53	19	18	11.2	27.1	0.44	0.16	271	0.5	0.5	1.2	1.15	11	11	1692	5	27	38	0.9	14.1	15.5	0.5
7299	2014	34	3.3	6	1.9	0.8	1.1	1.21	11	0.86	24	21	11.8	9.8	0.44	0.19	410	0.5	0.5	1	0.91	14	7	213	12	39	44	0.7	8	8.3	0.5
7300	2014	40	2.4	17	1.8	0.9	2.9	2.88	9	0.82	21	18	13.6	5	0.39	0.31	400	0.5	0.5	1	0.91	10	18	391	15	42	43	1.2	9.2	9.1	0.5
7301	2014	21	1.7	3	1.7	0.8	0.5	0.48	15	0.65	28	26	2	1.6	0.49	0.07	275	0.5	0.5	0.47	0.42	13	3	70	6	27	28	0.9	5.4	4.8	0.5
7302	2014	45	2.5	11	2.9	0.9	2.4	2.36	9	1	25	25	21.6	16.3	0.42	0.35	253	0.5	0.5	1	0.91	9	20	355	16	46	49	1.5	7.5	7.9	0.5
7303	2014	45	2.3	9	2.4	1.1	2.7	2.75	10	0.99	26	24	19.3	13	0.41	0.29	241	0.5	0.5	1	0.89	9	15	283	14	42	49	1.2	7.1	7.5	0.5
7304	2014	49	3.4	17	2.9	0.9	2.3	2.62	9	1.62	27	29	26.5	4.2	0.38	0.53	364	0.5	0.5	1.1	1.14	10	24	210	14	75	80	1.6	8.3	10.2	0.5
7305	2014	47	2.3	10	2.4	0.25	3	3.12	8	1.37	23	20	19.3	14.9	0.45	0.23	259	0.5	0.5	1.2	1.08	7	12	282	14	52	62	1.2	6.7	7.4	0.5
7306	2014	38	2.6	14	2.7	1.3	1.8	1.95	11	1.46	30	28	17.8	3.1	0.53	0.39	317	0.5	0.5	1.4	1.3	10	19	218	18	66	65	1.8	7.8	8.3	0.5
7307	2014	30	2.8	6	3.7	1	3.1	3.12	11	1.19	27	24	21.7	14.7	0.58	0.22	194	1	1	0.88	1	11	233	13	57	57	1.5	6.1	6.1	0.5	
7308	2014	30	2.5	3	2.6	1.6	0.7	0.63	15	1.26	44	36	5.9	4.1	0.73	0.15	344	0.5	0.5	1.1	0.99	13	4	148	13	58	58	1	8.2	7.7	0.5
7309	2014	37	3.3	5	3.7	1.2	2.8	2.69	11	1.41	23	17	17.5	12.3	0.72	0.19	204	1	1	1.1	0.85	12	10	271	18	69	66	1.5	7.5	7.5	0.5
7310	2014	41	3.5	6	3.5	1.1	3.3	2.88	12	1.54	30	22	33.4	7.2	0.77	0.21	210	0.5	0.5	1.4	1.1	12	16	153	26	70	64	1.6	7.8	7.3	0.5
7311	2014	17	4.5	7	3.1	1.2	2.1	1.86	16	2.06	32	22	19.2	4.4	0.8	0.13	192	0.5	0.5	1.6	1.27	14	7	255	20	94	86	1.3	5	4.4	0.5
7312	2014	24	4.4	8	4.1	1.4	2.5	2.33	15	1.77	30	23	24.9	5.4	0.9	0.17	221	1	0.5	1.4	1.18	14	11	221	24	82	79	1.7	5.8	5.5	0.5
7313	2014	13	4.5	3	2.6	1.5	0.6	0.54	14	1.84	35	27	7.7	2	0.71	0.09	144	0.5	1	1	0.91	13	4	100	12	83	83	1.4	3.9	3.9	0.5
7314	2014	24	3.8	6	2.8	0.7	1.5	1.75	11	1.78	27	25	16.7	8.9	0.54	0.15	174	0.5	0.5	1	0.99	9	9	265	19	76	78	1.5	4.6	5.2	0.5
7315	2014	14	2.7	5	2.3	0.8	1.2	1.25	10	2.14	33	19	6.3	8.9	0.75	0.11	255	0.5	0.5	1.3	1.15	7	8	525	20	89	84	0.9	4.3	4.2	0.5
7316	2014	36	2.5	8	2.8	1.1	2	1.81	14	2.03	48	23	9.4	5.3	1.1	0.23	321	0.5	0.5	1.7	1.35	6	12	341	20	83	80	1.2	7.4	6.9	0.5
7317	2014	31	2.3	14	4.1	1.1	1.7	1.55	11	2.48	46	32	10.5	2.7	1.2	0.42	410	0.5	0.5	1.8	1.56	6	18	297	20	99	91	0.9	7.9	7.9	0.5
7318	2014	16	2.1	3	4.7	1.6	1.2	1.16	22	2.61	97	47	5.9	8.4	1.8	0.15	298	3	3	1.5	1.26	10	6	296	28	92	90	0.6	5.8	5.4	0.5
7319	2014	60	2.9	15	3.1	1.2	3.1	2.95	11	1.85	42	28	12.7	5.2	0.9	0.54	541	0.5	0.5	1.2	1.06	11	30	289	15	80	80	0.9	12.5	12.4	0.5
7320	2014	79	2.9	13	2.3	0.9	3.4	3.28	9	1.51	36	21	12.8	9.4	0.64	0.7	487	0.5	0.5	1.3	1.1	11	52	283	13	60	62	0.5	11.6	11.7	0.5
7322	2014	75	6.7	19	3	2.3	4.4	4.37	12	1.71	55	39	28.6	5.7	0.79	0.74	434	0.5	0.5	1.7	1.46	17	35	469	18	81	89	0.3	14.2	14.5	0.5
7323	2014	82	4.6	11	5.2	2.9	6.2	6.07	11	1.48	80	57	16.2	7.3	1.1	1.14	589	3	2	2.3	2.01	20	13	383	28	84	81	0.1	22.8	21.9	0.5
7324	2014	52	4.4	6	2	1.3	3.6	3.84	11	0.85	38	25	9	12.5	0.6	0.23	326	0.5	0.5	0.87	0.85	13	11	437	16	39	38	0.4	8.1	8.8	0.5
7325	2014	56	4.4	12	1.8	1	4.8	4.84	8	1.12	33	17	13.5	9	0.52	0.39	570	0.5	0.5	1	0.89	12	19	1668	18	54	54	0.4	9.3	9.3	0.5
7326	2014	71	2.6	12	2	1.2	3	2.63	10	0.91	34	19	14.5	8.5	0.6	0.37	620	0.5	0.5	1.1	0.82	8	18	284	13	42	44	0.7	10	9.1	0.5
7327	2014	59	2.7	12	2.7	1.6	3.2	3.01	10	0.98	37	25	13.3	12.5	0.59	0.33	411	0.5	0.5	1.1	0.92	8	18	291	15	40	43	0.6	8.9	8.7	0.5
7328	2014	41	2.6	3	2.8	2.1	0.9	0.83	26	1.33	78	49	2.2	4.2	1	0.11	229	0.5	0.5	1.2	1.01	10	7	171	4	60	57	1.1			

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7330	2014	64	7.3	19	3	1.7	4	3.84	13	1.28	59	30	24.9	10.8	0.68	0.52	768	0.5	0.5	1.2	1.02	13	22	403	16	73	68	0.5	12.6	12.2	0.5
7331	2014	41	3.7	15	2	1.6	4.2	3.72	10	0.95	56	28	14.7	7.3	0.52	0.32	560	0.5	0.5	1	0.8	11	13	587	17	45	47	0.3	8.9	7.8	0.5
7332	2014	38	2.9	5	1.8	1.7	1.5	1.34	14	1.65	47	26	9.5	3.1	0.5	0.12	384	0.5	0.5	0.82	0.64	15	6	247	9	71	62	0.3	10.8	10.4	0.5
7333	2014	37	2.3	11	1.7	1	2	2.26	8	0.8	21	19	9.8	5.3	0.28	0.25	470	0.5	0.5	0.73	0.89	9	13	407	13	29	35	0.4	5.6	7	0.5
7334	2014	46	4.5	4	1.1	0.9	1	1.16	8	1.72	22	13	7.4	7.5	0.41	0.3	376	0.5	0.5	1	0.98	15	10	191	14	70	71	0.3	12	14	0.5
7335	2014	41	4.3	8	2.2	1	1.1	1.24	10	1.25	23	21	18.8	7.6	0.41	0.31	331	0.5	0.5	1.1	1.07	14	11	135	13	60	62	0.7	10.3	11.5	0.5
7336	2014	31	3.7	7	2.5	1.6	2.1	2.13	11	0.88	45	33	10.9	5.2	0.56	0.21	475	0.5	0.5	0.89	0.82	11	10	376	12	38	41	0.3	7	7	0.5
7337	2014	59	3.6	17	2.9	1.2	2.3	2.33	10	1.46	45	41	19.5	2.7	0.54	0.44	589	0.5	0.5	1.2	1.11	11	24	268	14	73	66	0.5	10	9.7	0.5
7338	2014	84	5	20	2.5	1	3.6	3.59	10	1.21	45	34	31.1	9.8	0.59	0.45	424	0.5	0.5	1.2	1.01	10	37	518	13	57	59	0.4	11.2	11.7	0.5
7339	2014	59	3.7	17	2.9	1.4	2.9	3	11	1.26	49	38	18.3	7.4	0.64	0.47	487	0.5	0.5	1.1	1.04	10	19	332	17	57	60	0.4	10.6	11.7	0.5
7341	2014	66	4.9	16	2.3	1.7	4.8	4.98	11	1.32	58	29	15.5	9.3	0.65	0.48	534	0.5	1	0.95	0.89	14	19	684	18	59	63	0.3	11.4	12.3	0.5
7342	2014	49	2.3	11	2.8	1.2	2	2.11	12	0.89	40	33	9.6	7.2	0.52	0.38	578	0.5	0.5	1.2	1.13	7	15	371	13	35	40	0.3	7.9	9.1	0.5
7343	2014	111	1.9	17	3.1	1.2	7.3	7.45	7	0.87	27	27	9.8	22.3	0.47	0.75	554	0.5	0.5	0.72	0.66	13	20	476	9	23	32	0.4	14.6	15.2	0.5
7344	2014	77	2.2	14	4.5	1.4	3.4	3.31	12	0.81	42	39	12.3	10.7	0.78	0.58	1407	0.5	0.5	1.2	1.01	9	26	461	11	35	38	0.6	13.6	13.5	0.5
7345	2014	61	2.3	11	4.8	1.5	2.8	2.7	15	0.98	51	47	11.6	4.3	0.86	0.52	1568	0.5	0.5	1.4	1.16	9	19	224	12	43	42	0.4	13.1	13.1	0.5
7346	2014	56	2.4	15	4.7	1.4	2.7	2.55	15	1.11	61	58	11.1	4.4	0.93	0.51	1139	0.5	0.5	1.4	1.18	9	21	253	14	47	44	0.4	11	10.9	0.5
7347	2014	76	2.9	19	2.2	1.1	4.2	4.08	9	0.96	35	24	11.6	12.7	0.6	0.41	366	0.5	0.5	1.2	1.01	10	25	568	17	34	39	0.4	10	9.6	0.5
7348	2014	75	4.2	8	1.9	1	3.9	3.83	8	1.22	29	19	9.8	10.8	0.56	0.32	376	0.5	0.5	1	0.83	14	16	358	14	51	53	0.7	10	9.4	0.5
7349	2014	75	5.3	33	2.8	1.8	5	4.57	7	1.37	43	28	18	12.1	0.52	0.49	426	4	3	1	0.88	13	26	452	14	58	62	0.5	12.9	12.8	0.5
7350	2014	22	3.1	7	5	1.7	1.6	1.4	15	1.75	39	28	15	2	0.88	0.25	256	0.5	0.5	1.7	1.34	11	11	192	15	83	74	1.8	6.4	5.6	0.5
7351	2014	24	3.1	4	4.1	1.5	1.6	1.49	17	1.6	33	26	20.9	3.5	0.78	0.19	188	0.5	0.5	1.4	1.25	13	9	99	22	73	66	1.7	5.4	5	0.5
7352	2014	15	3.5	5	3.2	1.5	1.4	1.2	13	1.6	33	28	9.5	3.2	0.79	0.17	163	0.5	0.5	1.6	1	3	10	172	18	91	65	1.5	5.1	4.1	0.5
7353	2014	30	2.7	14	2	1.6	2	1.8	11	1.09	46	20	11.6	2.1	0.56	0.3	511	0.5	0.5	1.3	1.1	8	15	203	12	51	46	0.5	8.1	7.5	0.5
7354	2014	31	2.9	15	2.5	2.4	2.3	2.01	14	1.12	73	31	14.4	1.9	0.76	0.34	601	0.5	0.5	1.2	0.97	11	15	203	14	54	49	0.5	9	8	0.5
7355	2014	36	3.5	21	2	1.4	2.7	2.41	10	1.26	46	21	15.6	4.1	0.58	0.4	507	0.5	0.5	1.2	0.96	9	17	261	13	64	59	0.5	10	8.9	0.5
7356	2014	42	3.4	23	2	1.7	3	2.62	10	1.41	45	24	17.8	2.7	0.61	0.44	470	0.5	0.5	1.1	0.88	10	16	217	14	73	65	0.6	11.3	10	0.5
7357	2014	34	3	17	2.4	1.6	2.3	2.11	11	1.05	40	27	16	3.6	0.56	0.34	537	0.5	0.5	1.2	0.92	9	15	224	15	61	50	0.6	8.7	7.8	0.5
7358	2014	27	2.1	12	2.1	1.5	2.1	1.8	11	0.74	34	20	10.6	1.9	0.52	0.25	572	0.5	0.5	1.1	0.85	9	13	129	11	42	34	0.5	7.5	6.1	0.5
7359	2014	30	2.9	22	2.7	1.6	2.8	2.27	14	0.83	44	24	16.6	1.9	0.6	0.34	703	0.5	0.5	1.2	0.84	11	18	214	16	52	39	0.7	9.3	7	0.5
7361	2014	42	4.5	47	2.5	1.5	2.7	2.75	12	1.29	43	27	27.4	3.3	0.51	0.45	636	0.5	0.5	0.9	0.77	11	22	317	23	68	66	0.7	10	9.5	0.5
7362	2014	31	2.8	18	2.3	1.7	2.4	2.2	12	0.93	41	22	14.6	1.8	0.55	0.32	516	0.5	0.5	1.1	0.86	10	17	174	13	52	45	0.8	8.3	7.4	0.5
7363	2014	45	3.7	28	2.7	1.9	2.9	2.85	10	1.35	41	22	19.8	4.4	0.53	0.41	588	0.5	0.5	1	0.88	11	21	279	16	70	63	0.7	10.6	10.9	0.5
7364	2014	51	5	50	2.3	1.7	5.5	5.22	9	1.81	49	31	23.2	4.7	0.49	0.42	462	2	2	0.76	0.62	8	27	513	20	100	92	1.7	12.1	11.6	0.5
7365	2014	36	2.5	9	2.6	1.4	2.5	2.44	10	1.1	36	23	15.3	3.4	0.49	0.37	463	0.5	0.5	1.1	0.97	9	15	144	8	52	53	0.6	8.5	8.5	0.5
7366	2014	36	2.6	17	2.4	1.3	2.5	2.52	10	1.08	36	25	15.4	4.9	0.48	0.37	475	0.5	0.5	1	0.9	10	16	221	12	53	53	0.6	8	8.1	0.5
7367	2014	33	2.6	23	2.1	1.2	2.6	2.38	13	0.89	34	21	14	2.5	0.51	0.31	559	0.5	0.5	1	0.81	10	20	201	15	50	45	1.1	8.1	7.1	0.5
7368	2014	32	2.6	16	2.2	1.3	2.3	2.24	13	0.92	34	22	14.6	3.1	0.51	0.32	533	0.5	0.5	0.93	0.83	10	16	170	14	48	45	0.8	7.7	7.1	0.5
7369	2014	33	2.6	15	2.4	1.2	2.2	2.05	12	1.08	33	23	15.2	1.5	0.5	0.36	457	0.5	0.5	1.2	0.97	9	17	137	11	62	53	1	8.9	8.4	0.5
7370	2014	37	2.8	12	2	1.1	2.1	2.1	10	0.97	26	20	17	5.9	0.41	0.33	396	0.5	0.5	1	0.91	8	18	167	14	49	47	0.9	7	7.3	0.5
7372	2014	21	2	9	4.1	1.1	1.1	1.06	13	2.44	54	24	7.5	3.1	1.4	0.31	390	0.5	0.5	1.8	1.57	6	12	514	21	100	86	0.7	6.4	6.7	0.5
7373	2014	36	2.6	13	3.1	1.3	2.1	1.95	11	2.07	46	21	11.2	3.5	1.1	0.57	501	0.5	0.5	1.7	1.44	7	21	324	15	93	79	0.8	10.4	10.2	0.5
7374	2014	117	3.2	34	2.7	1	3.3	3.33	10	1.64	39	20	13.9	3.3	0.75	1.35	886	0.5	0.5	1.5	1.4	9	85	192	12	70	67	1.5	14.2	15.2	0.5
7375	2014	68	3	21	3.7	1.6	3.3	3.13	11	1.79	43	27	25	2.9	0.86	0.97	725	0.5	0.5	1.7	1.5	9	43	281	26	86	78	1.2	14.7	15.3	0.5
7376	2014	57	3.6	22	2.2	1.2	3	3.02	9	1.94	40	21	12	4.2	0.68	0.73	572	0.5	0.5	1.3	1.19	11	31	244	16	88	87	0.8	12.1	12.8	0.5
7377	2014	76	3.6	42	4.2	1.5	4.3	4.24	10	1.64	46	31	19.4	4.2	0.8	1.37	1069	0.5	0.5	1.6	1.42	11	53	349	35	73	70	1	18	18.7	0.5
7378	2014	58	2.2	25	3.5	1.4	2.8	2.74	12	1.53	42	21	9.8	6.4	1	0.66	784	0.5	0.5	1.5	1.28	8	40	331	13	67	60	0.7	11.8	12.1	0.5
7379	2014	44	2.8	22	3.2	1.6	2.6	2.5	15	2.09	61																				

