

**ASSESSMENT REPORT**

On

**ROCK GEOCHEMISTRY**

**BC Geological Survey  
Assessment Report  
31753**

**RUBY STEEL PROPERTY**

Springer Creek Area  
Slocan Mining Division

NTS 82F073, 82F083

UTM Co-Ordinates 5516000N 0469000E

By

TOM KENNEDY, Prospector

October, 2010

**31,753**

**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

**Ministry of Energy, Mines & Petroleum Resources**  
Mining & Minerals Division  
BC Geological Survey

**Assessment Report**  
**Title Page and Summary**

**TYPE OF REPORT [type of survey(s)]:** Rock Geo-Chemistry

**TOTAL COST:** 5238.19

**AUTHOR(S):** Tom Kennedy **SIGNATURE(S):** \_\_\_\_\_

**NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):** \_\_\_\_\_ **YEAR OF WORK:** 2009

**STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):** Event Number 4728873

**PROPERTY NAME:** RUBY STEEL

**CLAIM NAME(S) (on which the work was done):** RUBY STEEL tenure Number 607060

**COMMODITIES SOUGHT:** Gold, Silver, Lead and Zinc

**MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:** \_\_\_\_\_

**MINING DIVISION:** SLOCAN **NTS/BCGS:** 082F073, and 082F083

**LATITUDE:** 49 ° 79 ' 98 " **LONGITUDE:** 117 ° 43 ' 39 " (at centre of work)

**OWNER(S):**  
1) Tom Kennedy 2) \_\_\_\_\_

**MAILING ADDRESS:**  
1082 Cote Rd. South Slocan, BC  
PO Box 40 V0G 2G0

**OPERATOR(S) [who paid for the work]:**  
1) Kootenay Gold Corp. 2) \_\_\_\_\_

**MAILING ADDRESS:**  
Suite 920-1055 W. Hastings St. Vancouver, BC V6E 2E9

**PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):**  
Nelson Batholith, Slocan Fault Zone, Quartz Veining with Base and precious metals

**REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:** \_\_\_\_\_

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (Incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping _____			
Photo Interpretation _____			
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
<b>Airborne</b> _____			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil _____			
Silt _____			
Rock 33 Rock Samples Collected		RUBY STEEL	\$5238.19
Other _____			
<b>DRILLING (total metres; number of holes, size)</b>			
Core _____			
Non-core _____			
<b>RELATED TECHNICAL</b>			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgical _____			
<b>PROSPECTING (scale, area)</b> _____			
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
<b>TOTAL COST:</b>			<b>\$5238.19</b>

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## 1.00 INTRODUCTION

This report describes the results of a Rock geochemistry program conducted on the RUBY STEEL mineral claim during the summer and fall of 2009.

### 1.10 Location and Access

The RUBY STEEL claim is located roughly 2km Northeast of the community of Slocan City and covers the headwaters of Scorpion Creek a northerly tributary of Springer Creek. The claim group is centered roughly at UTM 469000E, 5516000N (Fig.1). Good access to the property is facilitated by the Springer Creek Haul road which breaks off of Highway 6 immediately to the East of Slocan City.

### 1.20 Property

The RUBY STEEL of claim is a single claim block (tenure #607060) owned by Tom Kennedy, that covers an area of approximately 480 hectares and is located within the Slocan mining division (Fig.2).

### 1.30 Physiography

The RUBY STEELE is situated at the headwaters of Scorpion creek and covers a plateau like features on the eastern edge of Slocan Lake. Topography immediately on the claims is moderate to gentle with elevations ranging from 900m to 1500m. The majority of the claim group covers historic to recent logging blocks and the northeastern end of the property covers an area recently affected by forest fire activity. Forest cover on the property is a mixture of species with virgin forest predominantly comprised of cedar hemlock and fir with a mossy under-story. Regeneration in older logging blocks is generally thick with abundant alder and scrub brush. Out crop on the property is quite patchy and would represent less than 10 percent of the land base with the best exposures often along logging roads and skid trails.

