Quality Analysis ... *Innovative Technologies*

Date Submitted: 14-Dec-11
Invoice No.: A11-14931 (i)
Invoice Date: 10-Feb-12
Your Reference: STIKINIA

Geological Survey of Canada
475-601 BOOTH ST
OTTAWA ON K1A0E8
Canada

ATTN: Alex Zagorevski

CERTIFICATE OF ANALYSIS

17 Rock samples were submitted for analysis.

The following analytical packages were requested:

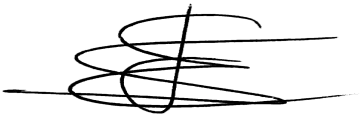
REPORT **A11-14931 (i)**

Code 1B (3+) Nickel Sulphide INAA(INAAGEO)
Code 1C-Res Fire Assay-ICP/MS
Code 4LITHORES (11+) Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)

Notes:

We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.
We recommend using option 4B1 for accurate levels of the base metals Cu, Pb, Zn, Ni and Ag. Option 4B-INAA for As, Sb, high W >100ppm, Cr >1000ppm and Sn >50ppm by Code 5D. Values for these elements provided by Fusion ICP/MS, are order of magnitude only and are provided for general information. Mineralized samples should have the Quant option selected or request assays for values which exceed the range of option 4B1. Total includes all elements in % oxide to the left of total.

CERTIFIED BY :



Emmanuel Eseme , Ph.D.
Quality Control

ISO/IEC 17025
SCC Accredited
LAB 266
LAB 266
Accrédité CCN

ACTIVATION LABORATORIES LTD.

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Analyte Symbol	Au	Pt	Pd	Os	Ir	Ru	Rh	Pt	Pd	Au	Re	Mass	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	g	%	%	%	%	%	%	%	%	%	%	%	%
Detection Limit	1	0.1	0.1	2	0.1	5	0.2	5	2	0.5	5		0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01
Analysis Method	FA-MS	FA-MS	FA-MS	NI-FINA	NI-FINA	NI-FINA	NI-FINA	NI-FINA	NI-FINA	NI-FINA	NI-FINA	NI-FINA	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
ZE10-236A	2	0.5	0.4	< 2	< 0.1	< 5	< 0.2	11	7	10.2	< 5	1.46												
ZE11-644A	1	7.2	8.2	< 2	1.4	< 5	0.6	9	11	< 0.5	< 5	20.19	45.60	9.79	9.02	0.148	15.42	8.61	1.35	2.81	0.620	0.42	3.86	97.65
ZE11-644B													42.43	7.99	9.17	0.164	21.35	8.85	0.22	0.44	0.429	0.37	8.16	99.57
ZE11-645A	< 1	6.3	3.9	< 2	2.8	< 5	0.7	< 5	5	< 0.5	< 5	20.07	40.25	3.57	9.25	0.134	33.84	3.06	0.17	0.02	0.195	0.05	8.54	99.09
ZE11-645B	< 1	6.6	6.4	< 2	1.3	< 5	0.5	< 5	6	< 0.5	< 5	20.56	42.46	5.12	9.72	0.151	29.47	4.44	0.73	0.65	0.259	0.08	7.39	100.5
ZE11-648C	1	4.8	4.4	< 2	< 0.1	< 5	0.4	< 5	5	< 0.5	< 5	20.14	39.18	3.82	8.71	0.092	30.90	3.26	0.07	0.05	0.195	0.06	13.48	99.82
ZE11-648D													39.57	4.82	9.39	0.121	25.52	9.00	0.05	0.04	0.310	0.13	10.71	99.66
ZE11-649A	< 1	7.0	6.0	< 2	2.2	< 5	0.8	< 5	7	< 0.5	< 5	20.24	40.72	3.97	9.28	0.143	31.69	4.64	0.03	0.24	0.210	0.08	9.78	100.8
ZE11-649D	< 1	7.1	7.1	< 2	3.4	< 5	0.6	5	12	< 0.5	< 5	20.28	40.10	4.57	9.53	0.145	29.22	6.37	0.08	0.17	0.265	0.09	10.11	100.6
ZE11-649F													39.98	4.30	9.48	0.138	29.90	5.83	0.08	0.14	0.261	0.09	10.25	100.5
11RAYAZ354A2	< 1	5.2	4.2	< 2	0.7	< 5	0.7	< 5	4	< 0.5	< 5	20.17	53.60	3.62	6.78	0.169	15.02	19.29	0.96	0.32	0.225	0.05	0.74	100.8
11RAYAZ398A2	74	6.5	5.3	< 2	0.9	< 5	0.6	< 5	5	86.5	< 5	20.35	40.53	2.69	8.21	0.106	35.70	1.85	0.04	0.02	0.073	0.02	9.26	98.49
11RAYAZ126A2	< 1	7.9	7.3	< 2	0.9	< 5	0.6	< 5	6	< 0.5	< 5	20.22	41.47	1.07	7.52	0.096	36.10	0.05	0.01	< 0.01	0.027	0.02	12.38	98.73
11RAYAZ397A2	4	1.6	1.9	< 2	< 0.1	< 5	< 0.2	< 5	< 2	1.6	< 5	20.10	44.22	10.89	14.42	0.282	9.31	15.47	0.78	0.10	3.357	0.57	-0.06	99.36
11RAYAZ397C2	< 1	0.6	0.3	< 2	< 0.1	< 5	< 0.2	< 5	< 2	< 0.5	< 5	20.41	43.07	16.09	14.20	0.235	7.08	12.86	1.55	0.70	3.049	0.61	-0.17	99.27
11RAYAZ110A2	< 1	2.6	0.8	< 2	1.9	13	< 0.2	< 5	< 2	< 0.5	< 5	20.43	51.86	4.74	8.22	0.198	13.94	18.69	0.82	0.36	0.352	0.07	0.73	99.97
11RAYAZ310A2	< 1	33.1	0.1	< 2	2.7	22	1.4	27	< 2	< 0.5	< 5	15.15	36.47	0.25	10.33	0.205	41.56	0.53	0.02	< 0.01	0.024	0.02	11.03	100.4