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eul	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7382	2014	27	2.3	17	3.3	1.4	2.3	2.25	9	2.11	33	13	13.1	5.7	1.3	0.39	478	0.5	0.5	1.6	1.52	5	19	224	16	81	74	0.7	8.6	9.1	0.5
7383	2014	26	1.9	14	2.6	0.9	1.5	1.47	10	2.25	34	17	10.4	2.9	0.91	0.38	355	0.5	0.5	1.8	1.59	4	14	242	17	85	79	0.9	7.7	8	0.5
7384	2014	45	4.5	23	2.7	1.2	3.1	2.95	12	0.95	34	24	17.3	3.3	0.49	0.78	904	0.5	0.5	1.2	1.05	9	55	410	15	47	45	2.4	10.5	10.4	0.5
7385	2014	49	3.2	7	2.3	1.2	2.7	2.56	11	1.07	30	20	22.1	3.4	0.51	0.77	785	0.5	0.5	1.2	1.12	11	76	292	10	62	54	1.2	10	9.5	0.5
7386	2014	143	1.6	30	2.1	0.8	7.7	6.9	8	0.71	22	19	9.1	6	0.4	4.93	1240	0.5	0.5	0.85	0.72	6	1054	337	7	33	36	0.7	9.3	9.1	0.5
7387	2014	51	2.8	14	2.7	1.5	2.9	2.59	14	0.99	34	21	18.9	3.7	0.57	0.8	657	0.5	0.5	1.1	0.94	10	127	470	12	54	48	4.8	9.1	8.2	0.5
7388	2014	33	2.8	9	1.7	1	2.7	2.61	13	0.84	32	17	15.5	7	0.52	0.2	420	0.5	0.5	0.81	0.72	10	11	210	11	49	47	1.7	8.1	7.4	0.5
7389	2014	40	4	26	2.6	1.4	2.8	2.73	11	1.23	37	28	19.7	5.7	0.5	0.41	704	0.5	0.5	1	0.87	11	22	372	18	71	66	2.2	10	9.5	0.5
7390	2014	39	3.5	14	2.4	1.1	2	2.12	11	1.27	30	26	19.1	4.2	0.4	0.42	417	0.5	0.5	1	1.08	11	18	242	11	68	69	1.6	7.7	9.1	0.5
7391	2014	17	2.1	9	3.6	1.2	1.2	1.11	14	2.62	54	25	8.4	3.6	1.5	0.21	356	0.5	0.5	1.8	1.51	4	9	297	21	110	91	0.8	5.9	5.9	0.5
7392	2014	27	2.4	11	3.1	1.5	1.6	1.48	14	2.2	44	24	10.5	1.5	1.1	0.36	425	0.5	0.5	1.9	1.5	4	12	272	17	92	81	1.6	8.3	7.9	0.5
7393	2014	37	2.1	17	2.8	1	2.1	1.93	10	1.94	30	18	11.4	3.3	0.77	0.48	388	0.5	0.5	1.7	1.4	5	15	205	14	75	71	1.2	10.4	9.9	0.5
7394	2014	32	1.8	14	3.3	1.2	2.2	1.89	15	1.85	36	20	13	2.4	1.1	0.43	501	0.5	0.5	1.7	1.38	5	14	267	16	73	66	1.5	11.3	10.6	0.5
7395	2014	48	2.7	22	3.4	1.1	2.9	2.63	11	1.77	34	21	18.6	2.8	0.84	0.66	514	0.5	0.5	1.8	1.47	6	26	262	13	68	69	1.3	13.9	13.6	0.5
7396	2014	47	2.7	16	3.2	1.4	2.8	2.56	9	1.86	31	21	18.1	4.6	0.75	0.55	441	0.5	0.5	1.6	1.38	6	23	283	14	75	75	1.6	13.3	13.2	0.5
7397	2014	43	2.2	20	3.2	1.6	2.6	2.19	12	1.76	31	19	12.5	2.3	0.82	0.55	514	0.5	0.5	1.9	1.51	6	20	182	11	72	65	1.5	15.3	13.9	0.5
7398	2014	32	3.2	6	3.3	1.8	1.7	1.42	18	1.49	39	25	19.3	3.1	0.8	0.38	370	0.5	0.5	1.7	1.21	9	14	153	8	70	62	1.7	9	7.1	0.5
7399	2014	38	3.7	13	3.1	0.8	2	2.32	11	1.49	24	21	15.9	8.8	0.42	0.37	334	0.5	0.5	1	1.09	10	14	306	17	75	76	1.3	6.5	8.5	0.5
7400	2014	80	4.3	71	3.1	0.9	3.8	4.06	9	1.6	28	26	45.7	4.2	0.39	1.05	1344	1	0.5	1.3	1.27	11	51	547	17	88	87	2.4	14	15.7	0.5
7401	2014	97	6.4	70	4.4	1.5	4.1	4.64	8	1.41	36	37	50.2	5.8	0.4	1.09	1393	1	0.5	1.2	1.15	14	55	520	27	72	80	1.4	14.6	17.2	0.5
7403	2014	94	5.2	25	2.8	1.1	3.1	3.12	10	0.89	27	22	34.2	14.1	0.38	0.77	613	0.5	0.5	1	0.89	9	39	477	9	47	50	1.5	13	13.4	0.5
7404	2014	76	2.3	23	2.8	1.1	3.8	3.25	16	0.72	25	20	19.5	2.9	0.54	0.92	1161	0.5	0.5	1.6	1.24	9	34	493	7	40	38	1.8	14.5	12.7	0.5
7405	2014	81	5.7	31	2.2	1.1	3.7	3.62	7	1.1	22	20	34.1	4.5	0.37	0.98	1012	0.5	0.5	1.4	1.21	8	43	448	12	58	59	0.9	14.4	14.7	0.5
7406	2014	93	6.9	22	2.1	0.25	3.2	3.14	5	1.55	16	16	38.6	12.7	0.37	0.65	1166	2	2	1.1	0.96	13	25	369	11	69	78	0.05	17.3	19	0.5
7407	2014	66	3	14	2.2	1.1	2.9	2.59	10	0.73	21	17	20.5	6.6	0.43	0.59	822	1	0.5	1.4	1.1	9	28	167	9	38	35	0.8	10.9	9.8	0.5
7408	2014	88	6	24	2.2	0.9	4.2	3.32	10	1.23	28	22	33	3.5	0.35	1	901	1	0.5	1.5	1.1	10	47	239	9	79	63	1.2	16.1	14.1	0.5
7409	2014	104	18	42	1.8	0.9	5.5	5.81	5	1.44	15	15	63.1	8.4	0.28	1.55	1482	0.5	1	1.4	1.36	10	36	383	15	68	74	0.2	18.9	23	0.5
7410	2014	73	5.5	46	2.5	1.3	3.7	3.66	9	1.26	36	23	30.3	3.4	0.47	0.79	917	0.5	0.5	1.2	1.13	14	36	271	15	69	69	0.5	11.8	12	0.5
7411	2014	66	11	33	2.5	1.3	3.1	2.97	9	1.25	37	24	46.6	2	0.44	0.74	820	0.5	0.5	1.4	1.37	14	32	440	13	72	74	0.5	10.9	11.2	0.5
7412	2014	64	8.9	21	2.8	1.7	3.1	2.79	11	1.18	48	25	39.2	1.4	0.58	0.66	1072	2	2	1.6	1.36	16	31	576	11	74	67	0.6	11.2	10.3	0.5
7413	2014	73	7	23	2	1.3	3.1	2.82	9	1.21	30	18	32.1	2.4	0.41	0.81	743	0.5	0.5	1.4	1.19	9	48	316	10	78	69	1	11.4	11.1	0.5
7414	2014	85	9.2	27	2.9	1.3	3.9	3.62	8	1.54	36	27	37.6	2.7	0.48	0.99	1443	0.5	0.5	1.5	1.26	8	78	558	12	97	84	1.6	13.5	13.2	0.5
7415	2014	75	7	38	2	1.3	3.4	3.11	6	1.15	25	14	47	9	0.3	0.72	791	0.5	0.5	1.5	1.33	9	53	610	18	80	73	0.7	8.8	8.7	0.5
7416	2014	74	6.6	12	1.8	1.2	2.6	2.36	9	1.18	25	17	35.2	3.1	0.36	0.84	628	2	2	1.4	1.28	9	50	361	6	73	65	1	10.8	10.6	0.5
7417	2014	58	3.9	21	2	1.3	3.1	2.76	10	0.77	37	14	22.8	3	0.47	0.68	1350	0.5	0.5	1.2	1.12	14	42	485	10	46	40	0.8	10.3	9.1	0.5
7418	2014	62	7	20	2.6	0.9	2.9	2.91	8	0.96	29	16	33.9	2.5	0.37	0.82	1618	0.5	0.5	1.3	1.27	14	49	583	10	70	63	0.6	10	10.2	0.5
7419	2014	75	17	37	2.1	0.9	3.6	3.49	7	1.24	32	19	48.7	2.7	0.33	0.88	808	1	0.5	1.5	1.4	13	43	327	13	67	63	0.6	12.4	12.9	0.5
7420	2014	77	2.7	24	2.5	1	3	2.71	10	1.05	28	19	20.4	2.4	0.47	0.92	913	0.5	0.5	1.4	1.28	8	62	431	9	52	50	1.4	11.9	11.5	0.5
7422	2014	82	2.9	49	2.3	1.1	3.2	2.86	7	1.01	26	18	28.1	6.2	0.33	0.83	840	0.5	0.5	1.3	1.14	7	49	376	19	52	46	0.8	11.3	10.9	0.5
7423	2014	136	4.7	58	3.1	1.7	4.9	4.32	9	1.32	47	38	38	4.5	0.52	1.14	1109	0.5	1	1.4	1.21	6	77	497	22	72	61	0.9	15.8	14.7	0.5
7424	2014	93	4.1	4	1.3	0.25	2.3	2.2	8	1.16	11	8	14.3	5.4	0.43	0.28	998	0.5	0.5	1.3	1.16	10	11	100	3	61	57	1	18.5	18.4	0.5
7425	2014	84	3.6	38	2.9	1.4	4.1	3.54	9	0.9	33	26	34.2	4.6	0.49	1.06	773	0.5	0.5	1.5	1.25	9	60	270	9	47	42	1.3	16.1	14.6	0.5
7426	2014	77	2.5	19	1.9	1.5	3.2	2.58	9	0.79	24	15	20.3	8.6	0.37	0.98	710	0.5	0.5	1.3	1.01	8	49	289	5	43	37	1.2	12.2	10.2	0.5
7427	2014	77	2.3	37	2.5	1	4.3	3.64	10	0.82	28	22	29.1	5.8	0.42	0.97	723	0.5	0.5	1.6	1.29	9	57	152	18	47	39	1.5	14.1	12.6	0.5
7428	2014	87	2.7	33	2.2	0.6	3.2	3.55	8	0.98	17	16	35.8	6.8	0.26	1.12	601	0.5	0.5	1	1.11	8	77	293	15	50	49	1.4	10.6	13.2	0.5
7429	2014	83	3.1	49	3.7	1.4	4.1	4.35	6	1	23	22	37.3	6.6	0.37	1.2	828	0.5	0.5	1.1	1.13	5	71	614	15	51	47	1.9	14.3	16.6	0.5
7430	2014	83	4	16	2.3	1	2.9	3.13</																							

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7432	2014	74	2.3	16	1.7	0.8	3.4	3	10	0.87	30	21	17.7	2.8	0.44	1.32	503	0.5	0.5	1.1	0.9	7	147	132	8	49	45	2	10	8.8	0.5
7433	2014	70	2.1	11	1.7	1	2.7	2.2	10	0.76	26	16	18.4	4.3	0.4	1.48	399	0.5	0.5	1.1	0.93	8	104	190	4	41	35	1.8	9.5	8.2	0.5
7434	2014	120	3.1	20	2.2	1	4	3.62	9	0.9	29	24	21.6	7.3	0.44	2	639	0.5	0.5	1	0.79	9	14	181	6	46	45	3.3	11.5	10.4	0.5
7435	2014	79	4.1	77	2.8	1.4	4.3	3.61	10	1.3	34	26	29.4	2.7	0.51	1.59	1427	0.5	0.5	1.6	1.16	8	87	593	14	67	58	2.7	17.2	15.3	0.5
7437	2014	111	3.3	22	2.7	1.1	3	3.1	6	0.75	22	21	23	13	0.29	1.56	502	0.5	0.5	0.94	0.81	7	151	359	6	35	43	2.1	10.7	12.2	0.5
7438	2014	91	2.4	23	3.7	1.5	3	2.9	9	0.81	25	24	17.9	6.1	0.4	1.17	562	0.5	0.5	1.2	1.03	9	63	332	8	40	39	1.8	13.3	14	0.5
7439	2014	105	13	58	3.3	1.4	6.1	5.63	7	2	42	37	60.4	4.5	0.48	1.38	982	0.5	1	1	0.79	13	66	296	1	110	99	3.2	21.7	21.3	0.5
7440	2014	85	1.9	16	3.4	1.1	3.2	2.97	8	0.84	21	18	20.4	10.3	0.37	1.12	666	0.5	0.5	1.5	1.33	7	32	522	0.5	37	39	1.4	15.7	16.2	0.5
7441	2014	108	5.9	12	2.5	0.9	5.8	5.71	6	1.55	35	32	24.2	15.9	0.37	0.36	1632	0.5	0.5	0.65	0.55	11	18	743	9	93	91	1.4	18.7	19.5	0.5
7442	2014	81	5.1	47	3.4	1.1	12	12.45	6	0.61	18	19	42.4	30.7	0.35	0.51	880	2	2	0.52	0.46	5	25	1761	14	34	42	2.3	16.1	16.5	0.5
7443	2014	84	3.3	11	4.2	1.4	3.7	3.6	11	1.18	17	16	19.3	4.9	0.49	1.37	748	0.5	0.5	2.1	2.02	9	20	311	4	55	58	0.8	20.5	20.7	0.5
7444	2014	91	2.9	9	4.1	1.8	3.4	3.35	12	0.97	23	21	19.7	7.2	0.51	1.36	767	0.5	0.5	1.5	1.38	11	24	282	6	48	50	0.8	18.8	19.5	0.5
7445	2014	45	3	16	3.5	1.4	2.5	2.34	13	1.22	31	29	23.8	3.3	0.63	0.48	555	0.5	0.5	1.3	1.14	9	22	96	15	64	57	1.7	9	8.8	0.5
7446	2014	55	3.4	15	4	1.3	2.9	2.72	13	1.34	35	32	22.3	3.9	0.57	0.69	549	0.5	0.5	1.4	1.21	10	27	486	10	76	66	1.8	10.3	10.5	0.5
7447	2014	103	12	25	5.4	1.6	4.1	4.41	8	1.32	31	35	87.3	17.1	0.42	0.81	3539	4	4	0.55	0.48	12	47	633	13	84	87	0.9	12.4	14.7	0.5
7448	2014	54	3.2	10	2.7	1.1	2.3	2.28	13	1.25	26	24	32.6	3.6	0.46	0.74	447	0.5	0.5	1.2	1.12	11	27	326	7	66	63	1.4	9.5	9.7	0.5
7449	2014	94	1.6	15	3.8	1.4	2.8	2.81	10	0.8	20	17	13.8	16.6	0.42	1.16	730	0.5	0.5	1.4	1.26	8	23	624	2	30	35	0.6	16.5	17	0.5
7450	2014	96	2.5	17	3.7	1.4	3.6	3.43	10	0.84	21	17	20.1	8.3	0.43	1.34	669	0.5	0.5	1.5	1.31	8	30	346	4	37	42	0.8	17.9	18.5	0.5
7451	2014	104	2.2	19	3.8	1.5	3.8	3.71	8	0.83	21	19	17.6	5.9	0.41	1.45	725	0.5	0.5	1.7	1.56	8	34	299	5	40	43	1.4	20.5	21.4	0.5
7452	2014	107	4.6	19	2.5	0.9	4.5	4.39	7	1.03	18	16	41.9	7.2	0.33	2.34	931	0.5	0.5	1.3	1.18	10	69	432	4	56	58	1.8	17.2	17.2	0.5
7453	2014	89	2.5	29	3.6	1.1	5	4.87	6	0.5	21	19	31.4	22.4	0.3	1.01	530	0.5	0.5	0.89	0.78	7	49	610	2	25	32	1.6	15.9	16.4	0.5
7454	2014	123	4.3	23	3.2	1.1	4.3	4.21	9	1.14	29	26	35.3	6.4	0.39	2.57	716	0.5	0.5	1.2	1.05	10	294	203	8	66	64	1.6	14.9	15.1	0.5
7455	2014	95	2.4	21	3	0.9	3	3.09	8	0.72	31	29	16.8	7.4	0.34	1.24	546	0.5	0.5	1.2	1.17	8	43	202	5	31	37	1.2	13.6	15.6	0.5
7457	2014	52	3.1	15	3.5	1	2.4	2.35	11	1.17	31	29	23.5	3.8	0.53	0.7	417	0.5	0.5	1.2	1.09	10	29	193	9	62	57	1.4	10	10	0.5
7458	2014	56	4.4	20	2.4	1.4	3.2	3.11	11	1.65	43	30	27.1	3.3	0.53	0.65	362	0.5	0.5	1	0.9	10	36	180	12	93	84	2.4	11.2	11.1	0.5
7459	2014	46	3.5	13	2.5	1.3	2.2	2.15	12	1.37	39	29	23.7	3.2	0.55	0.53	324	0.5	0.5	1.1	1.01	10	23	298	7	75	68	1.6	10	9.3	0.5
7460	2014	89	3.2	16	2.7	1.2	3.7	3.36	7	1.18	34	30	16.8	3.6	0.44	6.73	779	0.5	0.5	0.83	0.63	9	677	381	7	66	59	2.2	10.4	9.9	0.5
7461	2014	542	0.6	11	0.5	0.25	6.9	5.99	1	0.15	5	1	2	8.2	0.08	18.19	1314	0.5	0.5	0.36	0.1	0.5	1633	87	2	10	14	3.2	8.3	7.6	0.5
7462	2014	75	2.5	14	2.4	1.4	3.4	2.82	12	1	37	24	15.9	2.2	0.58	1.17	765	0.5	0.5	1.3	1.01	8	200	261	8	56	45	2.4	10.7	9.1	0.5
7463	2014	84	6.2	20	1.8	0.9	3.4	2.93	4	0.71	15	9	23	23.3	0.21	1.22	255	0.5	0.5	0.77	0.6	3	50	435	0.5	43	47	1.2	13.8	12.9	0.5
7464	2014	35	2.9	11	1.8	1	2.9	2.52	12	0.83	29	20	13.6	8	0.51	0.27	342	0.5	0.5	1	0.86	8	13	657	8	46	42	1.3	8.4	7.2	0.5
7465	2014	32	3.2	18	2.6	1.1	2.4	2.1	12	1.05	29	21	16.1	1.9	0.48	0.41	359	0.5	0.5	1.3	1.13	10	20	132	13	62	49	1.4	9.1	8	0.5
7466	2014	28	2.4	15	2.1	1	1.9	1.88	11	0.99	29	19	11.5	1.5	0.39	0.33	438	0.5	0.5	1.1	1.11	10	15	432	11	52	45	0.9	7.2	7.8	0.5
7467	2014	42	4.7	23	2	1.1	2.9	2.76	10	1.25	31	21	19.7	3.1	0.47	0.45	468	0.5	0.5	1	0.93	10	25	237	14	75	61	1.4	10	9.7	0.5
7468	2014	34	2.6	15	2.5	1.3	2.4	2.16	12	1	32	26	14.6	2.4	0.55	0.36	498	0.5	0.5	1.2	1.06	10	17	164	10	52	44	0.9	8.4	7.7	0.5
7469	2014	55	5.4	17	2.2	1.5	4.6	4.08	7	1.28	32	19	22.3	14.3	0.47	0.37	362	0.5	0.5	0.84	0.71	9	23	543	12	75	68	1.2	12	11.2	0.5
7470	2014	40	10	6	1.5	1.1	2.6	2.19	11	1.31	41	23	9.7	7.4	0.65	0.18	327	0.5	0.5	0.6	0.49	11	10	451	8	81	65	1.3	10.4	9.2	0.5
7471	2014	29	2.3	10	1.9	1.3	2.2	1.8	12	0.98	44	22	10.4	1.6	0.65	0.32	525	0.5	0.5	1.6	1.29	8	14	249	11	51	40	0.5	9	7.5	0.5
7472	2014	42	3.8	5	1.6	1.2	4.5	3.57	11	1.01	36	12	11.6	7.4	0.57	0.26	463	0.5	0.5	1	0.79	11	13	1223	13	51	42	0.9	11.1	9	0.5
7473	2014	42	2.8	10	2.8	1.5	2.4	1.93	11	1.17	36	29	14.3	3.2	0.63	0.41	464	0.5	0.5	1.5	1.18	9	20	210	12	64	50	1.6	10	8	0.5
7474	2014	40	4	5	2.4	1.7	1.4	1.18	12	1.4	47	34	14.5	6	0.62	0.33	272	0.5	0.5	1.4	1.12	11	10	233	12	70	61	1	11.2	10.1	0.5
7475	2014	46	2.4	9	3.1	1.4	1.8	1.91	12	1.21	33	34	13.7	3.9	0.52	0.4	407	0.5	0.5	1.2	1.21	9	16	219	11	59	50	1.2	7.2	8.4	0.5
7476	2014	37	2.7	10	3.2	1.3	1.7	1.78	14	1.29	45	37	13.3	1.9	0.62	0.41	438	0.5	0.5	1.3	1.38	8	15	188	13	61	53	1	7.7	8.4	0.5
7477	2014	39	2.6	9	3.5	1.6	1.5	1.4	17	1.28	56	42	11.6	1.9	0.85	0.43	609	0.5	0.5	1.4	1.35	9	14	393	13	64	51	0.8	8.5	8.3	0.5
7478	2014	62	4.8	36	3.1	1.9	3.3	2.97	14	1.68	59	42	26.2	2.9	0.83	0.61	486	0.5	0.5	1.4	1.24	11	30	243	19	85	72	1.5	13.2	12.6	0.5
7479	2014	53	2.1	11	2.3	1.2	2.2	1.89	11	1.67	32	13	10.2	3.2	0.9	0.61	432	0.5	0.5	1.5	1.31	5	32	212	12	65	55	0.9	10	9.5	0.5
7480	2014	42	2.7	7	1.8	1.1																									

