ASSESSMENT REPORT on

ROCK GEOCHEMISTRY

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SB PROPERTY

Lewis Creek Area Fort Steele Mining Division

TRIM 82G.082 & 083 5519000N 600800E

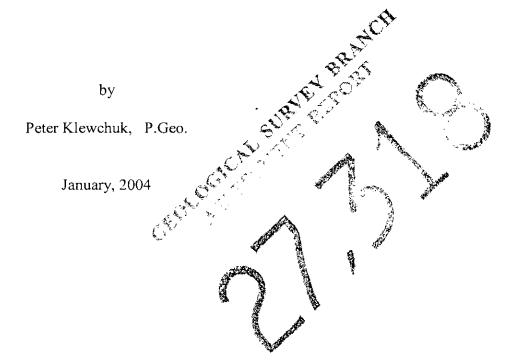


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1.00 INTRODUCTION

1.10 Location and Access

The SB claims are located in southeastern British Columbia in the Fort Steele Mining Division along the lower western edge of the Rocky Mountains, on the eastern edge of the Rocky Mountain Trench approximately 30 km northeast of Kimberley and about 2 km southeast of Lazy Lake, within the drainage of Lewis Creek. The property is centered approximately at UTM coordinates 55190000N, 600800E (Fig. 1).

Access is by road east of Wasa Lake, along the Lazy Lake and Lewis Creek roads.

1.20 Property

The SB property includes the SB 1 to SB 10 mineral claims, a contiguous block of 10 2-post claim units (Fig.2). The claims are registered in the name of Sean J Kennedy of Kimberley, B.C.

1.30 Physiography

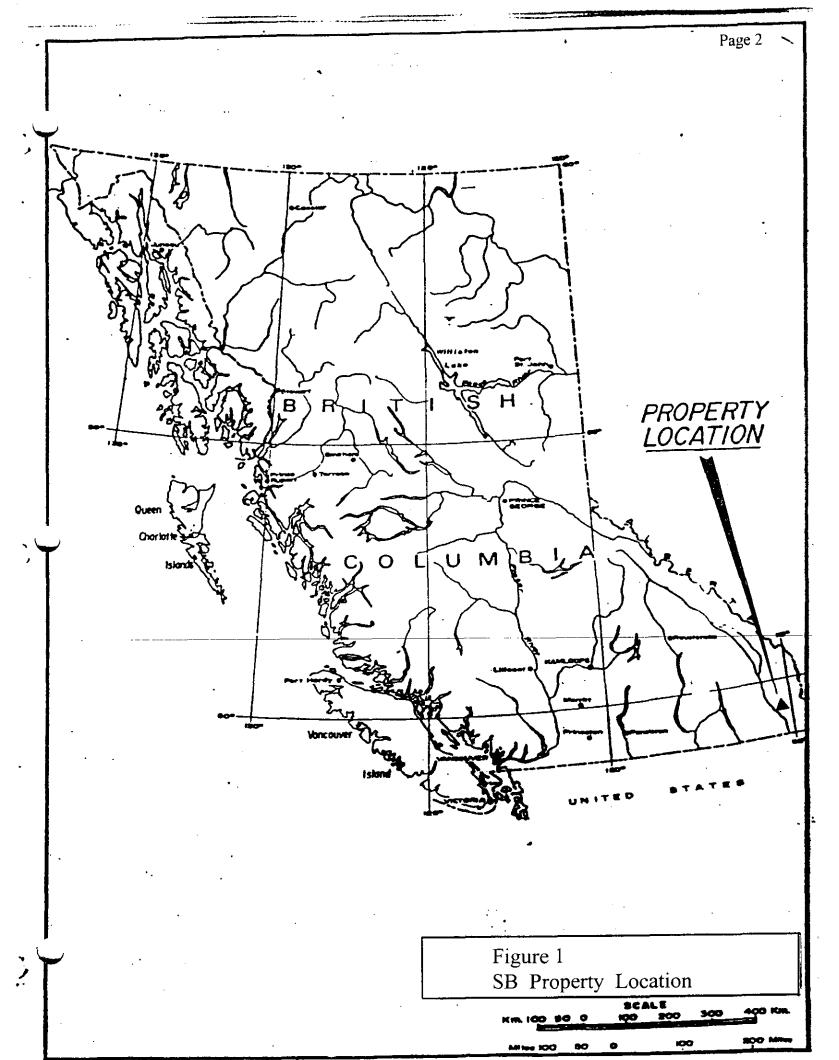
The SB property is situated on the immediate east side of the Rocky Mountain Trench, on the westernmost flank of the Hughes Range of the Rocky Mountains. The claims cover moderately steep wooded slopes within the lower to mid-slope portions of the Lewis Creek drainage, with elevations ranging from 1080 to 1600 meters. Forest cover includes Douglas Fir, Western Larch and Lodgepole pine.

1.40 History

In 1990 Cominco Ltd. conducted an airborne geophysics program over a large block of claims in the Estella - Kootenay King area (A.R. 20,175) which included the area of the present SB claims. In 1990 Cominco Ltd. conducted a ground UTEM geophysics program over what is now the SB claims and detected EM conductors (Jackish, 1990, A.R. 20,554). Also in 1990 they drilled 2 holes on what are now the SB claims, to test one of the anomalies (Schultze, 1990, A.R. 20,841).

