A Geochemical Report on the SPEC Property submitted as Representation Work on the following quartz claims

Claims:
SPEC 1-34; Grant Numbers YE71401-YE71434
Total 34 Quartz Claims in the Dawson Mining District
Owner: Gordon Richards

Location
NTS Map Sheet 115P03
Camp along Coldspring Creek at
UTM 351,270E, 7,000,540N, Elev 630 m
UTM, NAD 83, Zone 8

Field work performed by
Gordon Richards and Jeff Mieras
during the period June 21 to June 25, 2012

Report written by Gordon Richards
December 20, 2012

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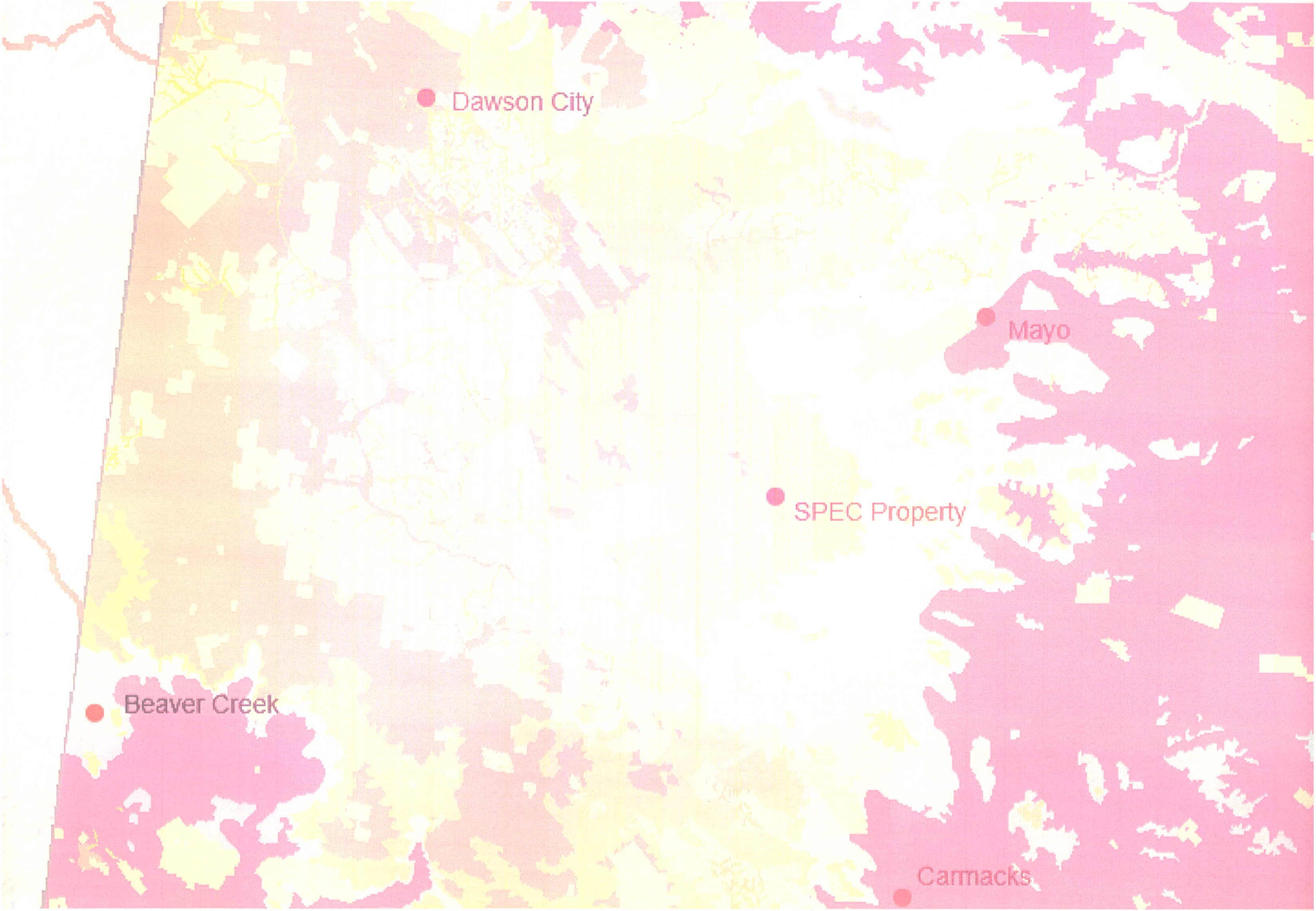
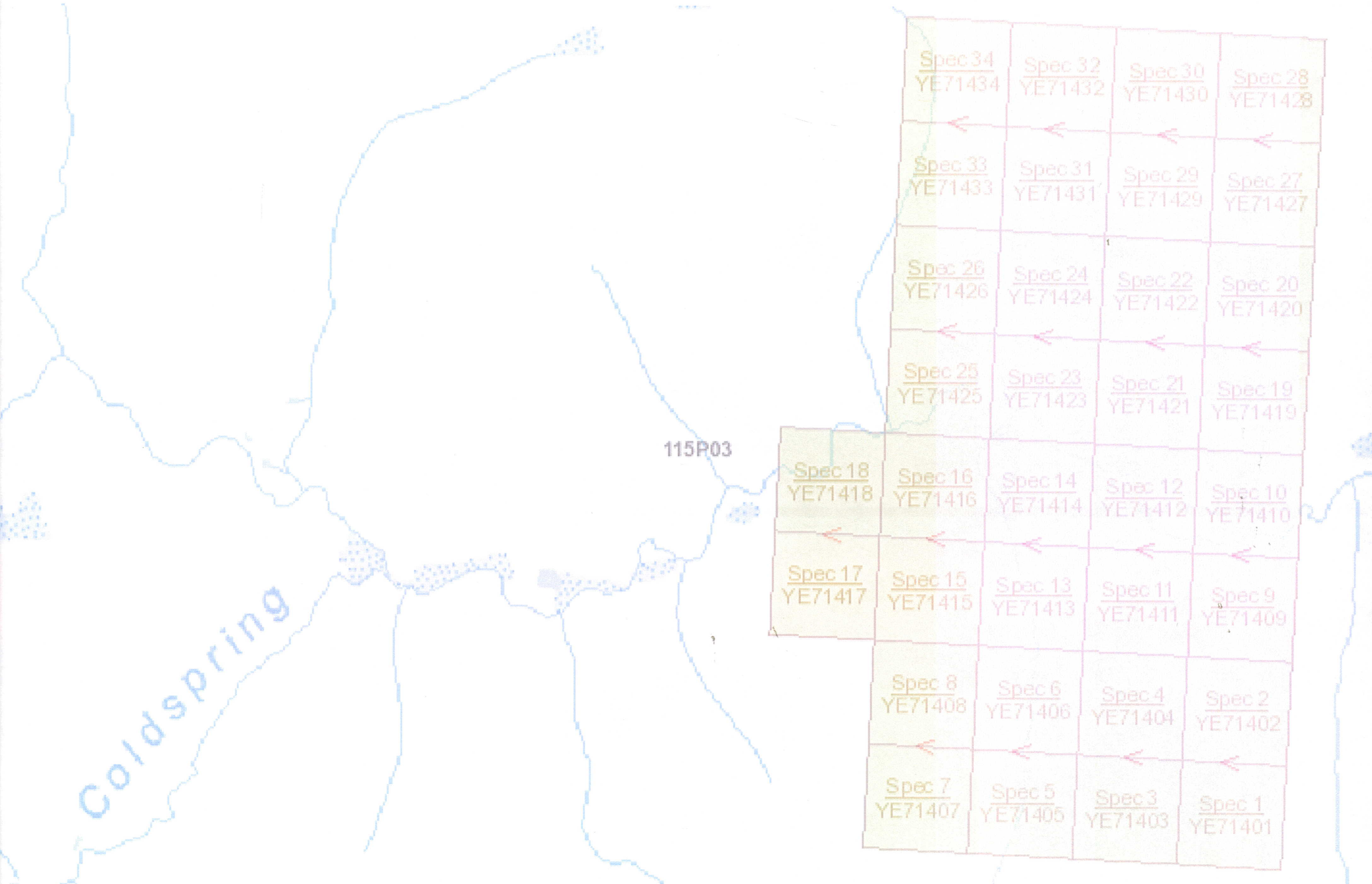

Dawson City
Mayo
SPEC Property
Beaver Creek
Carmacks


115P03
Coldspring
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YE71434
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Spec 30
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Spec 28
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Spec 3
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Spec 1
YE71401

Table 2. MMI Response Ratios for 28 Elements. SPEC Property 2012																												
	gold pathfinders									porphyry			alteration					mafic				rare earth elements						
ID	Ag	As	Au	Ba	Hg	Tl	Sb	Pb	Zn	Cu	Co	Mo	Fe	Mn	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
P192	3	12	2	1	2	3	6	3	1	2	3	2	7	2	1	1	5	1	1	2	232	7	6	7	7	7	6	6
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P198	1	8	2	1	1	1	4	3	1	3	10	2	5	22	2	3	5	2	2	3	151	8	8	8	8	7	6	5
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P200	1	14	2	1	2	4	8	3	1	2	5	3	10	13	1	2	7	1	1	2	339	6	6	5	5	4	3	3
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P250	3	6	2	1	1	3	4	3	2	2	2	1	7	1	1	3	6	1	1	1	175	2	3	2	4	2	2	2

ID	Ag	As	Au	Ba	Hg	Tl	Sb	Pb	Zn	Cu	Co	Mc	Fe	Mn	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
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M231	6	1	3	3	4	1	4	1	10	6	0	1	2	1	6	1	0	6	12	6	0	4	4	5	2	5	5	6

ID	Ag	As	Au	Ba	Hg	Tl	Sb	Pb	Zn	Cu	Co	Mc	Fe	Mn	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
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M260	2	4	2	2	1	1	2	2	9	4	6	1	9	6	3	1	2	3	9	2	23	4	4	4	7	4	5	6
M261	2	1	3	3	1	1	1	2	2	5	2	1	2	1	4	1	1	4	11	5	2	6	6	6	7	6	7	8
M262	1	1	1	1	1	1	1	2	3	1	10	1	9	1	1	2	6	2	3	1	13	0	0	1	3	1	2	2
M263	1	2	2	2	2	1	1	3	1	2	4	1	1	2	2	2	3	2	2	4	4	15	18	15	11	11	9	9
M264	0	10	0	1	1	1	6	2	20	0	3	6	9	18	1	5	7	1	1	0	162	1	1	0	1	0	0	0
M265	2	1	2	5	4	1	1	2	4	6	1	1	1	1	5	2	1	4	8	6	1	9	7	8	4	8	7	8
M266	3	14	3	2	1	3	8	4	4	2	2	2	9	2	1	3	9	1	1	2	291	10	12	8	5	6	5	5
M268	2	2	3	2	2	1	1	3	2	4	6	1	2	3	3	1	3	3	5	3	12	8	8	9	11	9	9	10
M269	5	1	2	3	1	1	2	3	16	5	1	1	6	5	4	1	3	2	19	3	5	3	3	4	6	4	5	5
M270	5	4	2	3	1	3	4	2	24	6	2	2	5	2	3	2	4	2	9	3	25	4	4	5	4	5	5	5
M271	3	1	1	1	1	1	1	1	5	1	4	1	9	3	2	6	4	2	4	1	23	1	1	1	2	2	2	2
M272	1	4	2	0	1	1	4	2	12	5	4	4	8	6	3	3	4	4	5	3	31	4	3	4	3	3	3	3
M273	5	1	2	2	2	1	4	1	7	4	1	1	2	3	6	3	1	6	8	3	0	2	2	2	1	2	3	3
M274	3	2	3	2	1	1	2	2	1	2	1	1	1	4	4	12	2	5	6	2	1	4	4	5	1	5	5	5
M275	2	4	3	2	1	1	2	4	1	2	3	1	2	1	3	3	3	3	4	2	22	12	12	9	4	8	7	8
M276	4	1	3	3	1	1	1	5	1	1	4	1	1	4	4	2	3	4	3	2	2	6	7	4	3	3	3	3
M277	2	2	2	3	1	1	1	5	1	1	7	1	1	6	3	3	4	3	3	2	12	13	15	9	5	6	6	6
M278	1	4	1	2	1	1	2	6	1	1	2	1	3	1	2	3	5	3	1	1	77	1	2	1	1	0	0	0

ID	Ag	As	Au	Ba	Hg	Tl	Sb	Pb	Zn	Cu	Co	Mc	Fe	Mn	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
M279	2	14	1	2	1	1	8	8	3	1	4	2	7	2	1	18	9	2	2	1	193	2	1	1	1	1	1	1
M280	2	2	0	1	1	1	1	5	1	0	2	4	2	2	4	12	5	2	1	0	7	0	0	0	0	0	0	0
M281	0	12	0	2	1	2	6	4	2	1	6	3	7	7	1	4	8	1	1	1	285	3	4	2	1	1	1	1
M282	3	4	2	3	1	1	1	2	3	1	3	1	2	6	2	4	2	3	1	1	21	8	9	6	1	4	3	3
M283	4	2	2	3	1	1	4	1	21	9	6	2	4	27	4	2	2	4	15	3	4	3	3	3	2	3	3	3
M284	2	2	1	2	1	1	2	3	1	2	2	1	5	3	3	5	6	2	2	1	50	1	1	1	2	1	1	1
M285	3	2	0	2	1	1	1	3	0	0	2	1	1	1	4	15	9	3	2	0	4	0	0	0	0	0	0	0
M286	2	1	1	1	1	1	1	2	1	1	4	2	1	9	4	16	3	4	2	1	1	0	0	0	0	0	0	0
M287	3	4	5	3	1	1	1	5	2	2	13	1	1	23	4	12	1	7	6	2	2	6	6	6	6	6	6	7
M288	4	2	1	2	2	1	4	1	2	2	4	1	1	16	3	4	2	2	7	2	2	3	4	5	1	5	4	4
M289	1	4	3	2	1	1	2	2	2	2	2	1	2	4	3	6	3	3	6	1	25	11	7	7	2	5	4	4
M290	2	2	2	1	1	1	1	4	1	1	2	3	1	3	3	34	7	4	1	1	15	1	1	1	1	1	1	1
M291	9	2	1	1	1	1	1	2	4	1	9	2	1	29	4	18	1	4	2	1	4	0	0	0	1	0	0	0
M292	4	1	2	2	4	1	1	2	3	1	1	1	0	3	3	17	0	8	3	1	5	1	1	1	0	1	2	1
M293	4	1	4	3	22	1	2	3	4	2	2	1	0	6	5	12	0	10	7	2	2	1	1	1	0	2	2	2
M294	4	1	4	3	2	1	2	3	1	2	4	1	1	14	5	14	1	12	5	4	3	1	1	1	0	1	1	1

Areas of Samples based on Mag Anomaly Number

P192	North Mag Anomaly #1
P207	Southeast Mag Anomaly #3
M224	Southwest Mag Anomaly #4
M273	Central Mag Anomaly #2

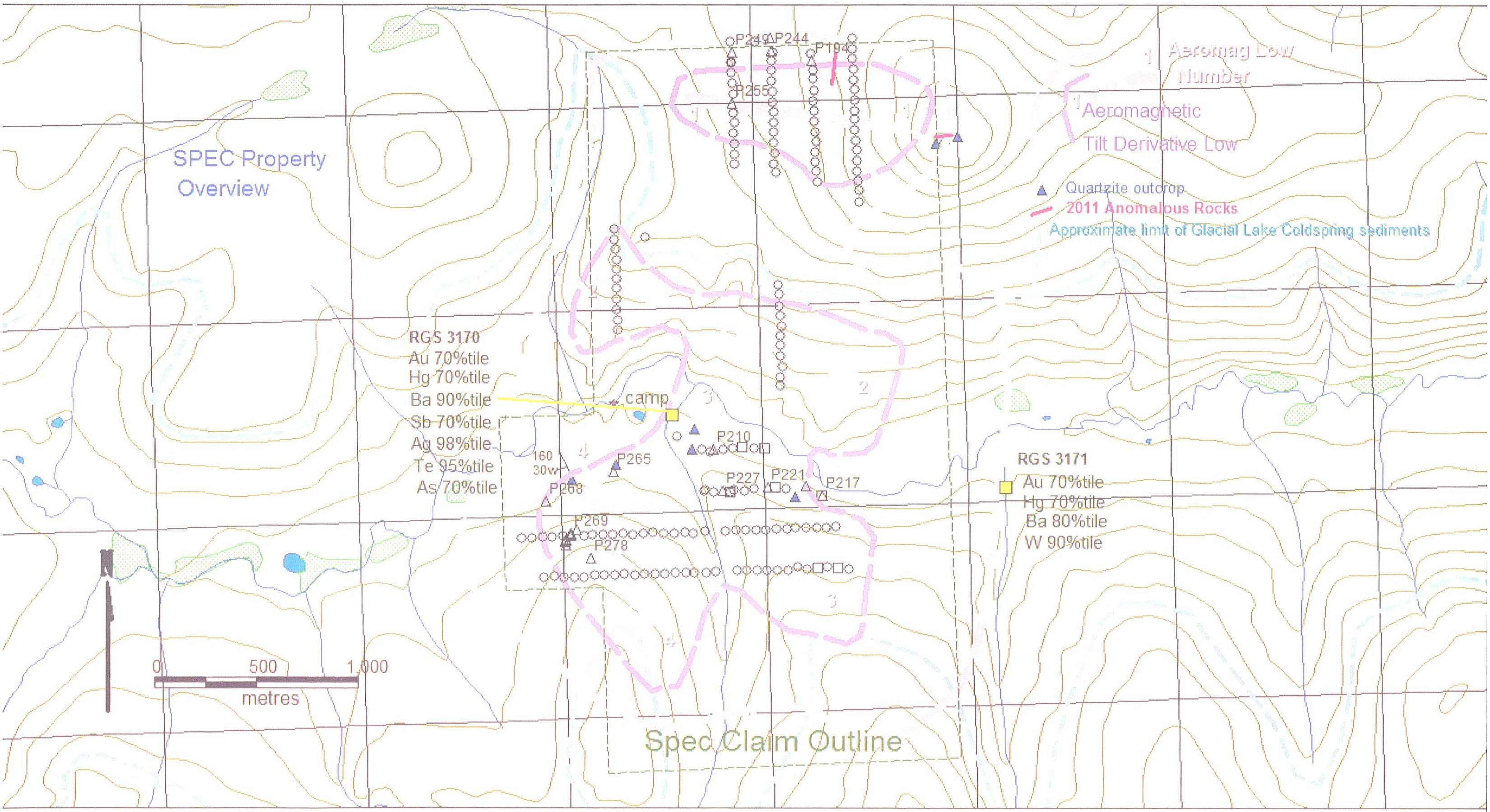
Table 3. Ah Response Ratios SPEC Property, 2012.

	gold pathfinders												porphyry				alteration						mafic					REE			
ID	Ag	As	Au	Ba	Hg	Sb	Bi	Te	Se	B	Pb	Zn	Cu	Co	Mo	Sn	Fe	Mn	S	Ca	Sr	K	Mg	Ni	Cr	U	Ti	Ce	La	Sc	Y
M213	2	2	4	1	1	2	4	1	2	2	1	2	1	1	1	8	2	2	2	2	2	1	2	1	1	1	3	1	1	2	2
M215	7	2	2	3	2	1	3	3	3	1	5	2	2	2	1	50	2	0	1	1	1	3	1	2	2	2	1	5	4	1	1
P213	1	3	2	2	1	2	2	1	2	1	2	2	1	3	1	5	2	5	1	1	1	1	2	1	2	1	4	3	2	4	2
P215	3	2	3	3	1	5	2	4	6	2	1	1	2	2	4	8	1	16	2	3	2	1	1	2	1	1	2	3	2	2	1
P216	3	2	3	2	2	4	2	2	3	3	1	3	1	2	2	2	2	6	2	2	2	1	1	2	1	1	2	2	2	2	1
P220	8	3	3	2	2	4	2	2	6	2	2	2	3	5	9	5	2	3	2	1	2	1	1	2	1	4	2	3	2	3	1
P226	5	2	2	4	1	2	3	3	8	2	1	7	2	1	1	3	2	2	2	4	1	1	2	4	3	9	3	2	2	3	2

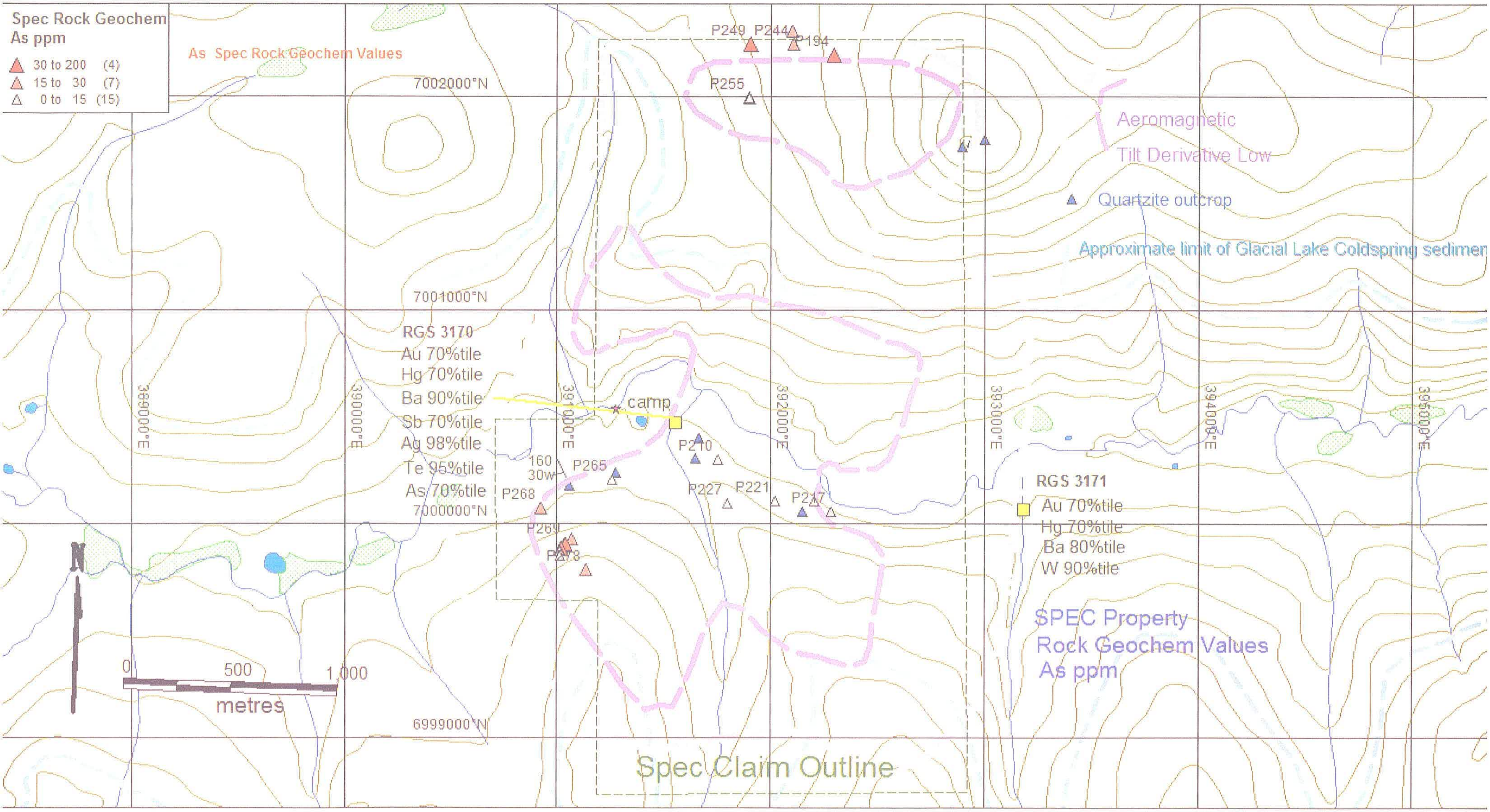
Table 4. Rock Sample Geochemical Results. Spec Property 2012.

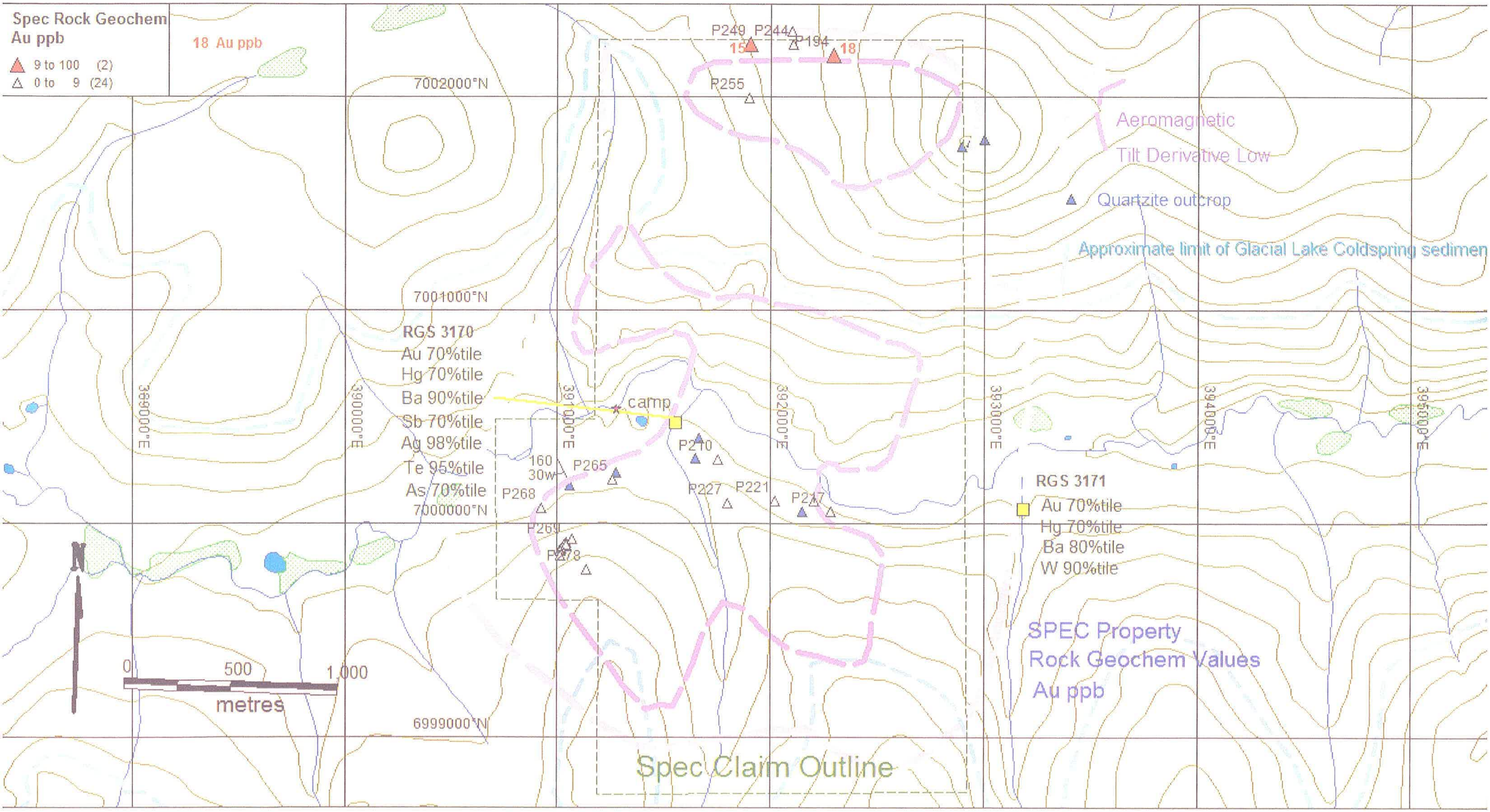
ID	Mo	Cu	Pb	Zn	Ag	Ni	As	Au	Sb	Bi	Ba	Ti	Hg	S
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPM	%	PPM	%
	0.1	0.1	0.1	1	0.1	0.1	0.5	0.5	0.1	0.1	1	0.001	0.01	0.05
P194	0.7	73.6	18.8	7	0.3	1.9	148.6	17.5	6.2	<0.1	58	0.002	0.1	<0.05
P210	39.4	66.6	3.8	355	0.5	112.4	1.2	3.7	1.2	0.1	251	0.003	0.09	<0.05
P217	2.7	49.9	4.5	74	2.4	18.1	6.1	3.6	2.7	<0.1	580	0.005	0.08	<0.05
P218	0.6	7.4	0.9	7	0.2	2.6	0.8	1.1	0.5	<0.1	86	<0.001	<0.01	<0.05
P221	7.9	63.6	8.1	228	0.6	47.2	5.4	4.6	2.3	0.2	266	0.002	0.03	0.05
P227	8.1	59.8	3.4	241	0.5	63.1	1.3	0.7	0.8	<0.1	609	0.078	0.02	<0.05
P244	0.7	57.3	3.3	8	<0.1	1.5	15	1.1	0.9	<0.1	182	<0.001	0.05	<0.05
P245	0.9	73.2	3.1	9	<0.1	1.2	19.6	1.1	1.5	<0.1	112	0.002	0.07	<0.05
P249	0.6	23.7	3.2	5	0.3	1.5	53.1	14.8	2.7	0.3	87	<0.001	0.01	<0.05
P255	0.3	22.3	4.7	6	0.1	1.5	14	0.8	2.3	<0.1	117	<0.001	<0.01	<0.05
P256	1.7	25.5	17.9	15	<0.1	1.7	17.6	1.3	2	<0.1	426	0.001	0.02	<0.05
P257	0.6	11	2.1	7	<0.1	2.5	10	2	0.8	<0.1	70	0.003	0.01	<0.05
P265	14	623.1	3.1	345	0.2	102.2	10	3.8	2.6	0.1	350	0.004	0.05	<0.05
P266	1.1	20.8	6.5	9	0.4	3.8	7	2.7	0.8	0.1	209	0.002	<0.01	<0.05
P267	4.9	76.6	1.2	70	0.2	27.5	9.4	4.1	3.2	<0.1	421	0.003	0.02	<0.05
P268	0.6	14	0.7	8	<0.1	6.2	20.5	0.7	0.5	<0.1	64	0.003	<0.01	<0.05
P269	0.4	9.3	1.4	10	<0.1	6.8	3	1.5	0.3	<0.1	61	0.002	<0.01	<0.05
P270	0.3	12.3	0.6	6	<0.1	6.7	2.7	1.8	0.7	<0.1	54	0.001	<0.01	<0.05
P271	0.4	24	1	21	0.1	10.1	21.7	1	0.4	<0.1	73	0.002	<0.01	<0.05
P272	4.7	112.3	8.6	146	0.7	98.8	20.1	4.6	1	0.2	551	0.001	0.05	<0.05
P273	0.4	37.6	4.1	10	<0.1	158.5	32.2	2.8	1.9	0.2	124	0.004	<0.01	<0.05
P274	1	77.8	32.4	20	0.2	75.9	54	1.7	6.4	0.2	148	0.002	<0.01	<0.05
P275	33.1	164.6	9.4	56	0.4	84.4	10.2	0.5	4.7	<0.1	241	0.003	0.03	<0.05
P276	0.4	12.6	1.5	8	<0.1	9.2	3.7	<0.5	0.6	<0.1	46	0.001	<0.01	<0.05
P277	0.6	17	3.5	11	<0.1	10.3	2.5	2.1	0.5	<0.1	54	0.003	<0.01	<0.05
P278	3.5	33.3	1.3	22	<0.1	21.3	15.1	2.5	1.8	<0.1	51	0.002	0.02	<0.05