Analyte Symbol	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	La
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	5	20	1	20	10	30	1	0.5	5	1	2	0.5	1	0.2	2	0.5	0.1	1	0.2	0.1	3	0.05
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS
ZE10-236A																								
ZE11-644A	27	1	210	950	54	580	70	70	11	1.4	16	84	412	13.7	48	3.1	< 2	< 0.5	< 0.1	< 1	3.6	4.5	744	8.35
ZE11-644B	21	1	185	1660	69	1070	70	70	8	1.6	20	23	85	9.7	34	1.8	< 2	< 0.5	< 0.1	< 1	4.0	3.3	118	6.35
ZE11-645A	15	< 1	98	2400	102	1700	20	60	5	1.0	< 5	< 1	73	4.3	27	0.8	< 2	< 0.5	< 0.1	< 1	< 0.2	0.1	48	5.31
ZE11-645B	18	< 1	97	2100	94	1380	50	60	6	1.2	< 5	11	208	5.4	12	0.7	< 2	< 0.5	< 0.1	< 1	0.2	1.1	95	3.41
ZE11-648C	14	< 1	72	1750	97	1560	30	70	4	1.1	< 5	4	198	4.0	10	0.5	< 2	< 0.5	< 0.1	< 1	1.0	2.1	59	2.23
ZE11-648D	21	< 1	106	1660	81	1120	70	60	4	2.0	12	2	94	7.1	17	0.7	< 2	< 0.5	< 0.1	< 1	1.3	1.0	68	3.15
ZE11-649A	16	< 1	101	2120	98	1540	40	60	5	1.1	< 5	5	103	4.4	10	0.3	< 2	< 0.5	< 0.1	< 1	0.2	0.2	138	1.62
ZE11-649D	18	< 1	123	2190	93	1380	50	60	4	1.1	< 5	6	183	5.3	12	0.7	< 2	< 0.5	< 0.1	< 1	< 0.2	0.8	146	2.74
ZE11-649F	18	< 1	104	1950	92	1340	40	60	4	1.1	< 5	3	113	5.0	12	0.3	< 2	< 0.5	< 0.1	< 1	< 0.2	0.5	252	1.86
11RAYAZ354A2	56	< 1	195	2420	33	150	< 10	40	5	2.1	< 5	4	69	6.5	17	0.5	< 2	< 0.5	< 0.1	< 1	< 0.2	< 0.1	81	2.34
11RAYAZ398A2	12	< 1	64	2020	93	1860	< 10	90	3	0.9	177	< 1	8	2.2	2	0.3	< 2	< 0.5	< 0.1	< 1	3.9	0.4	13	1.00
11RAYAZ126A2	11	< 1	43	2460	96	2070	20	60	2	1.3	< 5	< 1	< 2	0.7	1	< 0.2	< 2	< 0.5	< 0.1	< 1	0.6	< 0.1	5	1.43
11RAYAZ397A2	33	< 1	413	520	56	260	20	170	12	2.2	< 5	4	87	37.2	141	48.0	< 2	< 0.5	< 0.1	2	< 0.2	0.3	58	26.0
11RAYAZ397C2	33	1	291	430	51	150	20	110	20	2.3	< 5	13	561	33.9	237	78.1	< 2	1.0	< 0.1	3	< 0.2	0.4	1257	54.8
11RAYAZ110A2	79	< 1	255	470	41	100	50	50	7	2.3	< 5	4	76	9.9	16	1.5	< 2	< 0.5	< 0.1	< 1	0.2	< 0.1	73	4.73
11RAYAZ310A2	5	< 1	19	2750	114	980	< 10	80	1	1.0	< 5	< 1	4	< 0.5	< 1	0.3	< 2	< 0.5	< 0.1	< 1	< 0.2	< 0.1	6	0.68