1.50 Scope of Present Program

In 2003, as part of a larger program of gold exploration in the western-most Rocky Mountains including the area near the SB claims, Chapleau Resources Ltd. acquired the drill core from Cominco's 2 diamond drill holes on what are now the SB claims. Chapleau logged and analyzed parts of the drill core. The rock geochemistry of 40 drill core samples is reported on here.



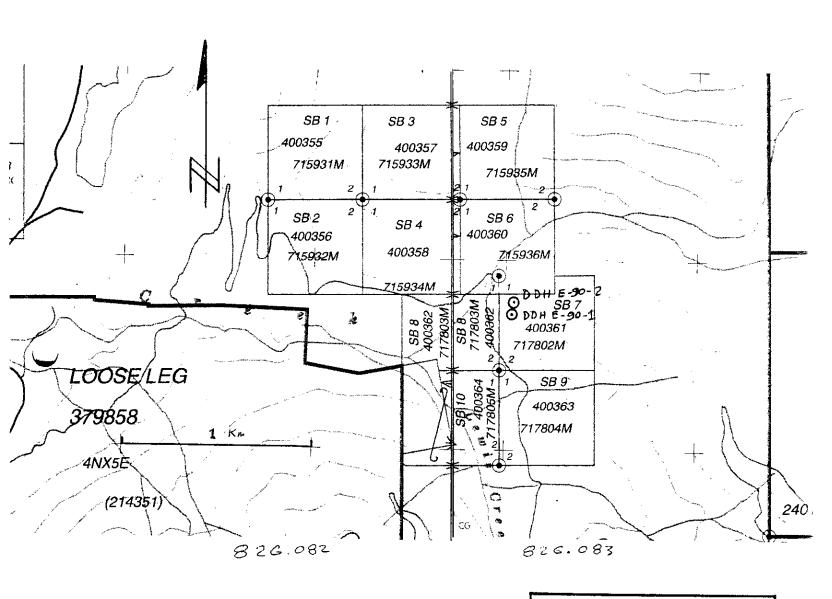


Figure 2 SB Claim Map Showing Location Of DDH E-90-1 & E-90-2 TRIM 82G.082 & 083 Scale 1:20,000

2.00 GEOLOGY

The SB property occurs on the east side of the Rocky Mountain Trench, within the Fernie (West Half) map sheet (Leech, 1960) and is also included in BCMEMPR Preliminary Map 36 by Trygve Hoy: Geology of the Estella - Kootenay King Area, Hughes Range, Southeastern British Columbia (1979).

According to Hoy, the SB claim area is underlain by lower units of the Aldridge Formation and the Fort Steele Formation (see Hoy, 1979).

3.00 ROCK GEOCHEMISTRY

In 2003, drill core from Cominco's drill holes E-90-1 and E-90-2 on what are now the SB claims, was acquired, logged and sampled by Chapleau Resources Ltd. Drill core was logged by Gary Dyck and sawn and sampled by Jason Frame, both employees of Chapleau Resources Ltd. Samples were shipped to ALS Chemex at 212 Brooksbank Avenue, North Vancouver, B.C. and analyzed for gold and a 34 element ICP package. Forty samples were collected from the two drill holes; 17 samples from DDH E-90-1 and 23 samples from DDH E-90-2. DDH E-90-1 was drilled entirely in an altered gabbro or diorite, interpreted by Cominco Ltd. to be a dike (Schultze, 1990). The lithologic unit sampled in DDH E-90-2 appears to be Hoy's (1979) A1c unit, a dark gray to black, finely laminated to massive, pyritic, graphitic mudstone.

4.00 RESULTS

Diamond drill logs and sample intervals, as provided by Chapleau Resources Ltd., are provided in Appendix 1. Complete geochemical analyses are provided in Appendix 2.

Only one sample had a gold value higher than the 5ppb detection level. This is from a 0.46 m sample interval of the altered gabbro or diorite in DDH E-90-1 which included a 7 cm wide pyrite and chalcopyrite -bearing quartz vein and a 12 cm wide quartz-pyrite vein with a central core of massive pyrite. A 3.97 m interval of the altered gabbro / diorite in DDH E-90-1, from 14.17 m to 18.14 m contains anomalous copper with values up to 0.36%. Anomalous zinc, up to 379 ppm, is associated with the elevated copper.

Only weak copper values are present in the analyses of core from DDH E-90-2, with values up to 269 ppm.

5.00 REFERENCES

- Hoy, T., 1979, Geology of the Estella-Kootenay King area, Hughes Range, southeastern British Columbia; BCMEMPR, Preliminary Map 36, and Notes to accompany Preliminary Map 36.
- Jackish, I., 1990, Geophysical report on the Estella property, Fort Steele Mining Division, MEMPR A.R. 20,554.
- Leech, G.B., 1960, Geology, Fernie (West Half), Kootenay District, British Columbia, Geol. Surv. Canada Map 11-1960.
- Schultze, H.C.,1990, Diamond Drilling Report, Estella property, Lewis 22 and TC2 mineral claims, Fort Steele Mining Division, B.C., MEMPR A.R. 20,841

6.00 STATEMENT OF COSTS

Moving core, logging	core, cutting c	ore	
Gary Dyck	1 day @	\$321.00 / day	\$321.00
Jason Frame	1 day @	\$187.25 / day	187.25
Geochemical analyses	@ \$21.74 / sample	869.45	
Freight			43.00
Report			
P. Klewchuk	2 days @	\$321.00 / day	642.00
Report costs			27.30
		Total cost	\$2090.00

7.00 AUTHOR'S QUALIFICATIONS

As author of this report I, Peter Klewchuk, certify that:

- 1. I am an independent consulting geologist with offices at 246 Moyie Street, Kimberley, B.C.
- 2. I am a graduate geologist with a B.Sc. degree (1969) from the University of British Columbia and an M.Sc. degree (1972) from the University of Calgary.
- 3. I am a Fellow of the Geological Association of Canada and a member of the Association of Professional Engineers and Geoscientists of British Columbia.
- 4. I have been actively involved in mining and exploration geology, primarily in the province of British Columbia, for the past 26 years.
- 5. I have been employed by major mining companies and provincial government geological departments.