(pink) southwest Mag Anomaly #4
(orange) north end of southwest Mag Anomaly #4
(yellow) north Mag Anomaly #1
(blue-grey) southeast Mag Anomaly #3

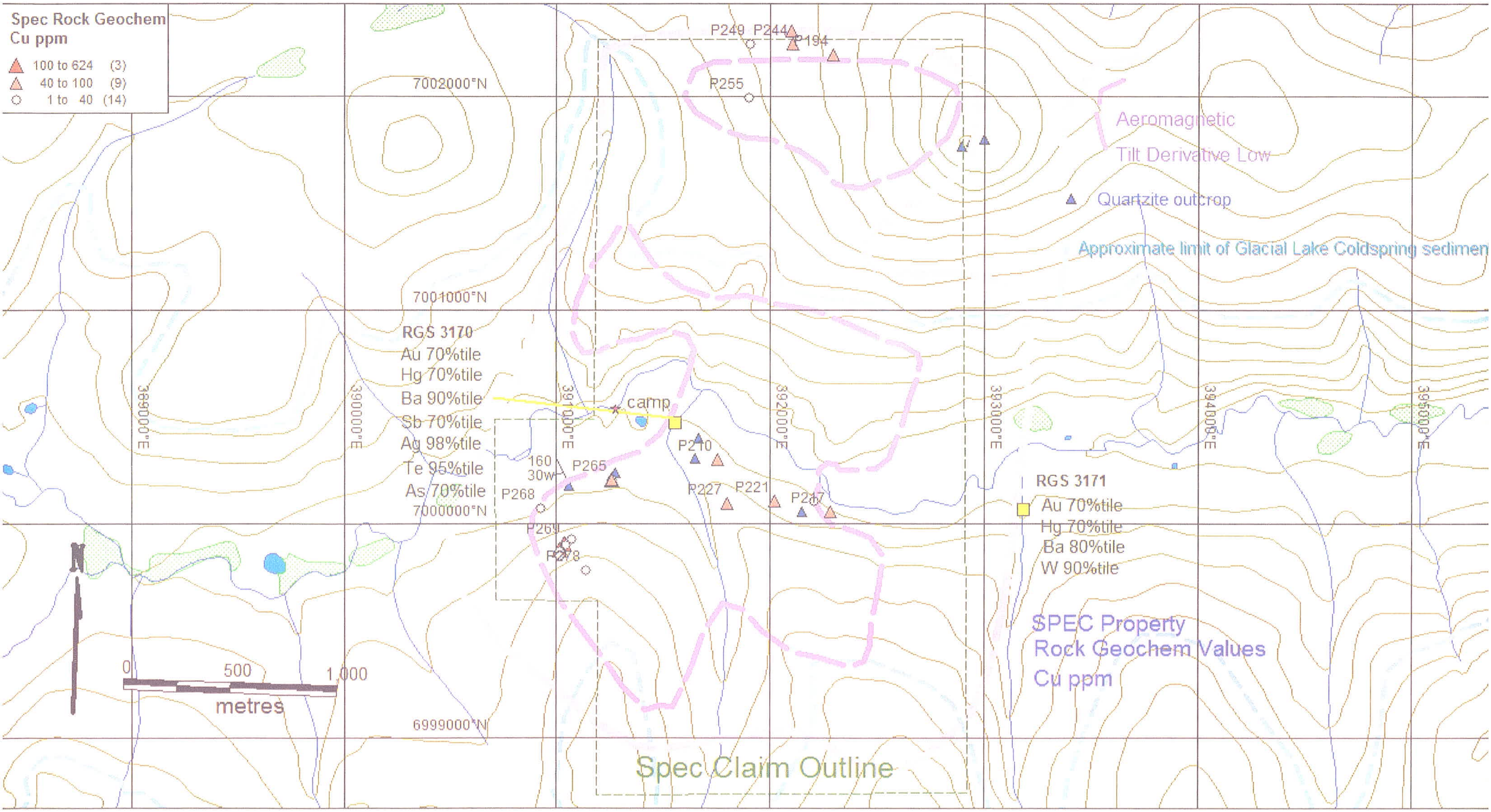


SPEC Property
Overview
Aeromag Low
Number
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
2011 Anomalous Rocks
Approximate limit of Glacial Lake Coldspring sediments
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
camp
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
P249
P244
P194
P255
P210
P265
P268
P227
P221
P217
P269
P278
160
30w
0
500
1,000
metres
Spec Claim Outline

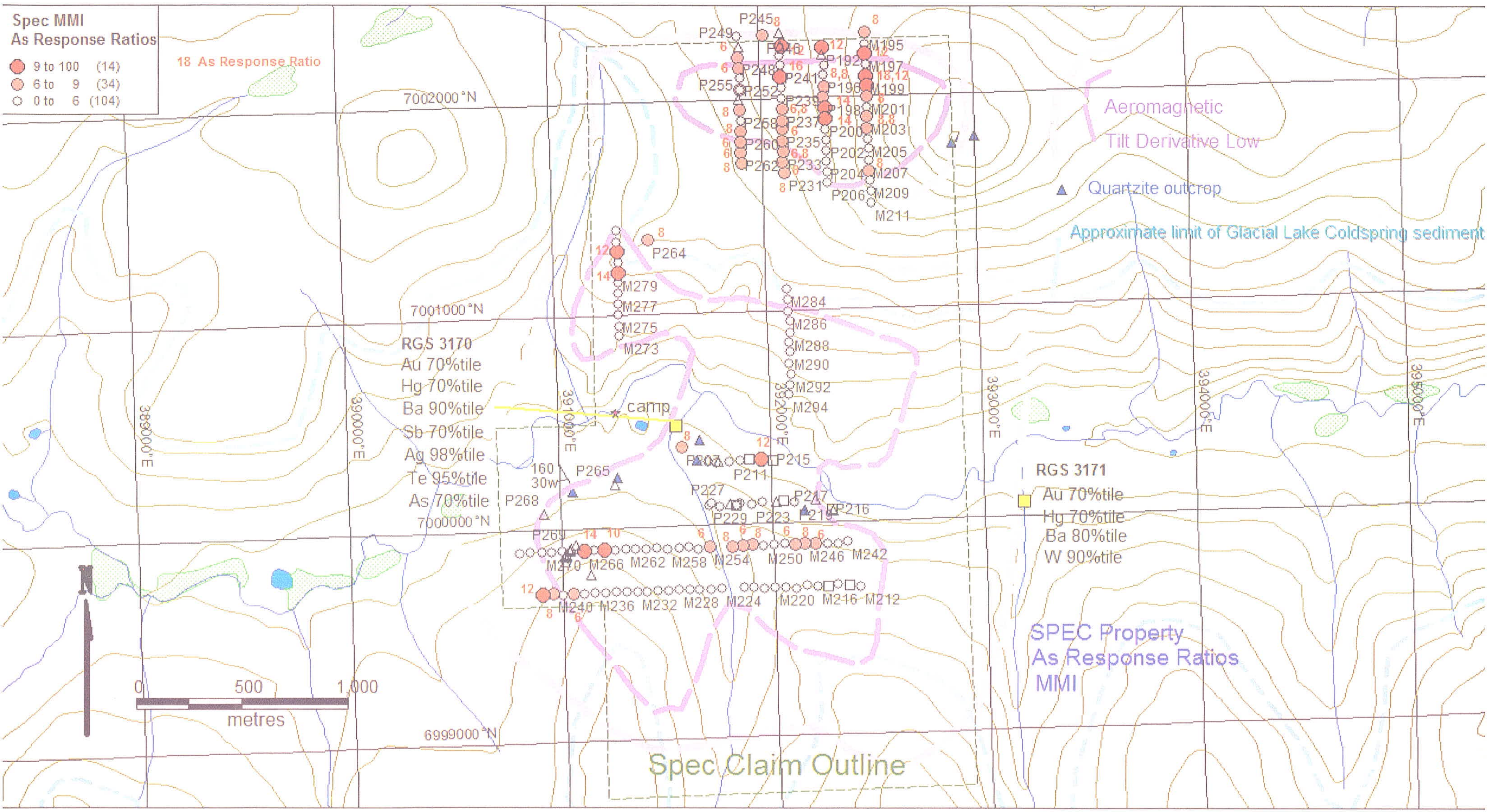

Spec Rock Geochem
As ppm
30 to 200 (4)
15 to 30 (7)
0 to 15 (15)
As Spec Rock Geochem Values
7002000°N
7001000°N
7000000°N
6999000°N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
P249
P244
P194
P255
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sedimen
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
camp
P210
160
30w
P265
P268
P227
P221
P217
P269
P278
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
SPEC Property
Rock Geochem Values
As ppm
N
0
500
1,000
metres
Spec Claim Outline

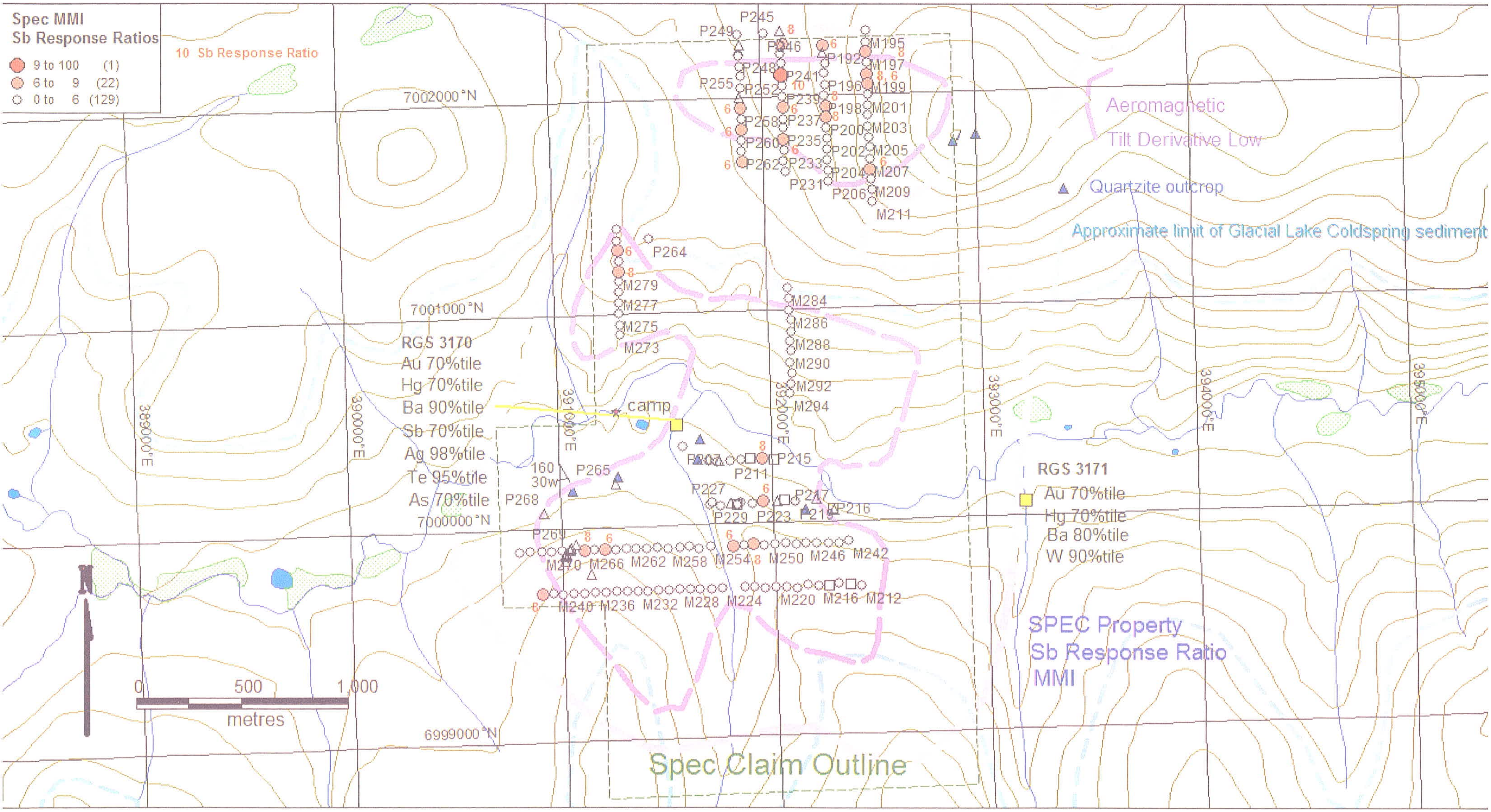


Spec Rock Geochem
Au ppb
9 to 100 (2)
0 to 9 (24)
18 Au ppb
7002000°N
7001000°N
7000000°N
6999000°N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
P249
P244
P194
15
18
P255
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sedimen
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
camp
P210
160
30w
P265
P268
P227
P221
P217
P269
P278
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
SPEC Property
Rock Geochem Values
Au ppb
N
0
500
1,000
metres
Spec Claim Outline

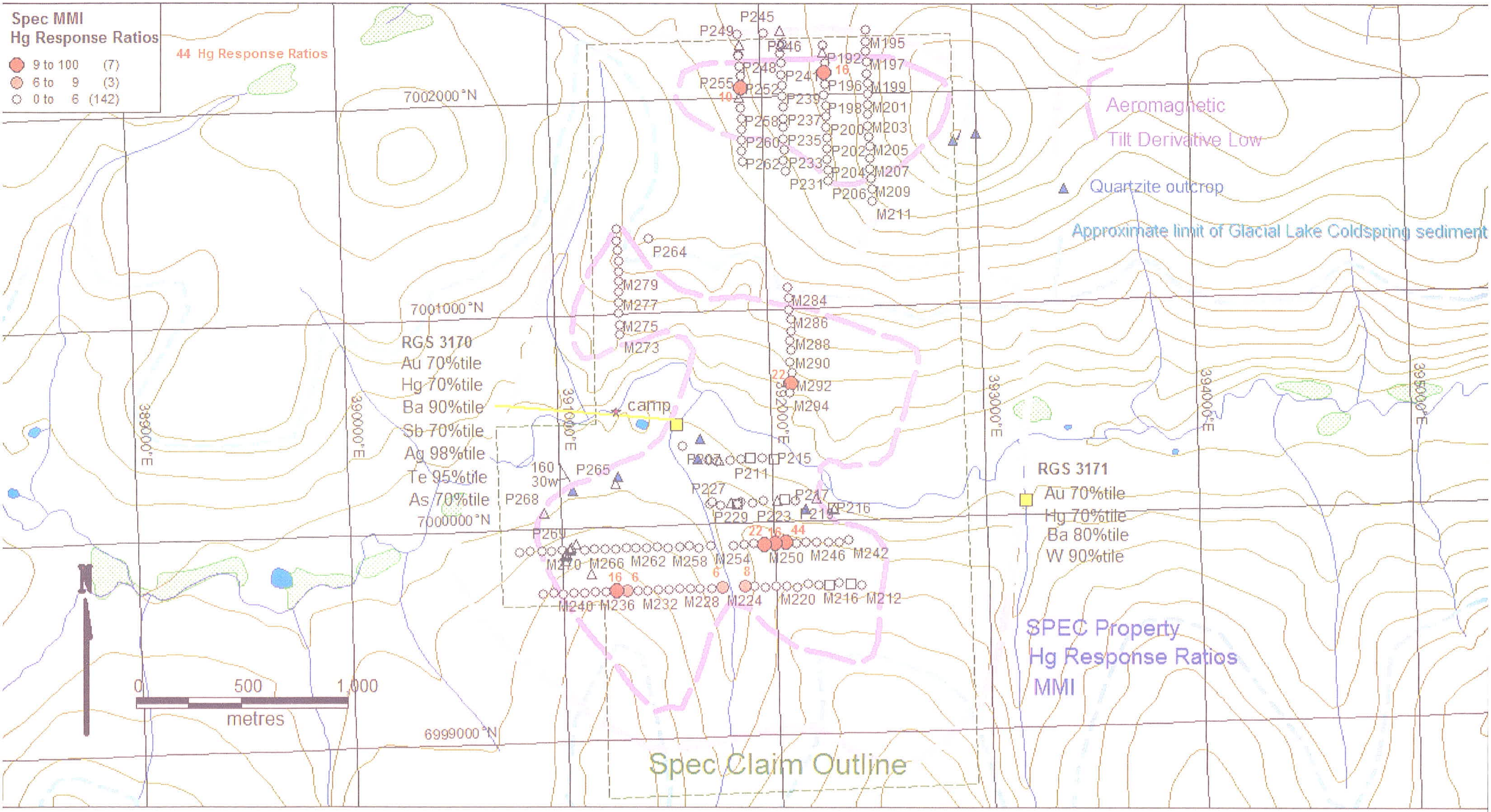


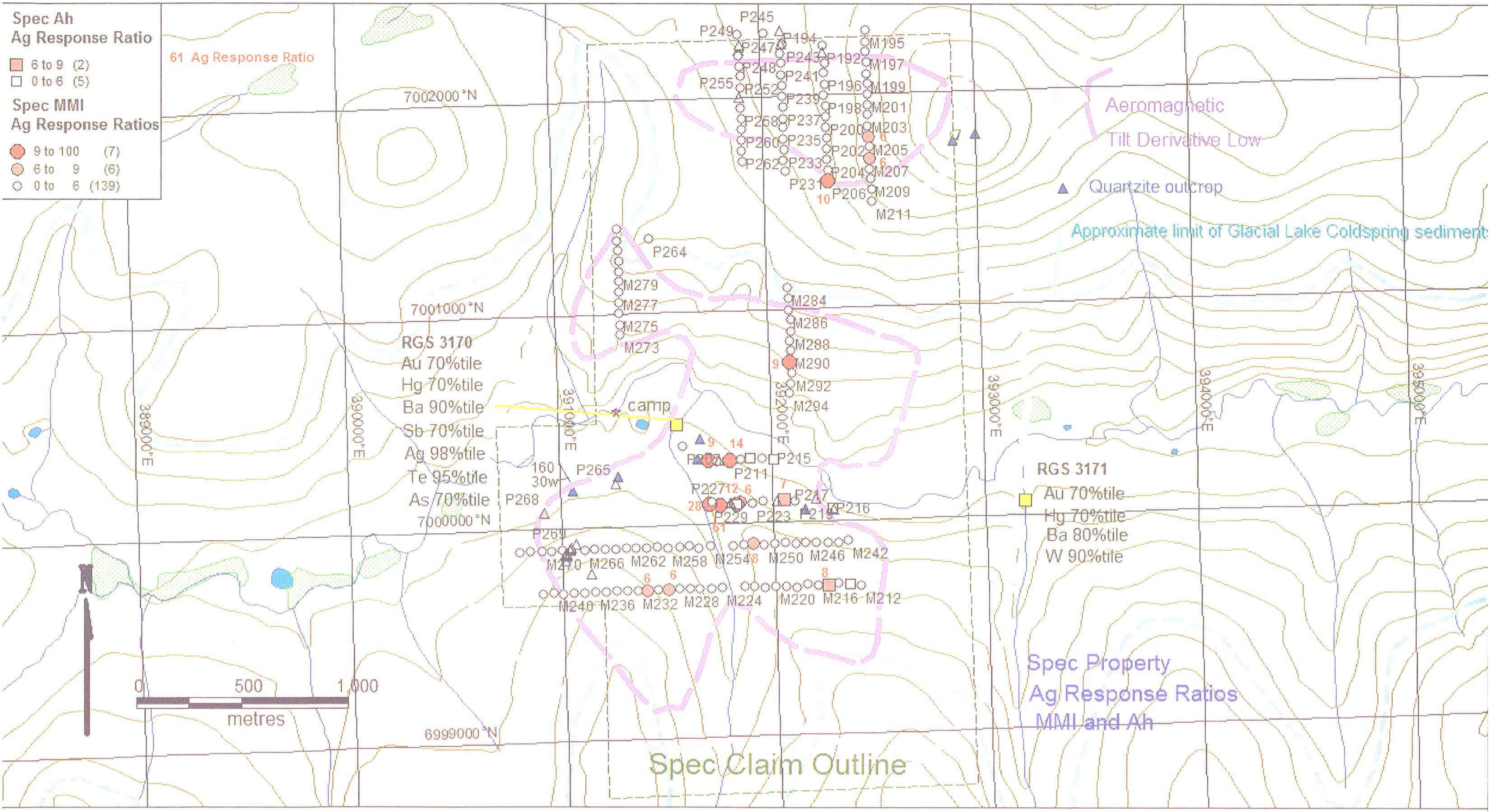
Spec Rock Geochem
Cu ppm
100 to 624 (3)
40 to 100 (9)
1 to 40 (14)
7002000°N
7001000°N
7000000°N
6999000°N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
P249
P244
P194
P255
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sedimen
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
camp
P210
160
30w
P265
P268
P227
P221
P217
P269
P278
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
SPEC Property
Rock Geochem Values
Cu ppm
N
0
500
1,000
metres
Spec Claim Outline

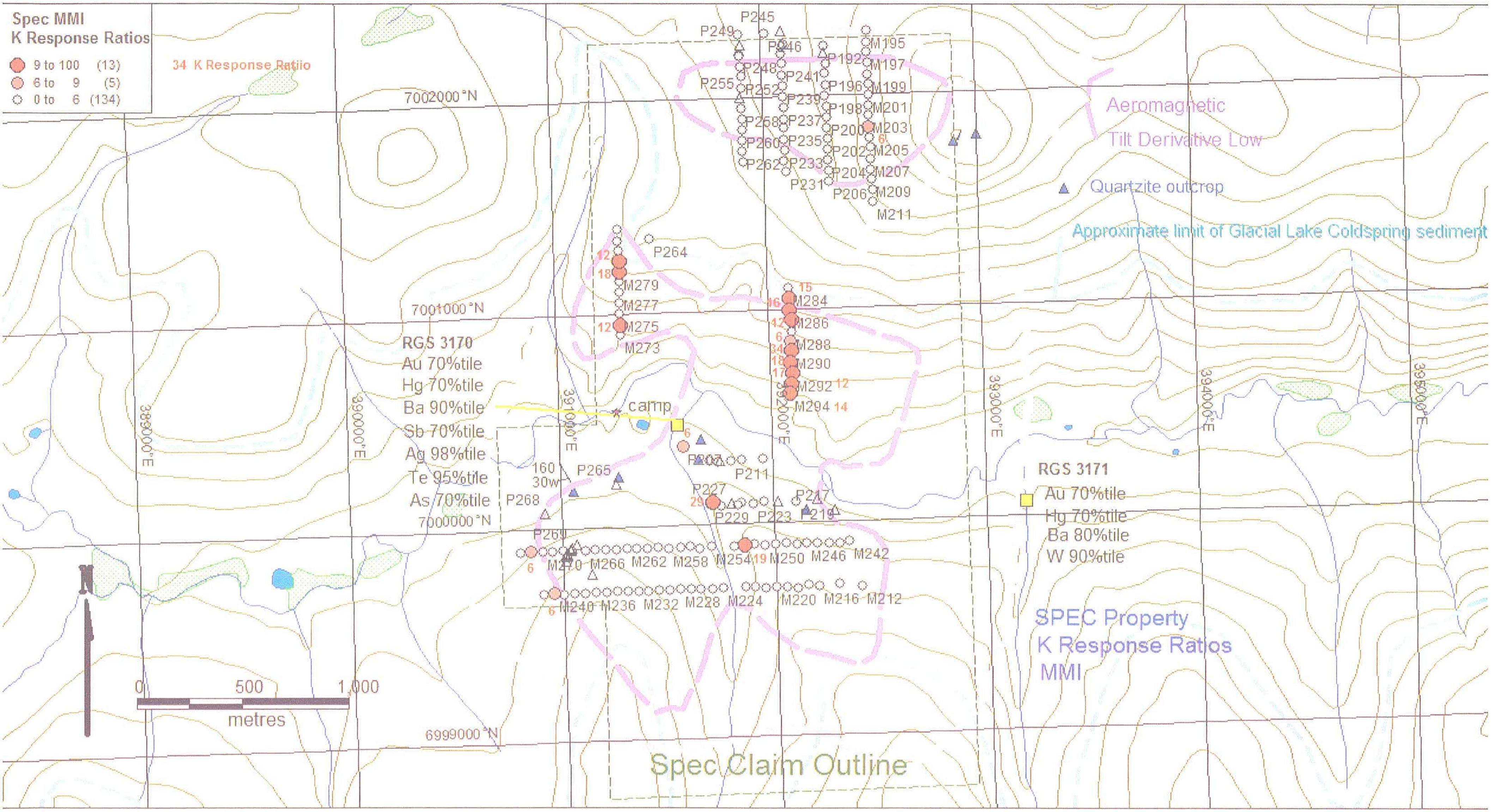

Spec MMI
As Response Ratios
9 to 100 (14)
6 to 9 (34)
0 to 6 (104)
18 As Response Ratio
7002000 °N
7001000 °N
7000000 °N
6999000 °N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sediment
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
camp
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
SPEC Property
As Response Ratios
MMI
0
500
1,000
metres
Spec Claim Outline