### 1.40 History of Previous Exploration

The RUBY STEEL claim is located within the southern end of the prolific Slocan Silver Camp and several minor historic producers are found surrounding the claim with the most significant being the Ottawa Mine approximately 1.5km to the West of the claim margin. The current claim coverage has been held by various other individuals and mining companies but only cursory exploration work has been done to date. A proper compilation of existing assessment data has yet to be done on the property.

# Fig.1 RUBY STEELE Location Map

 **RUBY STEELE Location**

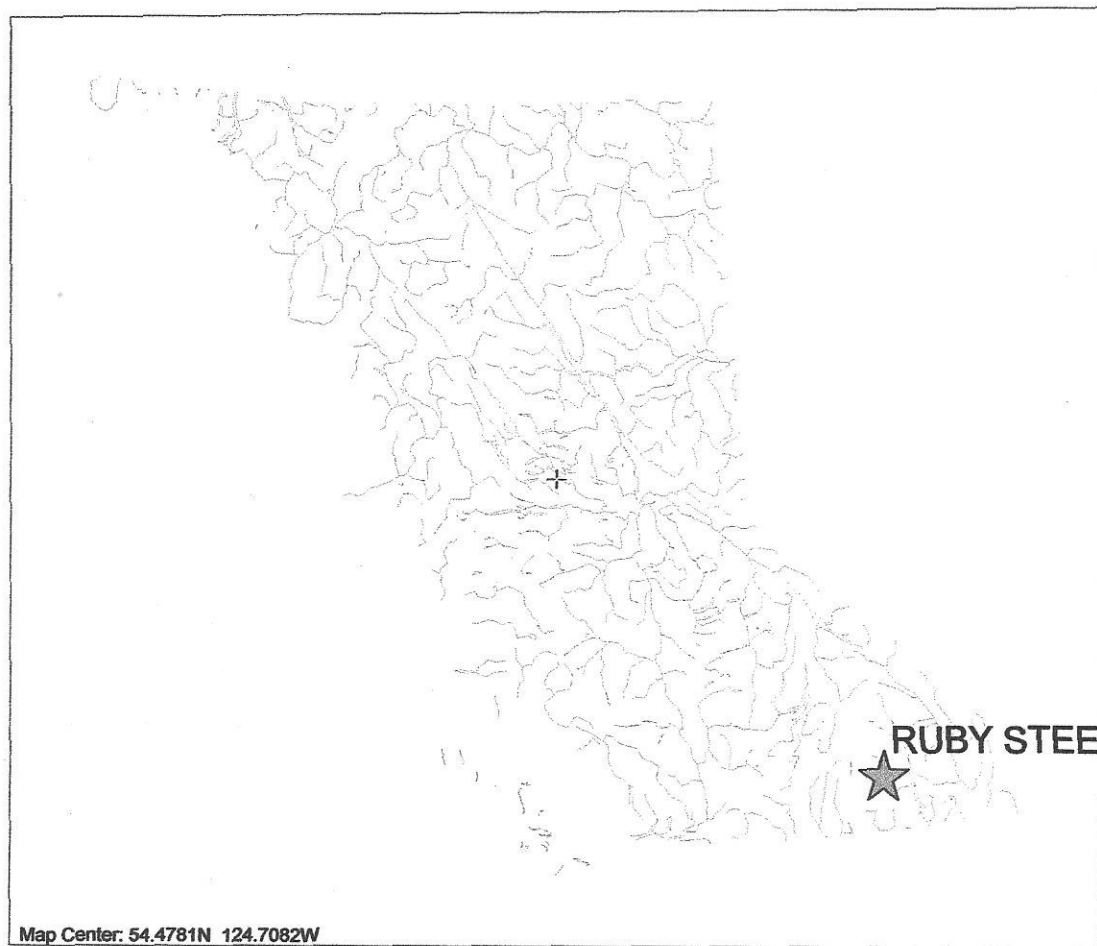
**Topographic Layers**

 **Lakes 1:6M**

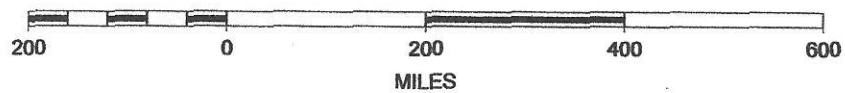
 **Rivers 1:6M**

**BC Border Layers**

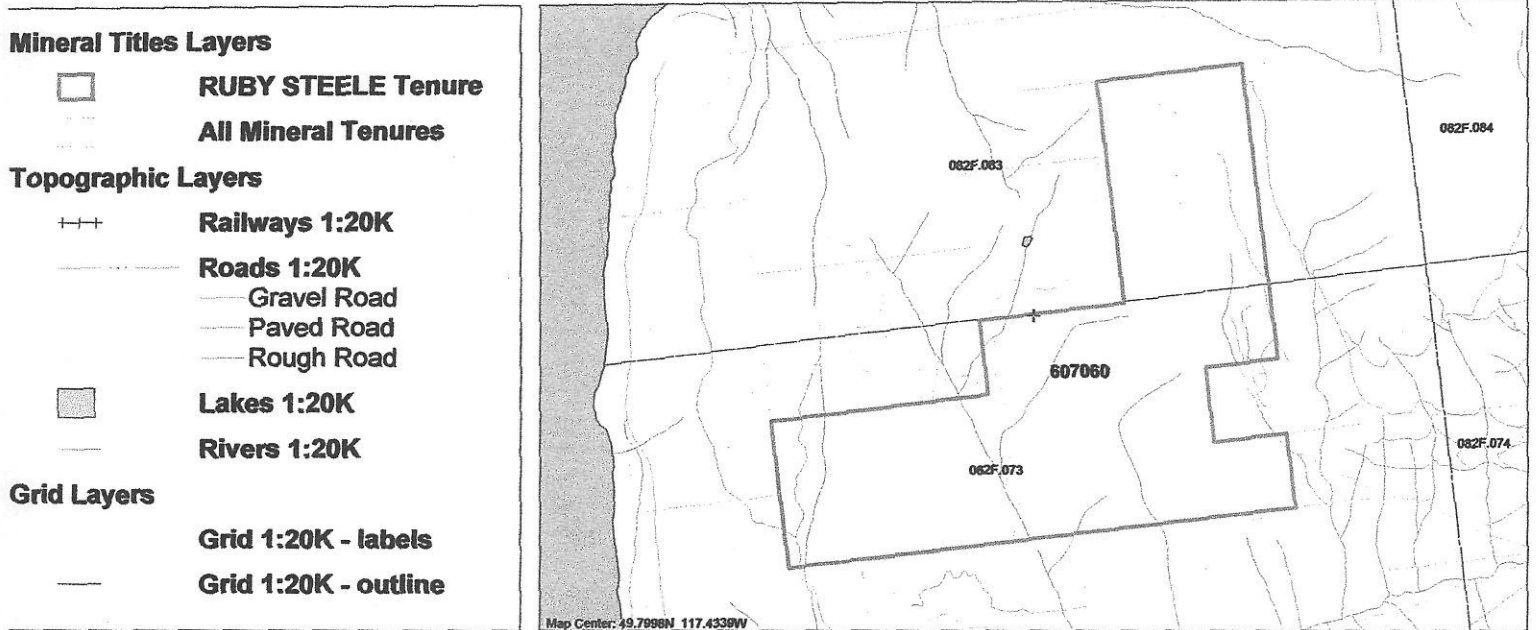
 **BC Border 1:6M**



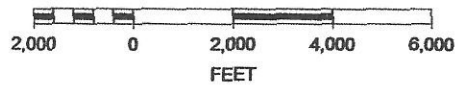
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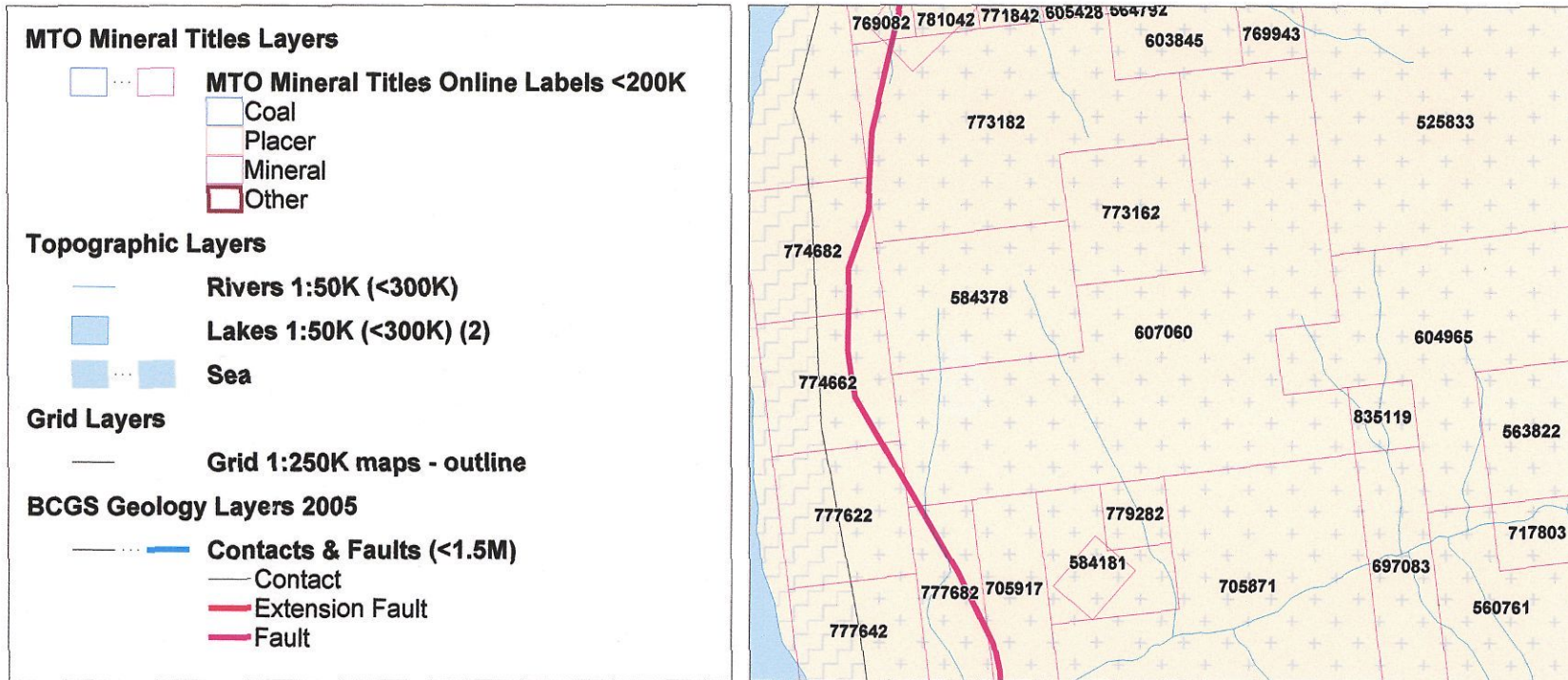
# Fig. 2 RUBY STEELE Claim Map



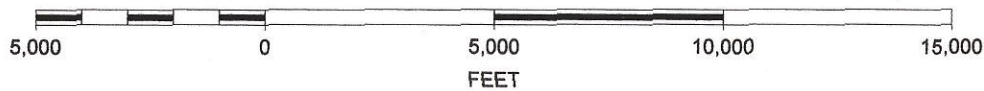
SCALE 1 : 46,780



# Fig. 3 RUBY STEELE Geology Map



SCALE 1 : 50,000





### 1.50 Purpose of work

The purpose of the 2009 rock geochemistry program on the RUBY STEEL Claim was to collect samples from quartz veining found within a portion of the Nelson Batholith. Base and Precious metals were sought and any type of zonation or pattern to either was looked for to help aid and target future work programs.