Dated at Kimberley, British Columbia, this 26th day of January, 2004.

Peter Klewchuk P. Geo.

DDH E-90-1

0-4.88m	Overburden
4.88-5.49m	Altered diorite? Gabbro? Med-strong alteration. Carbonatized, mafics altered to
	chlorite. Weak-mod hematite alteration. Numerous quartz veins, up to 30 cm, at
	~45-50° to c/a (core axis). Minor fine pyrite dissem in diorite, <<1%.
5.49-7.92m	Numerous QV - minor fracture filling Fe oxides and carbonates.
7.92-14.17m	Very blocky, broken core, poor recovery, some smaller QV.
14.17-14.78	Large quartz vein, minor altered intrusive. Strong carbonate alt, mod Fe alt.
	Azurite and malachite common on fracture planes.
14.78-17.68	Quite blocky, locally lower recovery, mostly before 16.15m, mod strong Fe alt,
	minor mal, az along fractures. At 15.4m, Fe oxide gravel over ~5 cm - minor QV.
17.68-18.14	~7 cm QV @17.68 with py and some cpy. At 17.9m ~12 cm qtz-py vein - center
	is massive pyrite, edges are altered quartz.
18.14-22.1	Less Fe alt, more competent core. At 18.6m 15 cm qtz-carb vein, strong alt, 1-3%
	pyrite as coarse grains. Common QV to \sim 5 cm thick, most at \sim 60° to c/a.
23.1-22.86	Several irregular qtz-carb veins.
24.86-25.3m	Several qtz-carb veins, mod Fe alt, QV to 10 cm.
25.91-26.82	Several irregular qtz-carb veins to ~ 5 cm.
27.13-28.05	Large qtz-carb vein, weak Fe.
28.05-29.11	Less altered, several qtz-carbonate veins.

Sample Intervals, DDH E-90-1

Sample interval (m)	Length(m)	Sample number	Recovery
5.49-6.71	1.22	M170855	90%
6.71-8.38	1.67	M170586	100%
8.38-9.75	1.37	M170587	60%
13.56-14.17	0.61	M170858	90%
14.17-14.78	0.61	M170859	95%
14.78-15.7	0.92	M170860	80%
15.7-16.46	0.76	M170861	95%
16.46-17.68	1.22	M170862	95%
17.68-18.14	0.46	M170863	
18.14-19.2	1.06	M170864	
20.17-21.0	0.83	M170865	100%
22.1-22.86	0.76	M170866	90%
24.84-25.3	0.46	M170867	90%
25.3-25.91	0.61	M170868	100%
25.91-26.82	0.91	M170869	95%
26.82-28.1	1.28	M170870	100%
28.1-29.1	1.00	M170871	90%

DDH E-90-2 Page 8

21.85-27.13m Argillite. Black, finely bedded, locally broken, bedding @ ~70° to c/a (core axis). 23.78-24.2 strong Fe alt + qtz-carb veins.

- 27.13-33.23m Intrusive? Strong alteration, Fe, phyllic alt. Locally siliceous with quartz carb veining. 27.13-30.5 very poor recovery, ~30 %.
- 33.23-44.90m Argillite. Similar to above. Strong alteration, + qtz veining over lower 35 cm above contact.
- 44.90-58.33m Seds? Med gray, well bedded, laminations cut by numerous quartz-carb veins. Some dissem py and py 'veinlets' ~2-5%.
- 58.33-58.7m Quartz-carbonate vein ~30% carb, minor Fe. Some black shaley material graphite?
- 58.7-61.98m Shale. Dark black, well laminated.

Sample Intervals DDH E-90-2

Sample interval (m)	Length(m)	Sample number	Recovery
23.78-24.20	0.42	M170872	90%
30.50-30.79	0.29	M170873	90%
30.79-31.18	0.39	M170874	90%
31.18-31.8	0.62	M170875	95%
31.8-32.60	0.80	M170876	100%
32.60-33.23	0.63	M170877	90%
33.23-34.10	0.87	M170878	95%
44.55-45.00	0.45	M170879	
45.00-45.60	0.60	M170880	
45.60-46.45	0.85	M170881	
46.45-47.26	0.81	M170882	
47.26-47.86	0.60	M170883	
47.86-48.78	0.92	M170884	
48.78-49.39	0.61	M170885	
49.39-50.30	0.91	M170886	
50.30-50.70	0.40	M170887	
50.70-51.52	0.82	M170888	
51.52-52.52	1.00	M170889	
52.52-53.52	1.00	M170890	
53.52-53.96	0.44	M170891	
53.96-54.88	0.92	M170892	
54.88-55.50	0.62	M170893	
55.50-56.20	0.70	M170894	
56.20-57.73	0.53	M170895	
57.73-58.33	0.60	M170896	
58.33-58.70	0.37	M170897	



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Page #: 1 Date: 11-Aug-2003

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COMINCO/ESTELLA

CERTIFICATE VA03028924

Project: Cranbrook Gold

P.O. No:

This report is for 80 DRILL CORE samples submitted to our lab in North Vancouver, BC, Canada on 2-Aug-2003.