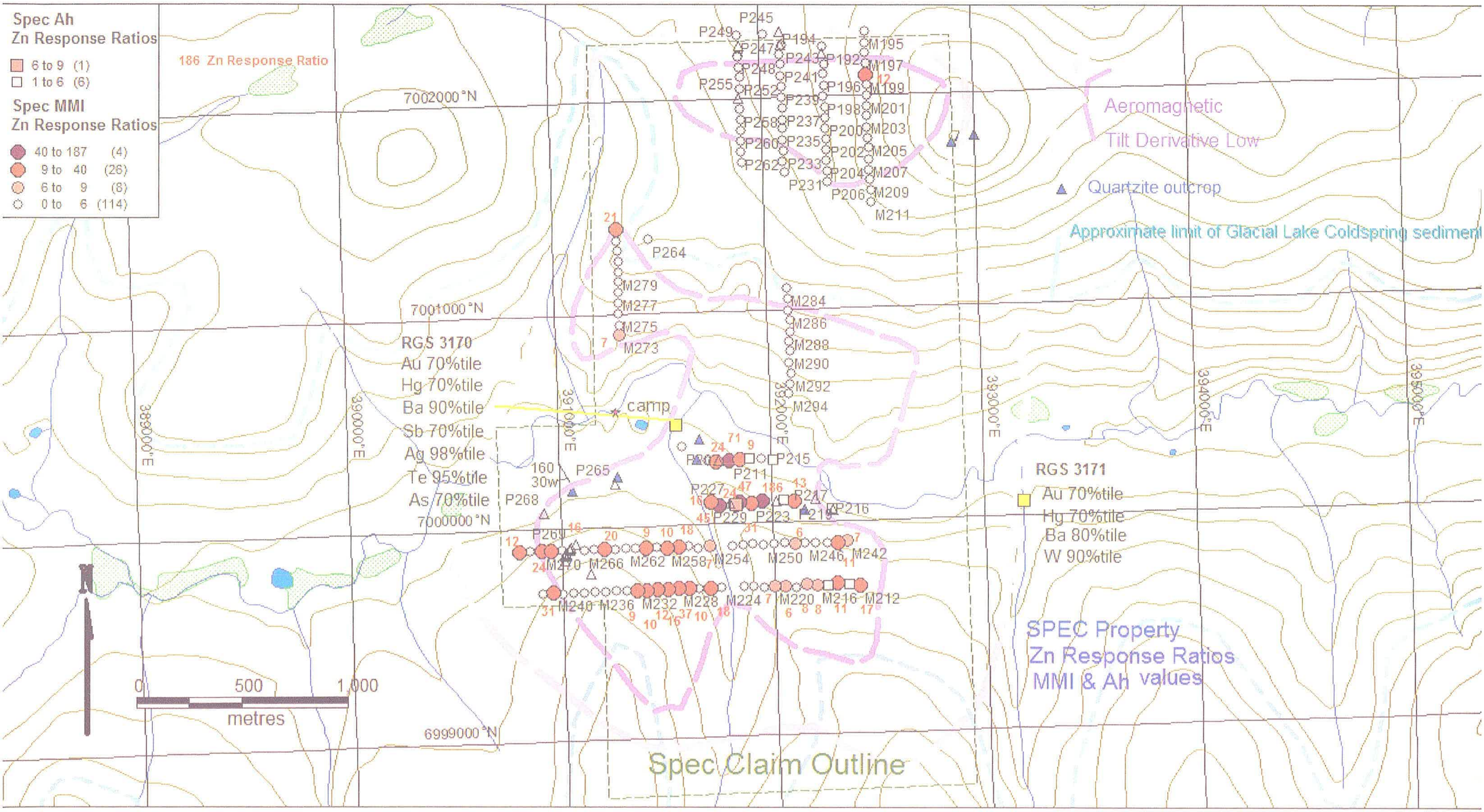
Spec MMI
Sb Response Ratios
9 to 100 (1)
6 to 9 (22)
0 to 6 (129)
10 Sb Response Ratio
7002000 °N
7001000 °N
7000000 °N
6999000 °N
389000'E
390000'E
391000'E
392000'E
393000'E
394000'E
395000'E
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
camp
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sediment
SPEC Property
Sb Response Ratio
MMI
Spec Claim Outline
0 500 1,000
metres
N


Spec MMI
Hg Response Ratios
9 to 100 (7)
6 to 9 (3)
0 to 6 (142)
44 Hg Response Ratios
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sediment
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
camp
7002000°N
7001000°N
7000000°N
6999000°N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
0
500
1,000
metres
SPEC Property
Hg Response Ratios
MMI
Spec Claim Outline

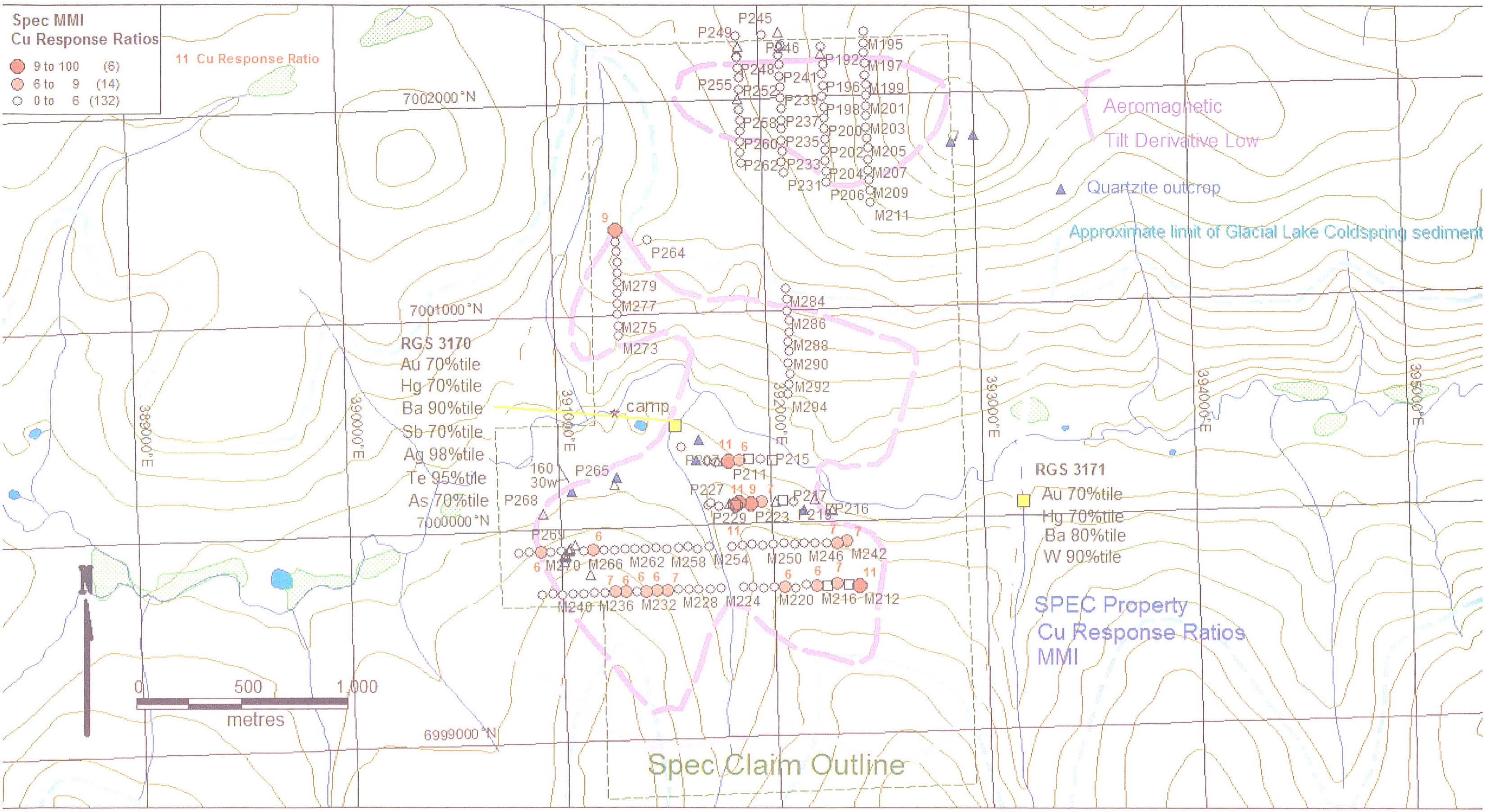

Spec Ah
Ag Response Ratio
6 to 9 (2)
0 to 6 (5)
Spec MMI
Ag Response Ratios
9 to 100 (7)
6 to 9 (6)
0 to 6 (139)
61 Ag Response Ratio
7002000°N
7001000°N
7000000°N
6999000°N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sediments
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
camp
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
0 500 1,000
metres
Spec Property
Ag Response Ratios
MMI and Ah
Spec Claim Outline

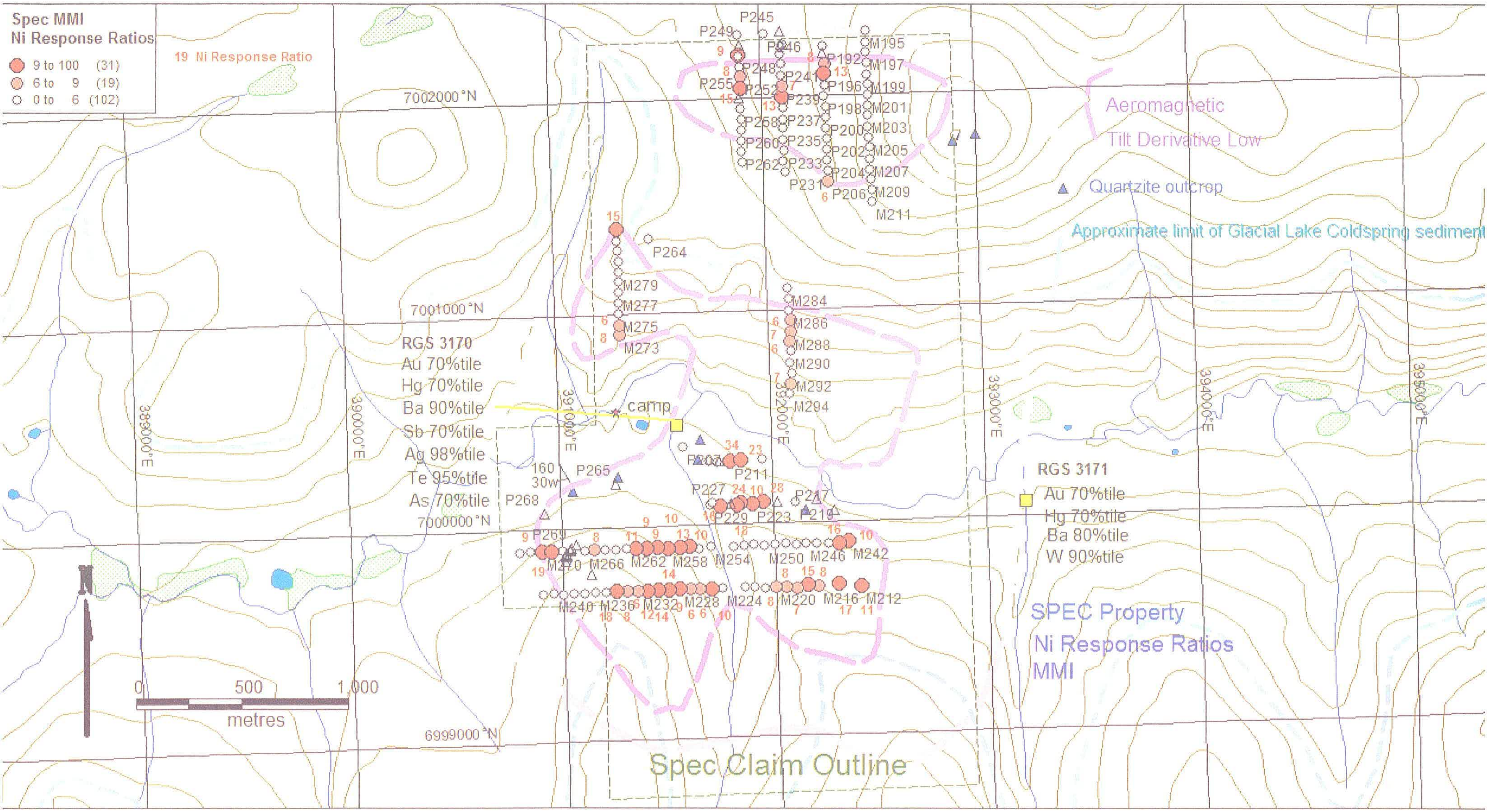


Spec MMI
K Response Ratios
9 to 100 (13)
6 to 9 (5)
0 to 6 (134)
34 K Response Ratio
7002000°N
7001000°N
7000000°N
6999000°N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sediment
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
camp
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
SPEC Property
K Response Ratios
MMI
0
500
1,000
metres
N
Spec Claim Outline

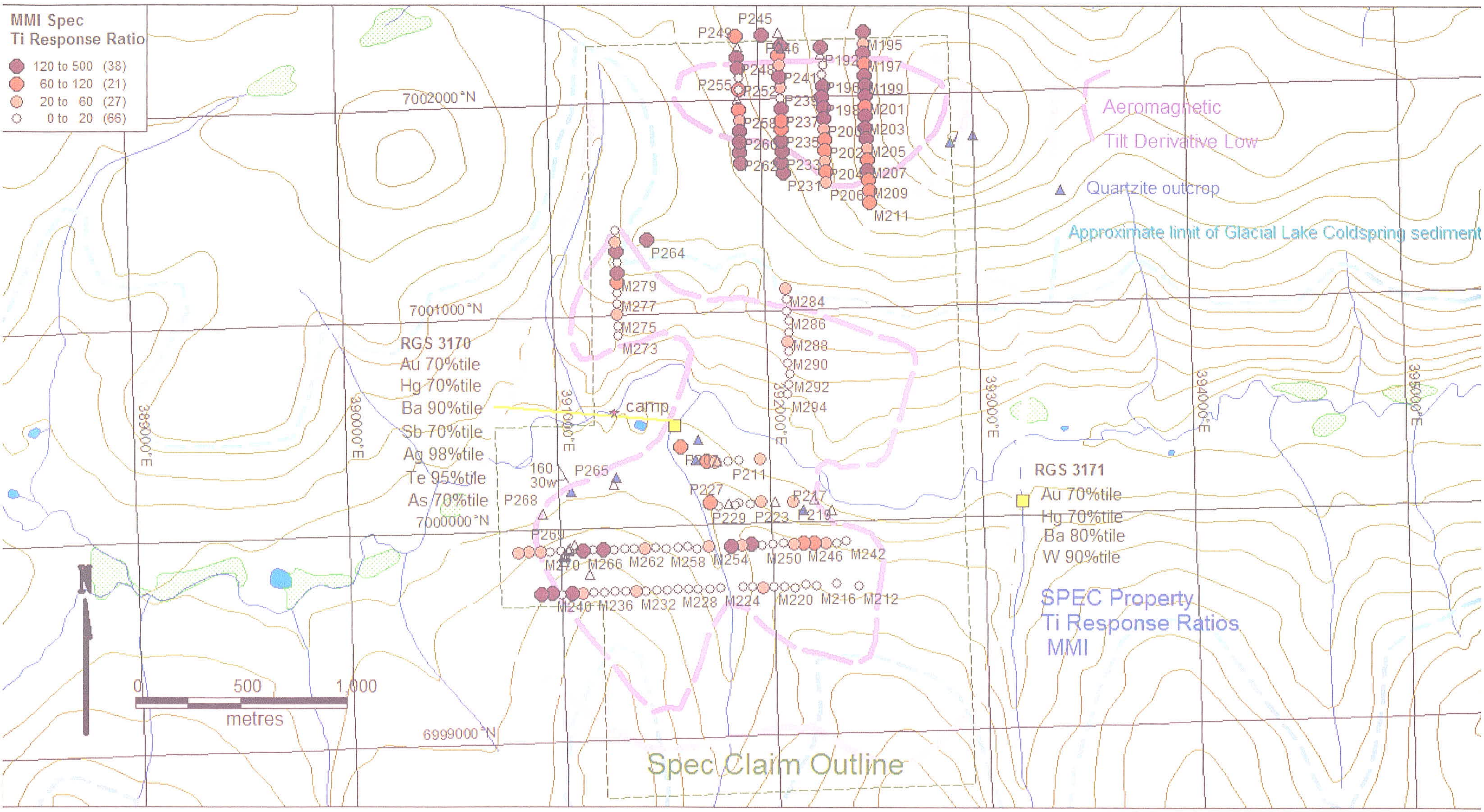


Spec Ah
Zn Response Ratios
6 to 9 (1)
1 to 6 (6)
Spec MMI
Zn Response Ratios
40 to 187 (4)
9 to 40 (26)
6 to 9 (8)
0 to 6 (114)
186 Zn Response Ratio
7002000°N
7001000°N
7000000°N
6999000°N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sediment
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
camp
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
SPEC Property
Zn Response Ratios
MMI & Ah values
0 500 1,000
metres
Spec Claim Outline

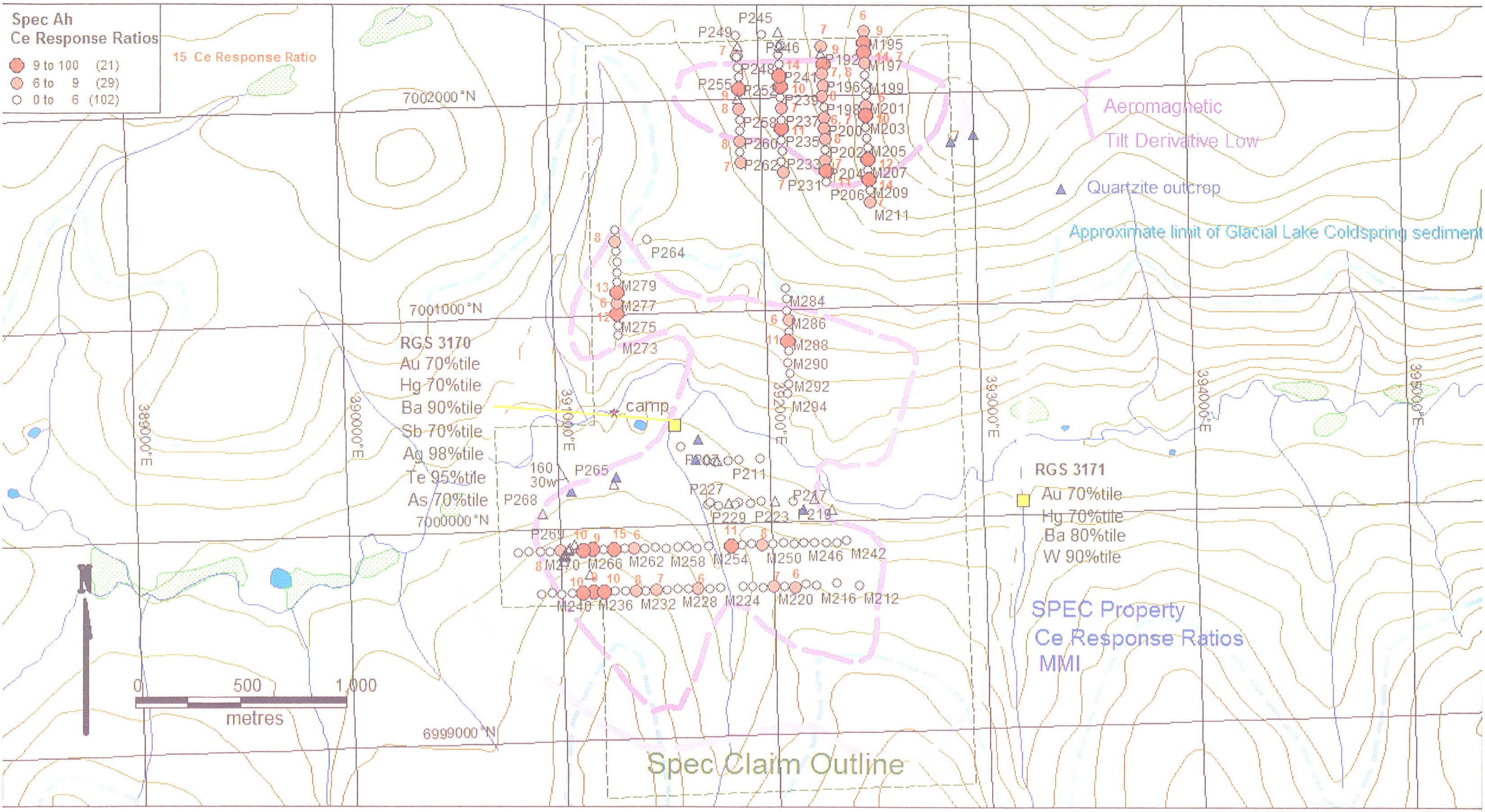

Spec MMI
Cu Response Ratios
9 to 100 (6)
6 to 9 (14)
0 to 6 (132)
11 Cu Response Ratio
7002000°N
7001000°N
7000000°N
6999000°N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
camp
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sediment
SPEC Property
Cu Response Ratios
MMI
Spec Claim Outline
0
500
1,000
metres
N
160
30w



Spec MMI
Ni Response Ratios
9 to 100 (31)
6 to 9 (19)
0 to 6 (102)
19 Ni Response Ratio
7002000 °N
7001000 °N
7000000 °N
6999000 °N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
Aeromagnetic Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sediment
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
camp
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
SPEC Property
Ni Response Ratios
MMI
0 500 1,000
metres
Spec Claim Outline



MMI Spec
Ti Response Ratio
120 to 500 (38)
60 to 120 (21)
20 to 60 (27)
0 to 20 (66)
7002000 °N
7001000 °N
7000000 °N
6999000 °N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sediment
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
camp
SPEC Property
Ti Response Ratios
MMI
Spec Claim Outline
0
500
1,000
metres
N


Spec Ah
Ce Response Ratios
9 to 100 (21)
6 to 9 (29)
0 to 6 (102)
15 Ce Response Ratio
7002000°N
7001000°N
7000000°N
6999000°N
389000°E
390000°E
391000°E
392000°E
393000°E
394000°E
395000°E
Aeromagnetic
Tilt Derivative Low
Quartzite outcrop
Approximate limit of Glacial Lake Coldspring sediment
RGS 3170
Au 70%tile
Hg 70%tile
Ba 90%tile
Sb 70%tile
Ag 98%tile
Te 95%tile
As 70%tile
camp
RGS 3171
Au 70%tile
Hg 70%tile
Ba 80%tile
W 90%tile
SPEC Property
Ce Response Ratios
MMI
0 500 1,000
metres
N
Spec Claim Outline

INTRODUCTION

In mid June 2011 two traverses over aeromagnetic tilt derivative lows discovered fractured and brecciated limonitic quartzite in outcrop and boulders on hillsides north and south of Coldspring Creek on NTS map sheet 115P03. Rock samples of angular silicified breccias yielded anomalous values of Au (high of 75 ppb), As (high of 391 ppm), Sb (high of 10.7 ppm), and Hg (high of 960 ppb). The area lies east of the White Gold District within an area of pre-Reid glaciations. Based on discovery of the numerous breccia boulders, 34 claims were staked on June 21, 2011 with helicopter support out of the Pacific Ridge Exploration (PEX) camp on Scroggie Creek. Claims were recorded July 20, 2011. The property is located 155 km from Dawson City, 130 km from Mayo, 115 km from Carmacks and 60 km from Scroggie Airstrip. Access is made by helicopter from any of the above towns. Refer to Figures 1 and 2.

The geology of the area has recently been described on *Canadian Geoscience Map 7 of Southwestern McQuesten and parts of northern Carmacks by Ryan, J.J., Colpron, M., and Hayward, N., 2010.* The property is underlain primarily by quartzite of the Late Devonian and older Snowcap Formation, which is the basal unit of the Yukon Tanana Terrane. White Gold District gold occurrences had been described by many geologists familiar with the deposits as near vertical structural occurrences within all rock types so bedrock geology was not considered as a preliminary screen for identifying targets. Evidence of pre-Reid glacial lake sediments occurs over the southern two thirds of the property. At higher elevations pre-Reid aged tills are somewhat eroded. A late McConnell age loess deposit 20 to 50 cm thick blankets the till and glacial lake sediments.

The current work used MMI soil samples in an attempt to "see through" the glacial sediments. MMI samples were collected where possible and Ah (organic) samples were collected where MMI samples could not be collected due to frozen ground. MMI samples are collected across the interval of 10 to 25 cm below the top of soil so that in general loess was the sample medium. Where loess was less than 25 cm thick the underlying material was a till and or a residual gritty soil with a few rounded pebbles probably derived from previously existing till deposits.

The McQuesten Aeromagnetic Survey by Kiss, F., and Cryle, M., 2009 is available from Geoscience Data Repository through Natural Resources Canada.

Pacific Ridge Exploration (PEX) provided the writer with horizontal and tilt derivative maps derived from the raw aeromagnetic data. These derivatives show structures where magnetite destructive alteration possibly related to gold-bearing hydrothermal activity has occurred. Soil sampling was designed to test four prominent one to two km long tilt derivative magnetic low anomalies.

Regional Geochemical Data (RGS) is readily available. It shows geochemical data for numerous elements of stream sediments throughout the area and for several creeks draining the claims. On the Spec Claims the significant RGS values for sample number 1370 (Geochemical Figures) are: Au (70^{th} %tile), As (70^{th} %tile), Sb (70^{th} %tile), Ag (98^{th} %tile), Te (95%tile), and Ba (90^{th} %tile). This stream flows northward crossing the southern two magnetic low anomalies as shown. RGS sample number 3171 is anomalous for Au (70 %tile), Hg (70 %tile), Ba (80 %tile), and W (90 %tile) and flows northward along the extreme eastern edge of the two southern magnetic low anomalies.

No Minfile occurrences are known in the area.

The writer flew by helicopter to the property with Jeff Mieras on June 21, 2012 to establish a camp from which they collected MMI soil samples and rock samples of altered float and outcrop across the main magnetic derivative lows and randomly elsewhere on the property. Work was completed on June 25, 2012.

Results were somewhat encouraging although MMI sampling over the north magnetic low anomaly with abundant breccia boulders known from previous work to be strongly anomalous for As, Sb, Hg and Au failed to show any anomalous values for Au and Hg and only moderate anomalies for As and Sb. The southern two magnetic low anomalies yielded results moderate to highly anomalous for Zn, Cu, and Ni with moderate anomalous values for Ag over one of these magnetic lows. All four anomalies yielded highly to moderately anomalous values for Ti, Ce and other rare earth elements. MMI soil sampling did provide patterns of anomalous metals over the southern two magnetic low anomalies where a single augered conventional soil sampling line the previous year provided only spotty and low metal values. Because gold did not respond in MMI sampling even where rocks were anomalous for gold, patterns of anomalous values for other metals should be used as a guide to mineralized systems. These areas, once defined should be trenched to evaluate their precious metal potential.

below was seen anywhere on the traverses. Source of the high Ti, Ce, and other rare earth elements also remains unknown.

Altered float was observed in three areas. Refer to Table 3. In the north of the property boulders measuring up to three metres long were of silicified quartzite often containing both quartz veins and breccia dykes that were weakly limonitic and contained fragments of quartzite and less commonly quartz. This style of mineralization was also sampled in 2011 with somewhat higher Au, As, Hg and Sb values than reported below. The boulders were usually subangular to angular and were obviously resistant to weathering. Less resistant rock that might contain high gold values could easily be concealed beneath the soil cover. No outcrop was observed in the north grid area.

South of Coldspring Creek and east of the creek sampled by RGS 3170 the few outcrops present were of dark carbonaceous quartzite containing weak silicification and weak limonite fractures. Intervening ground between outcrops was covered by till, the almost ever present loess, and glacial lake sediments.

South of Coldspring Creek and west of the creek sampled by RGS 3170 outcrops sampled by P327 and P329 contain weak silicification and few limonite fractures with minor quartz veins. Samples shown on the geochemical figures at P269 to P278 were of angular boulders that occurred in a window of residual soil mixed with some loess and till. Surrounding this window was uniform loess covered till that contained no angular boulders. The angular boulders within the window were commonly brecciated and contained limonite and some quartz veins. This window through the till blanket was about 100 m in diameter. The altered float seen there could be glacially transported over a short distance and thus be close to a gold mineralized structure related to and causing the magnetic derivative low.

Geochemical results for the rock samples with their UTM NAD83 Zone 8 co-ordinates are provided in an Appendix. All four magnetic derivative low areas contain rock samples with moderately anomalous values for As and Sb. The south areas contain all the anomalous values for Cu, Ni, and Mo. Weakly anomalous Au in rock values of 17 and 14 ppb occur in the north area. Results of similar altered float collected in 2011 returned gold values of 75, 40, and 25 ppb. One relatively high Ti in rock value of 0.078 % Ti (P227), relative to all other samples of $\leq$0.005 %

Soil sampling in 2011 found rocky soils across the north magnetic anomaly and glacial tills across the southern two magnetic anomalies with the whole area usually covered by a 20 to 50 cm deep loess deposit.