Analyte Symbol	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Bi	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.01	0.05	0.01	0.005	0.01	0.01	0.01	0.01	0.01	0.005	0.01	0.002	0.1	0.01	0.5	0.05	5	0.1	0.05	0.01
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
ZE10-236A																					
ZE11-644A	18.0	2.21	10.2	2.42	0.815	2.66	0.45	2.50	0.49	1.44	0.212	1.43	0.228	1.3	0.14	1.2	0.11	< 5	< 0.1	1.58	0.97
ZE11-644B	13.8	1.66	7.51	1.83	0.569	1.83	0.33	1.83	0.35	1.04	0.138	1.02	0.154	1.0	0.07	1.6	< 0.05	< 5	< 0.1	1.24	0.78
ZE11-645A	11.0	1.19	4.34	0.90	0.248	0.86	0.15	0.74	0.17	0.48	0.063	0.45	0.073	0.7	< 0.01	< 0.5	< 0.05	< 5	< 0.1	0.47	0.16
ZE11-645B	7.18	0.84	3.51	0.82	0.315	1.03	0.18	0.94	0.18	0.57	0.088	0.61	0.073	0.3	0.01	< 0.5	< 0.05	< 5	< 0.1	0.34	0.23
ZE11-648C	4.76	0.57	2.62	0.63	0.219	0.77	0.13	0.67	0.13	0.42	0.064	0.43	0.057	0.3	< 0.01	< 0.5	< 0.05	< 5	< 0.1	0.22	0.11
ZE11-648D	6.68	0.82	4.17	1.13	0.365	1.29	0.20	1.16	0.25	0.66	0.104	0.60	0.103	0.5	0.02	< 0.5	< 0.05	< 5	< 0.1	0.32	0.19
ZE11-649A	3.55	0.46	2.23	0.60	0.216	0.74	0.13	0.73	0.16	0.44	0.060	0.42	0.060	0.3	< 0.01	< 0.5	< 0.05	< 5	< 0.1	0.17	0.10
ZE11-649D	5.96	0.72	3.16	0.84	0.286	0.92	0.17	0.95	0.20	0.61	0.071	0.60	0.085	0.4	0.13	< 0.5	< 0.05	< 5	< 0.1	0.25	0.17
ZE11-649F	4.26	0.55	2.69	0.64	0.260	0.86	0.14	0.88	0.17	0.52	0.073	0.51	0.079	0.3	0.41	< 0.5	< 0.05	< 5	< 0.1	0.19	0.13
11RAYAZ354A2	6.69	0.99	4.80	1.51	0.462	1.64	0.25	1.25	0.21	0.62	0.081	0.49	0.073	0.5	< 0.01	< 0.5	< 0.05	< 5	< 0.1	0.34	0.14
11RAYAZ398A2	2.29	0.27	1.20	0.26	0.079	0.34	0.06	0.36	0.08	0.26	0.034	0.27	0.039	< 0.1	< 0.01	0.9	< 0.05	< 5	< 0.1	0.23	0.06
11RAYAZ126A2	2.17	0.20	0.66	0.08	0.034	0.13	0.02	0.10	0.02	0.10	0.015	0.12	0.015	< 0.1	< 0.01	1.0	< 0.05	< 5	< 0.1	< 0.05	0.02
11RAYAZ397A2	71.4	9.49	42.4	9.82	2.95	9.04	1.43	7.49	1.43	3.75	0.500	3.27	0.454	3.8	3.14	1.3	< 0.05	< 5	< 0.1	2.19	1.23
11RAYAZ397C2	119	14.1	55.9	10.1	3.04	8.42	1.28	6.77	1.26	3.40	0.484	3.10	0.498	5.7	4.77	< 0.5	< 0.05	< 5	< 0.1	1.25	0.22
11RAYAZ110A2	12.1	1.69	8.18	2.21	0.629	2.30	0.38	1.99	0.40	1.07	0.160	0.97	0.141	0.7	0.05	< 0.5	< 0.05	< 5	< 0.1	0.49	0.16
11RAYAZ310A2	1.39	0.15	0.54	0.09	0.019	0.13	0.02	0.05	0.01	0.06	0.007	0.06	0.014	< 0.1	< 0.01	< 0.5	< 0.05	< 5	< 0.1	< 0.05	0.03