The following have access to data associated with this certificate: ROBIN SUDO

SAMPLE PREPARATION									
ALS CODE	DESCRIPTION	_							
WEI-21	Received Sample Weight								
LOG-22	Sample login - Rcd w/o BarCode								
CRU-31	Fine crushing - 70% <2mm								
SPL-21	Split sample - riffle splitter								
PUL-32	Pulverize 1000g to 85% < 75 um								

	ANALYTICAL PROCEDUR	ES
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: CHAPLEAU RESOURCES **ATTN: ROBIN SUDO** 104-135 10TH AVE S **CRANBROOK BC V1C 2N1**

Appendix Diamond drill Core Geochemical Analyses 2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 6.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
M170851	<10	<1	0,19	10	3.29	467	11	<0.01	33	700	115	1.76	<2	3	92
M170852	<10	<1	0.15	10	3.11	572	9	0.01	32	660	51	0.65	<2	3	120
M170853	<10	<1	0.09	10	2.98	737	5	0.01	23	280	608	0.20	2	2	138
M170854	<10	<1	0.14	10	3.00	588	12	0.01	49 '	1200	39	1.36	<2	2	129
M170855	10	<1	0.09	10	1.20	1390	1	0.01	18	370	6	0.01	2	7	116
M170856	 10	<1	0.08	10	2.27	1260	<1	<0.01	30	570	5	0.03	<2	11	76
M170857	10	<1	0.09	10	2.38	1485	1	0.01	40	610	7	0.01	<2	16	70
M170858	20	<1	0.10	10	2.56	1365	< 1	0.01	43	820	26	0.11	<2	22	66
M170859	10	<1	0.04	10	1.39	1525	2	0.01	43	270	6	0.01	2	9	98
M170860	20	<1	0.11	10	2.74	1265	<1	0.01	74	680	15	0.03	2	22	40
M170861	 20	<1	0.10	10	3.03	1565	<1	0.01	65	680	6	0.03	<2	25	40
M170862	10	<1	0.07	10	2.19	985	2	< 0.01	108	520	10	0.13	<2	20	51
M170863	10	<1	0.04	10	2.44	1710	<1	< 0.01	184	550	6	4.30	<2	28	92
M170864	20	<1	0.06	10	2.88	1350	<1	0.01	42	590	4	0.03	<2	25	91
M170865	10	<1	0.06	10	3.42	1525	1	0.01	45	610	3	0.11	<2	20	36
M170866	10	<1	0.10	10	3.60	1470	<1	0.01	47	580	4	0.03	<2	18	31
M170867	10	<1	0.11	10	3.15	1700	3	0.01	49	610	<2	0.03	<2	18	44
M170868	20	<1	0.10	10	3.42	1160	<1	0.01	49	670	3	0.02	<2	20	50
M170869	10	<1	0.06	10	2.24	1200	<1	0.01	37	550	6	0.02	<2	17	88
M170870	10	<1	0.04	10	1.25	1505	<1	0.01	18	340	5	0.02	<2	14	154
M170871	10	<1	0.03	10	2.31	1455	<1	0.01	33	530	4	0.02	2	22	129
M170872	10	<1	0.03	20	3.50	277	5	0.01	19	1030	28	0.05	3	7	41
M170873	10	<1	0.28	10	4.87	739	1	0.01	54	840	20	0.70	<2	10	12
M170874	<10	<1	0.26	10	1.39	1080	1	0.01	68	660	50	7,61	<u>-</u> 2	8	14
M170875	<10	<1	0.22	10	3.92	2520	1	0.01	21	410	7	0.85	<2	9	128
M170876	 <10	1	0.16	10	4.40	2940	1	0.01	14	430	7	0.02	2	11	147
M170877	<10	<1	0.10	10	5.39	2290	1	0.01	10	210	5	<0.01	<2	3	170
M170878	<10	<1	0.16	10	3.52	1465	3	0.01	17	370	5	0.02	2	2	128
M170879	10	<1	0.24	10	2.98	831	2	< 0.01	25	970	4	0.18	<2	7	34
M170880	10	<1	0.17	10	3.23	1590	<1	0.01	41	760	3	0.35	<2	18	131
M170881	10	<1	0.23	10	3,83	1060	<1	0.01	22	1510	3	0.23	<2	10	25
M170882	10	<1	0.24	<10	2.98	753	<1	<0.01	24	1380	5	0.23	2	7	25 17
M170883	10	<1	0.28	10	2.66	952	<1	<0.01	22	1290	7	0.97	<2	7	88
M170884	10	<1	0.18	10	3.31	1315	<1	< 0.01	23	970	8	1.29	<2	11	112
M170885	20	<1	0.22	10	4.80	531	<1	<0.01	25	1340	5	0.73	<2	10	21
M170886	 10	<1	0.21	<10	2.98	270	2	0.01	36	920	13	1.92	<2	7	9
M170887	10	<1	0.30	<10	2.97	264	1	0.01	50 51	780	7	2.21	5	7	4
M170888	10	<1	0.17	<10	4.09	1605	< 1	0.01	34	780	<2	1.22	4	8	31
M170889	10						· ·	0.01				1.44	**	0	ا د
	1 10	<1	0.19	<10	3.22	609	1	< 0.01	47	920	6	2.02	6	8	9