## 2.00 GEOLOGY

The RUBY STEEL claim covers an eastern portion of the Nelson batholith, which on the property is comprised predominantly of a medium grained mega-crystic granodiorite. This body occurs in the immediate hangingwall of the Slocan lake fault system, a northerly trending tertiary detachment fault. Extensive hydrothermal alteration occurs with the fault zone and consists of argillic and carbonate alteration of the country rock, as well as extensive pyrite flooding commonly with calcite and chlorite. Several roughly parallel trending zones of alteration and brecciation occur on the property within the granite. Numerous basaltic to lamprophyric dykes were seen on the property as well as a number of fine-grained felsite dykes with quartz eyes. Abundant Pegmatite dykes were also noted cutting the Granodiorite and were composed primarily of Feldspar and quartz with rare micas and sulphides (primarily pyrite with rare molybdenite). As well as dyking several small xenoliths of Slocan series sediments were also noted.

## 3.00 ROCK GEO-CHEMISTRY RESULTS

### 3.10 Rock-Geochemistry Procedure

During the 2009 rock Geochemistry program 33 samples were collected. The samples were collected from both outcroppings and float and consisted primarily of grab samples collected with hammers and picks. Locations were marked in the field with flagging and GPS readings were taken of each site with handheld GPS units. These samples were sent to ACME Analytical Laboratories where they were subjected to the Group ID and IDX multi-element assay package. Gold was assayed for by Atomic Absorption with values given in ppb. Sample locations with values plotted for Gold and Arsenic can be found on Figure 4A and Values for Lead Zinc and Silver on Figure 4B (in Pocket), and a complete table of sample descriptions as well as UTM co-ordinates can be found in Appendix A, with Assay certificates in Appendix B

### 3.20 Discussion of Rock Geochemistry Result

During the Rock Geo-chemistry program of 2009 a total of 33 rock samples were collected. Quartz veining within the granodiorite was targeted during this program and two distinct styles of veining were recognized: Milky "Bull" type quartz veins and Epithermal style banded chalcidonic vein networks. Two larger areas of the latter type of "Epithermal" quartz were noted in the eastern and western portion of the claim group

and the majority of sampling was obtained from these two locales. Alteration associated with veining was comprised of carbonate and pyrite flooding of the host with sericite and chlorite as well as some hematite staining also noted. Barite was also noted as a common constituent to the veining, as well as calcite and/or anchorite.

Sample locations with plotted values for Gold, and Arsenic can be found on Figure 4A with plotted values for Silver Lead and Zinc on Figure 4B (In Pocket). A brief breakdown of the results is given below.

**Gold:** Of the 33 samples collected 5 returned values for gold above 50ppb with highs of 311ppb from sample TK09-70, 324ppb from sample TK09-71 and 1397ppb from sample TK09-242 all of which were obtained from the milky "Bull" type quartz vein material. Of the epithermal style quartz only weakly elevated values were obtained. Gold highs were coincident with elevated values for arsenic and with the highest value bismuth as well as some silver.

**Arsenic:** Arsenic values obtained from the program were generally weakly to moderately elevated with 9 samples returning values above 100ppm. The program high of 941ppm was obtained from sample TK09-70 and was coincident with an elevated value for gold of 324ppb. The eastern zone of epithermal quartz veining did not contain any elevated values for arsenic with the majority of anomalous values obtained from the western zone of epithermal veining.