Soil sampling in 2012 used methods employing selective leach analyses, principally MMI analyses, because of difficulties in soil sampling found in 2011 as described. Having now carried out more extensive exploration on the property it became obvious that auger soil sampling at higher elevations in the north could prove more useful than MMI analyses because of its more direct reading of metal content particularly if the soils beneath the loess contain significant residual soil. Where it works, MMI soil sampling can "see through" deep overburden including glacial till. But it is not always responsive for all elements and is not effective for all elements on the property. It does not provide patterns useful for directing additional work but that may be due to the low number of samples collected to date.

BEDROCK GEOLOGY.

Regionally the property lies within Yukon Tanana Terrane.

The most detailed geology map is provided by *Canadian Geoscience Map 7, Geology Southwestern McQuesten and parts of Northern Carmacks by J.J. Ryan, M. Colpron, and N. Hayward at a scale of 1:125,000*. This map shows the property to be underlain exclusively by the basal member of the Yukon Tanana Terrane, the Late Devonian and older Snowcap Assemblage comprised of quartzite to quartz-mica schist intruded by orthogneisses. These rocks display upper greenschist- to amphibolites-facies metamorphism.

Work in 2011 and 2012 found dark purple-brown quartzite float and outcrop high on the hill on the north side of Coldspring Creek. On the south side of Coldspring Creek outcrops were also of quartzite but with a pronounced pelitic content. All angular float was of quartzite with one exception. South of Coldspring Creek just east of the north flowing tributary sampled by RGS sample number 3170 and about a hundred metres south of sample P227 is a slope containing angular boulders of dacite. The dacite is pale buff coloured and contains about one percent one mm diameter quartz crystals. No mafic outcrop or angular float that might help explain the high Ni values in some of the MMI samples described

RGS DATA.

Position and some results for two Regional Geochemical Survey (RGS) silt samples are also provided on the Geochemical Figures. The principal sample, number 3170, is variably anomalous for Au, Hg, Ba, Sb, Ag, Te, and As and was collected from a creek that drains the southern two magnetic low anomalies.

SURFICIAL GEOLOGY.

The area was believed to have been glaciated during one or more pre-Reid glacial periods. Glaciation of the claims area is described by J Bond and P Lipovsky of the Yukon Geological Survey as pre-Reid in age. Reid glaciation began 200,000 years ago and ended about 50,000 years ago. The glaciation across the general area of the Spec Property is described as much older than Reid, possibly older than 500,000 years (Jeff Bond, personal communication, 2012).

A 20 to 50 cm thick post McConnell age loess deposit blankets most of the hillsides thereby making mapping of underlying geology including the occurrence of till and altered float difficult. Tills were found in the bottom of most soil pits that penetrated the loess blanket. A glacial lake occupied Lake Creek and Coldspring Creek during the pre-Reid glacial period(s). Evidence of this glacial lake occurs on the property along the north side of Coldspring Creek where banks of glacial lake sediments are obvious at several locations. The approximate upper limit of Glacial Lake Coldspring, taken from Bond and Lipovsky's work is shown on the geochemical maps that accompany this report. The second most northerly magnetic low anomaly underlies much of this lake sediment. Samples M273 to M294 were collected over this magnetic low anomaly from a variety of glacial sediments. Often the soils at the bottom of the soil pits collected over the other three magnetic low anomalies were a mixture of residual soil and till.

Even with the extensive glacial deposits on the property it was found that abundant angular float, much silicified, occurs across the higher elevations north of Coldspring Creek. More detailed prospecting in this area could prove successful in locating significant gold mineralized float. There was also a window through the tills and loess on the two soil lines south of camp and west of the creek sampled by RGS 3170. Here angular float of silicified quartzite is found within mixed residual soil, loess, and till across the 100 m diameter window.

More widespread evaluation of the property is recommended. This work should include additional MMI sampling over the southern two anomalies and rock chip sampling of float and conventional augered soil sampling over the northern anomaly. Hand dug pits are also recommended to be dug as deep as possible in order to find, examine, and sample altered bedrock rubble. This work should be sufficient to define areas for trenching to better evaluate precious metal potential on the property as a prelude to diamond drilling.

CLAIMS.

The following is a list of all claims forming the property. The claims lie in the Dawson Mining District. The work was partially funded by a YMIP grant, #12-017, and was performed by and for the registered owner, Gordon G Richards. Claim expiry dates have been extended to July 21, 2017 by filing of the work described in this report as representation work. Refer to Figure 2.

Table 1. Claim Status

Claim Name	Grant No.	Expiry Date	Reg Owner	% Owned	NTS #s
Spec 1-34	YE71401 – YE71434	2017/07/21	Gordon G Richards	100.00	115P03

AEROMAGNETIC LOW.

Tilt and horizontal derivative lows derived from government aeromagnetic data are believed to define zones of magnetite destructive alteration that has been shown to be a good guide to gold bearing alteration systems within the White Gold District. Four aeromagnetic tilt derivative lows are shown on the Geochemical Figures and were used as the main targets for soil sampling. Horizontal derivative lows are also present and form similar patterns as the tilt derivative lows. The patterns shown on the Geochemical Figures for the tilt derivative lows are approximations only as limits of the lows are somewhat diffuse and their locations are not exact.

Ti, occurs in the southeast of the property. The highest Ti MMI soil values occur in the north.

	Table 5. Rock Sample Descriptions. Spec Property 2012.
ID	Description
P194	2m boulder bxiated qtzite
P210	carbonaceous qtzite with weak persistent limonite & qtz veinlets
P217	outcrop. Qtzite with very minor limonite and some qtz veinlets
P218	2-3 cm qtz vein with low limonite spots and fractures
P221	angular boulder pile qtzite with low lim and qtz vns
P227	angular boulder pile qtzite with lim fractures and very minor qtz vns
P244	3m boulder qtzite with bxias and low limonite
P245	same boulder. sample from 1/2 m wide bxia zone
P249	1 m boulder quartz, subangular
P255	1 m x 1 m qtz boulder with grey streaks
P256	same boulder. Sample of bxia on one end
P257	small piece 10 cm bxia
P265	sheared, crackled, bxiated very limonitic. Little of this style
P266	white (bleaching?) sediment with muscov and limonite
P267	3 cm wide bxia-shear-lim at toe of slope with P265, P266
P268	limonitic qtz vein from boulder dump
P269	soft crumbly limonitic bxia
P270	crackled limonitic and bxiated qtzite
P271	crackled qtz with limonite and cross-cutting bxia. Crumbly
P272	limonitic bxiated qtzite
P273	bldr qtzite with qtz veins and limonite. Softer and sugary text
P274	1m bldr bleached qtzite and limonite
P275	bxiated limonitic boulder
P276	bxiated qtzite with qtz and limonite
P277	qtz fragment bxia. Limonitic matrix
P278	25 cm high limonite matrix bxia

P194 north, high on hill, #1 mag low anomaly
P210 southeast, #3 mag low anomaly
P265 southwest, north end of #4 mag anomaly
P269 southwest, window angular rocks #4 mag low anomaly

GEOCHEMICAL SURVEYS.

PREVIOUS WORK

During sampling in 2011 discoveries were made of float and outcrop with various alteration and mineralization styles. North of Coldspring Creek only rocks were collected as the soil was extremely rocky and difficult to sample by the auger that was carried. This difficulty in sampling is believed to be a local phenomenon for the 2011 samples as sample pits dug in 2012 although rocky could have been sampled by auger. Outcrop and float were dark purple-brown quartzites. Where mineralized they were severely brecciated and limonitic and often contained several quartz veins. Breccia fragments were quartzite and lesser quartz up to two cm long. Four samples were collected from silicified and brecciated quartzite outcrop along the top of the small hill along the north end of the east side of the claim block. Eight samples were collected from silicified and brecciated angular float up to 2 m long lying between the north ends of the two most northeasterly soil lines of 2012.

2011 results were highly anomalous for As (highs of 392, 272, 136, and 87 ppm), Sb highs of (14.6, 10.7, 8.0, 6.6, and 6.0 ppm), Hg (960, 660, 270, and 170 ppb) and moderately anomalous for Au (highs of 25, 40, and 75 ppb). These anomalous rocks occurred along the north side of the magnetic derivative low near the edge of the claim block as shown on the Overview Figure.

South of Coldspring Creek standard soils of glacial sediments were sampled by auger at a 100 metre interval on a single line across two of the magnetic derivative lows. Here results provided spotty low level anomalous values for Au, As, Sb and Hg similar to the suite of anomalous results from rocks north of Coldspring Creek. Three rock samples collected by an assistant south of Coldspring Creek were sintery siliceous crackled to brecciated pelitic meta sediments with introduced silica and limonitic fractures.

CURRENT SURVEY METHODS

Ten man days were spent in the field by Jeff Mieras and Gordon Richards collecting 152 MMI soil samples, 7 organic Ah soil samples, and 26 rock chip samples. Lab results and spreadsheets showing the geochemical data tied to GPS coordinates using a UTM, Zone 8 Projection are provided in Appendices.

Sample details such as rock type and mineralization, soil colour, texture, depth, dampness and site slope were described in notes. Their locations were recorded in a Garmin GPSmap 60Cx. Sampled material was placed into numbered bags as described below. Soils were collected at 50 m intervals where possible on four north-south lines spaced 200 m apart over the north magnetic low anomaly, two east west lines also spaced 200 m apart on the southern two magnetic low anomalies and two north south lines spaced 800 m apart over the magnetic low anomaly just north of Coldspring Creek.

A selective leach using MMI analyses was used in order to deal with the extensive glacial tills. Where ground was too frozen to collect MMI soils, organic Ah soil samples were collected. Rock samples were collected from silicified and brecciated outcrop and float. Samples were sent to labs described below.

Response ratios for 28 selected elements were calculated for all 152 MMI soil samples and are provided in Table 2. Response ratios for 31 selected elements were calculated for all 7 Ah soil samples and are provided in Table 3. Rock chip sample results are provided in Table 4 and rock chip sample descriptions are provide in Table 5. Anomalous results greater than selected threshold values for several elements are shown graphically on the Geochemical Figures provided. MMI results have been calculated into response ratios as described below. Response ratios can be best thought of as multiples of background. In general a response ratio of 10 is considered highly anomalous and indicative of underlying mineralization for that element. It is important to distinguish response ratios for MMI and Ah soil samples. Data have not been leveled due to the low number of Ah samples. MMI and Ah thresholds are different for all elements.

MMI Soil Samples.

MMI analysis uses a weak partial extraction to improve the conventional geochemical response over buried ore deposits. The process measures the mobile metal ions from mineralization, which have moved vertically toward the surface and become loosely attached to the surfaces of soil particles. They concentrate within the 10 to 25 cm soil depth which on the property is routinely a uniform loess blanket. Its effectiveness has been documented in over 1000 case histories on six continents and includes numerous commercial successes. The anomalies are sharply bounded and in most cases directly overlie and define the extent of the surface projection of buried primary mineralized zones. The MMI process is a proprietary method developed by Wamtech of Australia. SGS Minerals Services in Toronto purchased all rights to the method and provides analyses in Canada.

Watch and ring were removed prior to sampling. Pits were dug by shovel to a depth of 30 cm in order to expose the soil profile for sampling. The profile was scraped clean with a plastic scoop to remove any metal effect from the shovel. A continuous strip of soil was collected by plastic scoop over the interval of 10 to 25 cm below the top of true soil, placed in a pre-numbered ziplock baggie and placed in an 11 inch by 20 inch 2 mil plastic bag. Loess was present at nearly all sample sites and was the sample medium for the bulk of all of the 152 MMI soils collected. Samples were kept cool until they were shipped to SGS Minerals Services in Toronto for analyses.

In the SGS Lab, samples are not dried or prepared in any way. The MMI process includes analyses of an unscreened 50-g sample using multi-component extractants. Metal contents are determined for 53 elements by ICP-MS.

Response Ratios were calculated for 28 elements as shown on Table 2. The average value of results for the lower quartile was calculated for each element. One-half of detection limit was used for those samples with values reported as less than detection limit. Then each result was divided by the lower quartile average to obtain its response ratio. A response ratio of 10 or more is considered very significant for indicating underlying mineralization. Lesser values of 5 to 10 can also be important particularly where more than one element has such a value. Response ratios can best be thought of as a multiple of background in interpreting results.

Organic Ah Soil Samples.

Seven Ah horizon organic soil samples were collected from the very base of the organic layer overlying loess and placed into gusseted kraft bags. The organic layer was unusually thick. They were collected only on east to north facing hillsides where thick moss inhibited the thawing of underlying tills. Considerable care and time was taken to collect only completely decomposed organic soil. Samples were sent to Acme Labs where samples were dried at 60 degrees C, 100 g sieved to -80 mesh, and a 15 g sample digested in 1:1:1 Aqua Regia and analyzed by Acme's Ultratrace ICP-MS analyses for 53 elements.

Response ratios were then calculated for 31 elements with much overlap with those elements as was done for MMI soils. Refer to Table 3.

CURRENT SURVEY RESULTS.

Response Ratios for selected elements are provided for 152 MMI soil samples and 7 Ah soil samples in Tables 2 and 3. Results for 14 elements are provided for 7 rock chip samples in Table 4. Original geochemical results for all samples are provided in Appendices one set of which is tied to GPS co-ordinates. Selective leaches like MMI and Ah analyses are not always effective and even where they prove useful not all elements are responsive. Therefore patterns can be more important than strengths of individual element responses.

Geochemical results are described below for the four magnetic lows numbered 1 to 4 on the Overview Figure. Refer to the Geochemical Response Ratio Figures for the following discussions. The four magnetic lows are:

#1. North. The north magnetic low anomaly,

#2. Central. The magnetic low anomaly in the middle of the property and just north of Coldspring Ck,

#3 & #4. South. The two magnetic low anomalies south of Coldspring Ck.

<u>#1. North.</u> This zone is covered by a mixture of tills and residual soil covered by loess with angular float occurring locally. Sample medium for the soils was loess with some samples containing a minor component of residual soil.

Widespread anomalous As MMI response ratios and less widespread anomalous Sb occurs across all four soil lines with no apparent trend. However higher As values do show east-west trend so that infill and additional widespread soil sampling could define a pronounced trend for As and possibly other elements. There are no anomalous Au response ratios and only a few spotty anomalous Ag and Hg response ratios even though many 2011 and some 2012 rock samples are anomalous for Au and Hg as well as As and Sb. This is interpreted to indicate that MMI soil sampling is ineffective for Au and Hg on the property.

Stongly anomalous response ratios for Ti and Ce (as well as other rare earth elements evident on Table 2) occur across all four soil lines even though the bedrock is believed to be quartzite based on angular float. Source for these metals is unknown.

There is no pattern to the widespread As and Sb response ratios that could be interpreted as being indicative of a strongly mineralized structure except for possibly the higher As values as described above. Nor are any of the other elements patterns of anomalous values suggestive of a mineralized structure. However, the widespread nature of the anomalous As and Sb response ratios are indicative a large geochemically anomalous bedrock footprint measuring 600 m by 600 m and open in all directions. The anomalous gold in some of the silicified and brecciated quartzite float indicates the system is gold bearing. Depth of overburden is unknown. Additional soil sampling would help define the extent of anomalous soils and possible trends of higher values for some elements. Follow-up trenching across the anomalous As and Sb patterns would be a direct evaluation of the mineral potential of this part of the property.

#2. Central. This zone is covered with glacial lake sediments and tills. Loess has been largely removed particularly on the steeper slopes. No angular float exists anywhere on this target.

K has anomalous response ratios over most of the east line and some of the west line. Ni, Ti, Ce were anomalous over portions of each line and could be related to mineralization on an underlying structure as the anomalies occur over the axis of the magnetic low as shown on the Overview Figure. Further work on this target should be delayed until after work on the other three magnetic anomalies has yielded more positive results.

#3 & #4. South. These zones are covered with loess and till with one window of mixed loess and residual soil with accompanying angular float. Outside the window, sample medium for the soils was loess with some samples containing minor component of till. A few outcrops of quartzite occur as indicated on the maps.

Widespread anomalous Ni, Zn and to a lesser extent Cu occurs over these anomalies with stronger values occurring over the axes of the magnetic low anomalies.

Spotty anomalous values for As, Sb, Hg, and Ag occur across the south zone. Hg forms multiple sample high values over the axes of both the #3 and #4 magnetic anomaly lows on one soil line for each of the anomalies.

Ti, Ce and other rare earth elemental anomalous values occur with clustering over the two magnetic lows but not over the axes of these targets. P227 was a rock chip sample of quartzite with limonite fractures and minor quartz veinlets that assayed 0.078 % Ti. This value is roughly 50 times the value of all of the 25 other rock chips and would explain the high MMI soil results for Ti. The only rare earth element values provided by the analyses is for La and Sc that were both low for this sample so the source of the rare earth elements is unknown.

CONCLUSIONS

Four pronounced aeromagnetic derivative lows with one RGS sample anomalous for Au, Ag, As, Sb, Hg, Te, and Ba collected from a creek draining the two southern magnetic lows provided impetus for staking claims in 2011. Magnetic derivative lows are believed to occur over areas of magnetite destruction related to hydrothermal activity that could be gold bearing.

The claims are underlain by quartzites of the Late Devonian and older Snowcap Assemblage, which is the basal member of the Yukon Tanana Terrane. The claims area has undergone pre-Reid glaciations possibly as old as or older than 500,000 years. Soils are tills and locally glaciolacustrine deposits covered by a 20 to 50 cm deep loess

Work in 2012 focussed on the collection of soils for selective leach analyses using the Mobile Metal Ion (MMI) technique with minor Ah (organic) technique. Results showed large areas containing anomalous metal values for As, Sb, Ti, and Ce over the north (#1) magnetic anomaly, anomalous values for K, Ni, Ti, Ce over portions of the central (#2) magnetic anomaly, and anomalous Ni, Zn, and lesser Cu, Ti and Ce with spotty anomalous values for As, Sb, Hg, and Ag over the south (#3 and #4) magnetic anomalies.

These results are interpreted to show a large anomalous metal footprint over the magnetic anomaly lows. The patterns of anomalous values did not provide a focus for further exploration beyond the footprint size described although more detailed soil sampling could do so. Not all elements responded positively with the MMI selective leach analyses even in areas of rocks known to be anomalous for those elements. In the north (#1) magnetic anomaly Au and Hg response was ineffective even over areas with rocks anomalous for these elements. As and Sb were somewhat effective and could prove even more so with tighter and more extensive sampling. MMI analyses did provide more anomalous metal values over the south (#3 & #4) magnetic anomalies than the augered standard soils did in 2011. Tighter and more extensive sampling in this area could provide discrete geochemical targets.

Altered float was seen in two areas – one on the north #1 magnetic low target and one on the south magnetic low #4 target. In both areas altered angular float contained hydrothermal breccias and silicification with limonite staining. These boulders measured up to three metres in length, were subangular and abundant enough to suggest they are sourced locally. This style of alteration provided anomalous gold values in the 20 to 75 ppb range. An unexposed gold bearing structure related to the altered float described is the target for future exploration. Such a structure could mimic the magnetic anomaly axes or occur in a more random orientation.

RECOMMENDATIONS.

It is recommended that:

i) Additional soil lines be conducted to define the extent of the anomalous metal values and patterns of anomalous pathfinder elements. Sampling of additional altered float that could be more representative of a gold mineralized structure sould be done at the time of soil sampling.

ii) A VLF-EM and Magnetic susceptability survey be conducted in order to define structures that could be mineralized.

iii) A series of pits be dug as deep as possible on a line that crosses the magnetic anomaly low in the north #1 of the property where more residual soils were observed and the anomalous gold in rock chips occurred.

iv) Trenching be conducted across the north #1 and South #3 and #4 magnetic low anomalies in hopes of exposing gold mineralized structures as a prelude to diamond drilling.

STATEMENT OF COSTS 2012 (no GST)

SPEC Property

Trans North Helicopters:	
June 21. Mob to SPEC Camp. #54433	$ 2881.80
June 25. Demob off property. #55635	3096.00
Truck: Wat Lake-Dawson-Wat Lake. ½ of 1982 km @ $0.61/km	604.51
Geochem:	
SGS - MMI soil sample assays. TO122406	2674.80
SGS - MMI soil sample assays. TO122405	2489.05
SGS – MMI soil sample assays. TO122330	482.95
Acme - Rock soil assays. VANI136506	644.28
Acme - Ah sample assays. VANI138443	40.34
Wages:	
Jeff Mieras June 21-25, July 6: 6 days @ $300/day	1800.00
Gord Richards June 21-25, July 6: 6 days @ $600/day	3600.00
Food and supplies: 12 man days @ $100/day	1200.00
Sub Total	$19,513.73
Report: 10% of above costs	1,951.37
TOTAL	**$21,465.51**

STATEMENT OF QUALIFICATIONS.

I, Gordon G Richards, with business address at 6410 Holly Park Drive, B.C., V4K 4W6, do hereby certify that:

1. I am a Professional Engineer, registered with number 11,411, with the Association of Professional Engineers and Geoscientists of British Columbia since 1978.
2. I hold a B.A.Sc. (1968) in Geology from The University of British Columbia, and an M.A.Sc. (1974) in Geology from The University of British Columbia.
3. I have been practicing my profession as a geologist for over 40 years and as a consulting geological engineer since 1985. I have work experience in western areas of the United States, Alaska, Canada, Mexico and Africa.
4. I have based this report on my field work and supervision of field work by Jeff Mieras during the period of June 21 to 25, 2012 and on the results generated by that field work.
5. I have written this report based on results of the fieldwork described.

Respectfully submitted,

Gordon G Richards, P.Eng.

ID	83_E	83_N	Ag	As	Au	Ba	Hg	Sb	Bi	Te	Se	B	Pb	Zn	Cu	Co	Mo	Sn	Fe	Mn	S	Ca	Sr	K	Mg	Ni	Cr	U	Ti	Ce	La	Sc	Y
M213	392349	6999696	2	2	4	1	1	2	4	1	2	2	1	2	1	1	1	8	2	2	2	2	2	1	2	1	1	1	3	1	1	2	2
M215	392250	6999699	7	2	2	3	2	1	3	3	3	1	5	2	2	2	1	50	2	0	1	1	1	3	1	2	2	2	1	5	4	1	1
P213	391896	7000308	1	3	2	2	1	2	2	1	2	1	2	2	1	3	1	5	2	5	1	1	1	1	2	1	2	1	4	3	2	4	2
P215	392007	7000297	3	2	3	3	1	5	2	4	6	2	1	1	2	2	4	8	1	16	2	3	2	1	1	2	1	1	2	3	2	2	1
P216	392279	7000057	3	2	3	2	2	4	2	2	3	3	1	3	1	2	2	2	2	6	2	2	2	1	1	2	1	1	2	2	2	2	1
P220	392050	7000103	8	3	3	2	2	4	2	2	6	2	2	2	3	5	9	5	2	3	2	1	2	1	1	2	1	4	2	3	2	3	1
P226	391828	7000089	5	2	2	4	1	2	3	3	8	2	1	7	2	1	1	3	2	2	2	4	1	1	2	4	3	9	3	2	2	3	2

ID	83_E	83_N	Ag	As	Au	Ba	Hg	Tl	Sb	Pb	Zn	Cu	Co	Mo	Fe	Mn	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
P192	392294	7002232	3	12	2	1	2	3	6	3	1	2	3	2	7	2	1	1	5	1	1	2	232	7	6	7	7	7	6	6
P195	392301	7002149	5	2	4	3	1	1	1	5	2	4	7	1	3	4	3	2	1	3	8	4	17	9	10	12	13	11	12	14
P196	392299	7002108	1	1	3	3	16	1	1	2	1	4	1	1	1	2	6	1	1	7	13	4	0	7	6	5	3	6	6	7
P197	392302	7002049	1	8	2	2	4	1	4	2	1	2	3	1	5	4	2	2	4	2	2	3	175	8	9	8	8	8	6	6
P198	392295	7001999	1	8	2	1	1	1	4	3	1	3	10	2	5	22	2	3	5	2	2	3	151	8	8	8	8	7	6	5
P199	392300	7001950	1	14	1	1	4	4	8	3	2	1	3	4	10	6	1	2	6	1	1	2	339	3	3	2	3	2	2	1
P200	392301	7001900	1	14	2	1	2	4	8	3	1	2	5	3	10	13	1	2	7	1	1	2	339	6	6	5	5	4	3	3
P201	392301	7001848	1	2	2	2	1	2	1	3	1	2	2	1	2	2	2	2	5	2	1	3	56	7	8	7	6	6	6	6
P202	392305	7001800	1	4	2	2	4	2	2	3	1	4	2	1	3	2	2	1	3	2	3	5	80	8	9	10	10	10	8	9
P203	392299	7001749	3	2	2	6	1	1	1	4	1	1	6	1	2	1	2	1	4	2	2	1	80	2	3	2	3	1	1	1
P204	392298	7001699	1	4	2	3	1	1	2	2	1	3	3	1	3	2	3	1	2	3	5	3	43	7	8	8	8	8	7	8
P205	392303	7001650	1	4	2	3	2	1	2	4	1	3	6	1	3	4	2	1	3	2	4	5	66	11	12	12	14	11	10	12
P206	392304	7001599	10	2	5	8	2	3	1	3	1	2	4	1	1	3	3	2	4	4	6	2	27	4	5	4	8	4	4	5
P207	391577	7000371	3	8	1	1	1	2	4	3	1	1	13	1	5	13	1	6	11	1	3	1	109	1	1	1	2	1	1	1
P208	391699	7000301	9	2	2	1	1	1	1	5	2	1	2	1	2	2	1	4	9	1	1	2	83	3	6	3	5	3	3	2
P209	391740	7000291	4	2	2	1	2	2	4	3	9	3	3	1	5	3	2	2	5	2	3	2	48	4	4	5	6	5	4	5
P211	391801	7000297	14	1	2	5	4	7	2	1	71	11	4	1	4	15	4	2	5	3	34	6	8	4	2	4	5	4	4	5
P212	391850	7000303	5	1	1	3	1	1	4	2	24	6	1	1	4	8	5	1	2	4	23	2	2	5	2	3	2	3	3	3
P214	391951	7000303	0	12	0	1	1	1	8	0	2	0	11	8	28	39	1	3	2	1	5	1	27	0	0	0	1	0	0	0
P219	392103	7000096	1	2	1	0	1	3	2	1	13	3	3	1	20	1	0	1	3	0	2	1	36	0	0	0	1	0	0	0
P222	391949	7000103	5	4	2	2	1	6	6	1	186	7	7	13	6	20	2	2	6	1	28	7	58	2	2	3	3	3	3	3
P223	391899	7000095	4	1	2	2	1	1	4	1	31	9	2	4	3	2	4	1	2	3	10	4	7	2	2	2	1	2	2	2
P224	391846	7000099	6	1	2	3	1	1	4	1	47	11	2	1	3	4	6	1	1	2	24	3	0	2	2	2	1	2	2	2
P225	391828	7000089	12	1	2	3	1	1	4	0	24	11	3	9	1	5	9	1	1	2	18	3	0	1	0	0	0	1	1	1
P228	391749	7000089	61	1	4	5	4	4	1	1	45	4	1	1	1	1	8	2	3	4	16	2	0	2	1	2	2	2	2	3
P229	391700	7000096	28	1	4	2	1	2	1	0	5	2	2	1	1	2	7	2	3	1	3	1	0	0	0	1	0	1	1	1
P230	391709	7000107	4	4	1	2	1	1	1	4	16	1	6	1	8	4	1	29	5	2	5	1	88	1	1	1	1	1	1	1
P231	392103	7001651	2	8	2	3	1	1	4	3	3	3	5	1	6	8	2	3	4	1	3	3	133	7	8	7	6	6	6	6
P232	392095	7001697	2	8	1	1	1	1	4	3	4	2	3	3	8	6	1	4	4	1	2	2	202	2	2	2	3	2	2	2
P233	392103	7001748	1	6	2	1	1	2	2	3	2	3	3	1	5	4	1	1	6	1	3	2	134	4	5	5	6	5	5	5
P234	392095	7001800	2	8	2	2	1	1	6	3	2	1	2	1	5	4	2	2	6	1	1	1	193	2	3	2	3	2	2	2
P235	392098	7001853	1	6	3	2	1	1	4	4	1	3	4	1	3	4	1	2	2	2	2	8	110	11	12	18	16	18	16	19
P236	392098	7001897	2	6	2	1	1	2	2	4	2	2	3	1	7	3	1	2	9	1	2	2	118	4	4	4	4	3	4	4