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7482	2014	344	4.1	89	3	1.6	4.9	4.29	10	1.39	40	30	20.2	6.5	0.7	2.05	586	0.5	0.5	1.4	1.17	9	153	350	6	72	65	1.7	15.8	14.2	0.5
7483	2014	55	2.7	10	2.7	1.4	2.5	2.13	13	1.11	33	24	14.6	2.4	0.6	0.53	600	0.5	0.5	1.2	1.05	7	94	212	12	62	48	2.1	7.7	6.7	0.5
7484	2014	51	4.9	14	4	1.7	2.3	2.03	11	1.47	40	33	23.9	9.6	0.6	0.52	377	0.5	0.5	1.3	1.09	10	25	378	10	83	74	2.2	10.9	10.2	0.5
7485	2014	33	5.3	5	1.6	0.25	2.8	2.85	9	0.96	18	17	5.3	4.5	0.33	0.14	311	0.5	0.5	0.73	0.69	13	7	218	8	53	52	0.9	7.1	7.3	0.5
7486	2014	53	3.2	13	2.7	1.3	3.9	3.88	8	0.78	24	18	13.6	12.7	0.4	0.27	451	0.5	0.5	0.9	0.82	10	14	589	9	39	42	0.4	10	10.1	0.5
7487	2014	49	3.6	15	2.7	0.7	3	3.14	7	0.86	24	21	16.6	17.2	0.42	0.35	381	0.5	0.5	0.82	0.8	11	15	534	10	43	50	0.6	9.1	9.7	0.5
7488	2014	40	2.7	10	2.7	1.7	2.3	2.19	14	1.32	43	30	16.6	1.7	0.66	0.45	413	0.5	0.5	1.3	1.29	10	21	224	11	65	59	1.7	10.4	10.1	0.5
7490	2014	48	3.4	21	3.2	1.5	2.7	2.42	14	1.25	39	29	21	3.8	0.67	0.55	436	0.5	0.5	1.3	1.19	10	38	245	14	71	59	2.2	11.3	10.4	0.5
7491	2014	44	3.4	11	2.6	1.2	2.8	2.34	13	1.23	37	27	26.7	4.1	0.61	0.49	299	0.5	0.5	1.3	1.06	9	21	117	9	72	57	1.8	10.5	9.1	0.5
7492	2014	25	3.8	6	4.1	1.4	2.3	2.24	15	1.74	28	22	23.3	6.5	0.86	0.19	254	2	1	1.2	1.13	12	10	263	21	90	77	2.9	5.6	5.3	0.5
7493	2014	25	3.1	4	4.4	1.2	1.3	1.35	14	1.72	34	30	37.7	2.6	0.72	0.23	267	1	0.5	1.5	1.48	12	11	92	12	78	73	2	5.8	6.1	0.5
7494	2014	20	2.8	8	3.6	0.7	1.5	1.52	13	1.85	23	21	18.5	1.7	0.61	0.21	265	0.5	0.5	1.4	1.41	11	10	200	21	91	83	2.4	4.9	5.3	0.5
7495	2014	37	3.1	4	3.5	0.7	3.5	3.82	10	1.24	24	21	15.8	14	0.54	0.18	238	0.5	0.5	0.82	0.82	12	11	553	20	62	65	1.7	8.1	8.2	0.5
7496	2014	49	4.3	9	3.7	0.9	4.1	4.18	10	1.13	28	22	16.7	17.1	0.62	0.25	365	0.5	0.5	0.82	0.79	13	16	553	20	62	65	1.7	8.1	8.2	0.5
7497	2014	43	2.4	6	2.7	1.1	2.2	2.19	10	1.04	26	24	17	12.6	0.5	0.27	302	0.5	0.5	1	0.93	9	16	303	15	45	43	1.4	6.8	7	0.5
7498	2014	46	4	11	3.8	1.2	2.5	2.39	10	1.63	28	27	24.8	10.5	0.6	0.46	376	0.5	0.5	1.2	1.12	11	23	372	19	75	74	1.3	8.5	8.7	0.5
7499	2014	29	3.5	11	4.2	1.4	1.9	1.76	13	1.71	33	31	22.7	4.1	0.72	0.29	256	0.5	0.5	1.3	1.26	13	14	126	27	80	69	1.7	6.2	6	0.5
7500	2014	38	4.3	10	3.6	1.3	2.3	2.06	12	1.52	31	26	31.1	7.5	0.64	0.36	226	0.5	0.5	1.4	1.23	11	17	168	24	71	63	1.7	7.1	6.9	0.5
7501	2014	22	3	10	2.9	1	2	1.64	12	1.95	35	19	13.9	4.1	0.89	0.2	235	0.5	0.5	1.6	1.33	8	9	307	17	88	69	1.4	8.2	7.4	0.5
7502	2014	20	2.9	8	3.5	1.2	1.7	1.5	14	1.94	33	22	18.1	3	0.84	0.22	234	0.5	0.5	1.7	1.46	10	10	218	25	85	68	1.6	5.9	5.4	0.5
7503	2014	26	2.5	7	4.2	1.4	2.1	1.85	14	1.84	34	21	15.3	2.3	0.8	0.26	416	0.5	0.5	1.6	1.4	8	12	103	17	77	65	1.8	7.9	7.7	0.5
7504	2014	22	2.2	6	2.5	1	1.5	1.41	14	1.95	29	14	13.1	3.4	0.72	0.25	259	0.5	0.5	1.3	1.31	6	10	195	18	79	68	1.5	5.5	5.9	0.5
7505	2014	20	2.3	6	2.5	1.4	1.1	1.01	12	2.27	43	18	9.4	3.7	1	0.19	235	0.5	0.5	1.6	1.53	4	9	242	19	88	77	1	5	5	0.5
7506	2014	18	1.7	5	1.9	1	1.2	1.07	13	2.28	36	10	8.3	2.8	1.2	0.19	272	0.5	0.5	1.6	1.47	3	9	264	20	82	73	0.9	5.5	5.1	0.5
7507	2014	17	2.2	6	1.4	1.1	1.2	0.98	9	2.23	28	8	10.8	2	1	0.19	242	0.5	0.5	1.8	1.51	3	9	247	20	89	75	0.9	5	4.4	0.5
7508	2014	9	1.8	3	2.3	1.5	1	0.79	16	2.58	61	15	6.4	3.4	1.7	0.12	241	0.5	0.5	1.7	1.59	3	5	185	23	91	78	0.5	4.6	4	0.5
7510	2014	35	2.5	11	2.1	1.4	2.1	1.91	12	2.02	48	17	7.3	1.6	1	0.5	420	0.5	0.5	1.7	1.52	8	24	219	15	86	75	0.7	10	9.1	0.5
7511	2014	135	5.1	8	2.7	1.2	3.6	3.34	10	2.32	41	22	30	4	0.78	1.29	565	0.5	0.5	1.2	1.06	11	57	245	10	110	104	0.6	15.4	15.2	0.5
7512	2014	78	6.2	30	2.1	1.3	4.2	3.7	12	1.91	56	21	23.8	3.6	0.9	1.09	549	0.5	0.5	1.5	1.21	11	67	250	13	100	90	0.7	16.2	15	0.5
7513	2014	61	3.6	12	1.9	1.1	2.6	2.55	9	0.98	33	13	16.4	10.1	0.41	0.45	411	0.5	0.5	1.1	1.03	6	29	362	12	47	46	0.4	10	10.4	0.5
7514	2014	61	2.8	19	4.7	1.5	2.3	2.26	15	1.32	60	54	14.2	4.5	0.85	0.72	1405	0.5	0.5	1.3	1.39	10	24	476	14	64	60	0.5	11.8	12.3	0.5
7515	2014	44	1.6	13	3.1	1.2	1.8	1.81	12	0.98	36	33	10.1	1.2	0.62	0.5	1002	0.5	0.5	1.3	1.4	7	26	238	11	46	43	0.6	8.4	8.7	0.5
7516	2014	61	2.3	14	3.1	1.5	2.4	2.28	14	0.96	45	32	12.8	4	0.73	0.59	959	0.5	0.5	1.3	1.36	8	22	225	12	43	43	0.5	11.1	11	0.5
7517	2014	59	3.4	20	3.2	1.4	2.4	2.37	14	1.26	47	36	19.9	3	0.8	0.64	677	0.5	0.5	1.3	1.38	9	23	179	11	60	59	0.6	11.4	11.2	0.5
7518	2014	49	3.2	21	3.3	1.9	2.5	2.44	14	1.26	68	45	15.9	3.8	0.78	0.56	674	0.5	0.5	1.4	1.47	10	19	310	15	61	60	0.4	10.4	10.1	0.5
7519	2014	59	9.4	17	2.1	2.3	4.4	4.37	11	2.18	77	33	45.6	3.2	0.74	0.74	564	1	1	1.3	1.3	15	17	493	19	130	128	0.4	15.9	15.7	0.5
7520	2014	44	3.4	19	2.3	1.5	2.4	2.36	10	1.36	48	25	19.5	3.5	0.55	0.45	544	0.5	0.5	1.3	1.35	10	16	424	16	61	64	0.3	10	9.4	0.5
7521	2014	36	2.6	12	1.8	1	2.4	2.26	9	1.01	37	19	12.9	7	0.42	0.28	459	0.5	0.5	1.1	1.13	9	12	492	12	44	43	0.3	7.4	7	0.5
7522	2014	25	2.3	14	2.7	1.3	1.9	1.87	10	0.85	34	33	10.2	1.9	0.44	0.26	606	0.5	0.5	1	1.04	10	12	392	11	43	43	0.4	6	5.8	0.5
7523	2014	42	3	20	2.5	1.2	2.2	2.28	8	0.81	31	25	11.3	13.7	0.35	0.25	472	0.5	0.5	0.73	0.72	11	12	490	12	34	40	0.5	7.2	7.6	0.5
7524	2014	29	2.6	12	2.8	1.7	1.5	1.48	11	1.13	49	42	12.4	2	0.54	0.32	534	0.5	0.5	1.2	1.16	12	11	435	12	50	50	0.4	7.8	7.3	0.5
7525	2014	35	3.6	14	2.8	1.6	2	1.96	10	1.4	46	37	18.6	1.3	0.52	0.38	567	0.5	0.5	1.2	1.26	11	15	375	14	67	63	0.4	8.6	8.9	0.5
7527	2014	20	2.1	10	2.5	1.3	1.2	1.14	12	0.9	44	34	10.5	0.9	0.6	0.2	501	0.5	0.5	1.5	1.6	7	8	488	13	45	44	0.2	5.5	5.2	0.5
7528	2014	26	2.3	9	2.7	2.1	1.6	1.49	14	1.09	65	39	9.8	1.1	0.76	0.26	563	0.5	0.5	1.4	1.45	7	10	336	17	56	49	0.4	7.3	7	0.5
7529	2014	41	2.9	14	2.9	2.1	2.5	2.34	16	1.63	77	41	15.4	1.5	0.84	0.48	533	0.5	0.5	1.3	1.4	10	14	324	15	78	71	0.4	11.3	11.4	0.5
7530	2014	66	4	28	2.8	1.8	3.2	3.3	12	1.58	45	32	19.5	4.6	0.55	0.83	730	0.5	0.5	1.1	1.26	10	30	319	13	78	82	0.6	12.5	13.2	0.5
7531	2014	66	2.6	25	4.1	1.9	3.3	3.35	15																						

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Gr2	Cs1	Cu2	Dy2	Eu1	Fe1	Fe2	Hf1	K2	La1	La2	Li2	LOI	Lu1	Mg2	Mn2	Mo1	Mo2	Na1	Na2	Nb2	Ni2	P2	Pb2	Rb1	Rb2	Sb1	Sc1	Sc2	Se1
		ppm	ppm	ppm	ppm	ppm	pct	pct	ppm	pct	ppm	ppm	ppm	pct	ppm	pct	ppm	ppm	ppm	pct	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7533	2014	63	2.3	11	3.8	2	2.4	2.35	12	1.31	48	43	12.3	4.6	0.73	0.74	632	0.5	0.5	1.4	1.45	11	32	210	11	56	55	0.6	11.3	11.4	0.5
7534	2014	75	2.1	19	4.2	1.6	2.7	2.58	12	0.94	44	43	7.9	8.7	0.64	0.77	637	0.5	0.5	1.3	1.41	12	39	246	12	35	39	1.2	11.4	11.4	0.5
7535	2014	47	2.8	13	3.4	1	2.4	2.35	10	1.54	27	22	18.3	6.9	0.64	0.46	410	0.5	0.5	1.4	1.42	9	20	304	14	64	62	1.2	10	9.7	0.5
7536	2014	41	2.5	16	3.6	1.1	2.3	2.22	10	1.85	32	28	15.3	3	0.73	0.52	513	0.5	0.5	1.5	1.51	9	21	269	13	79	71	1.4	10.4	10.9	0.5
7537	2014	46	2.8	15	2.7	1.1	2.4	2.36	9	1.7	30	20	16.6	3.8	0.62	0.56	375	0.5	0.5	1.4	1.32	6	25	198	12	75	70	1.3	10.9	11.3	0.5
7539	2014	21	2.2	8	3.1	1.2	1.4	1.3	15	2.12	37	18	11.3	1.5	1	0.28	403	0.5	0.5	1.5	1.44	4	11	340	16	88	72	1.5	6.4	6.3	0.5
7540	2014	27	1.9	10	2.1	0.9	1.3	1.32	9	2.05	26	14	11.6	4	0.64	0.33	269	0.5	0.5	1.5	1.44	4	14	229	16	82	71	1.2	6.3	6.9	0.5
7541	2014	15	1.7	6	2.2	1	0.9	0.84	12	2.47	37	13	8.1	1.9	1	0.17	269	0.5	0.5	1.5	1.59	3	7	199	20	82	78	0.7	4.3	4.9	0.5
7542	2014	47	3	6	3	0.7	2.5	2.43	13	1.42	33	27	17.7	9.6	0.45	0.49	486	0.5	0.5	1.5	1.45	12	14	264	17	60	58	0.2	9.1	9.9	0.5
7543	2014	83	3	3	1.4	0.25	2.4	2.42	16	0.79	7	6	7.9	5.8	0.32	0.56	218	0.5	0.5	1	0.98	22	19	162	16	30	30	0.4	7.8	7.4	0.5
7544	2014	83	2	11	3.1	0.8	3.4	3.43	9	0.8	17	16	22.8	11.3	0.39	0.93	212	0.5	0.5	0.67	0.62	13	24	186	12	19	24	0.4	10.9	11.4	0.5
7545	2014	86	2.4	18	2.4	1.7	2.5	2.34	11	1.32	48	29	14	2	0.67	0.89	538	0.5	0.5	1.3	1.2	7	46	211	12	61	58	0.6	12.3	11.7	0.5
7546	2014	291	1.4	19	2.2	1	4.1	3.66	7	1.13	23	16	5.6	2.2	0.56	4.33	737	0.5	0.5	1.4	1.17	2	463	99	6	46	45	1.7	24.5	24.5	0.5
7547	2014	389	0.25	7	0.2	0.25	4.5	4.21	0.5	0.06	1	0.5	0.05	5.1	0.025	19.62	1196	0.5	0.5	0.25	0.03	0.5	2036	51	0.5	2.5	8	0.5	5.7	5.8	0.5
7548	2014	16	2.1	4	1.9	1.3	1.1	0.92	15	2.33	52	11	6	1.7	1.5	0.22	284	0.5	0.5	1.9	1.75	5	9	186	21	100	94	0.5	5.4	4.7	0.5
7549	2014	53	1.7	10	2	1	2.1	1.83	14	0.81	33	12	10	3	0.55	0.55	578	0.5	0.5	1.3	1.2	7	21	174	11	37	36	0.4	9.2	8.4	0.5
7550	2014	42	1.9	8	2.2	1.1	2.1	1.98	11	1.02	26	16	9	6.5	0.46	0.37	460	0.5	0.5	1.2	1.16	7	14	203	12	39	43	0.2	8.2	8.1	0.5
7551	2014	42	3.5	5	2.3	0.7	2.6	2.74	12	1.32	33	19	15	12.9	0.44	0.16	348	2	2	1.2	1.18	14	9	213	15	48	61	0.3	6.6	6.9	0.5
7552	2014	20	2.9	3	1.4	0.7	1.1	1.26	17	2.11	58	26	8.3	5.8	0.34	0.13	238	0.5	0.5	1.6	1.76	14	5	167	19	110	108	0.3	5.3	5.8	0.5
7553	2014	101	4	87	2.4	1	9.1	9.17	6	2.13	29	32	36.6	8.6	0.43	0.66	1131	5	5	1	1.02	0.5	104	491	29	110	109	4.5	14.4	16.5	0.5
7554	2014	60	2	12	2	1	2.1	2.06	12	1.07	21	16	12.2	5.6	0.39	0.46	437	0.5	0.5	1.3	1.32	7	20	278	10	42	44	0.3	7.1	7.4	0.5
7555	2014	54	4.2	8	1.9	0.9	2.4	2.42	9	0.91	15	13	16.9	6.9	0.38	0.54	585	0.5	0.5	1.6	1.57	8	17	236	8	35	43	0.5	10	10.1	0.5
7556	2014	89	5.5	29	2.3	1	5.4	5.45	7	1.1	26	27	24.9	13.8	0.34	0.56	637	2	2	0.93	0.92	7	28	503	18	44	53	1.3	11.1	12.2	0.5
7557	2014	63	3.3	19	2	0.6	3.5	3.47	8	0.8	17	17	16.5	10.7	0.31	0.52	590	0.5	1	1.3	1.3	7	22	325	15	30	36	0.6	9.2	9.5	0.5
7558	2014	58	4.2	41	2.6	1.2	3.2	3.26	8	1.08	30	30	28.2	3.6	0.41	0.63	959	0.5	2	1.4	1.37	8	28	409	16	45	56	2.8	10.4	10.9	0.5
7559	2014	48	2.9	54	2.7	1.3	2.7	2.64	9	0.84	32	28	22	4	0.46	0.54	784	2	2	1.4	1.37	8	32	346	32	41	39	2.3	8.7	8.7	0.5
7561	2014	43	1.9	9	2.9	1.2	1.6	1.74	16	0.95	33	28	8.8	3.4	0.45	0.43	549	0.5	0.5	1.2	1.28	9	15	261	10	37	39	0.4	6.9	8.3	0.5
7562	2014	95	3.8	12	2.8	1	3.7	3.96	7	1.3	17	17	38.2	12.9	0.28	1.15	294	0.5	1	1.5	1.57	10	20	388	10	42	45	0.1	10.9	12.8	0.5
7563	2014	65	4.2	15	3.1	1	2.9	3.14	9	1.47	30	29	25	8.4	0.36	0.88	373	0.5	1	1.3	1.38	9	25	299	12	59	64	0.3	9.3	11.2	0.5
7564	2014	102	3.3	5	3	1	1.7	1.67	13	1.25	26	24	11.2	9.1	0.46	1.17	507	0.5	0.5	1.4	1.33	10	31	386	21	59	60	0.5	11.4	11.6	0.5
7565	2014	88	4.5	50	2	1.3	8.3	7.87	10	2.12	37	34	25.4	9.9	0.51	0.57	238	4	4	1.2	1.04	4	59	525	31	110	101	5.6	14	14.4	0.5
7566	2014	87	4.1	73	2.5	1.2	10	9.38	8	1.91	39	38	28.7	11.9	0.37	0.53	647	5	4	1.1	0.97	2	95	883	50	98	93	3.4	11.9	12.5	0.5
7567	2014	82	4.7	44	2.4	1.4	5.7	5.59	6	1.48	30	27	30.6	11.6	0.4	0.5	610	2	3	1.4	1.33	3	56	599	21	69	68	6.3	12.1	12.8	0.5
7568	2014	92	5.1	37	1.9	1.2	5.7	5.67	7	1.87	34	29	31	9	0.48	0.69	532	3	3	1.1	1.03	3	55	525	18	90	88	7.3	14.9	16	0.5
7569	2014	60	3.4	16	1.9	0.7	4	3.81	9	1.09	22	19	20.7	7.1	0.4	0.57	649	2	2	1.3	1.26	7	23	283	13	47	53	2.6	10	10	0.5
7570	2014	92	3.8	57	1.8	1.2	7.8	7.83	5	1.82	26	23	38.6	8.5	0.38	0.94	518	6	5	1	0.93	1	55	499	27	88	86	45.8	14.4	16.2	0.5
7571	2014	74	5.8	18	1.9	0.7	6.4	6.93	6	1.32	16	17	29.4	8.1	0.28	0.42	897	7	6	0.75	0.76	11	20	568	13	69	67	2.6	10.7	12.2	0.5
7572	2014	134	5.3	20	1.5	1	6.5	6.62	7	0.94	17	16	59.2	10.6	0.37	1.15	683	0.5	0.5	1	1.05	5	39	399	5	35	38	1.8	20.1	21.7	0.5
7573	2014	52	6.5	34	3.4	0.9	3.4	3.26	9	1.16	26	23	34.4	5.7	0.48	0.71	1066	0.5	0.5	1.3	1.2	11	26	302	12	61	59	1.5	12.8	13.3	0.5
7574	2014	74	6.2	48	2.9	1.3	4.4	4.17	7	1.49	32	31	42.5	5.7	0.42	0.9	1879	3	3	1.1	0.97	12	49	516	18	86	78	4.3	12.8	13.2	0.5
7575	2014	65	4.1	21	1.8	1	2.3	2.24	9	1.18	24	22	21.7	7.1	0.39	0.6	447	0.5	1	1.3	1.25	8	24	306	14	56	53	2.2	10	10.1	0.5
7576	2014	61	2.8	11	2.6	0.9	2.5	2.45	10	1.09	22	20	13.5	8.3	0.36	0.5	403	0.5	0.5	1.2	1.22	8	20	238	12	45	45	0.2	8.1	8.7	0.5
7577	2014	14	2.6	0.5	1.2	0.7	0.7	0.69	15	1.56	40	18	11.3	3.7	0.45	0.09	257	0.5	0.5	1.3	1.34	10	4	115	14	69	64	0.3	4.4	4.4	0.5
7578	2014	63	4.8	2	1.9	0.9	2.2	2.25	11	1.22	20	15	25.4	7.6	0.38	0.59	389	0.5	0.5	1.2	1.24	13	17	208	15	52	55	0.4	8.7	9.4	0.5
7580	2014	90	2.7	5	1.9	1.1	2.4	2.43	9	1.07	25	17	20.9	6.6	0.4	0.75	469	0.5	0.5	1.2	1.22	9	27	153	9	45	41	0.4	10.5	11.5	0.5
7581	2014	100	2.1	4	3.6	1.2	2.8	2.77	11	1.63	7	6	17.7	5.6	0.36	1.76	634	0.5	0.5	1.4	1.36	17	39	175	11	56	56	0.4	13.2	14.2	0.5
7582	2014	94	4.6	5	1.9	0.25	3.6	3.73	7	1.61	11	9	11	4.6																	

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Cr2 ppm	Cs1 ppm	Cu2 ppm	Dy2 ppm	Eu1 ppm	Fe1 pct	Fe2 pct	Hf1 ppm	K2 pct	La1 ppm	La2 ppm	Li2 ppm	LOI pct	Lu1 ppm	Mg2 pct	Mn2 ppm	Mo1 ppm	Mo2 ppm	Na1 pct	Na2 pct	Nb2 ppm	Ni2 ppm	P2 ppm	Pb2 ppm	Rb1 ppm	Rb2 ppm	Sb1 ppm	Sc1 ppm	Sc2 ppm	Se1 ppm
7590	2014	-9	5	-9	-9	1.1	3.8	-9	12	-9	30	-9	-9	4.8	0.45	-9	-9	0.5	-9	1	-9	-9	-9	-9	-9	48	-9	5	8.9	-9	0.5
7591	2014	39	7.5	2	1.8	0.8	1.2	1.19	10	1.55	15	12	16.9	7.3	0.5	0.25	838	0.5	1	1.2	1.19	14	7	142	13	67	70	0.7	11.8	12.5	0.5
7592	2014	73	5	81	7.3	2.1	6.2	6.44	4	0.83	41	45	25.6	31.3	0.36	0.35	503	3	4	0.35	0.3	8	25	580	21	40	50	1.3	11.4	13.1	0.5
7593	2014	63	4.7	39	2.5	0.9	3.7	3.78	9	1.25	26	27	27.8	3.6	0.4	0.71	910	3	3	1.3	1.31	7	60	318	14	63	63	3	11	11.7	0.5
7594	2014	122	4	6	1.2	0.8	1.1	1.3	10	1.63	26	30	17	2.7	0.31	0.26	72	0.5	0.5	1.1	1.17	5	11	108	3	81	85	1.3	10	12	0.5
7595	2014	573	3.4	52	5.9	1.7	5.7	5.53	4	0.59	15	15	115.6	13.7	0.35	3.6	833	0.5	1	0.8	0.71	26	188	596	0.5	22	28	0.2	42.4	44.2	0.5
7596	2014	61	2.7	6	2.5	0.9	2.2	2.26	10	0.99	25	21	12.6	5.1	0.45	0.5	505	0.5	0.5	1.2	1.19	9	18	262	10	44	45	0.4	8.9	9.9	0.5
7597	2014	56	1.6	4	2.3	1.1	1.3	1.35	11	0.87	30	22	7.5	5.4	0.51	0.46	508	0.5	0.5	1.2	1.2	8	16	221	10	35	35	0.4	7.9	8.7	0.5
7598	2014	78	3.2	7	1.9	1	1.8	1.88	10	1	29	21	13	8.9	0.51	0.6	446	0.5	0.5	0.95	0.98	13	19	222	14	42	45	0.6	10	10.5	0.5
7599	2014	69	1.6	3	1.6	0.6	1.2	1.14	11	1.23	19	13	8	3.2	0.5	0.47	490	0.5	0.5	1.4	1.44	7	13	104	8	51	48	0.7	10	11.2	0.5
7601	2014	143	6	26	2.8	0.6	8.5	7.89	4	1.11	8	10	40.2	12.5	0.28	1.28	832	0.5	0.5	1.4	1.42	14	44	370	16	45	50	0.8	21.8	22.6	0.5