**Silver:** Seven of the 33 samples collected yielded silver levels above 10ppm. The program highs consisted of 29.5ppm at sample TK09-70, 84.1ppm (TK09-80) and >100ppm (TK09-81). The highest silver values correspond to the highest values for Zinc as well as Lead and both styles of quartz veining produced silver values.

**Lead:** 8 samples of the 33 collected produced values for lead over 100ppm with 6 of these over 1000ppm. Program highs consisted of 2576ppm (TK09-84), 2830ppm (TK09-85) and 2959 (TK09-82). Higher values for lead correspond well with zinc as well as silver. The eastern zone of epithermal quartz veining produced the highest values for lead with no anomalies occurring in the western zone

**Zinc:** Zinc levels in the samples were similar to those obtained for Lead with 11 samples returning values over 100ppm. Seven samples gave values above 1000ppm with program highs of 6085ppm (TK09-84), and >10000ppm (TK09-79, 80). Lead, and Silver show a good correlation with Zinc and Cadmium levels also appear to directly relate to zinc with highs corresponding with those of zinc.

**Others:** Weakly anomalous values for Molybdenum were obtained at samples TK09-200 (25ppm) and TK09-195 (29.8ppm) and occurred with elevated values of arsenic in the western zone of epithermal quartz veining.

One sample out of milky "Bull" type quartz veining at TK09-242 returned a high Bismuth value of 408.9ppm and corresponded to the program high for gold.

As noted above Cadmium levels showed a good correlation to elevated Zinc values and program highs of 120ppm and 64.6ppm were obtained from the two highest samples for Zinc at TK09-79, and 80.

Several values for Barium above 1000ppm were obtained out of both areas of epithermal style quartz veining.

#### 4.00 CONCLUSIONS AND RECCOMENDATIONS

The rock geochemistry program conducted during the summer and fall on the RUBY STEEL claim has provided evidence of both base and precious metal enrichment of quartz veining within the Nelson batholith on the immediate claim group. Two styles of veining were noted in the field and rock geochemistry further defined this distinction with the higher values for gold all occurring with the milky "Bull" and only weakly anomalous values obtained from the "Epithermal" style veining.

A zonation between the two main areas of epithermal style veining was also found within the rock geo-chemistry data with the eastern area of veining containing high values for Lead, Zinc and Silver and the western area of veining containing elevated levels of Arsenic as well as Molybdenum and Gold. This zonation could be to the western area being higher within the system and more strongly developed lead zinc and silver mineralization could occur at depth.

Further rock sampling coupled with geological mapping and trenching of the known vein systems is warranted and some form of geophysics could also be used to further target areas of precious and base metal mineralization.

#### 5.00 STATEMENT OF COSTS

Tom Kennedy	6 days @ \$450.00/day (vehicle inclusive)	-\$3000.00
Tom Kennedy	1 days @ \$350.00/day (report writing)	- \$350.00
Sara Kennedy	6 days @ \$150.00/day	- \$900.00
Rock Samples	33 @ \$28.43/sample	- \$938.19
Misc.		-\$50.00
	<b>TOTAL COST</b>	<b><u>\$5238.19</u></b>

## 6.00 AUTHOR'S QUALIFICATIONS

As author of this report I, Tom Kennedy certifies that:

- 1) I am an independent consulting prospector residing at 1082 Cote Rd, South Slocan, B.C.
- 2) I have been actively involved in mining and mineral exploration for the past 19 years.
- 3) I have been employed by individuals as well as \junior and Major mining companies.
- 4) I have created and optioned numerous grass-roots mineral exploration properties.