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									CEF	RTIFICA	TE OF A	NALYS	is \	/A03028	3924	
Method Analyte Units Sample Description LoR	Analyte Units	WEI-21 Recvd Wt kg 0.02	Au-AA24 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 AI % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 9.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
M170851		1,74	<0.005	0.2	0.43	20	<10	30	<0.5	<2	5.59	0.6	8	14	57	2.15
M170852		2.60	<0.005	<0.2	0.82	8	<10	20	<0.5	2	4.63	<0.5	6	59	16	1.94
M170853 M170854		0.82 2.90	<0.005	1.4	0.26	5	<10	20	<0.5	3.	5.63	<0.5	2	193	12	2.01
M170855		1.76	<0.005 <0.005	<0.2 0.2	0.58 1.95	20 24	<10 <10	20 20	<0.5 <0.5	2 <2	5.27 8.96	0.6 <0.5	12 16	59 95	60 36	2.63 4.54
M170856	 	2.74	<0.005	<0.2	3.34	45	<10	20	<0.5	3	5.96	0.6	26	49	53	7.24
M170857		1.66	<0.005	0.2	4.21	56	<10	20	< 0.5	<2	6.46	<0.5	26	60	129	9.16
M170858		1.30	<0.005	0.4	4.76	50	<10	30	<0.5	3	5.19	1.2	44	46	346	10.05
M170659		1.58	<0.005	<0.2	2.56	23	<10	20	<0.5	<2	7.85	4.7	46	113	3620	5.19
M170860		1.14	<0.005	0.5	5.07	40	<10	30	<0.5	2	3.10	2.0	46	74	3090	11.15
M170861		0.98	<0.005	<0.2	5.40	39	<10	20	<0.5	3	4.24	1.1	34	69	557	11.90
M170862		2.16	< 0.005	0.8	4.24	53	<10	20	<0.5	4	3.40	1.2	36	81	1525	13.95
M170863 M170864		3.04	0.007	1.5	4.96	52	<10	10	<0.5	3	6.73	1.3	127	50	3030	>15
M170865		2.06 2.76	<0.005 <0.005	<0.2 <0.2	4.54 4.39	41 53	<10 <10	20 20	<0.5 <0.5	4 4	6.27 4.63	0.5 0.8	25 40	64 48	101 179	9.16 9.65
M170866		2.16	<0.005	<0.2	4.36	54	<10	30	<0.5	3	4.35	0.7	34	68	126	9.41
M170867		0.78	< 0.005	<0.2	4.62	52	<10	30	< 0.5	5	5.26	0.5	34	88	93	10.25
M170868		1.34	<0.005	<0.2	4.78	48	<10	20	<0.5	4	4.03	0.5	38	90	75	9.62
M170869		1.68	< 0.005	<0.2	3.69	59	<10	20	<0.5	3	6.20	0.6	32	101	131	7.31
M170870		2.48	<0.005	0.6	2.07	47	<10	10	<0.5	3	14.25	0.5	12	57	69	4.10
M170871		1.70	< 0.005	0.2	3.82	46	<10	10	< 0.5	4	8.94	0.8	29	91	49	7.67
M170872		0.66	< 0.005	0.2	3.15	55	<10	10	<0.5	4	2.11	0.7	9	106	269	10.75
M170873		0.32	<0.005	0.2	5.41	84	<10	50	0.5	3	1.00	0.5	29	78	152	9.89
M170874		0.58	0.006	0.3	1.96	102	<10	40	<0.5	3	1.44	1.9	75	98	204	>15
M170875		0.88	<0.005	0.2	1.02	29	<10	30	<0.5	3	11.20	0.5	17	31	64	7.45
M170876 M170877		1.36	<0.005	0.4	0.77	24	<10	20	<0.5	2	13.80	< 0.5	9	22	44	6.82
M170877		1.20	<0.005 <0.005	0.4 <0.2	0.29 0.43	14 17	<10 <10	10	<0.5	3 2	14.25	<0.5	2	52	10	4.89
M170879		0.78	<0.005	<0.2	3.32	11	<10	20 40	<0.5 <0.5	3	8.82 2.82	<0.5	4	30	23	3.07
M170880		0.82	<0.005	<0.2	3.87	36	<10	30	<0.5	√2	2.02 8.16	0.5 0.7	18 34	89 57	56 41	6.04 7.49
M170881		1.46	<0.005	<0.2	3.75	31	<10	40	<0.5	4	3.23	0.7	23	64	15	6.54
M170882		1.52	< 0.005	<0.2	2.95	23	<10	40	< 0.5	2	2.16	0.7	28	63	172	5.59
M170883		1.30	<0.005	<0.2	3.03	16	<10	40	< 0.5	2	5.38	0.8	20	33	53	4.63
M170884		0.88	<0.005	0.4	3.82	25	<10	30	< 0.5	3	9.86	0.6	24	69	63	6.27
M170885		0.94	<0.005	<0.2	5.80	14	<10	40	<0.5	3	1.10	0.7	22	55	50	7.82
M170886		1.02	<0.005	<0.2	3.44	24	<10	40	<0.5	<2	0.22	1.1	33	73	91	7.55
M170887 M170888		0.36	0.005	< 0.2	4.03	19	<10	50	<0.5	<2	0.15	<0.5	47	84	112	7.23
M170888 M170889		1.44	<0.005 <0.005	<0.2	4.07	14	<10	30	<0.5	2	4.50	<0.5	35	52	87	7.53
M170890		1.26	<0.005 <0.005	<0.2 <0.2	4.41 4.43	19 2 2	<10	30	<0.5	2	0.69	<0.5	44	48	124	8.71
W 11 0090		1.20	<0.005	<u.z< td=""><td>4.43</td><td>. 22</td><td><10</td><td>30</td><td><0.5</td><td>2</td><td>1.14</td><td><0.5</td><td>52</td><td>53</td><td>152</td><td>9.22</td></u.z<>	4.43	. 22	<10	30	<0.5	2	1.14	<0.5	52	53	152	9.22