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7001	2013	5.5	113	1.2	0.9	11.3	3857	2.8	45	1	12	2.6	21	590	82
7002	2013	6.5	148	1.3	1.1	12.9	3956	3.6	42	2	21	3.6	27	610	118
7003	2013	5.8	108	1.1	0.9	11	3537	2.4	45	1	13	2.7	29	320	73
7004	2013	6.4	115	1.1	1.1	14.9	4061	3	46	2	15	3.2	29	460	88
7005	2013	7	123	1.3	1.1	11.6	3735	3.1	36	2	18	4	21	530	102
7006	2013	1.3	160	1.6	0.25	6.2	8568	5	91	0.5	8	2.6	10	1300	371
7007	2013	5.7	101	1.2	0.9	10.6	3054	2.3	41	2	13	2.9	31	390	70
7008	2013	5.2	116	1	0.8	8.7	3622	2.9	44	1	15	3.2	24	490	90
7009	2013	7	120	1	1.1	11.3	3616	3.3	46	1	18	3.5	35	570	82
7010	2013	5.8	117	1	1	11.2	3606	3	51	2	16	2.8	40	540	100
7011	2013	5.2	109	1.1	0.8	9	3409	2.7	43	1	15	2.7	25	320	86
7012	2013	4.2	104	1	0.6	7.8	3696	2.5	47	1	13	2.3	26	380	89
7013	2013	5.8	114	1	1	9.1	3399	3.2	47	1	16	3.2	33	390	90
7014	2013	6.5	235	1.1	1	10.6	3355	2.7	60	1	24	3.4	52	410	92
7015	2013	3.9	105	1	0.7	8.8	3599	2.3	51	2	11	2.7	30	470	58
7016	2013	4.2	119	0.9	0.7	8.6	4360	2.8	74	2	15	2.5	44	540	73
7017	2013	5.1	124	1.1	0.9	8.3	3242	2.7	35	2	14	3.3	23	450	64
7018	2013	5.4	113	1	0.9	8	3540	2.4	43	2	16	3.6	25	450	59
7020	2013	5.8	118	1	0.9	8.8	3436	2.9	47	2	17	2.6	27	430	59
7021	2013	10	109	1.4	1.1	14.4	6229	2.8	99	3	22	2.4	89	280	81
7022	2013	7.9	77	1.6	1.4	9.3	7284	4.9	116	3	35	3.2	64	50	86
7023	2013	5	87	1.2	0.8	8.9	5097	2.7	94	3	12	2.3	56	300	68
7024	2013	2.5	64	1.2	0.25	7.1	5290	2.5	147	4	9	2	37	50	79
7025	2013	5.4	77	1	0.7	13.4	4744	2.3	97	1	19	2	61	290	54
7026	2013	5.6	104	1.3	0.8	12.1	4872	2.7	80	4	11	2.2	63	300	66
7027	2013	4.8	125	0.9	0.8	8.8	4705	2.2	89	3	13	2.3	60	210	62
7028	2013	3.6	93	1	0.7	8.3	4501	2.6	64	1	10	2.5	39	400	66
7029	2013	8	120	1	1.2	11.3	4079	4.1	85	3	17	2.9	78	460	72
7030	2013	4.7	111	1	0.8	8.8	4538	2.9	74	2	12	2	59	330	66
7031	2013	6	92	0.9	0.9	12.7	3748	3.4	81	3	13	2.3	74	410	69
7032	2013	4.3	93	0.8	0.6	10.4	3473	2.5	66	2	11	2.2	76	200	58
7033	2013	5.9	105	1.1	0.9	10	3514	2.6	61	3	13	2.9	61	370	62
7034	2013	3.4	99	0.9	0.6	8.6	3925	2.5	70	2	9	1.9	46	300	65
7035	2013	9.4	102	1.1	1.2	13.2	2914	3.7	77	3	24	3.5	76	210	99
7036	2013	15.9	113	3.5	2.6	156	6320	12.3	70	3	54	4.4	73	1000	239
7037	2013	2.3	246	2.9	0.25	22.4	7567	6.3	155	0.5	12	1.5	29	600	174
7038	2013	6.4	301	1.4	0.9	13.4	4910	3.9	103	2	23	1.9	44	50	42
7039	2013	5.2	91	1.2	0.8	10.6	3434	4.1	92	2	10	2.7	73	360	70
7041	2013	6.4	76	1.9	1.1	10.7	7534	3.2	171	3	11	3	43	50	121
7042	2013	3.3	77	1.6	0.7	6.4	6511	2.4	88	2	8	2.8	23	390	82
7043	2013	6.3	99	1.2	1	11.5	4900	3.5	89	3	12	3.1	73	220	73
7044	2013	6.4	89	1.4	0.9	14.9	5148	3.6	87	2	12	2.8	105	430	75
7045	2013	2.3	68	1.4	0.6	7.5	2997	2.8	101	2	8	2.2	48	50	91
7046	2013	6	69	1.2	1	13.4	2246	3.3	84	2	10	3	83	330	80
7047	2013	2.9	66	1	0.6	10.6	2560	2.5	78	1	8	1.8	80	50	68
7048	2013	5.5	97	1.2	0.7	12.3	4552	3.2	90	3	11	2.2	67	50	68
7049	2013	2	63	1.3	0.8	8.5	6131	3.6	115	3	9	2.9	43	310	98
7050	2013	10	85	1.1	1.1	13.5	2948	4.3	114	2	14	2.1	99	50	71

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7051	2013	5.8	108	1.2	0.8	12.3	4652	3.6	83	3	15	2.7	71	240	79
7052	2013	2.4	61	1.1	0.7	10.9	2120	3.6	95	2	9	2.4	67	50	94
7053	2013	3.6	77	1.4	0.6	10.3	4677	2.4	115	2	8	2.2	76	50	77
7054	2013	1.7	64	1.1	0.6	7.9	3477	3.5	127	2	9	2.5	63	50	104
7055	2013	2.9	63	1.2	0.6	10.9	5719	2.8	117	3	8	2.5	51	50	85
7056	2013	1.9	53	0.8	0.25	10	1687	3.6	92	1	7	2	83	50	80
7057	2013	8	50	1	1	18.4	2472	4.1	123	0.5	15	1.8	68	50	94
7058	2013	2	48	1.1	0.6	8.1	3003	2.4	107	3	6	1.4	99	50	73
7059	2013	2.8	72	1	0.6	12.4	3468	2.5	80	2	9	1.6	87	390	102
7061	2013	2.2	55	1	0.6	11.5	2231	2.9	86	0.5	8	2.3	88	50	97
7062	2013	5.3	81	1.1	0.9	11.9	4181	3.2	67	3	13	2.9	70	470	95
7063	2013	3.9	76	1.1	0.7	9.5	3230	2.5	69	2	11	2.2	48	50	82
7064	2013	4.2	83	1	0.8	11.7	3481	2.9	75	2	11	2.2	66	330	90
7065	2013	4.2	53	1	0.25	16.7	3597	4.8	93	2	14	1.8	74	50	82
7066	2013	8.8	98	1.4	1.2	14.5	4689	3.5	72	3	18	2.9	63	50	83
7067	2013	7.8	22	1.2	1.1	13.2	1586	4.9	46	1	17	4	21	1800	201
7068	2013	7.3	84	1.3	1.1	16.5	4262	3	80	2	13	2.1	95	50	109
7069	2013	4.2	142	1.8	0.6	9	2102	4	23	1	12	1.9	32	270	57
7070	2013	7.8	174	1.9	0.9	12	3424	5.2	73	2	17	2.3	72	50	52
7071	2013	3.5	120	1.7	0.25	8.3	3409	2.4	30	0.5	7	1.6	11	260	80
7072	2013	4	162	2.1	0.25	11.9	3237	3.6	34	0.5	6	1.3	14	360	112
7073	2013	6	101	1.8	0.9	12.1	3847	4.5	38	2	16	2.5	25	480	85
7074	2013	6.5	118	2.3	1	12.5	3357	4.8	45	0.5	21	2.9	45	300	65
7075	2013	7.5	178	1.9	1.2	11.5	5320	2.7	70	2	27	4	62	610	85
7076	2013	3.6	189	3.3	0.6	10.9	7906	2.7	91	3	20	3	49	800	77
7077	2013	10.6	227	2.1	1.5	15.3	5730	3.5	76	2	42	4.6	68	50	81
7078	2013	9.1	247	3.1	1.5	12.8	9980	3.1	122	2	38	3.9	84	1100	54
7079	2013	6.4	240	0.9	0.8	7.8	5284	2.5	148	2	19	2.7	78	50	53
7081	2013	5.7	146	1.3	0.8	10	4062	2.6	80	2	15	2.8	52	280	73
7082	2013	7.9	73	4.6	1.3	56.3	2252	10.1	37	3	27	5.6	57	50	157
7083	2013	5.6	133	2.1	0.8	20.8	3115	6	50	2	17	2.8	37	50	97
7084	2013	3.9	147	0.9	0.6	10.6	3233	2.8	55	2	11	2.2	49	50	68
7085	2013	4.3	167	1.3	0.6	13	4553	3	69	2	14	2.5	30	50	77
7086	2013	2.8	99	1.3	0.25	6.8	5170	2.2	82	3	7	1.9	12	50	97
7087	2013	4.6	148	0.9	0.8	7.9	2966	2	43	1	14	2.1	23	50	53
7088	2013	3.5	116	1.3	0.6	8.7	4708	2.5	73	2	10	2.6	14	50	84
7089	2013	5.2	152	1.1	0.8	11.2	3905	2.7	69	1	14	2.4	47	350	66
7090	2013	4.4	45	1.1	0.9	14.2	1967	3	91	2	8	2.4	123	50	107
7091	2013	6.6	43	1.3	1	11.4	1817	3.3	104	1	7	2.2	37	50	115
7092	2013	4.6	64	1.1	0.9	9.4	2333	3.2	98	2	8	3	50	50	118
7093	2013	6.1	72	0.9	0.9	10.9	2437	3.5	65	1	15	2.9	68	380	101
7094	2013	6.9	58	0.7	1	10.1	1783	3.6	86	2	15	3.2	75	50	105
7095	2013	6.4	60	1.1	0.9	12.3	1923	4	96	1	10	3.1	113	410	107
7096	2013	6.4	47	0.9	1	11.5	1890	3.9	86	2	10	3.2	81	50	109
7097	2013	5.9	42	1	0.7	10.6	1844	3.5	68	1	8	3	72	50	101
7098	2013	3.7	76	1	0.6	7.4	2762	2.8	70	2	8	2.6	61	50	94
7099	2013	4	49	0.9	0.7	10	2032	3.1	66	1	8	2.2	68	50	91
7101	2013	4	242	1.1	0.7	5.9	10034	1.7	200	2	12	2.5	27	50	87

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7102	2013	2.9	139	1.2	0.5	6.5	6546	1.8	105	2	8	2	17	280	78
7103	2013	6.8	95	1.4	1.5	11.6	3980	5.8	125	4	21	6.2	77	50	47
7104	2013	5.7	93	1.5	0.9	10.7	4448	3	74	3	12	2.5	70	50	84
7105	2013	5.9	75	1.1	0.7	17.2	3413	5.1	99	3	11	2.8	113	50	98
7106	2013	6.1	92	1.2	1	10	4044	3.1	84	2	14	2.7	62	420	88
7107	2013	5.7	91	1.5	0.9	12.4	3926	3.2	85	4	14	2.9	62	260	88
7108	2013	6.8	97	1.6	0.9	10.1	5560	3.2	65	3	17	2.9	52	380	85
7109	2013	2.6	24	1.1	1.3	6.1	930	2	3	0.5	28	7.9	23	430	167
7110	2013	9.1	58	1.5	1.4	12.6	4021	5.7	318	4	11	4	106	50	161
7111	2013	10	104	1.5	1.2	14.9	4675	5.3	90	3	18	3.4	91	50	81
7112	2013	7.9	102	1.3	1.1	11.2	3976	3.7	64	3	17	3.6	57	50	84
7113	2013	2	115	0.9	0.25	5.9	4139	2.9	104	3	13	1.8	60	390	112
7114	2013	6.3	63	1	0.8	11	1193	3.6	71	2	8	2.9	59	50	128
7115	2013	3.8	83	1	0.7	14.9	1761	3.4	95	2	7	2.2	83	50	109
7116	2013	6.3	93	1.2	1	13	2157	4.1	93	2	12	2.8	76	310	118
7117	2013	8	86	1	1.3	12.9	1822	4.4	93	1	14	3.4	100	340	136
7118	2013	6	76	0.9	0.8	11	2268	3.6	78	2	10	2.9	79	50	106
7119	2013	4.3	103	0.9	0.9	8.7	3154	2.3	55	3	14	2.6	47	300	57
7121	2013	6.5	94	1	1	12	3517	3	56	2	15	2.6	47	50	88
7122	2013	6.3	109	1.1	1.1	9.1	3170	3.4	43	3	17	3.6	30	590	72
7123	2013	5.7	112	1.2	1	8.1	3011	2.6	36	2	16	3.2	22	430	70
7124	2013	4.4	104	0.7	0.7	7.6	3209	2.3	42	3	13	2.3	33	620	71
7125	2013	5.6	107	1	0.9	9	3168	2.8	45	3	17	2.5	32	380	73
7126	2013	6.1	104	1	0.9	7.7	3301	2.5	54	3	20	3.1	36	410	68
7127	2013	6.4	113	1	1.2	11	3535	3.3	52	5	18	3.7	39	480	68
7128	2013	4.5	105	1	0.8	7.4	2979	2.2	38	2	15	2.6	27	340	64
7129	2013	4.7	107	1	0.8	8.8	3185	2.5	37	2	12	2.9	26	580	77
7130	2013	6.7	110	1.3	1	8.8	3353	2.9	55	2	21	3.6	51	430	73
7131	2013	5.4	106	1.3	1	8.8	2917	2.8	44	2	16	3.3	34	460	82
7132	2013	5.6	102	1.2	0.9	8.8	3281	2.9	55	3	17	2.9	37	240	75
7133	2013	6.2	128	1.1	1	11.4	3496	3.3	59	3	18	2.3	51	450	69
7134	2013	4.8	113	1	0.8	8.5	3774	2.7	61	5	16	2.8	50	240	74
7135	2013	7.9	57	1.6	1.1	13.6	5425	3.3	64	4	6	3.1	10	490	131
7136	2013	5.9	84	1.3	0.7	11.1	4488	2.7	74	3	8	2.5	43	200	94
7137	2013	8.1	111	1.4	1	14.3	5448	3.7	122	3	14	1.8	115	50	89
7139	2013	10	139	1.3	1.1	11.2	4972	4.4	98	3	16	2.5	70	280	102
7140	2013	7	106	1.1	0.9	18.6	3332	7	116	7	13	2.4	89	250	105
7141	2013	2.9	202	1	0.6	10	3045	3.5	87	1	17	2	79	270	100
7142	2013	4.4	129	1.2	0.9	10.9	2578	3.8	92	1	12	2.7	75	50	114
7146	2013	6.4	55	1.1	1	11.4	1646	4	96	2	11	2.9	111	50	135
7147	2013	7	44	1.2	1	11	2126	4	104	2	9	3.4	22	250	128
7148	2013	6	48	1.3	1	10.5	1970	4.4	103	0.5	11	3.3	49	220	128
7149	2013	4.3	77	0.8	0.6	6.8	3066	2.5	66	3	10	2.7	32	360	82
7150	2013	7.2	35	1.3	1.1	11.5	1771	4	100	2	10	3.2	56	220	134
7151	2013	4.5	108	0.9	0.7	8.7	3776	2.1	70	4	14	2.8	46	290	74
7152	2013	4.4	122	0.9	0.7	8	3798	2	68	4	15	2.5	45	320	70
7154	2013	5.1	95	0.9	0.9	8.5	3525	2.6	65	4	16	2.5	60	370	72
7155	2013	5.2	121	1.2	0.9	8.3	3508	2.5	48	2	18	3.2	43	510	95

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SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7156	2013	6.7	114	1.1	1.1	9	3516	2.4	62	2	21	3.3	46	350	92
7157	2013	4.9	109	0.9	0.8	8.5	3544	2.4	55	4	16	2.9	40	320	70
7158	2013	4.4	61	1	0.7	8.5	3209	2.7	72	3	8	2.8	49	220	105
7159	2013	3.9	119	1	0.7	7.3	3697	1.9	55	4	14	2.7	39	310	61
7160	2013	7.5	47	1.1	1	10.8	2285	3.2	93	2	7	3.2	40	330	116
7161	2013	6.7	134	1.3	1.1	10.1	4586	2.9	63	5	19	3.9	54	430	80
7162	2013	8.7	60	1.6	1.1	15.1	2137	4.4	98	2	9	4	86	50	141
7164	2013	7.4	54	1.3	1.1	12.1	2094	4.7	128	2	10	3.4	45	310	147
7165	2013	13.6	140	0.9	1.5	11.5	3455	4.3	83	6	27	4.4	100	50	83
7166	2013	3.6	77	0.8	0.6	7.7	2677	2	60	2	8	2.1	38	300	69
7167	2013	4.9	117	1	0.7	9.3	3778	2.6	53	2	13	2.6	46	340	76
7168	2013	5.7	61	0.9	0.8	10.7	1985	3.4	79	2	9	2.7	88	290	113
7169	2013	6.3	95	1.1	0.9	12.2	2474	3.4	65	2	11	3.1	69	350	104
7170	2013	4.9	85	1.2	0.8	10	3700	4.6	85	2	10	3	80	320	98
7171	2013	3.7	101	1	0.6	7.1	3161	2.4	71	3	9	2.3	46	320	88
7172	2013	5.1	127	0.9	0.8	12.8	3151	2.7	85	2	12	1.9	76	280	83
7173	2013	4.7	141	1.4	0.7	10.2	6422	3	113	2	13	2.4	40	330	90
7174	2013	7.2	158	1.1	1.1	11	3701	2.3	58	4	21	3.1	42	210	76
7175	2013	8.8	109	1.3	1.5	15.6	3607	2.8	51	1	22	5	28	340	74
7176	2013	7.6	92	1.2	1.2	14.8	3227	3	38	2	16	4.6	35	590	80
7177	2013	6.2	80	1	1	11.2	3049	3.3	57	2	13	3.8	50	360	71
7178	2013	9	82	1.2	1.5	17.2	4318	3.4	71	2	21	4.1	89	540	62
7179	2013	6.4	119	0.9	1.2	10.3	3023	2.1	41	1	14	4.1	22	390	43
7182	2013	5.6	93	1	0.9	11.1	3858	2.3	54	2	10	3.1	21	490	56
7183	2013	6.6	107	1.1	1.2	12.3	3826	2.6	53	1	14	4.2	23	430	61
7184	2013	7.3	114	1.2	1.2	13.9	4151	2.7	57	2	13	4.9	26	550	67
7185	2013	5.3	145	1.3	0.7	10.9	5069	3.1	108	3	10	1.9	32	220	80
7186	2013	5.1	132	1	0.8	10.1	3188	2.5	55	8	14	2.6	42	430	51
7187	2013	7.5	176	1.1	1	10.5	4112	3.8	79	3	23	2.7	57	340	65
7188	2013	2.5	123	1	0.5	8	4441	3.2	111	3	13	2.6	64	200	90
7189	2013	5.6	111	0.7	0.8	13.8	3757	3.2	100	3	16	2.8	111	220	74
7190	2013	8.6	116	1	1.5	12.8	3266	2.9	54	1	21	4.7	26	540	53
7191	2013	9.1	127	1	1.6	13.6	3460	3	48	1	21	4.5	24	460	57
7192	2013	5.5	176	0.9	0.9	9	4412	3	104	16	20	3	65	380	89
7193	2013	5	112	1	0.8	9.4	4100	2.1	100	2	13	3.4	54	360	49
7194	2013	3.9	147	1.1	0.6	7.8	4827	2.8	123	1	12	3.2	61	340	98
7195	2013	6.2	112	0.8	1.1	11.9	3380	2.4	68	2	15	4	29	380	53
7196	2013	6.8	102	1	1.1	11.9	3483	2.7	62	2	16	4.4	25	380	70
7197	2013	7.4	108	1	1.2	11.4	3546	2.9	88	1	18	3.9	51	220	68
7198	2013	5.7	117	1	1	9.3	3237	2.5	66	1	15	3.8	29	370	63
7199	2013	5	149	0.9	0.9	9.3	3448	2.6	77	2	17	3.1	51	250	69
7201	2013	6.6	118	1	1.1	12.8	3571	3.3	80	3	14	3.2	53	230	56
7202	2013	5.6	85	0.9	1	9.1	3344	2.4	76	3	13	3.4	32	230	48
7203	2013	3.9	106	0.7	0.8	7.4	3326	2.3	79	2	13	2.8	37	210	67
7204	2013	7.8	114	0.9	1.4	13.5	3154	2.6	55	2	20	4.5	28	460	69
7205	2013	4.8	103	1.2	0.9	7.2	3969	2.7	56	2	13	3	31	400	84
7206	2013	6.2	112	1.1	1.1	8	3128	4.1	38	2	19	3.2	22	440	76
7207	2013	8.2	113	1	1.4	13.6	3313	2.7	62	5	19	4.5	34	440	59