ID	83_E	83_N	Ag	As	Au	Ba	Hg	Tl	Sb	Pb	Zn	Cu	Co	Mo	Fe	Mn	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
P237	392101	7001950	2	8	2	1	1	1	6	3	2	3	2	2	5	3	2	1	4	2	2	2	138	7	8	8	8	8	7	7
P238	392099	7002000	2	1	4	3	4	1	2	2	2	5	3	1	2	6	4	1	2	3	13	7	4	4	5	6	5	6	6	8
P239	392101	7002048	2	4	3	3	1	1	1	2	2	3	1	1	3	3	4	2	2	3	7	3	23	10	13	14	13	14	13	15
P240	392098	7002100	0	16	2	2	4	2	10	2	3	3	3	4	8	7	1	1	4	1	1	3	300	14	17	12	7	10	7	6
P241	392100	7002154	3	2	3	1	1	1	2	3	1	3	3	1	4	2	3	1	3	3	3	3	33	5	6	5	7	5	5	6
P242	392096	7002200	3	4	2	2	1	1	4	4	3	3	4	1	4	4	2	2	3	3	4	2	76	5	5	6	8	6	6	7
P243	392106	7002243	2	12	2	1	1	1	8	3	2	2	4	3	9	4	1	2	7	1	1	2	209	3	4	3	5	3	3	3
P246	392021	7002299	3	8	2	1	1	2	4	4	3	2	5	2	8	3	1	3	6	1	2	2	195	3	3	3	5	3	3	3
P247	391898	7002299	1	4	2	1	1	2	2	4	1	1	5	1	3	16	2	2	5	2	2	2	79	4	4	5	9	5	5	6
P248	391900	7002200	1	2	4	3	4	1	1	3	2	4	1	1	2	3	4	2	1	4	9	5	2	7	9	9	9	9	9	12
P250	391898	7002199	3	6	2	1	1	3	4	3	2	2	2	1	7	1	1	3	6	1	1	1	175	2	3	2	4	2	2	2
P251	391900	7002148	3	6	2	1	1	2	4	3	3	2	2	1	8	1	1	2	6	1	1	2	138	4	4	3	3	3	3	3
P252	391905	7002100	4	1	4	3	4	1	1	1	2	5	1	1	1	1	5	1	1	6	8	3	1	5	5	6	4	7	6	8
P253	391904	7002044	2	6	2	1	1	1	4	3	2	2	2	1	7	1	2	2	5	2	3	1	100	2	2	2	4	2	2	2
P254	391905	7002045	2	1	3	4	10	1	1	2	3	5	0	1	1	2	6	1	0	5	15	4	1	9	9	9	9	10	10	13
P258	391902	7001950	2	8	3	2	2	1	6	2	2	3	3	1	5	3	3	2	2	2	5	4	91	8	8	9	8	10	8	8
P259	391906	7001903	2	2	2	1	1	1	2	2	1	3	1	1	3	0	3	2	2	3	3	3	33	4	4	4	5	4	4	4
P260	391902	7001851	1	8	2	1	1	2	6	2	3	3	3	2	8	2	1	2	5	1	2	3	231	5	5	5	5	5	4	5
P261	391902	7001798	1	6	4	2	1	1	4	2	1	3	3	1	5	2	2	1	4	2	3	4	129	8	9	9	9	9	8	8
P262	391902	7001749	1	6	3	1	1	1	4	2	1	2	2	1	5	1	2	1	4	2	3	2	124	5	5	6	6	5	5	6
P263	391903	7001702	3	8	2	2	1	2	6	3	1	1	2	1	5	2	2	2	6	2	1	2	206	7	11	5	4	4	3	3
P264	391450	7001352	4	8	3	1	1	1	4	3	1	3	2	1	6	1	1	1	4	1	2	4	171	5	5	5	5	4	5	5
M195	392499	7002301	2	8	2	1	1	2	4	4	2	2	3	1	5	3	1	1	5	1	1	2	184	6	6	6	6	5	5	5
M196	392498	7002244	3	2	2	2	1	1	1	4	1	3	6	1	2	7	3	2	3	3	5	4	40	9	11	11	11	12	11	12
M197	392494	7002200	3	12	1	1	1	1	8	5	3	3	12	3	7	14	1	3	5	1	1	3	379	14	14	13	11	12	9	8
M198	392498	7002148	3	4	2	1	1	1	2	3	2	3	7	1	3	7	2	2	3	2	2	3	73	7	8	9	11	9	9	9
M199	392496	7002094	1	18	2	1	1	3	8	3	12	2	9	8	20	35	1	4	12	1	1	1	402	1	1	1	2	0	0	0
M200	392502	7002049	1	12	2	1	1	2	6	3	3	3	5	4	8	11	1	2	6	1	2	2	266	5	5	6	5	5	4	4
M201	392501	7001997	1	8	2	1	1	1	4	4	2	3	7	2	5	10	1	2	6	1	2	2	167	5	5	5	7	5	5	5
M202	392500	7001946	2	4	2	1	1	2	2	3	2	3	2	1	4	3	2	1	5	2	3	3	93	6	6	7	6	7	6	7
M203	392497	7001903	1	8	3	1	1	1	4	4	2	5	19	1	7	24	2	3	3	2	2	4	159	10	11	10	11	8	8	10
M204	392497	7001848	1	8	2	1	1	1	4	4	2	2	3	2	6	5	1	6	4	1	1	2	236	1	1	1	4	1	1	2
M205	392497	7001796	6	4	2	1	1	3	1	5	2	3	7	1	4	5	1	2	5	1	1	3	147	5	5	6	8	5	5	6

ID	83_E	83_N	Ag	As	Au	Ba	Hg	Tl	Sb	Pb	Zn	Cu	Co	Mo	Fe	Mn	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
M206	392504	7001750	2	2	4	2	1	1	2	3	2	4	17	1	3	27	3	2	3	3	4	2	38	5	7	6	8	7	6	8
M207	392502	7001699	6	4	2	2	1	3	2	4	1	2	3	1	3	2	2	2	4	2	1	3	109	12	15	14	13	14	11	11
M208	392500	7001648	3	8	4	2	1	2	6	5	2	2	12	1	4	15	2	2	6	3	1	2	252	5	7	4	6	3	3	4
M209	392504	7001602	2	2	3	2	1	1	1	4	1	2	7	1	2	4	2	2	5	2	1	5	68	14	18	18	13	17	13	14
M210	392507	7001553	2	4	3	1	1	2	2	4	1	3	8	1	4	7	2	2	3	2	1	3	112	5	6	6	8	5	5	6
M211	392506	7001496	1	2	2	2	1	3	2	3	1	2	12	1	2	12	2	3	7	2	1	2	72	7	9	6	6	5	4	3
M212	392400	6999693	3	1	3	2	1	1	4	1	17	11	11	3	19	16	3	1	2	5	11	3	11	1	1	2	5	2	2	2
M214	392296	6999704	4	1	3	3	1	1	2	1	11	7	1	1	3	3	5	1	1	6	17	5	2	4	4	4	3	4	4	4
M216	392199	6999699	3	1	2	2	1	1	2	1	8	6	6	1	6	12	4	2	1	4	8	2	2	1	2	2	3	2	2	3
M217	392149	6999708	4	1	3	2	1	1	2	1	8	5	1	1	3	1	5	1	1	6	15	3	3	3	3	4	3	4	3	4
M218	392100	6999692	3	1	3	3	1	1	1	2	2	4	3	1	2	5	5	1	1	5	7	3	1	6	7	6	6	6	5	7
M219	392048	6999697	2	1	4	2	2	1	2	1	6	6	1	1	2	1	6	1	1	8	8	2	1	3	3	3	2	4	3	3
M220	391999	6999698	2	1	2	3	1	1	1	1	7	5	3	1	2	5	4	1	1	4	8	3	4	7	8	9	6	8	7	9
M221	391951	6999697	1	1	1	1	1	1	1	3	1	1	3	1	2	4	2	2	8	2	1	1	50	2	3	2	2	1	1	1
M222	391900	6999702	5	1	2	3	1	1	1	4	3	2	1	1	2	0	3	2	4	4	2	2	8	2	3	3	5	4	4	5
M223	391851	6999702	3	1	3	3	8	1	1	2	0	4	1	1	1	1	3	2	4	4	1	3	3	4	4	6	5	6	6	7
M224	391748	6999702	3	1	3	1	6	1	1	0	4	2	0	5	0	3	5	4	1	3	1	1	1	0	0	0	0	0	0	0
M225	391699	6999697	5	1	2	3	1	1	1	2	18	5	3	1	6	3	4	2	2	1	10	3	2	1	1	2	2	2	2	3
M226	391643	6999699	4	1	2	4	1	1	1	1	4	1	0	1	1	1	4	1	3	4	6	2	0	6	3	4	1	4	4	4
M227	391598	6999699	4	1	3	3	1	1	2	2	10	5	11	1	3	18	3	3	2	3	6	4	12	4	4	4	6	4	4	5
M228	391546	6999702	5	1	2	3	1	1	2	2	37	4	2	1	4	3	3	4	1	3	9	4	4	1	1	2	4	2	2	3
M229	391496	6999698	6	1	3	4	4	1	2	1	15	7	0	1	2	1	5	1	1	5	14	5	1	4	3	4	2	4	4	5
M230	391447	6999701	5	1	2	5	2	1	2	1	12	6	1	1	2	3	5	1	1	4	14	5	1	7	6	7	4	7	6	7
M231	391397	6999699	6	1	3	3	4	1	4	1	10	6	0	1	2	1	6	1	0	6	12	6	0	4	4	5	2	5	5	6
M232	391348	6999699	3	4	3	3	1	1	4	2	9	5	5	1	6	6	3	1	2	3	6	5	31	8	8	9	11	9	9	10
M233	391298	6999702	1	1	4	3	6	1	1	1	5	6	0	1	1	1	7	1	1	7	8	4	0	4	3	4	1	4	4	4
M234	391248	6999701	1	1	3	3	16	1	1	1	3	7	1	1	1	2	5	2	0	6	18	3	0	2	2	3	2	3	4	4
M235	391199	6999700	0	1	2	2	1	1	1	3	0	2	2	1	1	1	2	2	3	3	0	2	6	10	12	13	8	13	10	8
M236	391149	6999701	0	1	2	3	1	1	1	3	1	1	2	1	1	6	3	2	9	2	1	1	16	9	10	6	8	4	4	3
M237	391099	6999694	1	2	1	2	1	1	1	2	1	2	1	1	2	1	3	2	4	3	1	2	40	10	12	12	5	10	7	6
M238	391049	6999695	3	6	1	1	1	1	4	5	2	1	3	1	4	1	1	4	9	1	1	1	236	5	6	3	2	2	2	1
M239	391000	6999695	4	1	2	2	4	1	1	2	0	5	2	1	1	1	3	1	3	3	3	3	2	3	4	5	6	7	7	8
M240	390951	6999702	1	8	0	1	1	1	4	3	31	1	12	3	6	33	0	6	11	0	0	0	121	1	1	0	1	0	0	0

ID	83_E	83_N	Ag	As	Au	Ba	Hg	Tl	Sb	Pb	Zn	Cu	Co	Mo	Fe	Mn	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
M241	390902	6999698	2	12	1	2	1	1	8	3	3	2	7	3	8	11	1	5	7	1	1	1	165	5	6	3	2	2	2	1
M242	392345	6999904	5	1	4	3	2	1	4	2	7	7	3	1	3	3	4	1	2	4	10	7	0	4	4	4	4	5	5	6
M243	392299	6999898	5	1	3	2	1	1	4	2	11	7	1	1	5	1	4	1	2	3	16	6	1	3	2	3	4	3	4	4
M244	392249	6999899	2	2	2	3	1	2	1	3	1	2	2	1	1	2	3	1	6	1	1	2	28	5	5	5	5	5	5	4
M245	392198	6999901	1	6	2	1	1	3	4	3	2	2	5	1	11	4	1	1	7	1	2	1	75	1	1	2	3	2	2	2
M246	392147	6999901	1	8	2	1	1	2	4	3	5	3	7	1	9	5	1	1	5	1	4	2	83	3	3	4	4	3	4	4
M247	392101	6999898	1	6	2	2	1	3	4	2	6	4	3	1	10	4	2	2	4	2	5	2	45	5	5	5	5	5	5	5
M248	392051	6999902	4	2	4	2	44	1	1	3	1	5	1	1	1	0	3	1	2	5	2	4	1	5	6	9	5	12	12	12
M249	392001	6999898	2	1	4	4	16	1	1	1	0	4	0	1	1	1	6	1	1	7	3	4	0	4	3	4	2	6	6	7
M250	391950	6999897	3	2	2	3	22	1	1	2	1	3	3	1	0	4	4	1	1	5	3	1	0	8	6	8	5	10	11	12
M251	391901	6999901	8	8	3	2	4	1	8	3	2	2	3	3	4	5	1	5	8	1	1	2	174	4	6	4	7	4	4	4
M252	391852	6999900	1	6	0	3	1	1	2	3	1	1	3	1	3	5	2	19	6	2	1	1	46	2	2	1	2	1	1	1
M253	391802	6999898	3	8	4	2	1	5	6	5	3	1	2	2	3	3	2	3	9	2	1	3	205	11	16	6	5	4	4	4
M254	391699	6999899	1	6	1	1	1	1	1	1	7	0	2	1	3	2	2	5	3	3	0	2	21	0	0	0	0	0	0	0
M255	391644	6999891	2	1	2	4	1	1	1	1	1	2	1	1	1	1	3	2	2	3	3	1	2	1	2	2	0	3	2	2
M256	391599	6999901	2	2	3	2	1	1	1	2	2	5	2	1	5	1	3	2	4	3	10	3	13	3	3	4	6	4	4	5
M257	391550	6999896	2	1	2	3	1	1	2	2	18	5	4	1	8	2	3	0	2	2	13	4	9	3	3	4	5	4	5	6
M258	391499	6999897	3	1	2	2	1	1	2	1	10	5	1	1	4	1	5	1	1	6	10	3	0	2	2	2	2	2	3	3
M259	391447	6999902	3	1	2	2	1	1	1	2	5	2	11	1	14	1	2	1	3	2	9	1	6	1	1	2	3	3	4	4
M260	391397	6999899	2	4	2	2	1	1	2	2	9	4	6	1	9	6	3	1	2	3	9	2	23	4	4	4	7	4	5	6
M261	391345	6999897	2	1	3	3	1	1	1	2	2	5	2	1	2	1	4	1	1	4	11	5	2	6	6	6	7	6	7	8
M262	391300	6999900	1	1	1	1	1	1	1	2	3	1	10	1	9	1	1	2	6	2	3	1	13	0	0	1	3	1	2	2
M263	391248	6999897	1	2	2	2	2	1	1	3	1	2	4	1	1	2	2	2	3	2	2	4	4	15	18	15	11	11	9	9
M264	391199	6999900	0	10	0	1	1	1	6	2	20	0	3	6	9	18	1	5	7	1	1	0	162	1	1	0	1	0	0	0
M265	391148	6999902	2	1	2	5	4	1	1	2	4	6	1	1	1	1	5	2	1	4	8	6	1	9	7	8	4	8	7	8
M266	391103	6999897	3	14	3	2	1	3	8	4	4	2	2	2	9	2	1	3	9	1	1	2	291	10	12	8	5	6	5	5
M268	390999	6999898	2	2	3	2	2	1	1	3	2	4	6	1	2	3	3	1	3	3	5	3	12	8	8	9	11	9	9	10
M269	390948	6999897	5	1	2	3	1	1	2	3	16	5	1	1	6	5	4	1	3	2	19	3	5	3	3	4	6	4	5	5
M270	390902	6999899	5	4	2	3	1	3	4	2	24	6	2	2	5	2	3	2	4	2	9	3	25	4	4	5	4	5	5	5
M271	390849	6999897	3	1	1	1	1	1	1	1	5	1	4	1	9	3	2	6	4	2	4	1	23	1	1	1	2	2	2	2
M272	390797	6999897	1	4	2	0	1	1	4	2	12	5	4	4	8	6	3	3	4	4	5	3	31	4	3	4	3	3	3	3
M273	391300	7000903	5	1	2	2	2	1	4	1	7	4	1	1	2	3	6	3	1	6	8	3	0	2	2	2	1	2	3	3
M274	391303	7000950	3	2	3	2	1	1	2	2	1	2	1	1	1	4	4	12	2	5	6	2	1	4	4	5	1	5	5	5

ID	83_E	83_N	Ag	As	Au	Ba	Hg	Tl	Sb	Pb	Zn	Cu	Co	Mo	Fe	Mn	Ca	K	Rb	Mg	Ni	U	Ti	Ce	La	Nd	Sc	Sm	Tb	Y
M275	391300	7001007	2	4	3	2	1	1	2	4	1	2	3	1	2	1	3	3	3	3	4	2	22	12	12	9	4	8	7	8
M276	391299	7001054	4	1	3	3	1	1	1	5	1	1	4	1	1	4	4	2	3	4	3	2	2	6	7	4	3	3	3	3
M277	391301	7001108	2	2	2	3	1	1	1	5	1	1	7	1	1	6	3	3	4	3	3	2	12	13	15	9	5	6	6	6
M278	391303	7001154	1	4	1	2	1	1	2	6	1	1	2	1	3	1	2	3	5	3	1	1	77	1	2	1	1	0	0	0
M279	391307	7001202	2	14	1	2	1	1	8	8	3	1	4	2	7	2	1	18	9	2	2	1	193	2	1	1	1	1	1	1
M280	391308	7001249	2	2	0	1	1	1	1	5	1	0	2	4	2	2	4	12	5	2	1	0	7	0	0	0	0	0	0	0
M281	391304	7001304	0	12	0	2	1	2	6	4	2	1	6	3	7	7	1	4	8	1	1	1	285	3	4	2	1	1	1	1
M282	391300	7001349	3	4	2	3	1	1	1	2	3	1	3	1	2	6	2	4	2	3	1	1	21	8	9	6	1	4	3	3
M283	391300	7001402	4	2	2	3	1	1	4	1	21	9	6	2	4	27	4	2	2	4	15	3	4	3	3	3	2	3	3	3
M284	392097	7001100	2	2	1	2	1	1	2	3	1	2	2	1	5	3	3	5	6	2	2	1	50	1	1	1	2	1	1	1
M285	392099	7001051	3	2	0	2	1	1	1	3	0	0	2	1	1	1	4	15	9	3	2	0	4	0	0	0	0	0	0	0
M286	392098	7000997	2	1	1	1	1	1	1	2	1	1	4	2	1	9	4	16	3	4	2	1	1	0	0	0	0	0	0	0
M287	392105	7000950	3	4	5	3	1	1	1	5	2	2	13	1	1	23	4	12	1	7	6	2	2	6	6	6	6	6	6	7
M288	392105	7000896	4	2	1	2	2	1	4	1	2	2	4	1	1	16	3	4	2	2	7	2	2	3	4	5	1	5	4	4
M289	392099	7000852	1	4	3	2	1	1	2	2	2	2	2	1	2	4	3	6	3	3	6	1	25	11	7	7	2	5	4	4
M290	392101	7000804	2	2	2	1	1	1	1	4	1	1	2	3	1	3	3	34	7	4	1	1	15	1	1	1	1	1	1	1
M291	392098	7000752	9	2	1	1	1	1	1	2	4	1	9	2	1	29	4	18	1	4	2	1	4	0	0	0	1	0	0	0
M292	392105	7000699	4	1	2	2	4	1	1	2	3	1	1	1	0	3	3	17	0	8	3	1	5	1	1	1	0	1	2	1
M293	392096	7000648	4	1	4	3	22	1	2	3	4	2	2	1	0	6	5	12	0	10	7	2	2	1	1	1	0	2	2	2
M294	392093	7000603	4	1	4	3	2	1	2	3	1	2	4	1	1	14	5	14	1	12	5	4	3	1	1	1	0	1	1	1

ID	83_E	83_N	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
P194	392296	7002198	0.21	0.7	73.6	18.8	7	0.3	1.9	0.5	50	2.58	148.6	17.5	0.3	7	0.05	6.2	0.05	59	0.005	0.038
P210	391753	7000300	0.13	39.4	66.6	3.8	355	0.5	112.4	2.5	44	1.07	1.2	3.7	1.2	6	0.8	1.2	0.1	106	0.16	0.088
P217	392284	7000055	0.23	2.7	49.9	4.5	74	2.4	18.1	0.9	23	0.87	6.1	3.6	1	29	0.7	2.7	0.05	26	0.21	0.113
P218	392204	7000103	0.15	0.6	7.4	0.9	7	0.2	2.6	0.2	49	0.49	0.8	1.1	0.2	13	0.05	0.5	0.05	4	0.005	0.008
P221	392019	7000103	0.38	7.9	63.6	8.1	228	0.6	47.2	2.8	61	2.36	5.4	4.6	5.5	9	0.5	2.3	0.2	24	0.02	0.052
P227	391797	7000096	0.35	8.1	59.8	3.4	241	0.5	63.1	5	127	2.11	1.3	0.7	2	30	1.1	0.8	0.05	75	0.62	0.237
P244	392103	7002248	0.16	0.7	57.3	3.3	8	0.05	1.5	0.4	45	1.96	15	1.1	0.4	22	0.05	0.9	0.05	14	0.005	0.028
P245	392098	7002310	0.35	0.9	73.2	3.1	9	0.05	1.2	0.3	40	2.07	19.6	1.1	0.3	13	0.05	1.5	0.05	31	0.005	0.05
P249	391906	7002249	0.17	0.6	23.7	3.2	5	0.3	1.5	0.5	51	0.87	53.1	14.8	0.5	3	0.05	2.7	0.3	9	0.005	0.01
P255	391897	7001999	0.17	0.3	22.3	4.7	6	0.1	1.5	0.3	71	0.71	14	0.8	0.3	12	0.05	2.3	0.05	4	0.005	0.012
P256	391897	7001999	0.18	1.7	25.5	17.9	15	0.05	1.7	0.6	86	1.29	17.6	1.3	0.2	59	0.05	2	0.05	16	0.01	0.044
P257	391897	7001999	0.09	0.6	11	2.1	7	0.05	2.5	3	235	0.77	10	2	0.5	4	0.05	0.8	0.05	8	0.01	0.009
P265	391259	7000205	0.13	14	623.1	3.1	345	0.2	102.2	8.3	103	7.14	10	3.8	3.7	8	3.2	2.6	0.1	68	0.02	0.152
P266	391259	7000205	0.17	1.1	20.8	6.5	9	0.4	3.8	0.3	23	0.5	7	2.7	1.1	6	0.2	0.8	0.1	3	0.005	0.01
P267	391259	7000205	0.23	4.9	76.6	1.2	70	0.2	27.5	2.1	46	1.77	9.4	4.1	1.8	18	0.9	3.2	0.05	32	0.01	0.068
P268	390923	7000073	0.16	0.6	14	0.7	8	0.05	6.2	1.3	53	1.2	20.5	0.7	0.3	2	0.05	0.5	0.05	2	0.005	0.009
P269	391043	6999910	0.18	0.4	9.3	1.4	10	0.05	6.8	13	147	0.7	3	1.5	0.5	2	0.05	0.3	0.05	6	0.005	0.009
P270	391043	6999910	0.22	0.3	12.3	0.6	6	0.05	6.7	9.8	139	0.52	2.7	1.8	0.2	1	0.05	0.7	0.05	2	0.01	0.011
P271	391070	6999926	0.25	0.4	24	1	21	0.1	10.1	4.4	111	0.58	21.7	1	0.3	3	0.05	0.4	0.05	4	0.005	0.006
P272	391039	6999905	0.25	4.7	112.3	8.6	146	0.7	98.8	30.7	3403	18.73	20.1	4.6	3.2	4	0.5	1	0.2	31	0.01	0.047
P273	391040	6999901	0.22	0.4	37.6	4.1	10	0.05	158.5	40.7	69	0.54	32.2	2.8	1.2	1	0.05	1.9	0.2	8	0.005	0.008
P274	391019	6999885	0.24	1	77.8	32.4	20	0.2	75.9	27	79	1.2	54	1.7	2	4	0.05	6.4	0.2	6	0.005	0.013
P275	391016	6999878	0.18	33.1	164.6	9.4	56	0.4	84.4	23	95	2.72	10.2	0.5	1.8	4	0.2	4.7	0.05	10	0.005	0.022
P276	391013	6999870	0.2	0.4	12.6	1.5	8	0.05	9.2	3.7	101	0.62	3.7	0.25	0.4	1	0.05	0.6	0.05	4	0.005	0.008
P277	391015	6999851	0.32	0.6	17	3.5	11	0.05	10.3	4.6	211	0.69	2.5	2.1	0.5	1	0.05	0.5	0.05	6	0.02	0.012
P278	391136	6999783	0.18	3.5	33.3	1.3	22	0.05	21.3	5.6	207	2.62	15.1	2.5	0.4	1	0.2	1.8	0.05	8	0.005	0.023

ID	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
P194	1	13	0.005	58	0.002	0.5	0.1	0.002	0.05	0.05	0.1	1.6	0.05	0.025	1	1.6	0.1
P210	8	6	0.04	251	0.003	0.5	0.24	0.003	0.09	0.5	0.09	0.9	0.1	0.025	0.5	7.4	0.1
P217	4	8	0.01	580	0.005	2	0.15	0.003	0.06	0.3	0.08	0.5	0.05	0.025	0.5	5.4	0.1
P218	0.5	3	0.005	86	0.0005	9	0.12	0.001	0.04	0.2	0.005	0.2	0.1	0.025	0.5	1.1	0.1
P221	14	7	0.04	266	0.002	0.5	0.31	0.002	0.13	0.2	0.03	2.4	0.2	0.05	0.5	2.9	0.1
P227	9	14	0.06	609	0.078	0.5	0.43	0.006	0.07	0.4	0.02	1.8	0.1	0.025	1	3.4	0.1
P244	2	10	0.005	182	0.0005	0.5	0.09	0.001	0.03	0.05	0.05	1.4	0.05	0.025	0.5	2	0.1
P245	1	9	0.005	112	0.002	0.5	0.08	0.0005	0.02	0.05	0.07	1.3	0.05	0.025	0.5	2.2	0.1
P249	1	4	0.005	87	0.0005	1	0.07	0.0005	0.04	0.05	0.01	0.6	0.05	0.025	0.5	1	0.1
P255	2	4	0.005	117	0.0005	0.5	0.05	0.001	0.02	0.05	0.005	0.9	0.05	0.025	0.5	0.7	0.1
P256	4	6	0.005	426	0.001	0.5	0.1	0.0005	0.02	0.2	0.02	1.5	0.05	0.025	0.5	1.1	0.1
P257	1	6	0.01	70	0.003	0.5	0.11	0.001	0.03	0.2	0.01	0.8	0.05	0.025	0.5	0.25	0.1
P265	3	23	0.03	350	0.004	0.5	0.57	0.003	0.09	0.2	0.05	1.3	0.1	0.025	2	3.3	0.1
P266	3	4	0.01	209	0.002	0.5	0.14	0.002	0.07	0.05	0.005	0.5	0.05	0.025	0.5	1.1	0.1
P267	10	13	0.02	421	0.003	0.5	0.28	0.003	0.1	0.1	0.02	1.4	0.05	0.025	1	1.2	0.1
P268	2	3	0.03	64	0.003	0.5	0.08	0.001	0.04	0.05	0.005	0.4	0.05	0.025	0.5	0.6	0.1
P269	0.5	5	0.01	61	0.002	1	0.13	0.002	0.04	0.05	0.005	1	0.05	0.025	0.5	0.25	0.1
P270	0.5	2	0.005	54	0.001	0.5	0.07	0.0005	0.03	0.05	0.005	0.4	0.05	0.025	0.5	0.25	0.1
P271	1	3	0.005	73	0.002	0.5	0.08	0.0005	0.03	0.1	0.005	0.5	0.05	0.025	0.5	0.8	0.1
P272	11	13	0.03	551	0.001	0.5	0.42	0.003	0.08	0.2	0.05	3.1	0.4	0.025	2	0.25	0.1
P273	3	3	0.05	124	0.004	0.5	0.17	0.002	0.08	0.4	0.005	0.7	0.05	0.025	0.5	0.25	0.1
P274	5	4	0.02	148	0.002	0.5	0.18	0.002	0.09	0.4	0.005	0.7	0.05	0.025	0.5	0.25	0.1
P275	5	6	0.02	241	0.003	0.5	0.24	0.003	0.11	0.7	0.03	0.8	0.05	0.025	0.5	0.8	0.1
P276	0.5	4	0.005	46	0.001	0.5	0.08	0.0005	0.03	0.1	0.005	0.7	0.05	0.025	0.5	0.25	0.1
P277	2	4	0.02	54	0.003	0.5	0.14	0.0005	0.03	0.05	0.005	1.4	0.05	0.025	0.5	0.25	0.1
P278	1	5	0.01	51	0.002	0.5	0.12	0.0005	0.02	0.1	0.02	0.9	0.1	0.025	0.5	0.8	0.1