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								CERTIFICATE OF ANALYSIS VA03028924
Sample Description	Method Analyte Units LOR	ME-ICP41 TI % 0.01	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	
M170851		<0.01	<10	<10	9	<10	84	
M170852		< 0.01	<10	<10	17	<10	59	
M170853		<0.01	<10	<10	11	<10	39	•
M170854		<0.01	<10	<10	17	<10	64	·
M170855		<0.01	<10	<10	96	<10	81	
M170856		0.01	<10	<10	183	<10	120	
M170857		0.01	10	<10	244	<10	116	
M170858		0.01	10	<10	247	<10	160	
M170859		<0.01	<10	<10	93	<10	379	
M170860		0.01	<10	<10	267	<10	259	
M170861		0.01	10	<10	302	<10	178	
M170862		0.01	10	<10	281	<10	166	
M170863		0.01	<10	<10	248	<10	146	
M170864		0.01	<10	<10	288	<10	113	
M170865		0.01	<10	<10	252	<10	97	
M170866		0.01	<10	<10	232	<10	92	
M170867		0.01	10	<10	230	<10	96	
M170868		0.01	<10	<10	229	<10	116	
M170869		0.01	<10	<10	198	<10	110	
M170870		<0.01	<10	<10	110	<10	60	
M170871		0.01	<10	<10	213	<10	97	
M170872		0.01	10	<10	133	<10	97	
M170873		0.01	10	<10	186	<10	138	
M170874		<0.01	10	<10	79	<10	50	
M170875		<0.01	10	<10	48	<10	23	
M170876		<0.01	<10	<10	53	<10	31	
M170877		<0.01	<10	<10	10	<10	20	
M170878		<0.01	<10	<10	9	<10	24	
M170879		<0.01	<10	<10	110	<10	98	
M170880		0.01	<10	<10	156	<10	109	
M170881		0.01	<10	<10	146	<10	99	
M170882		<0.01	<10	<10	119	<10	78	
M170883		<0.01	<10	<10	99	<10	76	
M170884		<0.01	<10	<10	131	<10	104	
M170885		0.01	<10	<10	208	<10	158	
M170886		<0.01	<10	<10	129	<10	94	
M170887		0.01	<10	<10	134	<10	91	
M170888		<0.01	<10	<10	128	<10	84	
M170889		<0.01	<10	<10	152	<10	100	
M170890		0.01	<10	<10	152	<10	101	