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7208	2013	5	108	0.8	1	8.6	2982	2.5	57	2	13	2.7	25	510	63
7209	2013	6.2	121	0.9	1	11	3434	3.2	76	2	17	3.2	48	250	63
7210	2013	4.8	115	1.3	0.8	11.6	5374	2.3	103	3	11	2.1	24	430	65
7211	2013	5.7	201	1.6	0.8	18.4	5737	3.2	103	3	17	2.4	58	330	32
7212	2013	4.7	125	0.8	0.8	10.5	2954	2.7	53	1	14	2.7	24	290	47
7213	2013	5.2	180	1.2	0.9	15.2	4526	2.9	70	6	15	2.4	36	370	48
7214	2013	5.7	157	1	0.8	15.6	4559	2.8	70	68	15	2.6	41	400	56
7215	2013	6.4	172	0.9	0.9	11.8	4123	2.6	66	9	18	3.4	46	380	79
7216	2013	8.1	165	1.2	1.2	12.2	3926	2.4	64	4	23	3.2	44	460	78
7217	2013	7.8	128	1.1	1.3	16.1	4662	3.5	73	3	19	4.6	52	540	91
7218	2013	10.6	178	1	1.2	13.6	4225	2.6	76	2	25	3.1	63	320	86
7219	2013	6.4	129	1	1	12	3399	3.2	44	2	14	3	24	410	71
7220	2013	7.4	124	1.1	1.1	13.2	3291	3.3	42	1	14	2.9	24	310	87
7222	2013	7.5	140	1.2	1.1	14.5	3369	3.6	36	1	15	3.5	21	480	93
7223	2013	5.3	120	0.9	0.8	10	3416	2.6	40	1	11	2.8	19	490	65
7224	2013	5	132	1	0.7	11.9	2847	2.8	34	2	10	2.5	19	380	74
7225	2013	6.3	137	1	1	13.9	2942	3.2	33	0.5	16	3.2	22	510	87
7226	2013	10.1	270	1.1	1.6	14	4718	4.6	84	2	38	3.6	64	210	104
7227	2013	2.1	113	1.4	0.5	7.1	3179	3.5	115	2	11	2.1	55	50	137
7228	2013	3.7	102	1.1	0.8	9.5	2423	3.4	76	1	9	2.3	61	50	132
7229	2013	3	83	0.8	0.6	10.6	2116	3.5	83	1	7	3	94	220	94
7230	2013	4	99	0.8	0.7	6.6	2911	2	43	2	13	2.7	41	410	72
7231	2013	3.7	59	0.7	0.6	10.7	2620	2.9	56	0.5	9	2	63	50	76
7232	2013	3.3	70	1.2	0.6	8.5	2677	3.5	90	1	9	2.4	55	220	105
7001	2014	7	92	1.2	1	12.6	3625	2.9	52	1	16	2.9	43	390	72
7002	2014	7.9	120	1.1	1.1	11.9	4173	3.1	50	1	17	3.3	35	440	56
7003	2014	10.6	85	0.6	1.8	18.7	2194	3.1	47	0.5	19	6.3	25	310	54
7004	2014	3.8	46	0.8	0.7	7.5	5303	2.2	174	2	11	2.3	64	50	59
7005	2014	8.2	71	1	1.4	13.7	2245	2.6	44	1	16	5.5	32	380	60
7006	2014	5	83	0.8	0.9	8.5	2623	2.3	65	1	11	2.5	31	190	40
7007	2014	8.9	78	0.7	1.6	15.3	1963	2.9	36	0.5	18	5.3	27	340	56
7008	2014	9.4	64	0.5	1.8	16.7	1083	2.8	20	0.5	16	6	18	340	47
7009	2014	11.1	76	0.9	1.9	19	2521	4	62	2	15	5.1	37	440	54
7010	2014	20.3	105	1.6	3.4	36.4	4568	7.7	107	3	18	7.7	60	740	87
7011	2014	8.6	81	0.9	1.6	16.1	3398	3.1	79	2	19	5.1	57	360	64
7012	2014	8.3	73	0.7	1.5	14.1	1813	2.8	35	0.5	15	4.8	26	360	56
7013	2014	8.4	69	0.6	1.6	13.9	1633	2.9	32	0.5	13	4.2	29	310	55
7014	2014	7.3	68	0.7	1.4	12.7	1601	2.7	30	0.5	13	4.7	26	360	54
7015	2014	5.8	65	1.3	1	9	2670	2.8	35	2	16	3.5	41	380	87
7016	2014	6	70	1.4	0.9	8.8	3291	2.5	54	2	14	2.9	41	360	77
7017	2014	5.1	77	1.1	0.8	7.7	3169	2.2	44	1	14	2.4	34	410	68
7018	2014	5.4	71	1.3	0.9	10	3188	2.7	58	2	12	2.6	48	460	76
7019	2014	6.4	93	1.2	0.9	8.7	2912	2.8	46	1	15	2.4	34	460	74
7021	2014	6.5	97	1.1	1	10.9	3449	2.8	47	1	13	3.3	28	400	66
7022	2014	7	90	1.2	1.1	11.9	3748	3.2	40	1	16	3.3	34	450	79
7023	2014	7.2	90	1.2	1	12.9	3491	3.4	43	1	14	3.3	33	490	76
7024	2014	5.3	90	1.1	0.9	10.1	3828	2.8	51	1	14	2.5	37	310	64
7025	2014	8	93	1.3	1.2	12.9	4426	3.6	51	2	16	3.9	56	540	85

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7026	2014	8.2	105	1.4	1.1	14.5	4993	3.6	62	2	12	3	39	340	66
7027	2014	8.1	97	1.4	1.2	13	4557	3.5	52	2	18	3.8	39	600	74
7028	2014	10	83	2	1.3	13.9	5170	5	66	2	17	3.4	60	390	73
7029	2014	10.6	91	2.1	1.5	14.7	4357	4.6	50	3	17	4.9	43	560	81
7030	2014	5.7	68	1.4	0.9	9.3	4192	2.6	91	2	11	2.7	59	300	74
7031	2014	5.3	81	1.5	0.8	10	4692	2.5	71	1	12	2.5	51	260	75
7032	2014	6.3	82	1.4	0.9	10.1	4495	2.9	71	3	14	3.1	51	360	82
7033	2014	5.5	78	1.4	0.8	7.7	4001	2.7	74	2	13	3.3	35	310	78
7034	2014	5.7	88	1.3	0.9	11.2	4238	2.9	65	2	10	2.9	63	330	74
7035	2014	6.9	84	1.5	1	11.9	4384	3.1	62	2	14	3.5	45	330	88
7036	2014	5.8	75	1.5	0.9	11	3944	2.9	50	2	12	3.4	40	480	75
7037	2014	6.5	78	1.4	1	11.2	4189	2.8	80	2	13	3.4	78	300	79
7038	2014	7.1	84	1.4	1.2	12.6	4617	3	64	2	16	3.3	53	420	86
7039	2014	4.6	68	1.4	0.7	7.8	4299	2.7	111	2	12	2.3	33	290	82
7041	2014	4.3	68	1.3	0.7	8.1	2999	2.3	43	2	10	2.5	35	420	69
7042	2014	3.9	88	1	0.6	6.1	5241	2.2	91	2	11	2.2	56	250	57
7043	2014	10	117	1.1	1	10	6103	2.7	104	9	25	2.2	79	200	60
7044	2014	9.3	109	1.1	1.2	17.7	5549	3.8	115	5	27	2.6	115	260	71
7045	2014	4.9	100	1.1	0.8	7	4798	2.4	67	2	13	2.7	36	360	61
7046	2014	5.5	106	1	0.7	10.3	4954	2.5	79	2	15	2.4	46	410	56
7047	2014	5.6	116	0.9	0.8	8.7	4894	2.2	81	2	17	2.3	50	220	53
7048	2014	4.1	105	0.9	0.6	6.8	5300	1.9	78	1	11	1.8	35	320	54
7049	2014	4.7	100	1.2	0.7	8.7	6730	2.9	148	3	21	1.7	77	250	82
7050	2014	3.7	109	1.1	0.5	7.5	5152	2.1	86	2	9	2.2	44	300	57
7051	2014	5	124	1.1	0.7	9.2	5660	2.3	100	2	14	2.3	74	270	62
7052	2014	5.5	109	1.2	0.8	7.7	5098	2.7	73	2	13	2.7	38	450	63
7053	2014	4.2	92	0.9	0.7	7.5	3514	1.9	75	2	9	2.1	43	310	42
7054	2014	5	96	1.2	0.8	8.5	5202	2.5	71	1	11	2.8	40	480	66
7055	2014	4.6	89	1.1	0.7	7.4	4532	2.3	58	2	11	2.3	34	360	61
7056	2014	5.6	102	1.2	0.8	8.6	5266	2.5	93	2	14	2.3	54	430	61
7057	2014	4.3	102	1.1	0.6	7	5118	2.1	73	2	12	1.9	42	430	55
7058	2014	5.4	102	1.1	0.9	10	5745	2.7	117	3	14	2.1	77	280	73
7059	2014	4.3	77	0.9	0.7	7.2	4242	2.2	87	1	11	1.9	43	330	53
7061	2014	11.2	111	1.2	1.7	10	7183	5.8	104	3	40	4.6	77	330	75
7062	2014	4.9	136	1	0.9	7.6	6423	2.4	91	1	20	2.8	43	360	66
7063	2014	5.1	101	1	0.8	8.9	6169	2.8	104	2	18	2.4	59	350	72
7064	2014	5.5	157	1	1	9.2	5836	3.2	81	2	23	3.1	38	370	94
7065	2014	4	105	1	0.6	8.2	5709	2.6	99	1	16	2.6	61	320	81
7066	2014	5	113	1.1	0.8	10	6048	2.9	116	2	18	2.8	66	280	76
7067	2014	4.4	98	1	0.7	7.4	6302	2.6	105	2	16	2.1	66	370	75
7068	2014	5.1	101	1.3	0.8	10.2	5547	3	97	2	16	2.9	71	400	80
7069	2014	7	78	1.2	1.1	10	5994	3.3	127	1	15	3.2	130	300	92
7070	2014	4.8	99	0.9	0.8	7.9	5418	2.7	92	1	13	2.5	56	300	67
7071	2014	4	113	0.9	0.6	5.8	6517	2.1	116	1	13	2.5	62	250	61
7072	2014	6.1	104	1.1	1	8.2	4857	2.4	94	2	17	2.5	55	300	61
7073	2014	4	82	0.9	0.6	6.9	5474	2.3	97	1	13	2.2	51	260	67
7074	2014	6.6	91	1.4	0.9	11.1	5426	3.3	102	2	14	3.3	107	510	85
7075	2014	5.1	114	0.9	0.7	8.1	5064	2.6	104	1	17	2.5	64	290	68

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7076	2014	4.4	97	0.8	0.6	7.5	5817	2	108	0.5	16	2.4	76	190	56
7077	2014	4.6	86	1	0.7	7.7	5367	2.5	110	1	12	2.1	85	210	67
7079	2014	7.3	115	1	1.1	10.7	4510	3.6	120	2	21	2.9	84	380	67
7081	2014	6.6	86	1	0.9	10.9	4732	2.9	97	2	15	3.1	69	300	60
7082	2014	4.9	102	0.9	0.7	6.7	5385	2.2	92	2	14	2.2	43	300	65
7083	2014	4.3	95	1	0.6	7.5	4173	2.1	71	1	10	2.3	40	320	52
7084	2014	6.5	98	1.2	0.9	8.5	5007	3	70	2	15	3.1	39	560	72
7085	2014	5	86	1.1	0.7	8.1	3951	2.7	57	1	11	2.7	35	410	64
7086	2014	4.1	96	1	0.6	5.6	4931	1.9	77	1	11	1.9	33	390	57
7087	2014	6.2	128	1.2	0.9	8.8	6243	2.8	97	2	18	2.3	58	310	63
7088	2014	3.9	100	1.2	0.6	5.4	6657	2	108	1	12	2.4	41	310	62
7089	2014	4.1	102	0.9	0.7	6.5	4345	2.1	74	1	11	2	35	360	48
7090	2014	4.7	89	1	0.7	7.4	3485	2.2	71	2	11	2.2	48	370	52
7091	2014	4.1	105	1.4	0.7	7.7	5185	2.4	58	2	10	2.5	43	360	47
7092	2014	3.5	157	1.2	0.6	10.5	4293	2.5	60	2	11	1.8	29	200	59
7093	2014	5.8	110	1.9	0.7	11.7	4718	2.8	59	2	9	2.1	42	240	45
7094	2014	7	108	2.5	0.9	14.1	6645	3.1	41	2	9	2.2	29	300	41
7095	2014	4.8	109	1.2	0.7	8	3904	2.6	61	1	11	2	35	280	50
7096	2014	8.1	106	1.7	1	15.2	5626	3.7	97	2	5	2	33	290	63
7097	2014	5.1	99	1.6	0.7	10	5667	2.4	48	1	9	2.2	32	260	45
7098	2014	4.7	97	1.2	0.7	9.3	3872	2.3	68	2	8	2.1	42	260	46
7099	2014	6.2	91	1.8	0.9	11.2	5902	2.7	82	3	9	2.3	63	240	56
7101	2014	4.4	100	1.1	0.7	6.8	3765	2.1	71	1	11	2.3	39	300	43
7102	2014	5.7	104	1.1	0.8	8.1	4383	2.4	91	1	14	2.7	47	340	54
7103	2014	5	96	1.2	0.7	6.6	4747	2.2	83	1	11	2.5	36	360	55
7104	2014	6.1	122	1.2	0.9	7.9	4278	2.5	80	1	14	2.6	47	320	54
7105	2014	4.6	94	0.9	0.8	6.7	4381	2	71	1	12	2	35	330	45
7106	2014	5.8	116	1	0.9	7.6	4474	2.3	79	1	14	2.4	42	320	49
7107	2014	4.2	99	0.9	0.7	7	3750	2	67	1	10	2.2	37	370	49
7108	2014	5.1	98	0.9	0.8	6.3	4468	2	87	1	11	2.8	38	250	41
7109	2014	3.7	110	0.8	0.6	6.8	6086	1.7	101	1	14	2	41	240	50
7110	2014	4.2	116	0.7	0.7	5.6	4981	1.5	80	1	12	2.2	34	250	35
7111	2014	3.6	79	0.9	0.5	6	4058	1.8	82	0.5	9	2.2	33	200	47
7112	2014	4	120	0.8	0.6	5.9	4280	1.9	75	1	11	2.2	35	240	44
7113	2014	5	163	1	0.8	6.6	4846	3.2	85	0.5	15	2.5	41	180	52
7114	2014	5	132	1	0.7	6.4	5313	2.5	94	1	15	2.4	53	350	46
7115	2014	3.6	89	1.4	0.6	6.2	4666	2.2	68	2	6	1.9	31	330	53
7116	2014	4.4	94	1.2	0.7	8.1	3771	2.1	70	2	9	2.2	43	370	51
7117	2014	4.6	105	1	0.7	7.5	3841	2.2	71	1	10	2.4	43	290	52
7118	2014	4.5	96	1	0.7	8.2	3696	2.1	87	1	10	2.1	52	250	55
7119	2014	5.1	95	1.3	0.9	9.5	3939	2.6	65	1	11	2.7	50	340	62
7121	2014	5	95	1.1	0.8	8.8	3740	2.6	69	1	10	2.6	52	310	58
7122	2014	4.1	102	1.3	0.8	6.2	4098	2.2	76	1	9	2.7	41	310	60
7123	2014	3.3	83	1.1	0.6	5.1	3439	2	72	2	7	2.2	38	180	48
7124	2014	4	89	1.2	0.7	9.4	3785	2.3	79	2	8	1.9	66	280	56
7125	2014	4.2	97	1.6	0.7	8.5	4334	2.3	75	2	9	2.6	62	200	56
7126	2014	3.3	84	1.7	0.25	5.6	5274	2.5	97	0.5	8	3	38	250	59
7127	2014	4.8	101	1.5	0.7	7.9	5346	2.4	70	0.5	11	3.1	44	420	58

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7128	2014	3.4	92	1.3	0.6	5.9	4740	2	83	2	10	2.1	49	190	50
7129	2014	4.1	112	1.4	0.6	9.2	5308	2.5	121	8	10	2.5	56	50	66
7130	2014	4.8	122	1.1	0.8	7.7	5034	3.1	101	2	12	2.7	52	50	59
7131	2014	4.1	111	1.4	0.5	7.5	5064	2.3	85	2	11	2.5	50	50	56
7132	2014	4.2	147	1.3	0.8	5.4	6110	2.6	100	2	13	2.5	64	50	57
7133	2014	5.1	110	1.3	0.6	8.9	6122	2.9	86	1	13	2.9	56	50	56
7134	2014	4.8	124	1.1	0.7	8.5	5582	2.3	93	2	13	2	68	260	56
7135	2014	6.2	126	1	0.8	9.3	5648	2.5	100	1	15	2.5	65	220	60
7136	2014	4.7	121	1	0.7	6.7	5361	2.2	69	1	13	2.4	44	280	49
7137	2014	5.3	111	0.9	0.7	8.7	4952	2.3	79	1	16	2.2	47	180	51
7138	2014	5.4	98	0.9	0.8	7.5	5309	2.2	73	2	11	2.4	32	360	57
7139	2014	6.4	96	1	0.8	11.8	6535	2.4	138	1	19	2.1	71	240	78
7141	2014	4.3	121	0.9	0.7	7.7	5988	2.2	98	2	13	2.4	69	350	63
7142	2014	5.3	108	1	0.7	7	5607	2	71	2	13	2.1	37	390	71
7143	2014	4.5	90	1	0.7	6.4	4453	2	75	1	10	1.9	42	320	51
7144	2014	5.2	93	1	0.8	7.8	4947	2.8	67	2	10	2.1	37	250	60
7145	2014	1.3	88	0.9	0.25	5.1	4575	2.4	57	1	11	2.5	33	250	59
7146	2014	3.6	101	0.9	0.5	8.4	5553	2.5	91	2	14	2	52	160	65
7147	2014	4.8	99	1	0.7	7.5	5320	2.7	71	2	12	2.4	40	270	58
7148	2014	4.5	100	1.3	0.6	8.3	5686	2.4	114	2	13	2.6	74	520	69
7149	2014	5	76	1.2	0.8	8.5	4910	2.2	85	1	11	2.5	41	370	54
7150	2014	5.4	87	0.9	0.8	7.1	4741	2	81	1	10	2.5	42	220	54
7151	2014	4.3	103	1	0.7	5.7	7036	2	100	1	38	2.1	80	300	73
7152	2014	3.5	95	0.8	0.25	4.7	5772	1.7	78	0.5	11	1.5	32	330	48
7153	2014	4.4	100	0.9	0.7	6.2	4861	1.8	76	0.5	13	2.1	37	180	46
7154	2014	4.5	106	0.9	0.6	6.7	6236	2	93	1	13	2.3	51	320	59
7155	2014	4.5	85	1.1	0.6	8	5551	2.6	142	1	13	1.9	117	260	69
7156	2014	4.6	109	0.9	0.7	6.6	5816	2.1	96	0.5	16	2.6	47	320	57
7157	2014	5.7	137	0.8	0.8	6.7	6404	2.3	130	1	21	2.6	68	310	56
7158	2014	4.4	120	0.8	0.7	6.4	5512	1.9	87	1	14	2.5	37	290	52
7159	2014	4.5	124	0.9	0.7	5.6	4715	2	76	1	14	2.1	37	260	51
7161	2014	4.2	142	0.9	0.6	4.8	6681	1.9	104	0.5	16	1.9	50	250	49
7162	2014	5.8	159	0.9	0.9	6.1	6967	2.3	115	1	20	2.2	52	310	54
7163	2014	4.7	122	1.1	0.7	8.7	5516	2.9	140	2	13	2.2	80	230	72
7164	2014	6.2	130	1	0.9	7.3	5846	2.4	110	1	21	2.5	60	290	61
7165	2014	5.3	95	0.9	0.8	7.1	5448	2.6	100	1	15	2.3	49	270	61
7166	2014	4.7	108	0.9	0.7	7.6	5564	2.2	97	1	13	2.3	53	220	62
7167	2014	6.5	66	1.1	0.9	11	5166	3.1	111	1	18	2.8	79	240	95
7168	2014	5.2	97	1	0.8	7	5351	2.5	88	1	14	2.1	52	300	65
7169	2014	7.3	71	1.2	1.1	9.3	4521	3	89	3	15	3.2	47	400	79
7170	2014	4.8	98	1	0.7	7.7	4985	2.1	75	0.5	11	2.1	42	340	59
7171	2014	6.2	95	1	0.9	8.2	6151	2.5	97	2	18	2.4	54	290	67
7172	2014	4.6	95	1.2	0.7	6.4	5875	2.4	81	2	11	2.4	39	320	68
7173	2014	5.2	95	1.1	0.8	8.9	5651	2.6	80	1	13	2.6	46	290	63
7174	2014	6.1	65	1.2	0.9	10.1	3296	2.9	49	1	17	3.4	45	460	83
7175	2014	4.7	60	1.3	0.8	6.7	3751	2.5	45	1	10	3.1	21	500	82
7176	2014	6.6	84	1	0.9	8.1	4111	2.5	66	2	16	2.7	40	320	56
7177	2014	5.7	90	1.2	0.8	8.5	3991	2.5	62	2	10	2.5	39	340	62