Quality Control

Analyte Symbol	Au	Pt	Pd	Os	Ir	Ru	Rh	Pt	Pd	Au	Re	Mass	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total
Unit Symbol	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	g	%	%	%	%	%	%	%	%	%	%	%	%
Detection Limit	1	0.1	0.1	2	0.1	5	0.2	5	2	0.5	5		0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01
Analysis Method	FA-MS	FA-MS	FA-MS	NI-FINA	NI-FINA	NI-FINA	NI-FINA	NI-FINA	NI-FINA	NI-FINA	NI-FINA	NI-FINA	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
NIST 694 Meas													11.55	1.89	0.75	0.014	0.35	44.24	0.89	0.57	0.119	30.17		
NIST 694 Cert													11.2	1.80	0.790	0.0116	0.330	43.6	0.860	0.510	0.110	30.2		
DNC-1 Meas													47.32	18.62	9.94	0.147	10.03	11.15	1.90	0.23	0.469	0.07		
DNC-1 Cert													47.15	18.34	9.97	0.150	10.13	11.49	1.890	0.234	0.480	0.070		
GBW 07113 Meas													71.41	12.79	3.20	0.140	0.14	0.56	2.41	5.41	0.283	0.06		
GBW 07113 Cert													72.8	13.0	3.21	0.140	0.160	0.590	2.57	5.43	0.300	0.0500		
LKSD-3 Meas																								
LKSD-3 Cert																								
TDB-1 Meas																								
TDB-1 Cert																								
W-2a Meas													52.72	15.66	10.86	0.167	6.27	10.77	2.19	0.63	1.077	0.15		
W-2a Cert													52.4	15.4	10.7	0.163	6.37	10.9	2.14	0.626	1.06	0.130		
CDN-PGMS-9 Meas	1130	805	2810																					
CDN-PGMS-9 Cert	1040	710	2600																					
DTS-2b Meas																								
DTS-2b Cert																								
SY-4 Meas													50.15	20.57	6.02	0.107	0.50	7.85	7.05	1.70	0.282	0.15		
SY-4 Cert													49.9	20.69	6.21	0.108	0.54	8.05	7.10	1.66	0.287	0.131		
AMIS 0013 (Ni) Meas						1380		10400	4430	437														
AMIS 0013 (Ni) Cert						1430.000		10970.00	4980.00	490.00														
CTA-AC-1 Meas																								
CTA-AC-1 Cert																								
BIR-1a Meas													47.86	15.43	11.25	0.171	9.51	13.15	1.78	0.02	0.979	0.03		
BIR-1a Cert													47.96	15.50	11.30	0.175	9.700	13.30	1.82	0.030	0.96	0.021		
NCS DC86312 Meas																								
NCS DC86312 Cert																								
ZW-C Meas																								
ZW-C Cert																								
NCS DC70014 Meas																								
NCS DC70014 Cert																								
NCS DC70009 (GBW07241) Meas																								
NCS DC70009 (GBW07241) Cert																								
OREAS 100a (Fusion) Meas																								
OREAS 100a (Fusion) Cert																								
OREAS 101a (Fusion) Meas																								
OREAS 101a (Fusion) Cert																								
JR-1 Meas																								
JR-1 Cert																								
OREAS 13b (Ni-S Fire Assay) Meas					19.5		41.0																	
OREAS 13b (Ni-S Fire Assay) Cert					17.9		43																	
11RAYAZ126A2 Orig	< 1	7.8	7.3																					
11RAYAZ126A2 Dup	< 1	8.0	7.4																					
11RAYAZ310A2 Orig				< 2	2.0	22	1.6	29	< 2	< 0.5	< 5	15.04												
11RAYAZ310A2 Dup				< 2	3.4	23	1.2	26	< 2	< 0.5	< 5	15.25												
Method Blank																								
Method Blank	< 1	< 0.1	< 0.1																					
Method Blank				< 2	< 0.1	< 5	< 0.2	< 5	< 2	< 0.5	< 5	10.00												