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Certificate of Analysis

Work Order: TO122330

To: Gordon Richards
Gordon Richards
6410 Holly Park Drive
DELTA
BC V4K 4W6

Date: Aug 29, 2012

P.O. No.	:	Project:SPEC
Project No.	:	-
No. Of Samples	:	13
Date Submitted	:	Aug 04, 2012
Report Comprises	:	Pages 1 to 7 (Inclusive of Cover Sheet)

Distribution of unused material:
Discard samples:

Certified By : [signature]
Bruce Robertson
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	—	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Final : TO122330 Order: Project:SPEC

Element	Ag@	Al@	As@	Au@	Ba@	Bi@	Ca@	Cd@	Ce@	Co@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
P196	10	83	<10	0.6	18800	<1	540	2	1130	16
P197	14	138	40	0.4	10900	<1	180	2	1360	62
P198	13	115	40	0.4	8420	<1	170	3	1300	237
P199	11	222	70	0.2	5230	1	90	4	455	79
P200	13	215	70	0.4	6330	<1	100	4	997	116
P201	12	121	10	0.3	9760	<1	190	3	1220	48
P202	9	141	20	0.3	11600	<1	190	2	1330	56
P203	27	246	10	0.3	36200	<1	170	5	347	128
P204	14	139	20	0.4	16400	<1	260	4	1200	75
P205	12	172	20	0.3	16600	<1	200	3	1900	145
P206	101	160	10	0.9	46200	<1	280	5	698	91
P207	33	239	40	0.2	8540	<1	110	8	223	290
P208	90	214	10	0.3	7880	<1	70	9	580	48
*Rep P208	96	206	20	0.3	8900	<1	90	7	796	63
*Std MMISRM16	19	45	10	26.8	60	<1	240	4	17	60
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

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Element	Cr@	Cs@	Cu@	Dy@	Er@	Eu@	Fe@	Ga@	Gd@	Hg@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
P196	<100	<0.5	1450	265	149	56.0	11	3	298	8
P197	<100	0.6	680	241	127	64.5	71	12	296	2
P198	<100	1.2	1010	228	113	62.1	70	11	271	<1
P199	200	2.2	490	64	28.4	17.3	132	15	75	2
P200	200	3.5	790	119	55.4	33.7	129	18	142	1
P201	<100	1.1	800	233	108	55.5	26	8	256	<1
P202	<100	0.7	1490	361	201	88.2	40	11	415	2
P203	<100	0.7	260	57	28.0	14.5	32	5	56	<1
P204	<100	<0.5	1160	302	161	73.8	38	8	341	<1
P205	<100	<0.5	1130	444	249	103	41	12	492	1
P206	<100	3.3	750	185	105	39.6	8	5	180	1
P207	100	7.5	320	33	14.3	8.1	64	7	33	<1
P208	<100	2.8	500	106	41.3	25.4	28	7	105	<1
*Rep P208	<100	3.0	550	143	56.2	33.4	34	8	143	<1
*Std MMISRM16	<100	11.0	730	3	1.1	1.1	3	<1	4	21
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	1	<1

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Final : TO122330 Order: Project:SPEC

Element	In@	K@	La@	Li@	Mg@	Mn@	Mo@	Nb@	Nd@	Ni@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
P196	<0.5	1.7	381	<5	138	700	<5	<0.5	575	1740
P197	<0.5	4.3	631	<5	29	1750	<5	3.9	1020	267
P198	<0.5	6.5	517	<5	32	8750	6	3.4	915	241
P199	<0.5	5.3	212	<5	12	2410	10	8.7	273	116
P200	<0.5	5.7	431	<5	10	5040	7	8.9	551	152
P201	<0.5	5.8	539	<5	36	800	<5	0.8	834	187
P202	<0.5	3.5	581	<5	30	870	<5	1.8	1190	434
P203	<0.5	2.4	175	<5	36	570	<5	0.6	183	262
P204	<0.5	3.1	529	<5	48	860	<5	<0.5	977	673
P205	<0.5	2.8	841	<5	40	1500	<5	1.1	1470	565
P206	<0.5	5.2	357	<5	71	1110	<5	<0.5	494	807
P207	<0.5	13.8	100	<5	20	5140	<5	1.7	109	371
P208	<0.5	8.9	402	<5	14	950	<5	1.0	405	72
*Rep P208	<0.5	8.6	558	<5	17	1360	<5	1.8	552	86
*Std MMISRM16	<0.5	40.6	4	<5	35	120	45	<0.5	15	241
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5

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Final : TO122330 Order: Project:SPEC

Element	P@	Pb@	Pd@	Pr@	Pt@	Rb@	Sb@	Sc@	Sm@	Sn@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
P196	<0.1	160	<1	98	<1	14	<1	126	195	<1
P197	1.3	190	<1	220	<1	65	2	286	256	<1
P198	1.1	200	<1	188	<1	80	2	289	235	<1
P199	4.5	260	<1	61	<1	106	4	126	66	<1
P200	5.5	220	<1	126	<1	125	4	193	130	<1
P201	0.5	250	<1	171	<1	91	<1	235	215	<1
P202	0.9	260	<1	234	<1	57	1	377	334	<1
P203	0.6	320	<1	41	<1	64	<1	94	44	<1
P204	0.5	190	<1	197	<1	41	1	300	268	<1
P205	0.6	300	<1	296	<1	58	1	536	384	<1
P206	0.3	250	<1	100	<1	60	<1	309	129	<1
P207	2.6	200	<1	26	<1	185	2	72	28	<1
P208	1.3	400	<1	98	<1	160	<1	182	91	<1
*Rep P208	1.4	360	<1	136	<1	176	<1	228	124	<1
*Std MMISRM16	0.2	110	25	3	<1	318	<1	13	5	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1

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Final : TO122330 Order: Project:SPEC

Element	Sr@	Ta@	Tb@	Te@	Th@	Ti@	Tl@	U@	W@	Y@
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
P196	3470	<1	43	<10	13.0	<3	<0.5	97	<1	1720
P197	800	<1	42	<10	67.1	1810	<0.5	68	1	1370
P198	750	<1	39	<10	86.9	1560	<0.5	77	1	1230
P199	350	<1	11	<10	76.5	3500	1.0	40	2	316
P200	340	<1	21	<10	86.7	3500	1.0	56	2	626
P201	1000	<1	39	<10	48.9	577	0.6	69	<1	1320
P202	830	<1	58	<10	53.1	831	0.5	113	<1	2110
P203	1210	<1	9	<10	35.5	828	<0.5	22	<1	318
P204	1280	<1	49	<10	70.5	442	<0.5	71	<1	1800
P205	1140	<1	71	<10	69.5	683	<0.5	125	<1	2770
P206	1840	<1	29	<10	38.3	282	0.7	49	<1	1170
P207	470	<1	5	<10	48.1	1130	0.5	21	<1	162
P208	340	<1	18	<10	56.4	857	<0.5	47	<1	493
*Rep P208	450	<1	25	<10	61.4	1260	0.5	51	<1	705
*Std MMISRM16	480	<1	<1	<10	20.9	7	<0.5	48	<1	11
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5

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Final : TO122330 Order: Project:SPEC

Element	Yb@	Zn@	Zr@
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
P196	107	30	38
P197	102	40	114
P198	85	40	146
P199	19	50	220
P200	38	40	256
P201	68	30	72
P202	153	30	85
P203	19	20	63
P204	120	30	87
P205	195	20	96
P206	84	20	49
P207	10	40	111
P208	25	50	199
*Rep P208	32	70	212
*Std MMISRM16	<1	320	15
*Blk BLANK	<1	<20	<5

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Certificate of Analysis

Work Order: TO122406

To: Gordon Richards
Gordon Richards
6410 Holly Park Drive
DELTA
BC V4K 4W6

Date: Aug 10, 2012

P.O. No.	:	Project:SPEC
Project No.	:	-
No. Of Samples	:	72
Date Submitted	:	Jul 26, 2012
Report Comprises	:	Pages 1 to 13 (Inclusive of Cover Sheet)

Distribution of unused material:
Discard samples:

Certified By : [signature]
Bruce Robertson
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer: L.N.R. = Listed not received | I.S. = Insufficient Sample
n.a. = Not applicable | -- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M222	55	105	<10	0.4	16200	<1	260	7	409	32
M223	33	75	<10	0.6	18600	<1	310	4	652	31
M224	34	5	<10	0.6	8810	<1	440	37	23	<5
M225	51	92	<10	0.3	19300	<1	360	62	181	60
M226	39	53	<10	0.4	25500	<1	390	7	960	<5
M227	43	105	<10	0.6	16100	<1	300	14	644	254
M228	49	96	<10	0.3	17500	<1	300	62	234	52
M229	64	51	<10	0.6	25800	<1	480	15	647	8
M230	50	81	<10	0.3	28400	<1	450	12	1160	17
M231	60	57	<10	0.6	19500	<1	510	10	692	8
M232	34	133	20	0.5	16200	<1	260	9	1340	112
M233	15	41	<10	0.8	17000	<1	590	6	590	6
M234	13	38	<10	0.5	17600	<1	410	5	335	31
M235	4	77	<10	0.3	14500	<1	220	2	1700	50
M236	5	105	<10	0.3	15000	<1	260	5	1430	48
M237	8	69	10	0.2	12600	<1	230	4	1670	22
M238	34	162	30	0.1	6490	<1	70	4	794	70
M239	46	56	<10	0.4	12900	<1	240	1	512	49
M240	6	212	40	<0.1	3870	<1	<10	5	146	277
M241	24	140	60	0.2	9310	<1	90	5	823	164
M242	50	71	<10	0.7	18200	<1	400	8	709	64
M243	47	66	<10	0.5	14000	<1	350	12	424	21
M244	23	95	10	0.4	17400	<1	240	3	796	50
M245	12	220	30	0.3	7390	<1	50	7	241	114
M246	13	187	40	0.4	7090	<1	100	9	582	150
M247	15	153	30	0.3	11500	<1	160	15	865	69
M248	44	50	10	0.8	13700	<1	290	<1	834	34
M249	18	38	<10	0.8	22000	<1	500	<1	676	11
M250	32	63	10	0.4	17400	<1	390	4	1310	60
M251	80	154	40	0.5	12600	<1	130	16	742	72
M252	13	94	30	<0.1	17500	<1	160	15	321	77
M253	27	148	40	0.8	14600	<1	170	6	1780	40
M254	7	31	30	0.1	3970	<1	170	4	67	35
M255	20	32	<10	0.4	23200	<1	300	3	205	12
M256	22	130	10	0.5	14500	<1	270	8	539	45
M257	20	121	<10	0.3	15400	<1	240	29	583	102
M258	28	57	<10	0.4	11700	<1	440	36	368	23
M259	31	107	<10	0.3	10000	<1	140	30	221	242
M260	23	128	20	0.3	12100	<1	230	19	627	143
M261	24	91	<10	0.5	17300	<1	390	3	965	45
M262	9	198	<10	0.1	6670	<1	100	6	63	220
M263	15	103	10	0.3	13800	<1	220	3	2510	95
M264	4	104	50	<0.1	3510	<1	130	8	94	64

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M265	24	85	<10	0.3	29300	<1	410	10	1470	32
M266	28	200	70	0.5	10000	1	80	7	1660	56
M268	18	114	10	0.6	14600	<1	290	7	1330	138
M269	50	88	<10	0.4	18900	<1	320	30	578	22
M270	52	88	20	0.3	20500	<1	290	74	698	38
M271	26	130	<10	0.2	6940	<1	180	29	165	94
M272	15	88	20	0.3	1970	<1	310	17	726	87
M273	49	33	<10	0.3	13800	<1	530	21	329	13
M274	27	61	10	0.5	13100	<1	350	4	742	22
M275	18	124	20	0.6	13300	<1	290	5	1930	75
M276	44	113	<10	0.5	14900	<1	330	5	1050	90
M277	17	108	10	0.4	15700	<1	250	2	2110	168
M278	11	121	20	0.2	10600	<1	220	1	189	38
M279	24	190	70	0.2	9410	1	90	2	253	85
M280	24	94	10	<0.1	7230	<1	340	2	46	43
M281	5	148	60	<0.1	11000	<1	50	2	508	134
M282	29	43	20	0.3	15200	<1	200	6	1390	63
M283	37	48	10	0.4	18200	<1	360	30	457	144
M284	25	116	10	0.2	10100	<1	240	4	160	51
M285	33	88	10	<0.1	11600	<1	320	3	47	40
M286	20	74	<10	0.1	7850	<1	360	6	51	81
M287	33	102	20	1.0	15500	<1	390	9	958	300
M288	40	48	10	0.2	9770	<1	270	6	530	98
M289	14	67	20	0.5	13600	<1	270	6	1790	38
M290	22	96	10	0.3	6430	<1	260	4	129	50
M291	95	70	10	0.2	8310	<1	390	21	80	206
M292	38	29	<10	0.4	14100	<1	290	13	119	30
M293	42	34	<10	0.7	16900	<1	460	19	190	44
M294	44	19	<10	0.8	17200	<1	420	6	124	92
*Rep M227	28	103	<10	0.4	16700	<1	320	12	561	168
*Rep M246	12	187	40	0.4	7220	<1	100	8	561	133
*Rep M251	81	144	40	0.6	12700	<1	140	14	830	60
*Rep M266	23	194	70	0.5	11000	<1	100	7	1760	59
*Rep M285	34	85	<10	<0.1	11000	<1	320	4	44	46
*Rep M290	29	88	10	0.4	6730	<1	250	3	104	52
*Std MMISRM16	16	49	20	23.2	50	<1	220	5	22	63
*Std AMIS0169	10	68	20	0.4	830	<1	40	2	1110	141
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	10	<1	<10	<1	<5	<5

Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M222	<100	0.9	770	176	99.4	35.3	24	6	168	<1
M223	<100	1.0	1390	265	156	64.7	8	6	300	4
M224	<100	<0.5	740	12	7.7	3.2	6	<1	14	3
M225	<100	0.7	1900	108	73.2	22.2	74	2	107	<1
M226	<100	<0.5	450	147	81.7	39.7	10	5	187	<1
M227	<100	<0.5	1800	188	113	40.4	37	6	193	<1
M228	<100	<0.5	1340	99	63.3	21.1	56	3	95	<1
M229	<100	<0.5	2360	173	103	42.1	23	5	199	2
M230	<100	<0.5	2160	277	165	67.9	22	8	322	1
M231	<100	<0.5	2280	226	133	51.7	22	5	252	2
M232	<100	<0.5	1620	365	207	82.1	77	11	394	<1
M233	<100	<0.5	2120	167	94.1	41.9	11	4	202	3
M234	<100	<0.5	2430	170	97.3	39.5	9	3	194	8
M235	<100	0.7	570	379	198	120	7	13	514	<1
M236	<100	1.2	310	152	72.8	40.2	15	9	178	<1
M237	<100	1.0	600	277	139	85.2	20	14	375	<1
M238	<100	1.2	210	60	27.3	17.3	51	11	67	<1
M239	<100	<0.5	1850	297	175	71.1	10	6	340	2
M240	200	4.9	180	7	2.8	2.5	83	9	8	<1
M241	200	3.4	530	68	28.9	19.0	106	13	81	<1
M242	<100	<0.5	2420	220	125	50.7	33	5	234	1
M243	<100	0.7	2630	151	87.1	34.0	59	3	152	<1
M244	<100	1.5	800	192	93.7	49.1	17	7	220	<1
M245	<100	2.1	830	83	38.3	16.0	137	10	71	<1
M246	<100	1.8	1110	154	77.5	32.7	119	11	151	<1
M247	<100	1.4	1520	210	103	45.6	124	9	212	<1
M248	<100	<0.5	1740	505	310	117	8	8	587	22
M249	<100	<0.5	1290	268	153	62.6	8	5	320	8
M250	<100	<0.5	920	444	269	104	6	9	522	11
M251	<100	2.2	710	158	81.1	37.5	58	10	170	2
M252	<100	1.4	190	31	15.5	11.1	41	5	41	<1
M253	<100	5.0	460	138	66.1	31.4	44	14	174	<1
M254	<100	1.1	130	7	3.5	2.4	42	2	9	<1
M255	<100	0.7	540	94	55.2	26.5	11	2	125	<1
M256	<100	0.7	1760	200	114	39.0	67	5	181	<1
M257	<100	<0.5	1780	202	116	45.0	100	6	202	<1
M258	<100	<0.5	1850	114	64.6	25.3	58	3	120	<1
M259	<100	0.5	700	178	97.0	28.1	177	4	137	<1
M260	<100	<0.5	1380	215	126	43.3	115	6	207	<1
M261	<100	<0.5	1890	296	175	63.5	28	7	307	<1
M262	<100	<0.5	460	94	59.8	10.1	118	4	52	<1
M263	<100	<0.5	660	370	179	92.8	12	16	441	1
M264	200	1.3	120	9	3.9	2.6	118	9	10	<1

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Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M265	<100	<0.5	2050	299	174	73.1	16	9	346	2
M266	100	3.1	540	209	88.4	52.8	113	21	247	<1
M268	<100	<0.5	1460	399	227	87.4	26	10	419	1
M269	<100	<0.5	1880	206	121	44.4	83	5	213	<1
M270	<100	1.7	2250	205	113	51.6	70	7	227	<1
M271	<100	0.7	450	105	55.0	18.6	118	6	89	<1
M272	100	<0.5	1630	134	70.1	31.2	98	7	154	<1
M273	<100	<0.5	1370	116	72.4	24.1	20	2	131	1
M274	<100	<0.5	760	202	116	44.6	15	5	243	<1
M275	<100	<0.5	820	299	156	70.9	29	12	346	<1
M276	<100	<0.5	390	125	62.9	28.9	13	6	144	<1
M277	<100	<0.5	430	219	93.5	51.6	17	12	263	<1
M278	<100	0.8	180	18	8.0	5.1	35	5	19	<1
M279	<100	1.6	280	37	20.3	9.2	87	11	38	<1
M280	<100	0.8	170	6	2.6	2.2	20	1	6	<1
M281	100	2.6	280	33	13.8	10.8	84	12	40	<1
M282	<100	<0.5	250	121	54.9	35.1	21	8	167	<1
M283	<100	<0.5	3210	120	71.2	29.8	51	4	142	<1
M284	<100	1.0	530	32	15.4	7.3	61	5	29	<1
M285	<100	0.7	150	9	4.0	3.1	15	1	10	<1
M286	<100	<0.5	220	13	7.6	3.5	13	1	14	<1
M287	<100	<0.5	720	280	177	58.1	18	6	298	<1
M288	<100	0.8	540	154	83.0	41.4	17	5	202	1
M289	<100	<0.5	610	174	83.5	45.0	27	10	224	<1
M290	<100	1.9	340	26	16.5	6.0	17	2	29	<1
M291	<100	<0.5	400	13	9.0	3.2	17	2	14	<1
M292	<100	<0.5	470	67	45.1	15.4	6	2	84	2
M293	<100	<0.5	670	90	64.0	18.7	6	2	106	11
M294	<100	<0.5	790	59	34.5	11.9	9	2	65	1
*Rep M227	<100	<0.5	1210	159	92.8	36.7	29	5	170	<1
*Rep M246	<100	1.7	1100	148	73.4	31.9	119	11	140	<1
*Rep M251	<100	2.3	710	148	74.2	37.1	56	11	165	1
*Rep M266	100	3.1	570	224	97.4	57.4	111	21	273	1
*Rep M285	<100	0.7	160	8	3.9	2.8	14	1	9	<1
*Rep M290	<100	1.8	320	23	15.1	5.8	15	2	29	<1
*Std MMISRM16	<100	11.7	680	3	1.5	1.4	4	<1	6	26
*Std AMIS0169	100	8.6	4210	35	15.7	14.2	61	18	55	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
M222	<0.5	4.3	212	<5	74	120	<5	0.6	406	267
M223	<0.5	4.7	291	<5	80	270	<5	<0.5	678	190
M224	<0.5	10.3	7	6	59	990	12	<0.5	18	107
M225	<0.5	4.8	92	<5	28	1220	<5	<0.5	206	1330
M226	<0.5	3.6	235	<5	66	270	<5	<0.5	487	750
M227	<0.5	6.3	279	<5	57	6850	<5	0.6	508	830
M228	<0.5	9.2	97	<5	60	1030	<5	<0.5	209	1230
M229	<0.5	2.5	190	5	98	240	<5	<0.5	444	1810
M230	<0.5	2.4	406	<5	77	1010	<5	<0.5	849	1840
M231	<0.5	2.0	257	<5	120	410	<5	<0.5	558	1630
M232	<0.5	2.2	559	<5	58	2190	<5	1.2	1100	845
M233	<0.5	3.3	186	9	132	200	<5	<0.5	452	1090
M234	<0.5	3.9	115	<5	110	700	<5	<0.5	316	2350
M235	<0.5	3.8	821	<5	54	410	<5	<0.5	1570	62
M236	<0.5	5.4	646	<5	38	2170	<5	0.7	680	155
M237	<0.5	5.1	822	<5	55	330	<5	2.0	1390	127
M238	<0.5	9.3	381	<5	22	320	<5	7.9	322	77
M239	<0.5	2.7	253	<5	57	280	<5	<0.5	648	354
M240	<0.5	13.9	40	<5	1	12900	7	6.4	33	51
M241	<0.5	12.2	428	<5	19	4160	7	5.3	350	123
M242	<0.5	1.8	272	<5	66	1260	<5	<0.5	539	1340
M243	<0.5	2.2	162	<5	58	220	<5	<0.5	347	2190
M244	<0.5	3.4	368	<5	25	650	<5	1.3	620	145
M245	<0.5	3.2	88	<5	13	1410	<5	4.1	192	314
M246	<0.5	3.1	206	<5	19	1770	<5	4.0	433	543
M247	<0.5	5.0	338	<5	30	1530	<5	2.5	619	731
M248	<0.5	3.3	387	<5	95	150	<5	<0.5	1120	321
M249	<0.5	2.6	172	<5	136	390	<5	<0.5	513	388
M250	<0.5	3.5	407	<5	103	1370	<5	<0.5	1020	339
M251	<0.5	13.5	395	<5	23	2090	7	5.6	491	129
M252	<0.5	46.7	133	<5	44	1990	<5	2.2	160	177
M253	<0.5	6.9	1050	<5	38	1170	5	6.8	698	156
M254	<0.5	12.1	29	<5	54	730	<5	1.5	36	42
M255	<0.5	5.6	117	<5	54	520	<5	<0.5	284	375
M256	<0.5	3.8	228	<5	48	260	<5	0.9	437	1360
M257	<0.5	1.2	234	<5	38	920	<5	0.8	503	1720
M258	<0.5	1.3	138	<5	118	540	<5	<0.5	281	1400
M259	<0.5	1.4	54	<5	32	550	<5	<0.5	280	1240
M260	<0.5	3.3	251	<5	52	2300	<5	1.1	526	1220
M261	<0.5	2.4	384	<5	71	370	<5	<0.5	738	1490
M262	<0.5	5.1	16	<5	34	290	<5	0.6	79	416
M263	<0.5	4.2	1210	<5	36	620	<5	<0.5	1780	216
M264	<0.5	13.6	44	<5	27	6910	15	7.1	46	81

Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
M265	<0.5	4.5	499	<5	70	440	<5	<0.5	943	1010
M266	<0.5	7.3	823	<5	14	780	6	10.0	1010	103
M268	<0.5	3.2	560	<5	58	1130	<5	<0.5	1130	622
M269	<0.5	2.2	227	<5	43	1820	<5	<0.5	483	2490
M270	<0.5	4.7	269	<5	34	710	6	1.7	587	1150
M271	<0.5	14.1	51	<5	41	1240	<5	2.3	161	571
M272	<0.5	8.0	233	<5	71	2260	9	2.8	477	711
M273	<0.5	7.1	116	13	120	1120	<5	<0.5	267	1090
M274	<0.5	31.0	268	<5	87	1500	<5	<0.5	560	757
M275	<0.5	6.7	797	<5	59	540	<5	0.9	1130	593
M276	<0.5	5.7	479	<5	72	1630	<5	<0.5	509	336
M277	<0.5	7.7	1010	<5	62	2510	<5	<0.5	1120	397
M278	<0.5	6.3	144	<5	50	390	<5	3.5	72	189
M279	<0.5	45.7	100	<5	29	860	5	11.0	121	237
M280	<0.5	29.7	25	<5	45	590	9	0.7	21	104
M281	<0.5	9.8	279	<5	12	2910	7	10.6	190	70
M282	<0.5	9.6	593	<5	51	2390	<5	0.8	723	150
M283	<0.5	6.2	204	<5	67	10500	6	<0.5	384	2040
M284	<0.5	12.3	77	<5	46	990	<5	2.1	84	293
M285	<0.5	36.8	20	<5	49	410	<5	<0.5	22	222
M286	<0.5	39.9	16	<5	75	3660	6	<0.5	31	220
M287	<0.5	30.1	431	<5	136	8800	<5	<0.5	725	853
M288	<0.5	8.8	261	<5	46	6070	<5	<0.5	619	882
M289	<0.5	14.1	506	<5	48	1730	<5	1.2	794	758
M290	<0.5	84.8	64	<5	75	1120	8	0.9	73	187
M291	<0.5	43.8	23	<5	78	11100	5	<0.5	35	321
M292	<0.5	42.0	56	<5	154	1030	<5	<0.5	148	438
M293	<0.5	30.2	61	8	195	2520	<5	<0.5	167	948
M294	<0.5	34.9	68	27	218	5290	<5	<0.5	129	705
*Rep M227	<0.5	6.0	254	<5	56	3730	<5	0.6	462	667
*Rep M246	<0.5	2.8	204	<5	20	1630	<5	4.4	412	520
*Rep M251	<0.5	13.4	421	<5	24	1700	7	5.2	515	120
*Rep M266	<0.5	7.3	878	<5	16	790	6	10.0	1080	107
*Rep M285	<0.5	36.9	18	<5	48	460	<5	<0.5	21	217
*Rep M290	<0.5	80.9	51	<5	72	1060	6	0.7	72	178
*Std MMISRM16	<0.5	35.8	5	<5	29	110	48	<0.5	18	261
*Std AMIS0169	<0.5	43.4	520	<5	40	5120	<5	4.8	466	550
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M222	0.2	320	<1	77	<1	76	<1	168	120	<1
M223	<0.1	160	<1	123	<1	71	<1	180	214	<1
M224	0.2	30	<1	3	<1	9	<1	7	7	<1
M225	0.4	120	<1	39	<1	36	<1	83	67	<1
M226	0.1	80	<1	94	<1	50	<1	39	138	<1
M227	0.3	160	<1	103	<1	29	1	214	140	<1
M228	0.4	190	<1	40	<1	19	1	130	65	<1
M229	0.1	70	<1	81	<1	17	1	67	137	<1
M230	<0.1	110	<1	165	<1	18	1	154	237	<1
M231	<0.1	90	<1	106	<1	8	2	83	174	<1
M232	0.4	180	<1	222	<1	31	2	393	298	<1
M233	<0.1	60	<1	80	<1	10	<1	51	139	<1
M234	<0.1	100	<1	53	<1	8	<1	60	119	<1
M235	<0.1	270	<1	313	<1	53	<1	290	432	<1
M236	0.2	230	<1	159	<1	145	<1	279	149	<1
M237	0.3	130	<1	298	<1	73	<1	178	330	<1
M238	1.1	430	<1	84	<1	157	2	86	62	<1
M239	0.1	140	<1	115	<1	44	<1	224	224	<1
M240	15.3	250	<1	9	<1	191	2	34	7	<1
M241	4.1	220	<1	91	<1	121	4	91	73	<1
M242	0.1	120	<1	105	<1	26	2	166	167	<1
M243	0.2	120	<1	69	<1	32	2	143	108	<1
M244	0.3	260	<1	129	<1	96	<1	196	172	<1
M245	1.6	250	<1	39	<1	115	2	94	52	<1
M246	1.6	270	<1	90	<1	80	2	164	117	<1
M247	1.0	190	<1	130	<1	73	2	182	169	<1
M248	<0.1	210	<1	194	<1	30	<1	200	402	<1
M249	<0.1	60	<1	85	<1	9	<1	79	200	<1
M250	<0.1	190	<1	179	<1	18	<1	183	348	<1
M251	2.1	270	<1	111	<1	143	4	256	128	<1
M252	3.5	220	<1	37	<1	105	1	56	37	<1
M253	1.1	360	<1	176	<1	148	3	177	149	<1
M254	2.3	70	<1	9	<1	56	<1	12	8	<1
M255	0.4	60	<1	52	<1	34	<1	17	91	<1
M256	0.3	170	<1	90	<1	64	<1	220	128	<1
M257	0.4	160	<1	99	<1	40	1	202	148	<1
M258	0.2	70	<1	56	<1	20	1	85	85	<1
M259	0.6	170	<1	47	<1	52	<1	111	90	<1
M260	0.4	190	<1	103	<1	39	1	242	149	<1
M261	<0.1	130	<1	148	<1	21	<1	274	219	<1
M262	0.5	180	<1	13	<1	100	<1	100	29	<1
M263	0.1	240	<1	387	<1	51	<1	425	370	<1
M264	9.0	150	<1	11	<1	112	3	33	10	<1

Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M265	<0.1	120	<1	193	<1	19	<1	153	263	<1
M266	2.6	340	<1	234	<1	149	4	198	212	<1
M268	0.1	240	<1	228	<1	54	<1	415	321	<1
M269	0.2	220	<1	96	<1	43	1	221	150	<1
M270	0.9	120	<1	118	<1	67	2	154	172	<1
M271	2.7	80	<1	29	<1	65	<1	70	58	<1
M272	1.8	150	<1	102	<1	61	2	100	119	<1
M273	0.2	110	<1	49	<1	12	2	21	83	<1
M274	0.8	180	<1	108	<1	32	1	48	170	<1
M275	0.4	310	<1	254	<1	46	1	137	281	<1
M276	0.1	410	<1	119	<1	45	<1	128	109	<1
M277	0.2	380	<1	266	<1	67	<1	172	215	<1
M278	0.6	450	<1	19	<1	80	1	35	16	<1
M279	2.8	610	<1	27	<1	148	4	51	31	<1
M280	1.9	370	<1	5	<1	82	<1	12	5	<1
M281	2.8	340	<1	53	<1	135	3	55	40	<1
M282	1.0	140	<1	160	<1	27	<1	43	150	<1
M283	0.4	80	<1	78	<1	26	2	80	106	<1
M284	0.6	260	<1	19	<1	104	1	64	22	<1
M285	2.6	200	<1	5	<1	157	<1	12	7	<1
M286	1.5	140	<1	6	<1	53	<1	14	9	<1
M287	0.3	400	<1	149	<1	17	<1	222	210	<1
M288	0.9	70	<1	123	<1	32	2	21	168	<1
M289	0.6	140	<1	171	<1	49	1	68	181	<1
M290	0.8	330	<1	15	<1	120	<1	35	21	<1
M291	1.6	180	<1	7	<1	20	<1	21	9	<1
M292	0.7	140	<1	25	<1	8	<1	12	50	<1
M293	0.2	200	<1	29	<1	5	1	14	56	<1
M294	0.4	240	<1	24	<1	13	1	18	39	<1
*Rep M227	0.3	160	<1	94	<1	36	<1	181	127	<1
*Rep M246	1.6	260	<1	85	<1	80	2	163	110	<1
*Rep M251	2.0	250	<1	115	<1	138	4	237	130	<1
*Rep M266	2.6	330	<1	251	<1	148	4	214	234	<1
*Rep M285	2.4	190	<1	5	<1	150	<1	11	6	<1
*Rep M290	0.9	290	<1	14	<1	114	<1	24	20	<1
*Std MMISRM16	0.3	120	25	3	<1	310	<1	14	6	<1
*Std AMIS0169	3.1	130	<1	125	<1	250	1	74	75	1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1

SGS

Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M222	2370	<1	28	<10	23.1	84	<0.5	38	<1	1080
M223	2490	<1	45	<10	18.5	26	<0.5	79	<1	1540
M224	1420	<1	2	<10	3.3	14	<0.5	24	<1	83
M225	1100	<1	17	<10	11.5	20	<0.5	73	<1	803
M226	3040	<1	26	<10	27.1	<3	<0.5	49	<1	845
M227	2130	<1	30	<10	41.7	129	<0.5	102	<1	1200
M228	2020	<1	15	<10	27.8	42	<0.5	97	<1	593
M229	3190	<1	29	<10	32.4	6	<0.5	117	<1	1070
M230	3250	<1	46	<10	25.0	15	<0.5	129	1	1740
M231	3320	<1	38	<10	21.1	<3	<0.5	147	<1	1390
M232	1910	<1	61	<10	69.5	317	<0.5	131	1	2300
M233	4390	<1	29	<10	24.4	<3	<0.5	97	<1	1000
M234	3250	<1	29	<10	7.2	<3	<0.5	81	<1	1030
M235	1680	<1	69	<10	15.6	67	<0.5	42	1	1950
M236	1770	<1	27	<10	40.1	170	<0.5	33	<1	813
M237	1590	<1	51	<10	25.1	415	<0.5	38	<1	1510
M238	490	<1	11	<10	99.3	2440	<0.5	13	1	329
M239	1610	<1	49	<10	9.9	25	<0.5	67	<1	1770
M240	60	<1	1	<10	84.1	1250	<0.5	9	2	25
M241	510	<1	13	<10	105	1700	<0.5	33	1	319
M242	2530	<1	36	<10	22.0	<3	<0.5	180	<1	1320
M243	2320	<1	25	<10	20.5	11	<0.5	141	<1	883
M244	1480	<1	33	<10	42.9	290	0.6	46	<1	1010
M245	450	<1	13	<10	42.3	772	0.8	29	<1	406
M246	750	<1	26	<10	76.1	857	0.5	41	1	873
M247	1100	<1	35	<10	67.6	460	0.7	56	<1	1190
M248	2230	<1	84	<10	7.5	7	<0.5	110	2	2870
M249	3680	<1	45	<10	15.2	<3	<0.5	102	<1	1570
M250	2720	<1	76	<10	8.2	<3	<0.5	34	1	2700
M251	890	<1	27	<10	53.6	1800	<0.5	61	2	954
M252	1090	<1	6	<10	37.3	471	<0.5	24	<1	162
M253	1160	<1	25	<10	88.5	2120	1.2	81	2	892
M254	970	<1	1	<10	27.2	222	<0.5	56	<1	31
M255	2290	<1	17	<10	33.0	16	<0.5	22	<1	557
M256	1950	<1	31	<10	58.9	139	<0.5	72	<1	1180
M257	1750	<1	33	<10	37.0	93	<0.5	100	<1	1320
M258	2920	<1	18	<10	13.8	4	<0.5	75	<1	681
M259	1560	<1	27	<10	14.9	60	<0.5	34	<1	1020
M260	1850	<1	35	<10	49.2	239	<0.5	62	<1	1320
M261	3000	<1	48	<10	44.3	21	<0.5	130	<1	1770
M262	1160	<1	12	<10	25.1	137	<0.5	25	<1	548
M263	1560	<1	64	<10	28.4	42	<0.5	98	<1	2170
M264	580	<1	2	<10	19.2	1670	<0.5	7	2	42

Final : TO122406 Order: Project:SPEC

Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M265	3230	<1	50	<10	31.4	8	<0.5	152	<1	1840
M266	550	<1	38	<10	110	3010	0.7	61	3	1170
M268	2190	<1	67	<10	57.1	120	<0.5	82	1	2240
M269	2280	<1	34	<10	25.9	53	<0.5	82	<1	1260
M270	1310	<1	35	<10	39.8	258	0.7	83	1	1090
M271	1330	<1	16	<10	14.4	234	<0.5	35	<1	564
M272	880	<1	23	<10	50.0	320	<0.5	75	<1	749
M273	3100	<1	19	<10	40.9	5	<0.5	72	<1	656
M274	2320	<1	35	<10	48.9	11	<0.5	58	<1	1100
M275	1850	<1	52	<10	94.3	229	<0.5	52	1	1790
M276	2410	<1	22	<10	51.1	22	<0.5	41	<1	786
M277	1850	<1	39	<10	61.9	128	<0.5	54	<1	1390
M278	1700	<1	3	<10	50.0	800	<0.5	19	<1	82
M279	770	<1	6	<10	103	1990	<0.5	17	2	191
M280	1900	<1	1	<10	19.7	74	<0.5	9	<1	26
M281	350	<1	6	<10	102	2940	0.5	23	2	140
M282	1620	<1	23	<10	48.4	212	<0.5	27	<1	667
M283	2070	<1	20	<10	39.4	43	<0.5	75	<1	733
M284	1380	<1	5	<10	43.8	515	<0.5	33	<1	149
M285	2170	<1	1	<10	9.1	39	<0.5	5	<1	41
M286	2010	<1	2	<10	14.5	6	<0.5	21	<1	59
M287	2700	<1	45	<10	42.7	20	<0.5	49	<1	1570
M288	1390	<1	27	<10	38.4	25	<0.5	43	<1	834
M289	1520	<1	31	<10	55.4	256	<0.5	36	<1	1030
M290	1590	<1	4	<10	48.9	158	<0.5	22	<1	153
M291	2440	<1	2	<10	28.7	46	<0.5	24	<1	61
M292	2120	<1	11	<10	16.4	50	<0.5	32	<1	326
M293	3000	<1	15	<10	19.8	22	<0.5	52	<1	446
M294	2890	<1	9	<10	29.9	36	<0.5	91	<1	263
*Rep M227	2100	<1	26	<10	38.7	148	<0.5	81	<1	991
*Rep M246	770	<1	24	<10	77.6	946	0.5	41	1	820
*Rep M251	910	<1	26	<10	54.0	1700	<0.5	58	2	889
*Rep M266	680	<1	41	<10	115	3020	0.7	64	3	1270
*Rep M285	2120	<1	1	<10	8.3	27	<0.5	6	<1	38
*Rep M290	1610	<1	4	<10	39.7	126	<0.5	17	<1	138
*Std MMISRM16	440	<1	<1	<10	25.7	13	<0.5	52	<1	9
*Std AMIS0169	90	<1	7	<10	89.1	571	1.4	27	2	149
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5

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Final : TO122406 Order: Project:SPEC

Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
M222	69	70	68
M223	103	<20	65
M224	6	120	13
M225	58	500	62
M226	59	120	38
M227	86	280	98
M228	50	1020	86
M229	77	410	67
M230	136	330	105
M231	98	290	60
M232	152	260	130
M233	66	130	39
M234	67	80	20
M235	141	<20	59
M236	48	20	108
M237	98	30	74
M238	18	50	184
M239	124	<20	35
M240	2	850	257
M241	18	70	230
M242	94	190	65
M243	66	310	95
M244	57	20	103
M245	26	50	127
M246	51	140	169
M247	65	170	197
M248	232	30	15
M249	105	<20	18
M250	196	40	21
M251	54	50	247
M252	12	40	140
M253	46	70	222
M254	3	190	57
M255	41	20	40
M256	82	50	139
M257	93	510	137
M258	47	280	61
M259	69	130	45
M260	99	260	122
M261	135	60	94
M262	42	70	34
M263	110	30	53
M264	3	540	96

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Final : TO122406 Order: Project:SPEC

Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
M265	135	120	105
M266	48	100	257
M268	169	50	100
M269	95	450	113
M270	82	660	138
M271	36	130	43
M272	47	320	180
M273	56	190	48
M274	81	30	101
M275	97	30	112
M276	34	30	89
M277	48	30	78
M278	6	40	76
M279	16	80	209
M280	2	30	31
M281	10	50	222
M282	36	90	85
M283	56	590	94
M284	10	40	85
M285	3	<20	18
M286	5	30	39
M287	127	60	113
M288	65	50	53
M289	50	60	100
M290	14	40	93
M291	8	110	73
M292	35	80	38
M293	48	110	31
M294	23	30	43
*Rep M227	72	310	98
*Rep M246	49	140	172
*Rep M251	49	50	233
*Rep M266	55	90	269
*Rep M285	2	<20	17
*Rep M290	12	40	75
*Std MMISRM16	<1	280	20
*Std AMIS0169	13	340	69
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5

Certificate of Analysis

Work Order: TO122405

To: **Gordon Richards**
Gordon Richards
6410 Holly Park Drive
DELTA
BC V4K 4W6

Date: Aug 09, 2012

P.O. No.	:	Project:SPEC
Project No.	:	-
No. Of Samples	:	67
Date Submitted	:	Jul 26, 2012
Report Comprises	:	Pages 1 to 13 (Inclusive of Cover Sheet)

Distribution of unused material:
Discard samples:

Certified By : Bruce Robertson
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer: L.N.R. = Listed not received; I.S. = Insufficient Sample
n.a. = Not applicable; -- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
P192	28	196	60	0.4	5620	<1	110	3	1090	67
P195	47	205	10	0.8	16100	<1	250	7	1510	153
P209	40	154	10	0.4	8620	<1	210	21	597	64
P211	148	91	<10	0.3	27200	<1	370	249	618	86
P212	47	66	<10	0.2	15900	<1	430	68	799	18
P214	<1	44	60	<0.1	4580	<1	110	5	80	249
P219	13	143	10	0.1	2620	<1	30	13	53	66
P222	55	115	20	0.3	10600	<1	190	367	338	154
P223	42	51	<10	0.3	12900	<1	370	78	383	56
P224	64	48	<10	0.4	15200	<1	570	112	417	50
P225	126	16	<10	0.4	15900	<1	810	210	111	72
P228	627	88	<10	0.7	26800	<1	680	147	260	18
P229	285	38	<10	0.8	13200	<1	650	49	24	50
P230	44	253	20	0.2	9730	<1	90	157	98	128
P231	16	172	40	0.4	15600	<1	180	6	1140	120
P232	19	198	40	0.2	6790	<1	100	9	403	79
P233	13	187	30	0.3	7910	<1	110	4	730	78
P234	24	166	40	0.3	10800	<1	140	6	356	40
P235	8	194	30	0.5	11000	<1	80	6	1890	103
P236	23	244	30	0.3	5300	<1	60	11	710	80
P237	18	187	40	0.4	7750	<1	160	4	1250	39
P238	18	106	<10	0.7	18100	<1	330	3	623	61
P239	16	161	20	0.6	15500	<1	330	4	1710	34
P240	3	120	80	0.3	9410	<1	110	1	2320	62
P241	31	133	10	0.5	8240	<1	240	3	785	70
P242	30	177	20	0.3	8990	<1	200	6	787	83
P243	17	214	60	0.4	5500	1	110	2	568	82
P246	27	234	40	0.3	5600	<1	90	4	536	112
P247	12	146	20	0.3	7450	<1	150	3	636	123
P248	13	123	10	0.7	20600	<1	400	5	1250	31
P250	29	234	30	0.3	4610	<1	90	6	412	56
P251	26	270	30	0.3	4680	<1	50	4	599	56
P252	46	85	<10	0.7	16400	<1	480	3	894	15
P253	23	196	30	0.3	6380	<1	150	6	350	54
P254	25	126	<10	0.5	21100	<1	530	4	1480	10
P258	17	134	40	0.5	12800	<1	240	3	1400	61
P259	23	127	10	0.4	7800	<1	260	4	588	26
P260	11	230	40	0.4	7500	<1	90	3	827	65
P261	9	147	30	0.7	11000	<1	220	3	1270	61
P262	13	163	30	0.5	8600	<1	150	3	828	45
P263	31	194	40	0.4	13400	<1	180	2	1180	38
P264	36	197	40	0.5	8500	<1	120	2	826	44
M195	19	232	40	0.3	4970	<1	90	5	1000	77

Final : TO122405 Order: Project:SPEC

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M196	28	147	10	0.4	13400	<1	260	3	1450	133
M197	30	174	60	0.2	7290	<1	100	1	2290	274
M198	28	147	20	0.4	6860	<1	180	3	1190	156
M199	13	222	90	0.4	3820	1	90	9	116	208
M200	15	181	60	0.3	6200	<1	130	6	822	117
M201	12	166	40	0.4	5320	<1	120	3	796	163
M202	16	143	20	0.4	7080	<1	180	6	966	45
M203	15	151	40	0.5	8830	<1	140	3	1720	443
M204	13	241	40	0.4	4460	<1	70	4	216	76
M205	64	208	20	0.4	7580	<1	70	5	892	164
M206	22	121	10	0.7	14400	<1	260	6	791	388
M207	61	159	20	0.4	12500	<1	170	9	1980	78
M208	34	187	40	0.7	9790	<1	190	4	891	280
M209	16	140	10	0.5	10700	<1	180	6	2430	158
M210	25	139	20	0.6	8610	<1	160	6	856	174
M211	10	113	10	0.4	10800	<1	180	5	1170	270
M212	27	64	<10	0.5	13000	<1	280	31	242	259
M214	36	60	<10	0.5	17500	<1	480	14	678	29
M216	27	87	<10	0.4	11800	<1	350	14	251	133
M217	38	66	<10	0.5	14500	<1	470	15	561	17
M218	32	99	<10	0.6	16300	<1	440	3	940	73
M219	25	54	<10	0.7	13100	<1	510	5	458	12
M220	25	104	<10	0.4	16300	<1	390	4	1140	68
M221	15	127	<10	0.2	7540	<1	190	3	372	69
*Rep P229	385	36	<10	0.9	12800	<1	770	52	22	39
*Rep P242	33	186	20	0.4	8910	<1	200	7	759	94
*Rep P251	19	264	30	0.3	4090	<1	40	3	465	48
*Rep M195	18	251	40	0.3	5110	<1	90	5	924	74
*Rep M218	43	89	<10	0.7	17600	<1	460	2	1170	31
*Rep M220	27	99	<10	0.4	16300	<1	430	4	1250	34
*Std MMISRM16	21	46	10	27.6	70	<1	220	5	17	61
*Std MMISRM18	31	33	10	9.6	150	<1	200	101	26	89
*Blk BLANK	<1	<1	<10	<0.1	10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

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Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
P192	<100	1.3	760	269	138	62.4	94	14	291	1
P195	<100	<0.5	1410	494	288	93.5	33	8	500	<1
P209	<100	1.0	1030	200	109	42.3	66	6	199	1
P211	100	1.1	3860	177	105	41.3	47	3	188	2
P212	<100	<0.5	2200	119	64.2	26.4	46	3	132	<1
P214	<100	<0.5	80	11	7.6	2.6	359	2	12	<1
P219	<100	1.4	930	10	7.7	1.9	259	4	7	<1
P222	<100	4.0	2480	116	77.9	28.2	73	5	137	<1
P223	<100	<0.5	3010	80	45.7	21.3	40	2	103	<1
P224	<100	<0.5	3920	82	44.5	19.0	34	2	99	<1
P225	<100	<0.5	3710	19	10.3	5.9	19	<1	26	<1
P228	<100	1.8	1490	89	56.9	23.1	12	1	107	2
P229	<100	1.8	800	28	14.4	9.2	9	<1	42	<1
P230	<100	1.1	230	23	12.9	4.9	101	10	27	<1
P231	<100	1.2	960	235	116	56.9	82	10	266	<1
P232	<100	1.0	620	98	47.4	21.9	98	13	98	<1
P233	<100	1.4	950	206	105	41.7	64	10	209	<1
P234	<100	1.8	420	70	34.7	15.9	64	9	74	<1
P235	<100	0.5	1040	698	393	141	38	14	724	<1
P236	<100	1.3	630	156	69.7	32.1	85	12	155	<1
P237	<100	0.6	910	297	157	68.4	70	11	330	<1
P238	<100	<0.5	1930	279	165	57.6	25	4	298	2
P239	<100	<0.5	1130	528	296	116	34	9	588	<1
P240	100	1.3	910	268	124	76.6	104	17	350	2
P241	<100	<0.5	1100	227	115	47.5	49	5	241	<1
P242	<100	<0.5	990	251	145	49.7	51	7	239	<1
P243	100	1.4	710	107	51.6	25.8	110	13	117	<1
P246	<100	1.7	810	137	66.2	25.8	97	14	123	<1
P247	<100	1.4	520	226	136	41.7	39	7	215	<1
P248	<100	<0.5	1360	408	249	77.0	23	5	428	2
P250	<100	2.3	570	89	41.1	17.1	85	13	79	<1
P251	<100	2.4	730	118	48.6	25.3	101	12	114	<1
P252	<100	<0.5	1620	286	171	62.8	16	4	306	2
P253	<100	0.8	630	96	51.2	19.2	94	8	92	<1
P254	<100	<0.5	1640	453	264	88.5	18	5	466	5
P258	<100	<0.5	1170	325	176	86.0	71	9	374	1
P259	<100	<0.5	950	165	94.7	37.5	42	4	188	<1
P260	<100	1.6	960	187	90.0	39.2	102	13	191	<1
P261	<100	0.6	1050	317	177	76.0	63	9	353	<1
P262	<100	0.9	820	210	115	46.8	64	9	223	<1
P263	<100	1.5	500	134	57.9	33.0	65	10	151	<1
P264	<100	0.9	1110	199	97.0	41.8	74	11	188	<1
M195	<100	0.9	680	217	105	45.9	65	13	215	<1

Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
M196	<100	<0.5	1210	458	248	98.3	31	8	503	<1
M197	100	0.8	890	344	180	94.0	91	18	419	<1
M198	<100	<0.5	1160	356	205	82.8	41	8	396	<1
M199	200	3.8	620	21	10.6	4.5	253	24	19	<1
M200	<100	1.4	1050	178	93.3	43.6	108	15	202	<1
M201	<100	1.0	1150	215	109	48.5	68	11	232	<1
M202	<100	1.0	1140	264	142	62.8	48	9	295	<1
M203	<100	0.6	1800	360	184	72.8	90	11	346	<1
M204	<100	1.4	540	64	35.5	12.7	75	13	61	<1
M205	<100	1.5	960	222	118	48.6	52	11	218	<1
M206	<100	<0.5	1530	271	159	56.9	41	6	306	<1
M207	<100	4.1	780	474	260	117	33	11	537	<1
M208	<100	1.8	560	127	57.8	25.8	54	9	124	<1
M209	<100	1.0	580	536	289	149	22	11	661	<1
M210	<100	1.0	1090	220	121	47.6	54	7	227	<1
M211	<100	1.8	600	140	65.5	40.2	24	6	173	<1
M212	<100	<0.5	3890	85	51.8	16.1	241	2	84	<1
M214	<100	<0.5	2350	153	82.7	36.9	45	3	188	<1
M216	<100	<0.5	2010	95	52.7	19.5	81	2	97	<1
M217	<100	<0.5	1870	151	83.1	34.0	37	2	170	<1
M218	<100	<0.5	1460	240	122	55.6	21	4	266	<1
M219	<100	<0.5	1990	139	74.5	33.9	23	3	164	1
M220	<100	<0.5	1740	313	176	72.7	29	5	369	<1
M221	<100	1.8	330	49	24.0	12.0	32	5	54	<1
*Rep P229	<100	1.2	880	26	13.3	8.6	9	<1	38	<1
*Rep P242	<100	<0.5	950	247	145	46.8	46	6	235	<1
*Rep P251	<100	2.6	710	75	30.5	16.4	110	13	76	<1
*Rep M195	<100	1.4	710	197	99.4	43.8	81	17	210	<1
*Rep M218	<100	<0.5	1560	288	155	65.9	17	5	326	<1
*Rep M220	<100	<0.5	1640	315	171	71.5	25	5	370	<1
*Std MMISRM16	<100	11.7	780	2	1.2	1.1	3	<1	4	22
*Std MMISRM18	<100	6.7	970	4	1.6	1.3	5	<1	7	9
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
P192	<0.5	2.9	421	<5	24	740	6	7.2	879	200
P195	<0.5	5.8	708	<5	57	1370	<5	0.8	1440	1020
P209	<0.5	4.2	245	<5	45	1030	<5	1.8	549	403
P211	<0.5	5.6	148	<5	57	5660	<5	<0.5	422	4600
P212	<0.5	3.4	144	11	71	2960	<5	<0.5	314	3130
P214	<0.5	8.6	33	<5	15	15300	20	2.6	41	682
P219	<0.5	1.6	25	<5	8	210	<5	3.0	27	289
P222	<0.5	4.6	123	<5	23	7780	33	2.5	325	3760
P223	<0.5	2.2	143	<5	63	800	11	0.5	277	1400
P224	<0.5	2.2	112	<5	41	1410	<5	<0.5	240	3180
P225	<0.5	3.7	22	<5	29	1940	23	<0.5	55	2380
P228	<0.5	5.0	87	<5	69	500	<5	<0.5	220	2150
P229	<0.5	4.0	21	<5	10	880	<5	<0.5	78	417
P230	<0.5	71.5	44	<5	45	1750	<5	4.4	77	657
P231	<0.5	7.8	543	<5	28	3190	<5	4.1	856	430
P232	<0.5	10.5	169	<5	22	2290	7	8.0	295	262
P233	<0.5	3.6	316	<5	23	1480	<5	4.6	576	365
P234	<0.5	5.2	181	<5	27	1640	<5	5.1	221	132
P235	<0.5	5.5	813	<5	33	1470	<5	4.0	2210	305
P236	<0.5	5.1	265	<5	19	1090	<5	4.6	506	259
P237	<0.5	3.3	547	<5	32	1220	5	4.1	973	315
P238	<0.5	3.1	335	<5	60	2200	<5	<0.5	667	1680
P239	<0.5	5.7	892	<5	63	1020	<5	0.7	1740	947
P240	<0.5	3.4	1130	<5	17	2590	11	11.0	1430	165
P241	<0.5	2.0	376	<5	63	700	<5	1.2	636	430
P242	<0.5	5.3	342	<5	53	1480	<5	2.5	689	488
P243	<0.5	5.1	260	<5	20	1380	8	6.6	379	179
P246	<0.5	7.3	224	<5	23	1080	6	7.3	383	299
P247	<0.5	4.7	272	<5	34	6260	<5	2.6	556	222
P248	<0.5	5.5	595	<5	73	1120	<5	<0.5	1040	1260
P250	<0.5	7.5	180	<5	24	530	<5	6.3	256	187
P251	<0.5	5.7	238	<5	13	510	<5	5.3	396	189
P252	<0.5	2.6	337	<5	105	480	<5	<0.5	726	1120
P253	<0.5	3.8	146	<5	36	440	<5	3.4	266	364
P254	<0.5	3.6	601	<5	102	600	<5	<0.5	1100	1960
P258	<0.5	4.7	572	<5	39	1290	<5	3.3	1130	641
P259	<0.5	5.0	261	<5	57	190	<5	1.2	489	370
P260	<0.5	5.6	351	<5	20	710	6	8.0	602	241
P261	<0.5	2.9	581	<5	38	880	<5	4.1	1130	442
P262	<0.5	3.1	363	<5	30	560	<5	4.4	662	365
P263	<0.5	4.0	776	<5	30	870	<5	6.0	600	167
P264	<0.5	3.3	368	<5	28	360	<5	5.1	589	247
M195	<0.5	3.7	404	<5	23	1180	<5	6.2	736	175

Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
M196	<0.5	5.6	739	<5	55	2580	<5	1.2	1370	688
M197	<0.5	8.2	920	<5	19	5410	8	10.5	1530	156
M198	<0.5	6.0	525	<5	38	2660	<5	2.2	1090	312
M199	<0.5	10.9	52	9	13	13700	19	13.0	61	165
M200	<0.5	4.3	343	<5	22	4440	9	8.2	667	204
M201	<0.5	5.5	346	<5	23	3770	6	5.6	646	213
M202	<0.5	3.5	437	<5	37	980	<5	2.8	863	425
M203	<0.5	6.4	772	<5	35	9170	<5	5.0	1160	257
M204	<0.5	15.7	100	<5	17	1980	5	7.4	163	172
M205	<0.5	5.5	354	<5	23	2010	<5	6.0	724	151
M206	<0.5	4.5	470	<5	60	10400	<5	1.2	774	529
M207	<0.5	5.6	983	<5	42	600	<5	3.2	1700	171
M208	<0.5	5.4	472	<5	49	5950	<5	6.1	464	186
M209	<0.5	4.5	1210	<5	42	1650	<5	2.0	2190	166
M210	<0.5	5.2	412	<5	46	2810	<5	3.5	685	102
M211	<0.5	6.3	591	<5	43	4840	<5	2.1	697	72
M212	<0.5	2.7	95	<5	98	6250	8	1.2	193	1450
M214	<0.5	1.8	261	7	108	1270	<5	<0.5	494	2290
M216	<0.5	4.0	113	<5	83	4630	<5	<0.5	221	1050
M217	<0.5	2.3	222	<5	122	440	<5	<0.5	441	1960
M218	<0.5	3.5	449	<5	90	2130	<5	<0.5	740	926
M219	<0.5	2.2	172	<5	148	290	<5	<0.5	399	1080
M220	<0.5	3.4	563	<5	82	1940	<5	<0.5	1050	1030
M221	<0.5	4.5	177	<5	41	1600	<5	1.6	188	173
*Rep P229	<0.5	3.4	22	<5	11	740	<5	<0.5	75	459
*Rep P242	<0.5	4.4	325	<5	56	1330	<5	1.5	647	605
*Rep P251	<0.5	5.3	217	<5	11	450	<5	5.6	266	165
*Rep M195	<0.5	4.3	380	<5	23	1090	5	7.8	708	177
*Rep M218	<0.5	3.6	474	<5	98	1000	<5	<0.5	884	1030
*Rep M220	<0.5	3.2	523	<5	89	860	<5	<0.5	994	1110
*Std MMISRM16	<0.5	38.6	4	<5	35	120	51	<0.5	15	231
*Std MMISRM18	<0.5	30.1	7	<5	99	710	39	<0.5	21	580
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	1	<5
*Blk BLANK	<0.5	0.1	<1	<5	<1	<10	<5	<0.5	<1	<5