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7178	2014	5.7	79	1.1	0.8	8.5	3798	2.9	50	2	11	2.5	34	340	57
7179	2014	6.5	83	1	0.9	8.4	3560	2.8	78	2	12	2.8	69	290	60
7181	2014	6.9	97	1.2	1.1	11.9	2546	4.2	111	2	10	2	116	280	93
7182	2014	6.2	94	1.2	0.9	8.8	3962	2.5	63	2	12	2.7	44	380	63
7183	2014	6	80	1.2	0.8	8.3	4216	2.3	68	1	12	2.4	42	300	62
7184	2014	5.8	94	1.2	0.8	9.2	4661	2.6	77	1	12	2.5	40	350	66
7185	2014	4.6	120	1.3	0.7	7.8	4783	2.3	54	2	11	2.5	34	360	52
7186	2014	4.1	111	1.2	0.6	6.2	4558	2.1	84	2	10	2.4	42	280	58
7187	2014	5.1	102	1.1	0.8	8.2	4511	2.3	73	1	11	2.7	42	330	58
7188	2014	6.4	114	1.4	1	10.1	6149	2.9	65	2	16	3.3	37	320	56
7189	2014	4.1	100	1	0.6	5.9	4372	2.4	86	1	9	2.1	58	380	56
7190	2014	5.3	107	1.2	0.7	7.5	4786	2.6	78	1	12	2.1	48	290	57
7191	2014	4.8	104	1	0.6	8.3	4141	2.1	70	2	11	2	63	260	45
7192	2014	8.3	107	0.9	1.1	17.6	3713	3.6	117	1	14	1.2	61	190	63
7193	2014	5.8	96	1.2	0.7	8.7	4086	2.4	74	2	11	2.6	55	250	63
7194	2014	4.5	82	1.1	0.6	8	3860	2.1	49	1	9	2.1	39	290	47
7195	2014	5.3	102	1.2	0.7	8.6	5630	2.9	89	2	11	2.5	64	320	65
7196	2014	4.5	70	1	0.6	8	3607	2.2	54	1	10	2.2	35	290	54
7197	2014	6	84	1	0.9	11	4664	2.5	70	1	17	2.7	47	360	51
7198	2014	6	103	1.2	0.8	9.1	5176	2.1	144	2	16	2.3	97	240	49
7199	2014	4.7	109	1.1	0.7	8.6	4391	2.3	64	2	12	1.9	38	240	55
7201	2014	4.6	94	1.1	0.7	8.6	4145	2.3	72	2	10	2.3	38	300	58
7202	2014	4.9	111	1	0.7	7	5201	2.3	81	1	13	2.4	37	320	58
7203	2014	6.5	90	1.2	0.9	10	5276	3.1	91	2	13	2.7	57	400	62
7204	2014	5.9	89	1.2	0.8	10	5116	2.5	76	2	13	2.6	53	340	66
7205	2014	4.5	81	0.8	0.7	6.1	2184	1.9	80	3	13	2.3	65	250	52
7206	2014	5.7	82	1.2	0.8	8.1	3397	2.6	47	1	13	2.8	36	420	73
7207	2014	5	73	1.2	0.8	7.8	3708	2.6	39	1	11	2.6	30	450	76
7208	2014	5.8	75	1.2	0.9	8.5	3075	2.6	44	2	13	2.7	36	380	78
7209	2014	4.4	101	1	0.7	7.3	5395	2.3	81	2	13	1.8	51	330	66
7210	2014	4.6	95	0.9	0.7	9	5643	2.3	106	2	12	1.8	53	300	61
7211	2014	2.4	111	1.1	0.25	4	7157	1.7	78	2	8	2	29	210	59
7212	2014	5.4	110	0.8	0.8	8.1	4931	2.2	91	2	16	2.2	54	210	52
7213	2014	4.4	106	0.9	0.6	8.6	5016	2.3	99	2	10	1.9	71	310	64
7214	2014	3.4	78	1.2	0.5	7.9	6217	2.1	92	2	8	1.8	36	260	63
7215	2014	1.9	78	1.3	0.25	4.6	7164	2.3	179	2	7	2.2	37	170	83
7216	2014	4.3	97	1.1	0.7	6.9	7652	2.7	117	2	9	2.6	28	260	85
7217	2014	3.7	93	1	0.5	7.4	4708	2	81	1	9	1.5	63	280	56
7218	2014	5.2	88	1	0.7	9.4	4719	2.8	92	1	12	1.7	76	170	62
7219	2014	6.9	79	1.5	0.9	11.7	6072	2.9	110	2	9	1.9	56	270	71
7220	2014	3.8	101	1.5	0.6	8.4	7464	2.9	85	3	7	2.8	13	380	106
7221	2014	5.2	114	1.3	0.8	7.8	5739	2.7	90	2	10	2.6	51	310	72
7222	2014	6.5	130	1.3	0.9	13.2	6018	2.3	87	2	10	2.1	45	240	62
7224	2014	6	100	1.9	0.8	12.6	7088	2.5	60	2	11	2.3	35	320	57
7225	2014	4.8	123	2.5	0.8	7.3	6519	2.8	71	2	16	2.3	33	230	45
7226	2014	5.2	111	1.4	0.8	8.2	5218	2.6	77	2	11	2.5	44	270	63
7227	2014	5.7	122	2.5	0.9	10	6558	7.5	64	2	15	2.6	41	300	56
7228	2014	5.4	94	1.6	0.8	8.7	4953	2.4	65	1	12	2	42	300	51

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7229	2014	5.7	120	1	0.8	8.1	4095	2.1	94	1	12	2.2	57	230	59
7230	2014	4.5	83	1.1	0.7	6.6	4186	2.1	91	1	11	2.3	55	270	49
7231	2014	3.6	123	1.2	0.5	5.1	5641	2	82	1	9	2.4	41	330	52
7232	2014	5.2	98	1.1	0.7	8.8	4198	2.1	57	2	11	2.3	30	320	42
7233	2014	4	96	1.1	0.7	7	4543	1.9	75	1	9	2.1	44	270	50
7234	2014	3.2	81	1.3	0.7	8.4	3117	2.7	98	2	6	2.6	55	250	76
7235	2014	4.2	94	1	0.7	8.9	4593	2.4	83	0.5	9	2.3	63	320	54
7236	2014	4	71	0.9	0.6	7.2	4302	2	90	0.5	10	1.7	42	320	51
7238	2014	3.9	63	1.3	0.6	7	4452	2.4	116	2	8	1.7	37	230	59
7239	2014	5	103	1.2	0.7	7.7	4350	2.4	68	1	12	2.3	35	510	56
7240	2014	5.2	87	1.4	0.8	13	3939	3	81	2	8	2.3	63	240	56
7241	2014	4.3	85	1	0.6	8.3	3086	2.3	86	2	8	2	77	220	52
7242	2014	4.7	92	1.2	0.7	6.6	4550	2.3	87	2	9	2.5	24	290	58
7243	2014	4.5	55	1.1	0.7	7.6	3929	2.3	77	1	7	2.2	28	280	47
7244	2014	4.9	73	1.4	0.7	6.8	4679	2.3	71	2	9	2.6	29	270	67
7245	2014	4.8	79	1.1	0.7	8.1	3464	2.2	62	1	9	2.1	41	300	47
7246	2014	5.4	125	0.9	0.8	7.3	3750	2.3	100	2	14	2	66	190	51
7247	2014	4.8	89	1	0.6	7.1	2800	2.3	99	2	9	1.9	40	180	59
7248	2014	4.4	60	0.9	0.5	6.9	3498	1.8	62	0.5	9	2	32	330	38
7249	2014	4.7	95	1.1	0.7	7.8	5025	2.2	85	1	11	2.5	41	390	56
7250	2014	4.4	129	1	0.7	5.7	6878	2.1	94	0.5	14	2.5	45	390	62
7251	2014	4.4	121	1	0.6	7	5821	2.2	84	1	14	2.6	40	360	61
7252	2014	4.5	97	1.2	0.7	6.7	6530	2.5	109	1	13	2.5	49	370	69
7253	2014	4.5	130	0.9	0.8	6.6	8287	2.1	118	0.5	20	2.9	46	420	63
7254	2014	4.2	147	1.4	0.7	5.8	12633	2.6	127	2	19	3.2	54	660	96
7255	2014	4.6	57	1.1	0.7	6.5	3257	2.6	52	2	12	2.7	59	380	69
7256	2014	4.4	60	1.2	0.8	6.7	3400	2.4	66	1	11	2.6	28	410	76
7257	2014	5.5	58	1.1	0.8	10	2219	2.6	38	1	14	3.3	49	410	73
7258	2014	5.2	81	1.2	0.8	6.8	5060	2.3	64	2	15	3.3	33	450	66
7259	2014	6.2	145	0.9	1	6.4	6535	4.7	101	0.5	23	3.8	57	580	55
7261	2014	4.1	104	0.8	0.7	5	6472	1.6	102	0.5	17	2.5	52	230	55
7262	2014	4.2	95	0.8	0.6	5.3	5688	1.7	93	1	14	2.6	40	290	46
7263	2014	4.4	106	0.8	0.7	5.9	5237	1.8	76	0.5	14	2.5	36	320	43
7264	2014	4.6	92	1.1	0.7	5.6	7079	1.9	80	1	13	2.8	28	390	56
7265	2014	3.9	91	0.7	0.6	5.8	4827	1.7	79	1	10	2.3	31	270	47
7266	2014	5.1	91	0.9	0.8	6.3	5132	1.9	96	1	16	1.7	48	420	53
7267	2014	4.3	141	0.8	0.7	4.9	6837	2.2	115	0.5	15	2.2	56	280	46
7268	2014	3.8	131	0.9	0.6	3.8	8407	1.7	122	0.5	15	2.4	40	220	43
7269	2014	6.5	71	1.1	0.9	9.4	3953	2.2	67	1	10	2.4	45	280	55
7270	2014	5.9	58	1.2	0.9	8.8	3610	2.5	64	2	10	2.9	33	320	71
7271	2014	7.3	60	1.5	1	12.1	3466	3.3	92	2	10	3	69	310	83
7272	2014	4.6	57	1	0.5	6.8	2830	2.1	38	1	8	2.6	57	250	48
7273	2014	4.4	44	1.4	0.8	6.4	6585	2.4	158	0.5	10	3	54	310	78
7274	2014	2.6	60	0.8	0.6	6.7	5691	2.2	179	0.5	13	2.3	100	50	73
7275	2014	4.9	54	1	0.8	7.4	3608	2.3	65	2	9	1.9	25	300	56
7276	2014	4.3	45	1	0.7	10.4	3320	2	49	1	9	1.8	39	300	58
7277	2014	4.7	58	1.2	0.7	11.2	3885	2.4	78	2	8	2.1	39	50	72
7278	2014	5.6	64	1.7	0.9	9	5521	2.7	67	2	8	3.2	15	240	85

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SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm
7279	2014	3.9	48	0.8	0.6	10.2	2894	1.7	36	1	8	1.9	24	50
7280	2014	3.8	112	1.3	0.7	7.8	5087	2.1	80	2	6	2.8	24	260
7281	2014	7.3	76	1.5	1.1	12.6	4867	3.3	59	2	6	3.6	16	420
7282	2014	6	74	0.9	0.9	12.5	3817	2.6	50	0.5	10	3.1	21	260
7284	2014	8.5	105	1	1.2	16.4	3946	3.7	48	2	9	2.7	30	400
7285	2014	10.4	122	1.4	1.5	16.7	4385	4.4	51	2	14	4.4	30	310
7286	2014	13	134	2.1	1.8	21.8	8681	5.4	61	2	12	4.8	9	400
7287	2014	3.7	31	0.7	0.6	10	2338	2	47	0.5	6	1.9	18	210
7288	2014	10.2	81	1.5	1.4	19.1	4255	5.8	84	2	9	4.9	44	330
7289	2014	8.4	60	1.3	1.3	13.6	4996	3.6	40	2	7	4.8	10	550
7290	2014	5.8	73	0.9	0.9	10	5339	2.4	97	2	11	3.2	20	290
7291	2014	7	79	1.1	1	14.1	5024	3.1	98	1	7	3.1	29	330
7292	2014	9	130	1.4	1.3	15.3	5377	3.4	68	2	10	4.5	29	420
7293	2014	5.9	55	1.2	1	8.9	3645	2.8	61	2	13	4	25	340
7294	2014	4.7	42	1.2	0.7	10	3046	2.5	67	0.5	12	2.8	38	260
7295	2014	5	59	1.2	0.9	7.5	3164	2.6	62	2	12	2.6	22	370
7296	2014	7.5	95	1.1	1.2	12.6	3405	3.2	36	1	13	3.5	33	440
7298	2014	4.5	54	1.1	0.9	7.7	4740	2.3	55	1	14	2.8	36	50
7299	2014	4.5	86	1.4	0.7	7.6	5527	2.3	54	2	9	2.7	19	440
7300	2014	4.2	82	1.3	0.7	10	4574	2.3	51	2	8	2.3	37	300
7301	2014	5.5	31	1.5	0.9	8.9	5689	2.7	30	1	7	3.1	7	480
7302	2014	5.4	65	1	0.9	10.9	2829	2.5	40	2	14	2.4	32	330
7303	2014	5.9	69	1	1	10.2	3067	2.7	46	2	11	2.2	27	240
7304	2014	6	80	1.2	1	10	3537	2.7	61	1	13	2.3	62	180
7305	2014	5.6	63	0.7	1.1	10.1	3087	2.3	58	1	11	2.7	27	330
7306	2014	6.7	87	1.1	1.1	11.3	3285	2.9	46	2	13	3.3	40	320
7307	2014	6.1	54	1.2	1.1	10	2824	3.2	37	1	19	3.7	37	360
7308	2014	8.2	88	1.4	1.3	13.4	4961	3.4	45	2	11	4	12	440
7309	2014	6	48	1.1	1.2	11.7	2831	3	48	2	19	4.4	33	370
7310	2014	7.1	56	1.2	1.2	16	2649	3.4	42	1	19	4.6	42	390
7311	2014	6.9	55	1.4	1.2	19.3	2111	3.7	21	2	17	4.4	36	460
7312	2014	7.4	56	1.3	1.5	13.9	2355	3.6	31	2	23	5.2	42	520
7313	2014	9.1	52	1.3	1.7	12.1	2969	2.6	24	2	13	4.7	23	480
7314	2014	7.2	48	1	1.2	12.4	2064	3	28	2	14	3.3	33	420
7315	2014	8.4	52	0.7	1.6	14.3	2204	2.4	35	0.5	12	4.7	19	290
7316	2014	11.6	64	0.6	2.2	22.6	2198	3.4	47	1	14	6	23	420
7317	2014	11.1	71	0.6	2.2	19.7	1961	2.7	37	0.5	21	7.6	26	330
7318	2014	21.9	63	1	3.6	41.2	2460	6.6	29	0.5	21	11	16	620
7319	2014	9.2	60	0.9	1.6	16.1	4890	2.8	84	1	14	5.3	36	380
7320	2014	7.2	82	1.1	1.1	13.1	4743	2.5	72	1	11	3.8	34	240
7322	2014	10	140	1.8	1.5	17.8	5882	4	90	1	10	3.8	61	350
7323	2014	17	251	2.5	2.3	25.2	10478	7.4	152	2	19	6.6	71	360
7324	2014	8.1	93	1.6	1.2	13.7	5652	3.5	99	1	8	3.5	19	380
7325	2014	6.6	90	1.4	0.9	11.4	4687	3	89	2	9	3.2	38	290
7326	2014	6.2	80	1	1	12.3	3304	2.9	59	2	9	3.6	25	310
7327	2014	7.2	84	0.8	1.1	13.9	3098	3.1	50	2	11	3.1	25	260
7328	2014	13.7	58	2.3	1.9	24	4237	5.5	53	2	9	5.3	11	840
7329	2014	8.4	79	1.3	1.3	13.1	7660	2.9	204	2	21	4.5	46	540

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7330	2014	10.6	98	1.3	1.5	19.7	4530	4.8	73	2	10	3.8	51	390	47
7331	2014	10	99	1.2	1.3	17.2	4842	3.8	59	1	7	2.8	32	420	38
7332	2014	8.9	74	1.7	1.1	13.1	5085	3.5	69	3	8	2.8	20	390	65
7333	2014	4.5	95	1.4	0.6	9.1	3849	2	42	0.5	8	1.1	30	300	44
7334	2014	3.9	121	1.2	0.6	7.3	5203	2.2	76	2	5	2.2	19	300	60
7335	2014	4.6	111	1.2	0.8	7.1	5019	2.4	59	2	11	2.4	23	270	64
7336	2014	8.4	89	1.2	1.1	14.8	4653	3.2	44	2	10	2.7	21	400	61
7337	2014	8.4	120	1.2	1.2	15	4275	3.3	57	2	11	2.7	36	340	52
7338	2014	8.2	108	1	1.2	15.4	3916	3.6	70	2	9	2.9	46	330	45
7339	2014	9.1	111	1	1.2	17.4	4069	4.3	65	1	10	3	37	360	46
7341	2014	11.3	98	1.4	1.6	21	5892	5.4	92	1	8	3.1	48	400	44
7342	2014	8.3	116	0.8	1.4	15.4	3350	3.7	47	0.5	11	2.6	26	470	42
7343	2014	5.4	63	1.1	0.9	10	7081	2.6	188	1	13	3	32	240	40
7344	2014	8.1	98	0.9	1.4	13.8	4473	3.4	70	1	20	4.8	31	380	43
7345	2014	10	115	0.9	1.5	16.9	4114	4.4	58	1	19	5	27	470	48
7346	2014	11.2	116	1	1.7	19.5	4081	5.2	55	1	18	5.2	29	530	47
7347	2014	6.7	97	1	1	13.6	4390	2.9	74	0.5	9	3.1	36	260	36
7348	2014	5.7	72	1.2	1	10.1	5401	2.1	98	0.5	8	3.3	24	340	36
7349	2014	8.7	91	1.2	1.2	16.4	5660	5.8	110	1	11	3	42	440	46
7350	2014	10.1	73	1.4	1.7	12.9	2050	3.4	26	2	21	5.3	39	470	88
7351	2014	8.5	65	1.5	1.5	10.9	2512	3.5	27	2	22	4.7	37	500	102
7352	2014	8.1	47	1.3	1.5	12.5	754	3.3	18	2	14	4.9	34	380	49
7353	2014	8.5	115	1.1	1.2	15.3	3464	3.4	39	2	8	3.2	26	400	49
7354	2014	12.9	107	1.6	1.7	22	4630	4.3	45	3	10	4.3	34	370	65
7355	2014	8.3	102	1.3	1.2	15.3	4029	3.1	53	2	9	3	35	330	52
7356	2014	8.3	99	1.3	1.2	15.7	4014	3.2	59	2	8	3.2	41	410	57
7357	2014	7.4	96	1.2	1.1	14.2	4017	3.1	44	2	10	3.2	35	440	55
7358	2014	6.3	89	1.5	0.9	12.5	4370	2.8	34	2	9	3.2	22	350	49
7359	2014	8.4	85	2	1.1	15.1	5030	3.4	41	3	12	3.7	35	520	57
7361	2014	8.3	81	1.7	1.2	16.2	4617	3.8	56	3	11	2.9	51	470	61
7362	2014	8	91	1.5	1.2	14.9	4298	3.3	42	2	10	3.1	31	440	55
7363	2014	8.7	98	1.4	1.2	16.1	4176	3.3	60	2	11	2.9	52	300	61
7364	2014	9.1	75	1.6	1.2	18	3163	3.6	76	3	9	2.6	70	280	65
7365	2014	7.2	100	1.2	1.1	11.7	3555	2.8	51	2	11	2.8	30	330	55
7366	2014	7	94	1.4	1	13.4	4077	2.8	52	2	10	2.7	35	360	58
7367	2014	6.6	80	1.6	1	12.9	4484	3	43	2	10	2.8	34	390	59
7368	2014	6.6	82	1.6	1	13	4438	2.8	43	2	10	2.9	33	400	60
7369	2014	6.8	92	1.5	1	11.8	3543	3	46	2	10	3	32	410	63
7370	2014	5.5	84	1.2	0.8	11.6	3378	2.4	45	2	10	2	32	320	58
7372	2014	14.2	78	0.7	2.6	23.8	1770	3.3	30	0.5	22	8.1	22	430	37
7373	2014	11.5	80	0.8	2	19	2821	2.9	60	0.5	16	6.3	33	330	36
7374	2014	8.7	82	0.9	1.4	15.5	4065	2.7	90	2	13	4.2	47	300	49
7375	2014	10	91	1	1.8	14.8	4204	3.1	87	1	19	5	45	330	47
7376	2014	8.5	64	1.1	1.3	15.3	4487	2.9	77	2	11	3.9	52	230	56
7377	2014	10	90	1.1	1.5	14.3	5371	3.4	118	2	20	4.5	67	300	51
7378	2014	10	74	1	1.8	16.1	3947	3.2	63	1	17	5.2	32	360	44
7379	2014	14.3	76	1	2.4	24.7	3741	3.9	60	1	17	7.8	41	460	55
7381	2014	10.7	77	0.7	1.9	18.7	2316	2.8	43	0.5	16	6.1	24	320	41