Quality Control

Analyte Symbol	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	La
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	5	20	1	20	10	30	1	0.5	5	1	2	0.5	1	0.2	2	0.5	0.1	1	0.2	0.1	3	0.05
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS
NIST 694 Meas			1676																					
NIST 694 Cert			1740																					
DNC-1 Meas	31		158	270	58	260	100						147	17.6	34						1.0		107	
DNC-1 Cert	31		148.0	270.000	57.0	247.000	100.0						144.0	18.0	38						0.96		118	
GBW 07113 Meas	5	4	< 5										42										499	
GBW 07113 Cert	5.00	4.00	5.00										43.0										506	
LKSD-3 Meas				80	30	50	30				24	72		28.4			< 2	1.0		2	1.4	2.3		49.0
LKSD-3 Cert				87.0	30.0	47.0	35.0				27.0	78.0		30.0			2.00	2.70		3.00	1.30	2.30		52.0
TDB-1 Meas															156									
TDB-1 Cert															156									
W-2a Meas	35	< 1	276	80	45	70	110	70	16		< 5	19	199	22.5	92	7.2	< 2	< 0.5			0.8	0.9	174	10.3
W-2a Cert	36.0	1.30	262	92.0	43.0	70.0	110	80.0	17.0		1.20	21.0	190	24.0	94.0	7.90	0.600	0.0460			0.790	0.990	182	10.0
CDN-PGMS-9 Meas																								
CDN-PGMS-9 Cert																								
DTS-2b Meas				> 10000	124	3500																		
DTS-2b Cert				15500	120	3780																		
SY-4 Meas	< 1	3	10										1187		546								350	
SY-4 Cert	1.1	2.6	8.0										1191		517								340	
AMIS 0013 (Ni) Meas																								
AMIS 0013 (Ni) Cert																								
CTA-AC-1 Meas							50	< 30						291										> 2000
CTA-AC-1 Cert							54.0	38.0						272										2176
BIR-1a Meas	44	< 1	338	380	53	160	120		15				110	16.2		0.6					0.5		7	
BIR-1a Cert	44	0.58	310	370	52	170	125		16				110	16		0.6					0.58		6	
NCS DC86312 Meas														972										> 2000
NCS DC86312 Cert														976.00										2360.000
ZW-C Meas								1070	99							205								
ZW-C Cert								1050	99							198								
NCS DC70014 Meas					25	70	2610	7400	25					32.1			> 100	16.8			180			45.6
NCS DC70014 Cert					26.2	70.9	2600.00	7400.00	25.2					32.1			270	16.7			180.000			45.3
NCS DC70009 (GBW07241) Meas				30	3	< 20	940	100	16	11.2	72	505		139				3.0	1.3	> 1000	4.1	43.5		24.9
NCS DC70009 (GBW07241) Cert				30	3.7	2.8	960.000	100.000	16.5	11.2	69.9	500.00		128				1.8	1.3	1701.000	3.1	41		23.7
OREAS 100a (Fusion) Meas					16		160							135			22							248
OREAS 100a (Fusion) Cert					18.1		169							142			24.1							260
OREAS 101a (Fusion) Meas					48		400							180			20							795
OREAS 101a (Fusion) Cert					48.8		434							183			21.9							816
JR-1 Meas				< 20	< 1	< 20	< 10	< 30	17		13	258		45.4	98	15.0	3	< 0.5	< 0.1	3	1.2	21.0		21.3
JR-1 Cert				2.83	0.83	1.67	2.68	30.6	16.1		16.3	257		45.1	99.9	15.2	3.25	0.031	0.028	2.86	1.19	20.8		19.7
OREAS 13b (Ni-S Fire Assay) Meas																								
OREAS 13b (Ni-S Fire Assay) Cert																								
11RAYAZ126A2 Orig																								
11RAYAZ126A2 Dup																								
11RAYAZ310A2 Orig																								
11RAYAZ310A2 Dup																								
Method Blank				< 20	< 1	< 20	< 10	< 30	< 1	< 0.5	< 5	< 1		< 0.5	< 1	< 0.2	< 2	< 0.5	< 0.1	< 1	< 0.2	< 0.1		< 0.05
Method Blank																								
Method Blank																								