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
P192	1.7	220	<1	173	<1	86	3	275	243	<1
P195	0.3	410	<1	274	<1	15	<1	482	379	<1
P209	0.7	200	<1	101	<1	87	2	235	162	<1
P211	0.4	70	<1	71	<1	91	1	185	143	<1
P212	0.2	160	<1	58	<1	30	2	89	98	<1
P214	1.6	30	<1	9	<1	28	4	41	10	<1
P219	4.2	40	<1	7	<1	59	1	30	7	<1
P222	2.4	90	<1	58	<1	101	3	100	103	<1
P223	0.3	70	<1	51	<1	30	2	53	78	<1
P224	<0.1	70	<1	44	<1	21	2	33	76	<1
P225	<0.1	30	<1	9	<1	10	2	10	19	<1
P228	<0.1	40	<1	37	<1	48	<1	65	75	<1
P229	0.1	10	<1	12	<1	52	<1	13	29	<1
P230	3.2	280	<1	15	<1	80	<1	38	23	<1
P231	1.7	220	<1	182	<1	64	2	217	218	<1
P232	2.6	220	<1	55	<1	67	2	117	80	<1
P233	1.3	270	<1	113	<1	101	1	221	160	<1
P234	1.1	270	<1	46	<1	110	3	99	58	<1
P235	0.6	300	<1	412	<1	42	2	576	596	<1
P236	3.0	290	<1	104	<1	147	1	153	119	<1
P237	1.4	260	<1	205	<1	65	3	297	278	<1
P238	0.1	150	<1	121	<1	32	1	196	216	<1
P239	0.3	190	<1	335	<1	27	<1	470	473	<1
P240	2.6	180	<1	328	<1	72	5	272	324	<1
P241	0.4	220	<1	123	<1	50	1	252	184	<1
P242	0.8	300	<1	124	<1	52	2	286	189	<1
P243	2.6	240	<1	82	<1	126	4	177	98	<1
P246	2.5	290	<1	77	<1	95	2	194	96	<1
P247	0.8	280	<1	104	<1	78	1	316	157	<1
P248	0.1	200	<1	207	<1	10	<1	325	304	<1
P250	2.0	260	<1	54	<1	100	2	142	65	<1
P251	2.8	210	<1	85	<1	103	2	127	98	<1
P252	<0.1	110	<1	127	<1	9	<1	143	231	<1
P253	1.5	210	<1	52	<1	79	2	135	72	<1
P254	<0.1	190	<1	213	<1	<5	<1	327	342	<1
P258	0.9	140	<1	233	<1	32	3	289	330	<1
P259	0.5	130	<1	97	<1	40	1	183	143	<1
P260	1.7	180	<1	125	<1	80	3	190	154	<1
P261	0.9	170	<1	212	<1	63	2	327	307	<1
P262	1.0	180	<1	129	<1	70	2	230	179	<1
P263	1.2	220	<1	140	<1	103	3	163	125	<1
P264	1.3	230	<1	119	<1	61	2	196	153	<1
M195	1.3	340	<1	152	<1	88	2	228	181	<1

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M196	0.3	320	<1	262	<1	43	<1	421	402	<1
M197	1.2	360	<1	335	<1	78	4	409	396	1
M198	0.5	270	<1	212	<1	52	1	412	318	<1
M199	9.2	250	<1	14	<1	196	4	79	17	2
M200	2.8	260	<1	131	<1	102	3	202	174	<1
M201	1.8	310	<1	125	<1	99	2	243	186	<1
M202	0.9	240	<1	171	<1	85	1	225	244	<1
M203	0.9	290	<1	249	<1	56	2	398	282	<1
M204	2.0	350	<1	31	<1	72	2	141	47	<1
M205	0.7	390	<1	146	<1	91	<1	299	178	<1
M206	0.2	220	<1	155	<1	45	1	312	228	<1
M207	0.3	350	<1	353	<1	63	1	486	468	<1
M208	0.7	370	<1	109	<1	106	3	235	102	<1
M209	0.2	300	<1	440	<1	85	<1	498	581	<1
M210	0.3	330	<1	138	<1	57	1	305	181	<1
M211	0.2	250	<1	163	<1	122	1	207	156	<1
M212	0.6	80	<1	37	<1	31	2	175	59	<1
M214	0.1	70	<1	96	<1	22	1	111	143	<1
M216	0.2	90	<1	43	<1	21	1	111	71	<1
M217	<0.1	80	<1	83	<1	21	1	101	136	<1
M218	<0.1	130	<1	146	<1	20	<1	215	206	<1
M219	<0.1	60	<1	70	<1	16	1	62	124	<1
M220	<0.1	100	<1	198	<1	20	<1	228	289	<1
M221	0.7	260	<1	40	<1	144	<1	84	44	<1
*Rep P229	<0.1	<10	<1	12	<1	39	<1	13	27	<1
*Rep P242	0.6	300	<1	127	<1	52	<1	248	177	<1
*Rep P251	3.5	190	<1	58	<1	99	2	109	63	<1
*Rep M195	1.8	350	<1	139	<1	96	2	226	173	<1
*Rep M218	<0.1	120	<1	170	<1	14	<1	214	254	<1
*Rep M220	<0.1	100	<1	185	<1	19	1	224	284	<1
*Std MMISRM16	0.3	110	26	3	<1	316	<1	13	5	<1
*Std MMISRM18	0.7	340	16	4	8	169	<1	8	6	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1

Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
P192	780	<1	44	<10	63.1	2400	0.8	59	2	1480
P195	2020	<1	83	<10	68.9	174	<0.5	95	1	3240
P209	1380	<1	31	<10	45.6	496	0.5	49	<1	1180
P211	1880	<1	28	<10	30.4	87	1.8	142	<1	1120
P212	1970	<1	19	<10	23.2	17	<0.5	60	<1	717
P214	750	<1	2	<10	15.3	281	<0.5	24	<1	68
P219	240	<1	1	<10	17.0	374	0.7	36	<1	52
P222	760	<1	19	<10	26.6	600	1.4	176	1	743
P223	1170	<1	14	<10	24.8	77	<0.5	90	<1	546
P224	1400	<1	14	<10	29.5	4	<0.5	82	<1	510
P225	1280	<1	4	<10	12.8	<3	<0.5	73	<1	126
P228	2150	<1	15	<10	7.6	4	0.9	51	<1	694
P229	1130	<1	5	<10	8.4	3	0.6	21	<1	170
P230	630	<1	4	<10	30.9	911	<0.5	18	<1	150
P231	880	<1	39	<10	80.4	1370	<0.5	80	2	1290
P232	610	<1	16	<10	57.8	2090	<0.5	41	1	534
P233	770	<1	32	<10	62.7	1380	0.5	61	1	1150
P234	890	<1	11	<10	52.4	1990	<0.5	32	1	391
P235	980	<1	114	<10	44.9	1140	<0.5	197	2	4460
P236	550	<1	26	<10	39.5	1220	0.5	46	<1	840
P237	950	<1	48	<10	82.3	1430	<0.5	55	2	1750
P238	2390	<1	45	<10	25.2	42	<0.5	182	<1	1850
P239	2470	<1	89	<10	57.0	233	<0.5	85	1	3550
P240	570	<1	48	<10	102	3100	0.6	85	3	1500
P241	1520	<1	36	<10	65.5	338	<0.5	73	<1	1330
P242	1440	<1	39	<10	56.9	790	<0.5	52	<1	1610
P243	680	<1	19	<10	82.3	2160	<0.5	39	2	594
P246	690	<1	22	<10	62.4	2010	0.6	51	1	762
P247	1120	<1	35	<10	38.4	820	0.6	54	<1	1410
P248	2800	<1	62	<10	34.9	16	<0.5	128	<1	2850
P250	740	<1	14	<10	45.2	1810	0.8	34	1	464
P251	420	<1	20	<10	52.7	1430	0.6	41	<1	605
P252	3330	<1	46	<10	18.2	10	<0.5	81	<1	1880
P253	940	<1	15	<10	48.1	1030	<0.5	33	<1	560
P254	3800	<1	71	<10	38.9	6	<0.5	106	<1	3060
P258	1340	<1	56	<10	61.8	945	<0.5	95	1	1980
P259	1430	<1	29	<10	52.1	343	<0.5	63	<1	997
P260	700	<1	30	<10	80.8	2390	0.6	82	2	1060
P261	1370	<1	55	<10	76.8	1330	<0.5	89	2	1910
P262	1010	<1	35	<10	69.2	1280	<0.5	58	1	1290
P263	1160	<1	24	<10	66.1	2130	0.6	53	2	791
P264	890	<1	32	<10	86.7	1770	<0.5	89	1	1090
M195	740	<1	35	<10	48.8	1900	0.5	43	2	1260

SGS

Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
M196	1820	<1	76	<10	63.2	413	<0.5	103	1	2790
M197	520	<1	61	<10	87.9	3910	<0.5	65	3	1950
M198	1060	<1	61	<10	85.8	757	<0.5	87	<1	2120
M199	390	<1	3	<10	84.0	4150	0.7	29	2	98
M200	630	<1	30	<10	73.9	2750	0.6	57	2	984
M201	580	<1	36	<10	70.4	1730	<0.5	61	1	1140
M202	950	<1	45	<10	75.2	957	0.6	70	<1	1680
M203	960	<1	58	<10	81.3	1640	<0.5	91	2	2280
M204	460	<1	10	<10	62.9	2440	<0.5	43	1	354
M205	630	<1	35	<10	32.4	1520	0.7	75	<1	1380
M206	1740	<1	46	<10	46.3	388	<0.5	55	<1	1840
M207	1020	<1	80	<10	53.0	1130	0.7	70	1	2690
M208	1190	<1	21	<10	59.7	2600	0.6	56	1	848
M209	1080	<1	90	<10	41.5	700	<0.5	133	1	3280
M210	1100	<1	36	<10	37.6	1160	0.5	80	<1	1410
M211	1020	<1	25	<10	40.2	748	0.8	59	<1	808
M212	2090	<1	13	<10	27.5	116	<0.5	87	<1	535
M214	2630	<1	26	<10	25.8	17	<0.5	114	<1	961
M216	2090	<1	15	<10	15.7	25	<0.5	56	<1	598
M217	2660	<1	24	<10	19.1	30	<0.5	72	<1	953
M218	2780	<1	38	<10	38.1	13	<0.5	78	<1	1560
M219	3160	<1	23	<10	26.9	6	<0.5	51	<1	813
M220	2590	<1	53	<10	37.8	42	<0.5	69	<1	2000
M221	1200	<1	8	<10	33.4	519	<0.5	16	<1	289
*Rep P229	1330	<1	5	<10	7.5	13	<0.5	22	<1	173
*Rep P242	1520	<1	39	<10	51.1	478	<0.5	47	<1	1560
*Rep P251	360	<1	13	<10	57.7	1400	0.6	40	<1	374
*Rep M195	700	<1	34	<10	51.9	2670	0.8	44	2	1130
*Rep M218	3120	<1	48	<10	31.5	8	<0.5	101	<1	1830
*Rep M220	2750	<1	51	<10	34.9	23	<0.5	70	<1	2010
*Std MMISRM16	470	<1	<1	<10	21.7	7	<0.5	49	<1	11
*Std MMISRM18	1130	<1	<1	<10	24.4	10	<0.5	30	<1	25
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	<0.5	4	<0.5	<1	<1	<5

SGS

Final : TO122405 Order: Project:SPEC

Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
P192	99	40	141
P195	216	60	85
P209	79	240	103
P211	78	1960	125
P212	50	650	77
P214	7	50	67
P219	6	370	49
P222	65	5140	148
P223	34	860	57
P224	34	1300	64
P225	8	660	16
P228	45	1240	38
P229	9	140	18
P230	10	440	58
P231	79	80	159
P232	35	120	121
P233	72	50	90
P234	24	60	121
P235	274	40	109
P236	45	50	78
P237	113	60	119
P238	129	60	89
P239	215	60	107
P240	79	80	258
P241	80	40	75
P242	118	70	95
P243	32	60	221
P246	45	70	170
P247	106	30	82
P248	193	60	83
P250	28	60	129
P251	27	70	141
P252	127	50	49
P253	36	50	105
P254	206	80	77
P258	137	50	142
P259	69	30	76
P260	64	70	182
P261	133	40	135
P262	82	30	111
P263	33	40	171
P264	65	40	149
M195	73	60	92

SGS

Final : TO122405 Order: Project:SPEC

Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
M196	198	40	82
M197	136	80	183
M198	159	60	68
M199	8	320	237
M200	66	70	157
M201	77	60	108
M202	110	60	77
M203	117	60	138
M204	25	60	160
M205	85	50	102
M206	122	50	71
M207	188	40	112
M208	32	50	161
M209	233	40	70
M210	86	30	99
M211	40	30	126
M212	40	460	120
M214	67	300	89
M216	41	210	61
M217	64	220	61
M218	88	60	79
M219	56	160	41
M220	138	200	75
M221	16	30	76
*Rep P229	9	140	15
*Rep P242	107	80	71
*Rep P251	18	60	169
*Rep M195	69	80	113
*Rep M218	111	60	73
*Rep M220	138	210	69
*Std MMISRM16	<1	370	16
*Std MMISRM18	1	800	31
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5

AcmeLabs Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Richards, Gordon**
6410 Holly Park Drive
Delta BC V4K 4W6 Canada

Submitted By:	Gordon Richards
Receiving Lab:	Canada-Whitehorse
Received:	June 29, 2012
Report Date:	July 23, 2012
Page:	1 of 2

CERTIFICATE OF ANALYSIS WHI12000198.1

CLIENT JOB INFORMATION

Project:	SPEC
Shipment ID:	
P.O. Number	
Number of Samples:	26

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	26	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1DX2	26	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP	Dispose of Pulp After 90 days
DISP-RJT	Dispose of Reject After 90 days

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: SPEC
Report Date: July 23, 2012

CERTIFICATE OF ANALYSIS WHI12000198.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
P194	Rock	0.21	0.7	73.6	18.8	7	0.3	1.9	0.5	50	2.58	148.6	17.5	0.3	7	<0.1	6.2	<0.1	59	<0.01	0.038
P210	Rock	0.13	39.4	66.6	3.8	355	0.5	112.4	2.5	44	1.07	1.2	3.7	1.2	6	0.8	1.2	0.1	106	0.16	0.088
P217	Rock	0.23	2.7	49.9	4.5	74	2.4	18.1	0.9	23	0.87	6.1	3.6	1.0	29	0.7	2.7	<0.1	26	0.21	0.113
P218	Rock	0.15	0.6	7.4	0.9	7	0.2	2.6	0.2	49	0.49	0.8	1.1	0.2	13	<0.1	0.5	<0.1	4	<0.01	0.008
P221	Rock	0.38	7.9	63.6	8.1	228	0.6	47.2	2.8	61	2.36	5.4	4.6	5.5	9	0.5	2.3	0.2	24	0.02	0.052
P227	Rock	0.35	8.1	59.8	3.4	241	0.5	63.1	5.0	127	2.11	1.3	0.7	2.0	30	1.1	0.8	<0.1	75	0.62	0.237
P244	Rock	0.16	0.7	57.3	3.3	8	<0.1	1.5	0.4	45	1.96	15.0	1.1	0.4	22	<0.1	0.9	<0.1	14	<0.01	0.028
P245	Rock	0.35	0.9	73.2	3.1	9	<0.1	1.2	0.3	40	2.07	19.6	1.1	0.3	13	<0.1	1.5	<0.1	31	<0.01	0.050
P249	Rock	0.17	0.6	23.7	3.2	5	0.3	1.5	0.5	51	0.87	53.1	14.8	0.5	3	<0.1	2.7	0.3	9	<0.01	0.010
P255	Rock	0.17	0.3	22.3	4.7	6	0.1	1.5	0.3	71	0.71	14.0	0.8	0.3	12	<0.1	2.3	<0.1	4	<0.01	0.012
P256	Rock	0.18	1.7	25.5	17.9	15	<0.1	1.7	0.6	86	1.29	17.6	1.3	0.2	59	<0.1	2.0	<0.1	16	0.01	0.044
P257	Rock	0.09	0.6	11.0	2.1	7	<0.1	2.5	3.0	235	0.77	10.0	2.0	0.5	4	<0.1	0.8	<0.1	8	0.01	0.009
P265	Rock	0.13	14.0	623.1	3.1	345	0.2	102.2	8.3	103	7.14	10.0	3.8	3.7	8	3.2	2.6	0.1	68	0.02	0.152
P266	Rock	0.17	1.1	20.8	6.5	9	0.4	3.8	0.3	23	0.50	7.0	2.7	1.1	6	0.2	0.8	0.1	3	<0.01	0.010
P267	Rock	0.23	4.9	76.6	1.2	70	0.2	27.5	2.1	46	1.77	9.4	4.1	1.8	18	0.9	3.2	<0.1	32	0.01	0.068
P268	Rock	0.16	0.6	14.0	0.7	8	<0.1	6.2	1.3	53	1.20	20.5	0.7	0.3	2	<0.1	0.5	<0.1	2	<0.01	0.009
P269	Rock	0.18	0.4	9.3	1.4	10	<0.1	6.8	13.0	147	0.70	3.0	1.5	0.5	2	<0.1	0.3	<0.1	6	<0.01	0.009
P270	Rock	0.22	0.3	12.3	0.6	6	<0.1	6.7	9.8	139	0.52	2.7	1.8	0.2	1	<0.1	0.7	<0.1	2	0.01	0.011
P271	Rock	0.25	0.4	24.0	1.0	21	0.1	10.1	4.4	111	0.58	21.7	1.0	0.3	3	<0.1	0.4	<0.1	4	<0.01	0.006
P272	Rock	0.25	4.7	112.3	8.6	146	0.7	98.8	30.7	3403	18.73	20.1	4.6	3.2	4	0.5	1.0	0.2	31	0.01	0.047
P273	Rock	0.22	0.4	37.6	4.1	10	<0.1	158.5	40.7	69	0.54	32.2	2.8	1.2	1	<0.1	1.9	0.2	8	<0.01	0.008
P274	Rock	0.24	1.0	77.8	32.4	20	0.2	75.9	27.0	79	1.20	54.0	1.7	2.0	4	<0.1	6.4	0.2	6	<0.01	0.013
P275	Rock	0.18	33.1	164.6	9.4	56	0.4	84.4	23.0	95	2.72	10.2	0.5	1.8	4	0.2	4.7	<0.1	10	<0.01	0.022
P276	Rock	0.20	0.4	12.6	1.5	8	<0.1	9.2	3.7	101	0.62	3.7	<0.5	0.4	1	<0.1	0.6	<0.1	4	<0.01	0.008
P277	Rock	0.32	0.6	17.0	3.5	11	<0.1	10.3	4.6	211	0.69	2.5	2.1	0.5	1	<0.1	0.5	<0.1	6	0.02	0.012
P278	Rock	0.18	3.5	33.3	1.3	22	<0.1	21.3	5.6	207	2.62	15.1	2.5	0.4	1	0.2	1.8	<0.1	8	<0.01	0.023

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Project: SPEC
Report Date: July 23, 2012

CERTIFICATE OF ANALYSIS WHI12000198.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
P194	Rock	1	13	<0.01	58	0.002	<1	0.10	0.002	0.05	<0.1	0.10	1.6	<0.1	<0.05	1	1.6	<0.2
P210	Rock	8	6	0.04	251	0.003	<1	0.24	0.003	0.09	0.5	0.09	0.9	0.1	<0.05	<1	7.4	<0.2
P217	Rock	4	8	0.01	580	0.005	2	0.15	0.003	0.06	0.3	0.08	0.5	<0.1	<0.05	<1	5.4	<0.2
P218	Rock	<1	3	<0.01	86	<0.001	9	0.12	0.001	0.04	0.2	<0.01	0.2	0.1	<0.05	<1	1.1	<0.2
P221	Rock	14	7	0.04	266	0.002	<1	0.31	0.002	0.13	0.2	0.03	2.4	0.2	0.05	<1	2.9	<0.2
P227	Rock	9	14	0.06	609	0.078	<1	0.43	0.006	0.07	0.4	0.02	1.8	0.1	<0.05	1	3.4	<0.2
P244	Rock	2	10	<0.01	182	<0.001	<1	0.09	0.001	0.03	<0.1	0.05	1.4	<0.1	<0.05	<1	2.0	<0.2
P245	Rock	1	9	<0.01	112	0.002	<1	0.08	<0.001	0.02	<0.1	0.07	1.3	<0.1	<0.05	<1	2.2	<0.2
P249	Rock	1	4	<0.01	87	<0.001	1	0.07	<0.001	0.04	<0.1	0.01	0.6	<0.1	<0.05	<1	1.0	<0.2
P255	Rock	2	4	<0.01	117	<0.001	<1	0.05	0.001	0.02	<0.1	<0.01	0.9	<0.1	<0.05	<1	0.7	<0.2
P256	Rock	4	6	<0.01	426	0.001	<1	0.10	<0.001	0.02	0.2	0.02	1.5	<0.1	<0.05	<1	1.1	<0.2
P257	Rock	1	6	0.01	70	0.003	<1	0.11	0.001	0.03	0.2	0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
P265	Rock	3	23	0.03	350	0.004	<1	0.57	0.003	0.09	0.2	0.05	1.3	0.1	<0.05	2	3.3	<0.2
P266	Rock	3	4	0.01	209	0.002	<1	0.14	0.002	0.07	<0.1	<0.01	0.5	<0.1	<0.05	<1	1.1	<0.2
P267	Rock	10	13	0.02	421	0.003	<1	0.28	0.003	0.10	0.1	0.02	1.4	<0.1	<0.05	1	1.2	<0.2
P268	Rock	2	3	0.03	64	0.003	<1	0.08	0.001	0.04	<0.1	<0.01	0.4	<0.1	<0.05	<1	0.6	<0.2
P269	Rock	<1	5	0.01	61	0.002	1	0.13	0.002	0.04	<0.1	<0.01	1.0	<0.1	<0.05	<1	<0.5	<0.2
P270	Rock	<1	2	<0.01	54	0.001	<1	0.07	<0.001	0.03	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
P271	Rock	1	3	<0.01	73	0.002	<1	0.08	<0.001	0.03	0.1	<0.01	0.5	<0.1	<0.05	<1	0.8	<0.2
P272	Rock	11	13	0.03	551	0.001	<1	0.42	0.003	0.08	0.2	0.05	3.1	0.4	<0.05	2	<0.5	<0.2
P273	Rock	3	3	0.05	124	0.004	<1	0.17	0.002	0.08	0.4	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
P274	Rock	5	4	0.02	148	0.002	<1	0.18	0.002	0.09	0.4	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
P275	Rock	5	6	0.02	241	0.003	<1	0.24	0.003	0.11	0.7	0.03	0.8	<0.1	<0.05	<1	0.8	<0.2
P276	Rock	<1	4	<0.01	46	0.001	<1	0.08	<0.001	0.03	0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
P277	Rock	2	4	0.02	54	0.003	<1	0.14	<0.001	0.03	<0.1	<0.01	1.4	<0.1	<0.05	<1	<0.5	<0.2
P278	Rock	1	5	0.01	51	0.002	<1	0.12	<0.001	0.02	0.1	0.02	0.9	0.1	<0.05	<1	0.8	<0.2

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Report Date: July 23, 2012

QUALITY CONTROL REPORT WHI12000198.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
P255	Rock	0.17	0.3	22.3	4.7	6	0.1	1.5	0.3	71	0.71	14.0	0.8	0.3	12	<0.1	2.3	<0.1	4	<0.01	0.012
REP P255	QC		0.2	20.4	4.4	5	<0.1	1.4	0.3	68	0.68	13.6	2.0	0.2	12	<0.1	2.2	<0.1	4	<0.01	0.011
P257	Rock	0.09	0.6	11.0	2.1	7	<0.1	2.5	3.0	235	0.77	10.0	2.0	0.5	4	<0.1	0.8	<0.1	8	0.01	0.009
REP P257	QC		0.6	10.1	2.0	7	<0.1	2.4	2.9	224	0.75	9.4	1.2	0.5	4	<0.1	0.6	<0.1	8	<0.01	0.007
Core Reject Duplicates																					
P267	Rock	0.23	4.9	76.6	1.2	70	0.2	27.5	2.1	46	1.77	9.4	4.1	1.8	18	0.9	3.2	<0.1	32	0.01	0.068
DUP P267	QC		4.4	66.9	1.2	61	0.2	25.5	1.9	43	1.73	9.4	2.1	1.7	17	0.8	3.1	<0.1	31	<0.01	0.065
Reference Materials																					
STD DS9	Standard		12.0	106.6	127.1	296	1.7	40.3	7.2	579	2.31	25.0	115.0	6.5	69	2.6	5.7	7.0	40	0.70	0.083
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-WHI	Prep Blank		0.3	2.5	2.6	46	<0.1	2.8	3.9	534	1.91	0.7	4.9	5.5	58	<0.1	<0.1	0.1	36	0.45	0.074
G1-WHI	Prep Blank		0.1	2.5	2.7	45	<0.1	2.0	4.0	564	1.89	<0.5	2.0	8.1	59	<0.1	<0.1	<0.1	36	0.41	0.076

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Project: SPEC
Report Date: July 23, 2012

QUALITY CONTROL REPORT WHI12000198.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
P255	Rock	2	4	<0.01	117	<0.001	<1	0.05	0.001	0.02	<0.1	<0.01	0.9	<0.1	<0.05	<1	0.7	<0.2
REP P255	QC	2	4	<0.01	109	<0.001	1	0.05	<0.001	0.02	0.1	0.02	0.9	<0.1	<0.05	<1	<0.5	<0.2
P257	Rock	1	6	0.01	70	0.003	<1	0.11	0.001	0.03	0.2	0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
REP P257	QC	1	5	0.01	64	0.003	<1	0.10	0.001	0.03	0.2	<0.01	0.7	<0.1	<0.05	<1	0.5	<0.2
Core Reject Duplicates																		
P267	Rock	10	13	0.02	421	0.003	<1	0.28	0.003	0.10	0.1	0.02	1.4	<0.1	<0.05	1	1.2	<0.2
DUP P267	QC	9	12	0.01	394	0.003	<1	0.25	0.003	0.09	<0.1	0.01	1.4	<0.1	<0.05	<1	1.1	<0.2
Reference Materials																		
STD DS9	Standard	12	121	0.60	286	0.111	4	0.92	0.077	0.39	3.1	0.20	2.3	5.3	0.17	4	5.3	5.1
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-WHI	Prep Blank	11	6	0.48	179	0.113	<1	0.83	0.072	0.46	<0.1	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2
G1-WHI	Prep Blank	13	5	0.48	172	0.109	<1	0.80	0.070	0.46	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2

SPEC Property. Looking north from over Coldspring CK to hill on right (East) with OC qtzite w limonite bxias + anomalous metals found in 2011. Soil grid is on west facing slope in centre of picture (#1 Anomaly Grid)

Quartzite boulder with ½ m bxia zone along side.

SPEC Property (#1 Mag anomaly)
Breccia qtzite fragments with few qtz fragments. Limonitic.

Outcrop 200m W of P265 where 160/30W bedding attitude measured. outcrop lies between Mag anomalies #3 + #4. Quartzite w qtz veins minor limonite.