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7382	2014	8	79	0.6	1.6	13.8	2065	2.4	50	0.5	21	7.9	27	280	33
7383	2014	8.5	75	0.4	1.7	14.9	1860	2.3	41	0.5	14	5.5	22	320	38
7384	2014	6.6	88	1.2	0.9	10.9	4308	3	58	2	13	3.2	44	420	61
7385	2014	5.6	114	1.4	0.8	8.7	5095	2.5	58	2	12	2.8	38	350	67
7386	2014	4.1	64	1	0.6	6.5	2952	1.8	32	1	9	2.2	56	220	47
7387	2014	6.6	86	1.5	0.9	10.4	4470	2.9	47	2	14	3.2	42	440	73
7388	2014	5.9	55	1.6	1	10.5	3927	2.8	53	2	9	3.1	24	410	78
7389	2014	7.5	79	1.6	1.2	12	4438	3	59	2	12	2.8	50	590	74
7390	2014	6.8	79	1.5	1	10	4122	2.9	56	2	12	2.3	35	410	84
7391	2014	13.5	70	0.6	2.5	24.3	1273	3.2	24	0.5	20	8.6	20	380	38
7392	2014	10.9	86	0.9	2	17.7	1922	3.2	40	1	15	6.2	25	460	51
7393	2014	6.9	84	0.7	1.2	11.3	2533	2.3	57	0.5	15	4.8	27	270	52
7394	2014	8.6	79	0.9	1.6	14.6	2634	3	52	1	18	6.6	38	490	59
7395	2014	7.7	85	0.9	1.5	12.5	3390	2.6	75	1	18	5.3	43	210	52
7396	2014	7	76	1	1.2	11.3	2984	2.5	72	1	16	4.5	39	320	52
7397	2014	7.2	87	0.8	1.3	11.3	3167	2.5	72	1	16	5.3	29	370	49
7398	2014	8.2	83	1.3	1.4	11.8	3014	3.3	37	2	17	4.3	30	630	75
7399	2014	6.3	76	1.1	1	10	3289	2.9	53	2	16	2.5	34	340	75
7400	2014	5.9	98	1.2	0.9	10.7	5684	3.2	104	2	14	2.4	91	330	72
7401	2014	7	105	1.2	1	11.9	6686	3.1	119	2	20	2.2	88	240	73
7403	2014	5.1	75	1	0.8	9.2	5045	2.5	88	2	12	2.2	55	370	63
7404	2014	5.2	122	1.2	0.8	6.9	6597	2.4	85	2	13	2.9	45	490	52
7405	2014	4.1	126	1	0.6	7.8	4744	2.2	93	3	10	2	60	220	52
7406	2014	3.2	103	1.2	0.6	8	6475	2.7	124	1	9	1.9	44	220	68
7407	2014	4.2	98	1.3	0.7	8.4	5294	2.2	60	2	10	2.2	29	320	49
7408	2014	5.8	100	1.4	0.9	10	5415	3	91	2	10	2.3	53	390	58
7409	2014	3.2	157	1	0.25	6.6	6074	2.2	151	4	8	1.4	96	180	64
7410	2014	7.3	96	1.7	1.1	13.4	6865	3	73	2	11	2.4	58	360	61
7411	2014	7.3	111	2.1	1.1	12	5824	3	67	2	11	2.4	44	230	54
7412	2014	9.5	117	2.4	1.5	15.1	7632	4.5	62	2	13	3.4	41	370	64
7413	2014	5.7	94	1.5	0.8	10	4688	2.7	69	2	9	2.2	43	290	53
7414	2014	7	105	1.5	1	10.1	4092	3.1	84	2	14	2.9	57	220	53
7415	2014	4.8	90	2.8	0.6	10.9	3378	2.7	50	2	10	1.5	51	200	34
7416	2014	5.1	99	1.5	0.8	8.1	4796	3.8	66	2	9	2.5	40	260	54
7417	2014	7.6	90	2.3	0.9	12.6	8168	2.8	51	2	11	2.4	36	440	46
7418	2014	6.5	104	2.6	0.9	11.4	7455	4.4	55	2	14	2	38	340	46
7419	2014	6.4	118	1.7	0.9	10.9	6500	2.7	78	2	9	1.5	61	310	57
7420	2014	6	106	1.3	0.9	9	4827	3	66	2	11	2.6	39	290	54
7422	2014	4.9	88	1.1	0.8	10	3733	2.3	66	0.5	10	2.3	49	260	45
7423	2014	7.6	106	1.1	1.2	12.5	3681	3.6	83	1	14	3.3	75	250	63
7424	2014	2.1	67	1.2	0.25	5.2	7014	2.4	128	2	8	2.7	21	50	73
7425	2014	6.1	104	1.1	0.9	10.7	5053	2.6	83	2	14	2.4	59	290	53
7426	2014	4.5	82	0.9	0.8	7.9	4885	2.1	59	2	10	2.4	37	320	43
7427	2014	5.3	105	1.2	0.9	11.8	5523	2.4	81	1	12	2.6	47	300	54
7428	2014	4.1	87	1.1	0.7	9	4666	2.1	80	1	10	1.7	50	200	55
7429	2014	6.6	92	0.8	1	8.9	3323	2.5	85	1	15	2	57	260	58
7430	2014	5.2	103	1.1	0.8	7.6	4734	2.4	92	1	11	1.9	46	340	61
7431	2014	5.2	83	1.1	0.9	8.2	3426	2.2	62	1	11	2.2	42	310	52

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7432	2014	5.4	74	1.2	0.8	9.3	3670	2.4	53	2	8	2.7	34	310	53
7433	2014	4.9	68	1.1	0.8	7.7	3736	2.2	49	1	9	2.5	30	350	50
7434	2014	5.4	69	1.2	0.9	8.3	4088	2.3	66	2	10	2.3	39	300	55
7435	2014	6.7	92	1.2	1	10	4046	3.1	90	2	13	3.2	62	460	65
7437	2014	4.8	79	0.7	0.8	6.5	3413	2	64	1	12	1.6	35	220	46
7438	2014	5.9	97	0.9	1	8.4	4983	2.3	77	1	17	2.2	37	340	57
7439	2014	6.6	78	1.2	0.9	11.3	6611	3.6	168	2	16	2.8	87	170	86
7440	2014	4.7	122	0.8	0.8	6.3	5524	2	90	1	16	2.6	41	250	56
7441	2014	4.8	92	1.3	0.6	9	6209	3.1	171	1	12	2	49	210	74
7442	2014	4.1	50	0.6	0.8	6.2	4922	1.9	161	1	15	2.4	70	210	48
7443	2014	5.1	160	0.8	0.9	8	6948	2.5	109	2	21	3.2	42	400	72
7444	2014	5.8	121	1	1	5.4	7719	1.9	98	1	21	3.3	46	490	61
7445	2014	7.1	66	1.3	1.2	12.2	3136	3	47	2	17	3.1	37	530	88
7446	2014	8	97	1.4	1.2	10.3	3897	2.7	61	2	20	3.1	48	460	78
7447	2014	7.5	48	1.1	1.2	11.7	4955	3.1	109	2	25	2.5	49	280	69
7448	2014	5.5	84	1.2	0.9	7.5	4680	2.9	59	2	14	3.1	47	420	77
7449	2014	5.2	126	0.7	0.9	5.7	5869	1.8	82	0.5	18	2.7	37	340	43
7450	2014	5	118	0.8	0.9	7.2	5881	2	95	1	18	2.6	43	330	50
7451	2014	5.3	142	0.9	0.9	6	6830	1.9	112	0.5	19	2.3	45	180	53
7452	2014	3.6	209	0.8	0.6	4.6	6769	1.7	112	1	13	1.9	65	230	60
7453	2014	5	98	0.6	0.8	7	5097	1.7	95	0.5	16	2.1	45	50	53
7454	2014	5.7	98	1.1	0.9	8.1	5299	2.4	96	1	15	2.4	49	300	58
7455	2014	4.7	105	0.7	0.8	6.5	5174	1.8	89	2	13	2.1	36	330	54
7457	2014	6.8	72	1.2	1.1	8.7	3820	2.6	56	1	16	3.1	41	390	71
7458	2014	7.9	70	1.4	1.1	12.5	3855	2.9	74	2	10	2.8	55	360	75
7459	2014	7.5	71	1.3	1.1	10.5	3827	2.7	56	2	11	2.7	44	360	73
7460	2014	6.3	65	1.1	0.9	9.2	3790	2.1	55	2	12	2.6	54	200	56
7461	2014	1	10	0.1	0.25	1.5	612	0.5	15	1	3	0.25	51	50	9
7462	2014	7.1	78	1.4	1	10	3717	3.2	49	2	13	3.5	39	410	67
7463	2014	3.1	56	0.4	0.6	4	2092	1	79	1	9	1.9	23	50	30
7464	2014	5.4	57	1.4	0.8	10	3639	2.5	44	2	8	2.8	38	460	66
7465	2014	6.3	76	1.6	0.9	10.6	3981	2.8	44	1	11	3	35	440	67
7466	2014	6.6	99	1.4	1	11.8	4221	3	40	2	10	2	32	370	61
7467	2014	6.1	82	1.4	0.9	12.4	3945	2.8	57	2	10	2.6	47	330	65
7468	2014	6.2	91	1.4	1	12.3	4188	2.7	43	2	11	2.8	29	390	66
7469	2014	5.8	68	1.2	0.9	12.3	3407	2.4	64	2	10	2.5	58	290	56
7470	2014	7	50	1.6	1	12.4	4196	3.2	66	2	7	3.3	32	360	66
7471	2014	7.9	120	1.2	1.1	13.9	3785	3.1	42	2	9	3.5	24	380	55
7472	2014	6.6	73	1.4	0.9	13	4249	3.1	69	2	8	3.1	30	320	58
7473	2014	7	93	1	1.1	12.7	3434	2.9	43	2	13	3.3	30	300	51
7474	2014	8.7	90	1.3	1.2	13.7	4293	3.6	57	2	10	3.7	22	410	57
7475	2014	7.9	95	1.1	1.2	13.6	3614	3.4	45	1	13	2.2	27	370	56
7476	2014	10	110	1.3	1.5	15.5	3656	3.9	45	2	14	3.5	26	460	56
7477	2014	11.6	112	1.2	1.7	19.6	3922	4.5	42	2	15	4.5	27	660	58
7478	2014	11.3	101	1.3	1.7	20.8	4555	4.5	73	2	13	4.6	54	480	55
7479	2014	7.5	74	0.7	1.2	12.9	2657	2.5	48	0.5	13	5.1	24	270	40
7480	2014	7.9	71	1.2	1.3	12.6	4232	3	77	2	9	3.8	19	390	61
7481	2014	8.4	101	1	1.3	14.2	3036	3.5	43	1	12	3.8	24	400	59

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SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7482	2014	8.1	88	1	1.2	12.8	4733	2.9	90	1	14	4	57	410	55
7483	2014	6.7	79	1.1	1.2	11.8	3041	3.1	37	1	13	3.5	29	360	54
7484	2014	8.6	77	1.2	1.4	13.4	3454	3.2	53	1	18	3.4	46	280	67
7485	2014	3.8	63	1.3	0.6	6.5	4851	2.2	79	2	7	2.1	17	340	58
7486	2014	5.1	81	1.1	0.8	14.5	4122	2.2	67	1	12	1.9	30	270	46
7487	2014	4.5	75	0.9	0.7	11.8	4443	2.2	69	0.5	12	1.7	31	280	50
7488	2014	8.4	101	1.3	1.3	13.6	3950	3.6	53	2	11	3.1	34	440	72
7490	2014	8	82	1.4	1.3	13.7	3763	3.6	54	2	14	3.6	45	440	75
7491	2014	7.8	71	1.4	1.2	11.1	3219	3.2	54	3	12	3.2	35	450	71
7492	2014	7.5	54	1.4	1.5	14.8	2199	4	28	2	21	5.5	62	480	116
7493	2014	8.8	78	1.3	1.5	11.1	2621	3.9	29	2	23	3.8	31	510	91
7494	2014	6.4	64	1.3	1.2	12.1	2241	3.9	23	2	19	3.7	54	430	97
7495	2014	5.5	51	1.2	1	11.2	3379	2.9	49	1	17	2.9	29	330	93
7496	2014	6.6	51	1.2	1.2	12.2	3984	3.4	68	2	18	3.6	40	430	90
7497	2014	5.4	58	1	0.9	11	3165	2.5	41	1	13	2.9	35	350	73
7498	2014	6.6	59	1.1	1.1	13.2	3237	2.9	46	1	18	3.2	61	310	89
7499	2014	8	60	1.2	1.3	13.6	2677	3.5	29	2	21	4.4	58	350	107
7500	2014	7.3	58	1.2	1.3	13	2608	3.3	37	2	18	3.9	41	490	94
7501	2014	8.5	58	1	1.6	20.3	1927	4.3	31	1	16	5.2	27	370	63
7502	2014	8	62	1.2	1.4	14.4	2007	3.6	25	2	20	5.6	46	490	87
7503	2014	10	70	1.2	1.8	13.9	2278	3.3	41	2	21	4.5	26	490	85
7504	2014	7.9	64	1	1.4	14	1897	3.2	31	1	15	3.7	32	460	66
7505	2014	11.1	67	0.6	2.1	20.1	1279	2.9	22	0.5	14	6	18	420	52
7506	2014	8.8	66	0.4	1.7	15.9	1184	2.5	25	0.5	12	7	20	380	37
7507	2014	6.5	70	0.4	1.3	12.2	1015	1.9	23	0.5	8	5.5	17	240	26
7508	2014	14.6	64	0.3	2.6	28.2	855	4.1	15	0.5	14	10	12	420	37
7510	2014	10.7	78	1	1.7	18.8	3109	3.4	50	2	12	5.9	30	340	43
7511	2014	9	80	1.3	1.3	15.4	4641	3.1	100	2	15	5	61	310	63
7512	2014	10.9	93	1.3	1.6	20.1	4514	4.3	91	2	11	4.2	62	440	37
7513	2014	7.7	99	0.9	1.3	13.7	2827	3.5	53	1	9	1.9	29	250	28
7514	2014	12.6	123	1.1	2	20.5	4381	5.4	68	1	21	4.3	37	520	49
7515	2014	7.6	116	0.9	1.2	12.6	3293	3.2	43	1	14	3.4	25	410	40
7516	2014	8.8	114	0.9	1.4	15.7	3939	3.8	54	1	14	4.1	29	490	46
7517	2014	8.9	115	1.1	1.4	16.7	4110	3.8	60	2	13	4.1	35	470	50
7518	2014	12.1	129	1.2	1.6	22	4333	5.7	57	2	12	4.2	41	430	51
7519	2014	13.3	149	2.1	1.8	24.5	5420	6.7	92	3	7	3.4	57	290	43
7520	2014	9.1	128	1	1.3	16.2	3845	4	55	2	9	3.1	44	310	41
7521	2014	6.8	108	1	0.9	12.5	3508	2.7	44	2	8	2.3	29	350	43
7522	2014	6.7	103	1.1	1	12	4543	2.9	36	1	11	2.1	28	370	54
7523	2014	6.6	70	1.2	0.9	14.5	4369	2.7	43	2	10	1.7	31	270	56
7524	2014	9.3	112	1.4	1.3	15.9	5156	3.3	44	3	11	2.9	28	380	61
7525	2014	8.9	125	1.2	1.2	15.3	4158	3.6	50	2	11	2.8	32	310	51
7527	2014	8.5	149	0.9	1.2	14.7	2880	3.6	26	1	9	3	18	370	43
7528	2014	12.4	143	1.1	1.7	21.5	3371	5.4	34	2	9	3.8	23	490	44
7529	2014	14.7	145	1.3	2.1	25.2	4427	6.5	61	2	10	4.2	36	550	59
7530	2014	8.9	111	1.2	1.3	15.6	4523	3.8	83	2	12	3	55	410	47
7531	2014	10.5	109	1.1	1.5	18.5	5234	4.7	75	1	16	3.8	44	430	57
7532	2014	20.4	135	2.9	2.7	35.7	12766	9.5	172	2	23	3.5	31	350	93

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7533	2014	10	115	1.3	1.5	16.6	4844	3.7	65	1	16	3.9	31	340	55
7534	2014	8.8	125	1	1.4	14.8	6280	3.3	87	1	16	3.7	30	360	52
7535	2014	6.1	78	0.9	1.2	11.5	3232	2.5	54	1	18	3.9	48	330	63
7536	2014	7.6	79	0.8	1.3	12.2	3288	2.6	62	1	18	3.9	36	330	61
7537	2014	7.1	80	1	1.2	11.7	2895	2.5	63	1	15	3.6	33	230	52
7539	2014	10	74	0.8	1.7	15.6	1555	2.8	30	1	18	6.3	27	400	55
7540	2014	6.7	72	0.6	1.3	11.6	1483	2.3	34	0.5	12	3.7	27	250	44
7541	2014	10.4	67	0.3	1.9	18.6	1089	2.5	19	0.5	14	6.1	14	400	40
7542	2014	6.6	155	1.3	0.9	15.3	4213	4.4	59	2	12	1.8	27	480	69
7543	2014	1.6	143	1.7	0.25	3.4	8596	2.2	114	1	9	1.7	24	530	81
7544	2014	3.7	134	1.1	0.6	6.9	5237	2.7	96	0.5	16	2.1	34	340	88
7545	2014	8.9	114	1.1	1.3	15.2	3394	3.4	65	1	10	3.9	32	300	54
7546	2014	4.9	77	0.5	0.9	8.5	2168	1.8	117	0.5	11	3.3	36	140	29
7547	2014	0.3	3	0.1	0.25	0.5	91	0.05	9	0.5	0.5	0.25	47	50	2
7548	2014	11.4	74	0.9	2	23.4	1522	3.8	21	1	11	8.5	13	450	38
7549	2014	6	126	1.1	0.9	13.4	3590	2.9	44	1	10	3	23	450	52
7550	2014	5	101	0.9	0.7	10.1	3221	2.3	40	1	10	2.6	21	330	49
7551	2014	5.4	94	1.4	0.8	13.7	5281	3.5	79	0.5	11	1.6	18	370	87
7552	2014	9	193	1.6	0.8	33.8	4001	4.1	47	1	7	0.25	11	590	112
7553	2014	5.3	58	1.1	0.8	11.6	1533	4	104	1	10	2	111	150	123
7554	2014	4.1	97	0.9	0.6	9	3207	2.2	36	1	9	2.1	28	330	56
7555	2014	2.7	122	1	0.25	5.7	4633	1.9	62	2	10	2.1	31	290	61
7556	2014	4.7	77	0.9	0.7	9.1	3923	2.2	84	3	10	1.7	49	250	74
7557	2014	2.9	112	0.6	0.5	7.4	3884	1.8	59	3	10	1.8	35	230	55
7558	2014	5.1	118	1.1	0.6	9	4296	2.3	67	3	12	2.1	54	260	67
7559	2014	5.3	124	1.2	0.8	7.7	4372	2.4	54	2	14	2.4	48	320	65
7561	2014	7.3	126	1.3	1	14.1	4261	3.5	42	1	14	2.1	24	500	70
7562	2014	3.6	205	1	0.6	10.1	4722	2.7	87	1	14	1.3	50	270	62
7563	2014	5.2	150	1.1	0.7	11.2	3769	2.8	64	2	15	1.8	46	270	64
7564	2014	4.9	167	1.4	0.7	9.2	4758	2.8	63	1	15	2.5	28	410	91
7565	2014	6.1	58	1.3	0.8	11.8	2155	3.9	95	1	9	2.7	76	330	89
7566	2014	6.4	51	1.1	0.9	12.1	1535	3.8	80	1	11	2.5	131	210	83
7567	2014	5.3	57	0.9	0.8	10	2118	3	78	1	11	1.9	67	160	80
7568	2014	5.9	65	1.1	0.8	10.1	1785	3.1	110	2	9	2.4	77	260	97
7569	2014	3.8	100	1	0.6	7.4	4015	2.2	64	2	9	2.3	38	250	63
7570	2014	4.8	78	0.9	0.7	9	1316	3.3	108	1	9	1.6	92	50	94
7571	2014	3.2	68	1.4	0.25	10.1	4856	3	109	3	9	1.2	46	170	70
7572	2014	3.7	73	1.4	0.6	4.3	3335	1.5	179	3	7	2.2	56	50	42
7573	2014	5.3	89	1.2	0.8	10	5533	2.5	83	2	16	2.9	53	240	62
7574	2014	5.4	95	1.4	0.6	12.8	5513	2.7	91	2	14	2.1	80	240	72
7575	2014	4.1	96	1.1	0.6	7.7	3686	2.2	71	2	10	2	39	240	66
7576	2014	4.4	104	1	0.6	9.3	3508	2.6	50	1	12	1.6	25	370	52
7577	2014	5.9	105	1.4	0.7	15.7	3875	3.5	29	0.5	6	2	8	460	126
7578	2014	4	145	1.3	0.6	6.8	5379	2.3	69	2	10	2.1	24	410	55
7580	2014	5.4	125	1.1	0.8	10	4135	2.4	68	0.5	9	2.3	30	280	52
7581	2014	3	273	1.3	0.6	3.3	6385	2	90	0.5	20	2.3	51	370	73
7582	2014	2.4	85	1.3	0.6	6.6	5462	2.5	189	2	11	2.6	24	210	92
7583	2014	2.9	122	0.8	0.25	5.4	4437	1.7	100	0.5	8	1.9	12	310	60

Appendix B: Field and Analytical Data Listing

SAMPLE_NUM	Year	Sm1 ppm	Sr2 ppm	Ta1 ppm	Tb1 ppm	Th1 ppm	Ti2 ppm	U1 ppm	V2 ppm	W1 ppm	Y2 ppm	Yb1 ppm	Zn2 ppm	Zr1 ppm	Zr2 ppm
7590	2014	5.5	-9	1.5	0.8	10.7	-9	2.6	-9	3	-9	2.2	-9	410	-9
7591	2014	2.8	72	1.3	0.25	5.8	6304	2.2	78	3	11	2.7	16	290	74
7592	2014	8.5	56	0.7	1.1	25.2	3428	4.9	65	1	31	1.5	48	50	40
7593	2014	4.8	108	1.1	0.7	9.4	4099	3	73	2	12	2.1	92	300	73
7594	2014	4.9	49	1.4	0.6	7.1	2274	2.1	83	2	6	1.9	26	290	73
7595	2014	5.9	204	2.1	1	2.9	11587	1.4	256	4	28	2.8	90	180	22
7596	2014	5.2	120	1.1	0.8	10	3988	2.5	54	1	12	2.2	23	340	62
7597	2014	5.9	124	0.9	0.8	9.4	3904	2.4	44	0.5	11	2.7	17	350	54
7598	2014	5.4	98	1.3	0.8	10.3	5860	2.7	94	1	9	2.5	25	310	69
7599	2014	4.1	101	0.9	0.7	7.2	3677	2	71	0.5	9	2.6	15	350	59
7601	2014	1.8	161	1	0.25	7.4	8512	2	209	0.5	13	1.2	66	130	67