Quality Control

Analyte Symbol	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Bi	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.01	0.05	0.01	0.005	0.01	0.01	0.01	0.01	0.01	0.005	0.01	0.002	0.1	0.01	0.5	0.05	5	0.1	0.05	0.01
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas																					
NIST 694 Cert																					
DNC-1 Meas			4.99		0.573							1.92									
DNC-1 Cert			5.20		0.59							2.0									
GBW 07113 Meas																					
GBW 07113 Cert																					
LKSD-3 Meas	94.0		42.9	7.82	1.36			4.58				2.65	0.400		0.67	0.7					4.54
LKSD-3 Cert	90.0		44.0	8.00	1.50			4.90				2.70	0.400		0.700	2.00					4.60
TDB-1 Meas																					
TDB-1 Cert																					
W-2a Meas	22.8		12.0	3.03	1.03		0.61	3.59	0.76			2.03	0.329	2.4	0.45	< 0.5		9	< 0.1	2.47	0.52
W-2a Cert	23.0		13.0	3.30	1.00		0.630	3.60	0.760			2.10	0.330	2.60	0.500	0.300		9.30	0.0300	2.40	0.530
CDN-PGMS-9 Meas																					
CDN-PGMS-9 Cert																					
DTS-2b Meas																					
DTS-2b Cert																					
SY-4 Meas																					
SY-4 Cert																					
AMIS 0013 (Ni) Meas																					
AMIS 0013 (Ni) Cert																					
CTA-AC-1 Meas	> 3000		1100	163	44.2	132	14.7					10.7	1.08	1.4	2.75					23.2	4.15
CTA-AC-1 Cert	3326		1087	162	46.7	124	13.9					11.4	1.08	1.13	2.65					21.8	4.4
BIR-1a Meas	2.06		2.29	1.09	0.518	1.79						1.69	0.275	0.6				< 5			
BIR-1a Cert	1.9		2.5	1.1	0.55	2.0						1.7	0.3	0.60				3			
NCS DC86312 Meas	191		1580			225	34.3	181	35.8	96.6		86.8	12.1							25.7	
NCS DC86312 Cert	190.000		1600.000			225.0	34.6	183.00	35.70	96.2		87.79	11.96							23.6	
ZW-C Meas														9.8	83.7	324	34.0	79			
ZW-C Cert														9.7	82	320	34	80			
NCS DC70014 Meas	90.1	9.87	37.9	7.69	1.69	7.53	1.18	6.36	1.31	3.53	0.519	3.46	0.511					> 10000	80.3		
NCS DC70014 Cert	87.0	10.8	39.9	8.0	1.8	7.4	1.1	6.7	1.3	3.5	0.57	3.3	0.50					27200.00	80.3		
NCS DC70009 (GBW07241) Meas	63.4	7.79	31.9	12.5		14.1	3.14	19.8	4.12	12.5	2.09	15.6	2.23			2200				30.1	
NCS DC70009 (GBW07241) Cert	60.3	7.9	32.9	12.5		14.8	3.3	20.7	4.5	13.4	2.2	14.9	2.4			2200.00				28.3	
OREAS 100a (Fusion) Meas	453			21.3					4.51			13.5								47.9	129
OREAS 100a (Fusion) Cert	463			23.6					4.81			14.9								51.6	135
OREAS 101a (Fusion) Meas	1370	124	382	48.6	7.88	39.3	5.47		6.28	18.2	2.61	17.1								35.8	424
OREAS 101a (Fusion) Cert	1396	134	403	48.8	8.06	43.4	5.92		6.46	19.5	2.90	17.5								36.6	422
JR-1 Meas	51.7	5.99	23.6	5.90		5.53	1.06	6.16			0.641	4.86	0.720	4.3	1.90		1.55	18		28.9	9.58
JR-1 Cert	47.2	5.58	23.3	6.03		5.06	1.01	5.69			0.67	4.55	0.71	4.51	1.86		1.56	19.3		26.7	8.88
OREAS 13b (Ni-S Fire Assay) Meas																					
OREAS 13b (Ni-S Fire Assay) Cert																					
11RAYAZ126A2 Orig																					
11RAYAZ126A2 Dup																					
11RAYAZ310A2 Orig																					
11RAYAZ310A2 Dup																					
Method Blank	< 0.05	< 0.01	< 0.05	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.002	< 0.1	< 0.01	< 0.5	< 0.05	< 5	< 0.1	< 0.05	< 0.01
Method Blank																					
Method Blank																					