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								CERTIFICATE OF ANALYSIS VA03028924							3924	
Anal Uni	Method Analyte Units LOR	WE1-21 Recvd Wt kg 0.02	Au-AA24 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 AI % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
M170891		1.18	<0.005	<0.2	5.12	10	<10	30	<0.5	<2	0.61	<0.5	46	57	134	9.60
M170892	•	1.64	< 0.005	<0.2	5.19	16	<10	30	<0.5	2	1.46	<0.5	46	53	123	9.42
M170893		1.14	< 0.005	<0.2	4.32	12	<10	30	<0.5	<2	3.37	<0.5	42	77	113	8.75
M170894		1.36	< 0.005	<0.2	4.01	9	<10	30	<0.5	2 .	2.86	<0.5	46	51	150	8.61
M170895		1.08	< 0.005	<0.2	4.02	11	<10	30	<0.5	<2	4.18	<0.5	47	47	186	8.63
M170896		0.88	<0.005	<0.2	2.14	13	<10	20	<0.5	2	12.55	0.5	43	45	139	7,21
M170897		1.02	< 0.005	<0.2	0.75	<2	<10	10	< 0.5	2	6.10	0.6	6	182	54	3.25
M170898		0.82	<0.005	<0.2	0.33	9	<10	30	< 0.5	2	1.32	1.3	11	3	34	2.87
M170899		1.54	0.023	<0.2	0.47	6	<10	30	0.5	<2	0.49	1.1	14	3	27	2.54
M170900		0.58	<0.005	<0.2	0.45	9	<10	50	<0.5	2	0.92	0.6	10	4	23	2.96
M170951		0.44	<0.005	<0.2	0.58	22	<10	30	<0.5	<2	4.34	<0.5	29	26	51	6.77
M170952		0.42	<0.005	<0.2	0.71	2	<10	30	< 0.5	<2	0.32	0.5	5	9	8	2.33
M170953		1.66	<0.005	0.4	0.73	6	<10	40	<0.5	<2	0.82	<0.5	8	7	24	2.48
M170954		1.58	<0.005	<0.2	0.27	41	<10	20	<0.5	3	9.13	0.5	14	2	32	3.22
M170955		1.08	<0.005	0.5	0.36	9	<10	20	<0.5	4	1.86	8.0	25	5	251	4.76
M170956		1.10	<0.005	<0.2	0.55	14	<10	20	<0.5	5	1.85	0.8	34	5	116	5.29
M170957		2.34	< 0.005	2.0	0.36	4	<10	20	<0.5	7	2.14	0.9	8	6	37	2.11
M170958		0.84	<0.005	<0.2	0.33	4	<10	10	< 0.5	5	7.08	8.0	11	6	176	3.75
M170959		2.60	<0.005	<0.2	0.33	6	<10	20	<0.5	3	1.64	8.0	28	6	232	3.43
M170960		1.78	<0.005	0.9	0.26	3	<10	20	<0.5	4	1.14	1.4	17	7	93	1.76
M170961		0.96	<0.005	<0.2	0.41	49	<10	20	<0.5	4	3.02	0.6	41	177	198	4.92
M170962		2.34	<0.005	<0.2	0.31	<2	10	10	<0.5	<2	3.32	0.9	6	177	66	2.42
M170963		0.58	0.005	<0.2	0.27	22	20	10	<0.5	2	3.35	8.0	31	154	214	7.28
M170964		0.96	< 0.005	<0.2	0.28	15	<10	20	<0.5	2	6.20	0.7	21	56	64	5.36
M170965		0.80	<0.005	<0.2	0.49	4	<10	10	0.5	4	7.24	1.0	10	113	106	4.26
M170966		1.14	<0.005	<0.2	0.30	4	<10	10	<0.5	3	5.89	<0.5	5	140	31	2.28
M170967		1.40	<0.005	<0.2	0.10	<2	<10	10	<0.5	3	10.25	< 0.5	5	69	24	3.06
M170968		1.00	< 0.005	<0.2	0.09	<2	<10	10	<0.5	2	6.94	<0.5	3	109	14	2.37
M170969 M170970		1.00	<0.005	<0.2	0.13	<2	<10	10	<0.5	<2	4.02	<0.5	5	122	42	1.76
		0.92	<0.005	<0.2	0.33	3	<10	20	<0.5	<2	2.66	<0.5	1	63	21	1.28
M170971 M170972		1.40	< 0.005	1.3	0.20	<2	<10	30	<0.5	4	3.40	<0.5	2	66	67	1.43
M170972 M170973		1.18	<0.005	1.6	0.19	122	<10	10	<0.5	5	3.44	0.9	75	60	186	7.72
M170973 M170974		0.92	<0.005	<0.2	0.17	8	<10	10	<0.5	2	5.67	0.5	27	83	134	3.54
M170974 M170975		0.40	< 0.005	<0.2	0.29	<2	<10	20	<0.5	<2	5.20	<0.5	2	58	28	1.73
		1.66	<0.005	<0.2	0.22	6	<10	20	<0.5	3	6.54	0.6	7	48	61	2.34
M170976 M170977		1.90	<0.005	<0.2	0.12	3	<10	10	<0.5	3	7.71	0.8	2	110	25	2.63
M170977 M170978		0.80	< 0.005	<0.2	0.25	24	<10	20	<0.5	<2	1.20	1.5	11	85	100	3.43
M170978 M170979		0.66	<0.005	<0.2	0.27	4	<10	20	<0.5	2	1.90	2.3	12	112	89	2.09
M170979 M170980		1.52 2.14	<0.005 <0.005	<0.2	0.33	<2	<10	20	<0.5	2	9.21	<0.5	3	32	15	1.52
11111000		Z. 14	<0.005	<0.2	0.30	<2	<10	10	<0.5	4	10.85	<0.5	4	26	20	1,61



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CERTIFICATE OF	ANALYSIS	VA03028924	