Appendix C-1: Listing of Results of Heavy-mineral Processing and Examination

OVERBURDEN DRILLING MANAGEMENT LIMITED LABORATORY ABBREVIATIONS

SEDIMENT LOG

Largest Clasts Present:		Matrix Organics:	
G: Granules		ORG: Y: Organics present in matrix	
P: Pebbles		N: Organics absent or negligible in matrix	
C: Cobbles		+: Matrix is mainly organic	
Clast Composition:		Matrix Colour:	
V/S: Volcanics and/or sediments		Primary:	
GR: Granitics		BE: Beige	PP: Purple
LS: Limestone, carbonates		BR: Brick Red	PK: Pink
OT: Other Lithologies (refer to footnotes)		GY: Grey	PB: Pink-Beige
TR: Only trace present		GB: Grey-beige	
NA: Not applicable		GN: Green	
OX: Very oxidized, undifferentiated		GG: Grey-green	
		MN: Maroon	
Matrix Grain Size Distribution:		Secondary (soil):	
S/U: Sorted or Unsorted		OC: Ochre	
SD: Sand (F: Fine; M: Medium; C: Coarse)		BN: Brown	
ST: Silt		BK: Black	
CY: Clay		Secondary Colour Modifier:	
Y: Fraction present		L: Light	
+: Fraction more abundant than normal		M: Medium	
-: Fraction less abundant than normal		D: Dark	
N: Fraction not present			

GOLD GRAIN LOG

Thickness:
VG: Visible gold grains
M: Actual measured thickness of grain (microns)
C: Thickness of grain (microns) calculated from measured width and length

PGMs Platinum Group Minerals

KIM (kimberlite indicator mineral) LOG

GP: Purple to red peridotitic garnet (G9/10 Cr-pyrope)
GO: Orange mantle garnet; includes both eclogitic pyrope-almandine (G3) and Cr-poor megacrystic pyrope (G1/G2) varieties; may include unchecked (by SEM) grains of common crustal garnet (G5) lacking diagnostic inclusions or crystal faces
DC: Cr-diopside; distinctly emerald green (paler emerald green low-Cr diopside picked separately)
IM: Mg-ilmenite; may include unchecked (by SEM) grains of common crustal ilmenite lacking diagnostic inclusions or crystal faces
CR: Chromite
FO: Forsterite

MMSIM (metamorphosed or magmatic massive sulphide indicator mineral) and PCIM (porphyry Cu indicator mineral) LOGS

Adr: Andradite	Cpy: Chalcopyrite	Gth: Goethite	Opx: Orthopyroxene	St: Staurolite
Ap: Apatite	Cr: Chromite	Ilm: Ilmenite	Py: Pyrite	Tm: Tourmaline
Ase: Anatase	Fay: Fayalite	Ky: Kyanite	Sil: Sillimanite	Ttn: Titanite
Aspy: Arsenopyrite	Gh: Gahnite	Mz: Monazite	Spi: Spinel	Zir: Zircon
Ax: Axinite	Gr: Grossular	Ol: Olivine	Sps: Spessartine	

Appendix C-2: Listing of Results of Heavy-mineral Processing and Examination

OVERBURDEN DRILLING MANAGEMENT LIMITED GOLD GRAIN SUMMARY SHEET

File Name: 20146692 - Nfld&Labrador - Amor - KIMs - Aug 2014

Total Number of Samples in this Report = 8

Batch Number: 6692

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
7701	18	17	1	0	94.0	137	137	<1	0
7702	0	0	0	0	58.4	0	0	0	0
7703	1	1	0	0	81.6	<1	<1	0	0
7704	38	25	10	3	84.4	24	16	8	<1
7705	142	75	46	21	106.4	228	126	91	12
7706	0	0	0	0	66.4	0	0	0	0
7707	9	6	2	1	70.4	13	13	<1	<1
7708	57	48	9	0	72.0	99	82	17	0

Appendix C-3: Listing of Results of Heavy-mineral Processing and Examination

OVERBURDEN DRILLING MANAGEMENT LIMITED DETAILED GOLD GRAIN SHEET

File Name: 20146692 - Nfld&Labrador - Amor - KIMs - Aug 2014

Total Number of Samples in this Report = 8

Batch Number: 6692

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Minerals in Pan Concentrate
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
7701	Yes	3 C	15	15	2	1		3			1 grain pyrite (300µm). No PGMs.
		5 C	25	25	5			5			
		8 C	25	50	5			5			
		10 C	25	75	1			1			
		10 C	50	50	2			2			
		13 C	50	75	1			1			
		38 C	200	200	1			1			
								18	94.0	137	
7702	Yes	NO VISIBLE GOLD									No PGMs or sulphides.
7703	Yes	5 C	25	25	1			1			No PGMs or sulphides.
								1	81.6	<1	
7704	Yes	3 C	15	15	5	3	3	11			No PGMs or sulphides.
		5 C	25	25	11	3		14			
		8 C	25	50	6	2		8			
		10 C	25	75	1	1		2			
		10 C	50	50	2	1		3			
								38	84.4	24	
7705	Yes	3 C	15	15	25	13	11	49			No PGMs or sulphides.
		5 C	25	25	22	15	5	42			
		8 C	25	50	12	10	2	24			
		10 C	25	75		1	1	2			
		10 C	50	50	3	1		4			
		13 C	50	75	7	1	2	10			
		15 C	50	100	2	1		3			
		15 C	75	75		1		1			
		22 C	75	150	2	1		3			
		20 C	100	100	2			2			
		22 C	100	125		2		2			
								142	106.4	228	
7706	Yes	NO VISIBLE GOLD									1 grain pyrite (75µm). No PGMs. SEM checks: 5 of ~20 awaruite vesus sulphide candidates = 5 awaruite (75µm).
7707	Yes	3 C	15	15		2	1	3			No PGMs or sulphides.
		5 C	25	25	1			1			
		8 C	25	50	2			2			
		10 C	25	75	1			1			
		10 C	50	50	1			1			
		13 C	50	75	1			1			
								9	70.4	14	
7708	Yes	3 C	15	15	15	4		19			~50 grains pyrite (25-75µm). No PGMs. SEM check: 1 of 3 steel versus awaruite candidates = 1 awaruite (75µm).
		5 C	25	25	15	1		16			
		8 C	25	50	7	2		9			
		10 C	25	75	1			1			
		10 C	50	50	3			3			
		13 C	50	75	4	1		5			
		15 C	50	100	1	1		2			
		18 C	75	100	2			2			
								57	72.0	99	

Appendix C-4: Listing of Results of Heavy-mineral Processing and Examination

OVERBURDEN DRILLING MANAGEMENT LIMITED PLATINUM GROUP MINERALS SUMMARY

File Name: 20146692 - Nfld&Labrador - Amor - KIMs - Aug 2014

Total Number of Samples in this Report = 8

Batch Number: 6692

Sample Number	Observed Awaruite and PGMs.		TOTAL GRAINS
	Mineral *	Number of Grains	
7701	None observed	0	0
7702	None observed	0	0
7703	None observed	0	0
7704	None observed	0	0
7705	None observed	0	0
7706	Awaruite	~20	~20
7707	None observed	0	0
7708	Awaruite	3	3

* All samples are oxidized; therefore only native PGE minerals and the most resistant PGE arsenide and antimonide grains (no PGE sulphides or tellurides) are likely to be preserved.

Appendix C-5: Listing of Results of Heavy-mineral Processing and Examination

OVERBURDEN DRILLING MANAGEMENT LIMITED

RAW SAMPLE DESCRIPTIONS

File Name: 20146692 - Nfld&Labrador - Amor - KIMs - Aug 2014

Total Number of Samples in this Report = 8

Batch Number: 6692

Sample Number	Sample Description																		CLASS
	Weight (kg wet)					Clasts (> 2.0 mm)					Matrix (<2.0 mm)								
						Size	Percentage				Distribution					Colour			
	Bulk Rec'd	Archived Split	Table Split	+2.0 mm Clasts	Table Feed		V/S	GR	LS	OT	S/U	SD	ST	CY	ORG	SD	CY		
7701	29.3	0.5	28.8	5.3	23.5	P	20	80	0	0	U	Y	+	-	N	DOC	DOC	TILL	
7702	19.3	0.5	18.8	4.2	14.6	P	90	10	0	0	U	Y	+	-	N	DOC	DOC	TILL	
7703	24.2	0.5	23.7	3.3	20.4	P	100	0	0	0	U	-	+	-	N	DOC	DOC	TILL	
7704	23.9	0.5	23.4	2.3	21.1	P	95	5	0	0	U	-	+	-	N	DOC	DOC	TILL	
7705	31.6	0.5	31.1	4.5	26.6	C	70	30	0	0	U	-	+	-	N	DOC	DOC	TILL	
7706	24.7	0.5	24.2	7.6	16.6	P	100	0	0	0	U	+	Y	-	N	OC	OC	TILL	
7707	23.2	0.5	22.7	5.1	17.6	P	5	95	0	0	U	+	+	-	N	DOC	DOC	TILL	
7708	23.8	0.5	23.3	5.3	18.0	P	60	40	0	0	U	Y	+	-	N	DOC	DOC	TILL	

Appendix C-6: Listing of Results of Heavy-mineral Processing and Examination

OVERBURDEN DRILLING MANAGEMENT LIMITED LABORATORY SAMPLE PROCESSING WEIGHTS

File Name: 20146692 - Nfld&Labrador - Amor - KIMs - Aug 2014

Total Number of Samples in this Report = 8

Batch Number: 6692

Sample Number	Weight (g)												
	-2.0 mm Table Concentrate												
	0.25 to 2.0 mm Heavy Liquid Separation S.G 3.20												
	HMC S.G.>3.2												
	Nonferromagnetic HMC												
	Processed Split												
	Total												
	Total	-0.25 mm	Total	Lights SG <3.2	Total	<0.25 mm (wash)	Mag HMC	Total	%	Weight	0.25 to 0.5 mm	0.5 to 1.0 mm	1.0 to 2.0 mm
7701	1,323.1	886.5	436.6	401.6	35.0	13.4	1.4	20.2	100	20.2	15.1	4.2	0.9
7702	692.4	515.7	176.7	166.6	10.1	3.5	0.6	6.0	100	6.0	3.8	1.8	0.4
7703	467.9	290.7	177.2	166.1	11.1	2.4	1.5	7.2	100	7.2	3.7	2.9	0.6
7704	1,001.2	640.2	361.0	305.3	55.7	6.7	1.7	47.3	100	47.3	28.9	15.4	3.0
7705	1,586.1	1109.4	476.7	229.3	247.4	37.4	23.6	186.4	54	100	63.9	31.1	5.0
7706	1,425.1	517.3	907.8	781.5	126.3	10.6	111.2	4.5	100	4.5	2.6	1.5	0.4
7707	1,203.9	787.3	416.6	400.8	15.8	2.5	0.6	12.7	100	12.7	9.3	3.1	0.3
7708	1,616.4	1109.1	507.3	418.1	89.2	14.6	9.2	65.4	100	65.4	42.9	19.1	3.4

Appendix C-7: Listing of Results of Heavy-mineral Processing and Examination

OVERBURDEN DRILLING MANAGEMENT LIMITED PARAMAGNETIC/NONPARAMAGNETIC FRACTION WEIGHTS

File Name: 20146692 - Nfld&Labrador - Amor - KIMs - Aug 2014

Total Number of Samples in this Report = 8

Batch Number: 6692

Sample Number	Weight 0.25-0.5 mm Nonferromagnetic Heavy Mineral Fractions (g)					
	Total	Paramagnetic			Nonparamagnetic (>1.0 amp)	
		Strongly (<0.6 amp)	Moderately (0.6-0.8 amp)	Weakly (0.8-1.0 amp)	S.G. >3.20	S.G. <3.20*
7701	15.1	4.16	4.03	3.25	3.10	0.51
7702	3.8	1.08	0.60	0.75	0.91	0.44
7703	3.7	0.24	0.64	0.52	2.12	0.22
7704	28.9	2.13	4.48	5.50	15.01	1.78
7705	63.9	4.70	3.79	12.83	32.71	9.86
7706	2.6	0.57	0.24	0.22	1.43	0.11
7707	9.3	0.76	6.84	0.89	0.67	0.12
7708	42.9	4.12	4.98	8.15	21.78	3.82

*SG <3.20 heavy liquid separation clean up of >1.0 amp fraction.

Appendix C-8: Listing of Results of Heavy-mineral Processing and Examination

OVERBURDEN DRILLING MANAGEMENT LIMITED METAMORPHOSED OR MAGMATIC MASSIVE SULPHIDE INDICATOR MINERAL DATA

Sample Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm				Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										
	>1 amp			<1.0 amp	>1.0 amp								<0.8 amp		
	%	Misc. Prime	%		# Grains +	Misc. Prime	% Red	%	%	%	%	%	%	%	%
	Cpy	MMSIMs	Py	Gth	Colour Spinel	MMSIMs	Rutile	Ky	Sil	Tm	St	Sps	Ol	% Opx	Cr
7701	0	0	Tr (1 gr)	0	0	Tr low-Cr diopside (5 gr)	Tr (8 gr)	0	Tr	0	20	0	0	0	Tr (~250 gr)
7702	0	0	0	0	0	Tr low-Cr diopside (7 gr)	0	0	1	0	35	0	0	0	Tr (~120 gr)
7703	0	0	0	Tr	0	Tr low-Cr diopside (9 gr)	Tr (1 gr)	0	Tr	0	30	0	0	0	25 (~4000 gr)
7704	0	0	0	Tr	0	0.1% low-Cr diopside (~180 gr) Tr Mn-epidote (11 gr) Tr uvarovite (1 gr)	0	0	1	0	25	0	0	0	10 (~12,000 gr)

Appendix C-8: Listing of Results of Heavy-mineral Processing and Examination

OVERBURDEN DRILLING MANAGEMENT LIMITED METAMORPHOSED OR MAGMATIC MASSIVE SULPHIDE INDICATOR MINERAL DATA

Sample Number	Sulphide/Arsenide + Related Minerals 0.25-0.5 mm				Mg/Mn/Al/Cr Minerals 0.25-0.5 mm										
	>1 amp			<1.0 amp	>1.0 amp								<0.8 amp		
	% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSIMs	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	% Ol	% Opx	% Cr
7705	0	0	0	Tr	0	Tr Cr-diopside (3 gr) Tr low-Cr diopside (~150 gr) Tr Mn-epidote (~250 gr)	0	0	0	0	Tr	0	0	Tr	60 (~20,000 gr)
7706	0	0	0	Tr	0	Tr low-Cr diopside (3 gr)	0	0	0	0	0	0	30	1	1 (~100 gr)
7707	0	0	0	3	0	Tr low-Cr diopside (11 gr) Tr Mn-epidote (3 gr)	Tr (1 gr)	0	Tr	Tr	0	0	0	0	Tr (7 gr)
7708	0	0	0	Tr	0	Tr low-Cr diopside (~300 gr) Tr Mn-epidote (~50 gr)	0	0	Tr	Tr	15	0	0	Tr	1 (~2000 gr)

Appendix C-8: Listing of Results of Heavy-mineral Processing and Examination

OVERBURDEN DRILLING MANAGEMENT LIMITED METAMORPHOSED OR MAGMATIC MASSIVE SULPHIDE INDICATOR MINERAL DATA

Sample Number	Phosphates		Remarks	Picked Grains
	>1.0 amp			
	% Ap	% Mz		
7701	1	0	Pigeonite-almandine/epidote-staurolite- diopside assemblage. SEM checks from 1.0-2.0 mm fraction: 2 pentlandite versus pyrite candidates = 2 pyrite. SEM checks from 0.5-1.0 mm fraction: 10 chromite candidates = 10 chromite; 5 representative orange olivine candidates with net-textured shear/fracture zones and minute black oxide inclusions = 5 staurolite (major nonparamagnetic assemblage mineral) with ilmenite and Cr-magnetite inclusions; and 5 representative grey-brown granular staurolite (major nonparamagnetic assemblage mineral) versus titanite candidates with minute black oxide inclusions = 5 staurolite (dominant staurolite phase in sample) with ilmenite and Cr-magnetite inclusions. SEM checks from 0.25-0.5 mm fraction: 5 representative brown augite versus orthopyroxene candidates = 5 pigeonite (major paramagnetic assemblage mineral). Chromite varies from nonparamagnetic to slightly ferromagnetic.	1.0-2.0 mm fraction: 2 pyrite resembling pentlandite 0.5-1.0 mm fraction: 5 representative sheared orange staurolite 5 representative granular grey-brown staurolite 10 chromite 0.25-0.5 mm fraction: 5 low-Cr diopside 8 red rutile 40 representative chromite
7702	15	0	Pigeonite-almandine-ilmenite-hornblende/ staurolite-epidote-diopside-apatite assemblage.	0.5-1.0 mm fraction: 6 chromite 0.25-0.5 mm fraction: 7 low-Cr diopside 20 representative chromite
7703	15	0	Almandine-chromite/staurolite-diopside- epidote-apatite assemblage. SEM check from 0.5-1.0 mm fraction: 1 forsterite versus quartz candidate = 1 andradite. SEM checks from 0.25-0.5 mm fraction: 1 Cr-grossular candidate = 1 low-Cr diopside; and 5 atypical (i.e paramagnetic) diopside (major nonparamagnetic assemblage mineral) candidates with oxide inclusions = 5 diopside with magnetite ± Cr-magnetite inclusions. 0.5-1.0 mm fraction contains 5% (~150 grains) chromite.	1.0-2.0 mm fraction: 1 chromite 0.5-1.0 mm fraction: 5 low-Cr diopside 1 andradite resembling forsterite 20 representative chromite 0.25-0.5 mm fraction: 8 low-Cr diopside 1 low-Cr diopside resembling Cr-garnet 1 red rutile 20 representative chromite 20 representative diopside of slightly ferromagnetic type with magnetite ± Cr-magnetite inclusions
7704	0	0	Almandine/epidote-diopside-staurolite assemblage. SEM checks from 0.25-0.5 mm fraction: 1 topaz versus corundum candidate = 1 zoisite; 1 polymineralic uvarovite + chromite + pigeonite/orthopyroxene candidate = 1 uvarovite + chromite + enstatite + forsterite (Fo80; grain counted as uvarovite); and 1 forsterite versus andradite candidate = 1 andradite. 0.5-1.0 mm fraction contains 2% (~200 grains) chromite.	1.0-2.0 mm fraction: 1 chromite 0.5-1.0 mm fraction: 19 low-Cr diopside 20 representative chromite 0.25-0.5 mm fraction: 20 representative low-Cr diopside 11 Mn-epidote 1 zoisite resembling topaz 1 uvarovite + chromite + enstatite + forsterite 1 andradite resembling forsterite 20 representative chromite

Appendix C-8: Listing of Results of Heavy-mineral Processing and Examination

OVERBURDEN DRILLING MANAGEMENT LIMITED METAMORPHOSED OR MAGMATIC MASSIVE SULPHIDE INDICATOR MINERAL DATA

Sample Number	Phosphates		Remarks	Picked Grains
	>1.0 amp			
	% Ap	% Mz		
7705	0	0	Chromite-almandine/epidote-diopside assemblage. SEM checks from 1.0-2.0 mm fraction: 1 chromite + serpentine candidate = 1 chromite + talc; and 1 chromite + plagioclase candidate = 1 chromite + talc. SEM checks from 0.5-1.0 mm fraction: 5 chromite candidates with adhering white to red-orange serpentine = 4 chromite + talc and 1 chromite + forsterite (Fo80); 1 chromite candidate with adhering serpentine and emerald green Cr-silicate = 1 chromite + Cr-diopside + enstatite (counted as Cr-diopside); 1 of 2 chromite candidates with adhering emerald green Cr-silicate = 1 chromite + Cr-diopside (counted as Cr-diopside, unchecked grain also has adhering brown enstatite); 5 pale orange epidote candidates for Mn content = 5 Mn-free epidote. One third of epidote (major nonparamagnetic assemblage mineral) in concentrate is pale orange rather than green. Approximately 3% of chromite in 0.5-1.0 mm fraction and ~1% in 0.25-0.5 mm fraction have adhering talc-serpentine. 0.5-1.0 mm fraction contains 3% (~100 grains) chromite and traces of both low-Cr diopside (~15 grains) and rose-coloured Mn-epidote (~10 grains).	1.0-2.0 mm fraction: 12 chromite 2 chromite + talc 0.5-1.0 mm fraction: 3 Cr-diopside + chromite ± enstatite 5 representative low-Cr diopside 5 representative Mn-epidote 5 representative orange epidote 20 representative chromite 1 chromite + forsterite 4 chromite + talc 0.25-0.5 mm fraction: 20 representative low-Cr diopside 20 representative Mn-epidote 20 representative chromite
7706	Tr	0	Almandine-forsterite/epidote assemblage. SEM checks from 0.5-1.0 mm fraction: 5 representative, partly serpentinized olivine candidates with black oxide inclusions = 5 olivine (Fo90) + magnetite ± Cr-magnetite; 5 orthopyroxene candidates = 4 enstatite and 1 diopside; and 2 orthopyroxene + diopside candidates = 2 enstatite + diopside. All forsterite grains occur as thin, partly serpentinized flakes. Most contain magnetite inclusions and are therefore paramagnetic.	1.0-2.0 mm fraction: 1 chromite 0.5-1.0 mm fraction: 8 low-Cr diopside 5 representative forsterite 4 representative enstatite 2 enstatite + diopside 1 diopside resembling enstatite 6 chromite 10 chromite + talc/serpentine 0.25-0.5 mm fraction: 3 low-Cr diopside 20 representative forsterite 20 representative chromite
7707	2	0	Almandine/epidote-grossular assemblage. SEM checks from 0.25-0.5 mm fraction: 1 low-Cr diopside + chromite candidate = 1 low-Cr diopside + chromite (counted as low-Cr diopside); and 5 pale orange garnet (major nonparamagnetic assemblage mineral) candidates = 5 grossular.	0.25-0.5 mm fraction: 10 low-Cr diopside 1 low-Cr diopside + chromite 3 Mn-epidote 7 chromite 5 representative grossular
7708	1	0	Almandine-hornblende/epidote-diopside- staurolite assemblage. Diopside varies from strongly paramagnetic to nonparamagnetic depending on whether magnetite and/or Cr-magnetite inclusions are abundant or absent; therefore it occurs in all amperage fractions. 0.5-1.0 mm fraction contains 0.5% (~120 grains) chromite.	1.0-2.0 mm fraction: 1 Mn-epidote 0.5-1.0 mm fraction: 22 low-Cr diopside 5 Mn-epidote 20 representative chromite 0.25-0.5 mm fraction: 30 representative low-Cr diopside 15 representative Mn-epidote 20 representative chromite