	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	s	\$b	Sc	Sr
Sample Description	Units LOR	ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
M170891		10	<1	0.14	<10	3.10	566	<1	0.01	41	780	4	1.92	5	10	10
M170892		10	<1	0.16	<10	3.13	673	1	< 0.01	42	860	<2	1.74	6	10	20
M170893		10	<1	0.14	<10	2.79	1080	<1	0.01	38	670	8	1.94	3	8	58
M170894		10	<1	0.14	<10	2.66	696	<1	< 0.01	40 '	760	7	2.54	4	8	36
M170895		10	<1	0.17	<10	2.69	699	<1	< 0.01	42	730	8	4.20	<2	8	59
M170896		10	<1	0.14	<10	1.56	3150	1	0.01	30	530	9	2.04	4	6	107
M170897		<10	<1	0.03	<10	2.86	1305	2	< 0.01	23	310	5	0.05	<2	4	87
M170898		<10	<1	0.20	10	0.64	736	2	0.01	28	480	17	1.00	<2	2	33
M170899		<10	<1	0.17	10	0.24	618	2	0.02	46	480	12	0.91	<2	3	18
M170900		<10	<1	0.26	10	0.96	284	2	0.03	22	420	7	0.90	<2	2	26
M170951		<10	<1	0.22	20	2.94	1230	1	0.07	74	2290	<2	0.36	3	10	139
M170952		<10	<1	0.15	20	0.65	112	2	0.05	14	480	6	0.12	<2	2	13
M170953		<10	<1	0.18	10	1.10	245	1	0.02	23	450	10	0.77	<2	2	21
M170954		<10	<1	0.12	<10	4.84	797	5	< 0.01	38	390	194	2.56	2	2	136
M170955	,	<10	<1	0.16	<10	1.07	391	11	<0.01	60	630	170	4.20	3	1	68
M170956		<10	<1	0.23	<10	1.19	451	10	0.01	58	920	96	4.70	3	2	73
M170957		<10	<1	0.17	10	1.39	279	7	0.01	30	1160	477	1.18	<2	2	91
M170958		<10	<1	0.11	<10	3.44	2020	5	0.01	25	440	164	1.06	2	3	205
M170959		<10	<1	0.17	10	0.89	384	9	0.01	59	730	71	2.65	<2	1	56
M170960		<10	<1	0.16	10	0.66	190	9	0.01	31	750	313	1.11	<2	. 1	52
M170961		<10	<1	0.17	<10	1.63	597	17	0.01	122	1020	93	4.24	<2	2	140
M170962		<10	<1	0.10	<10	2.13	676	17	<0.01	27	790	164	0.88	<2	2	142
M170963		<10	<1	0.14	<10	2.87	910	13	<0.01	88	1390	25	5.14	4	3	95
M170964 M170965		<10	<1	0.17	<10	3.92	1255	15	< 0.01	54	1020	39	2.13	3	4	296
		<10	<1	0.14	<10	4.07	1580	14	0.01	50	920	124	1.90	2	5	339
M170966		<10	<1	0.06	<10	3.22	1190	6	< 0.01	28	360	114	0.59	<2	1	384
M170967		<10	<1	0.07	<10	4.95	1650	2	< 0.01	26	210	162	0.53	<2	2	251
M170968		<10	<1	0.07	10	3.53	1145	4	0.01	18	350	110	0.28	<2	2	156
M170969		<10	<1	0.07	<10	2.13	688	5	<0.01	24	410	198	0.35	<2	1	98
M170970		<10	<1	0.15	10	1.61	469	14	<0.01	24	1020	72	0.15	<2	1	84
M170971		<10	<1	0.13	10	1,84	623	11	<0.01	23	830	715	0.21	2	1	91
M170972		<10	<1	0.11	<10	1.69	532	12	<0.01	110	630	2070	7.99	3	1	91
M170973		<10	<1	0.11	<10	2.86	876	6	< 0.01	99	420	424	2.84	2	2	184
M170974		<10	<1	0.19	10	2.88	783	10	< 0.01	27	600	58	0.64	<2	3	157
M170975		<10	<1	0.14	10	3.39	971	10	<0.01	46	700	89	1.64	<2	2	201
M170976		<10	<1	0.08	<10	3.76	1355	6	0.01	33	450	68	0.89	<2	2	221
M170977		<10	<1	0.15	10	0.87	245	16	<0.01	82	700	143	3.44	3	1	66
M170978 M170979		<10	<1	0.12	10	1,15	410	12	0.01	52	1040	215	1.84	3	2	152
M170979 M170980		<10	<1	0.17	10	4.99	2560	1	0.01	13	790	64	0.14	<2	2	123
M1110900		<10	<1	0.20	10	5.66	3330	<1	0.01	14	580	198	0.04	<2	2	112



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								CERTIFICATE OF ANALYSIS VA03028924
Sample Description	Method Analyte Units LOR	ME-ICP41 Ti % 0.01	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	
M170891		0.01	<10	<10	191	<10	111	
M170892	-	0.01	. <10	<10	178	<10	110	
М170893		0.01	<10	<10	147	<10	93	•
M170894		0.01	<10	<10	142	10	85	·
M170895		0.01	<10	<10	138	10	79	
M170896		<0.01	<10	<10	65	<10	55	
M170897		<0.01	<10	<10	17	<10	37	
M170898		<0.01	<10	<10	3	<10 <10	77	
M170899 M170900		<0.01 <0.01	<10 <10	<10 <10	3 5	<10	84 29	
.								
M170951		<0.01	<10	<10	21 7	<10	77	
M170952 M170953		<0.01 <0.01	<10 <10	<10 <10	, 6	<10 <10	42 37	
M170954		<0.01	<10 <10	<10	4	<10	67	
M170955		<0.01	<10	<10	11	<10	23	
						<10	14	
M170956 M170957		<0.01 <0.01	<10 <10	<10 <10	18 9	<10	79	
M170958		<0.01	<10	<10	7	<10	93	
M170959		<0.01	<10	<10	10	<10	13	
M170960		<0.01	<10	<10	7	<10	178	
M170961		<0.01	<10	<10	11	<10	54	
M170962		<0.01	<10	<10	8	<10	109	
M170963		<0.01	<10	<10	8	10	55	
M170964		<0.01	<10	<10	13	<10	69	
M170965		<0.01	<10	<10	14	<10	113	
M170966		<0.01	<10	<10	9	<10	16	
M170967		<0.01	<10	<10	3	10	22	
M170968		<0.01	<10	<10	3	<10	19	
M170969		<0.01	<10	<10	5	<10	20	
M170970		<0.01	<10	<10	12	<10	11	
M170971		<0.01	<10	<10	6	<10	25	
M170972		<0.01	<10	<10	6	<10	11	
M170973		<0.01	<10	<10	6	10	14	
M170974		<0.01	<10	<10	9	10	10	
M170975		<0.01	<10	<10	6	10	14	
M170976		<0.01	<10	<10	4	<10	99	-
M170977		<0.01	<10	<10	9	<10	110	
M170978		<0.01	<10	<10	7	<10	236	
M170979		<0.01	<10	<10	3	10	29	
M170980		<0.01	<10	<10	3	10	25	