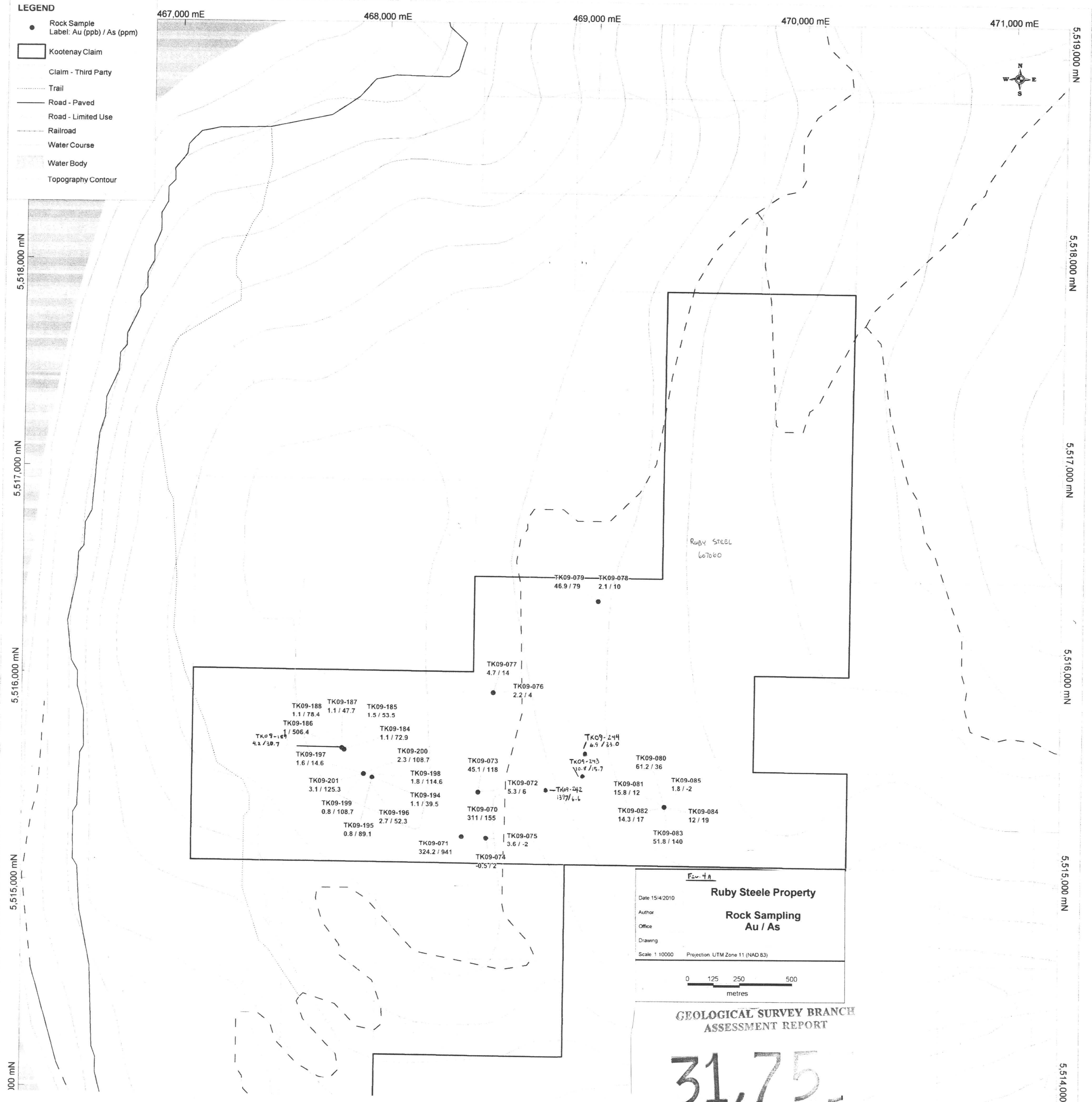
Tom Kennedy

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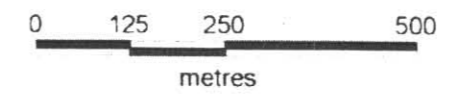
Prospector

**LEGEND**

- Rock Sample  
Label: Au (ppb) / As (ppm)
- Kootenay Claim
- Claim - Third Party
- ⋯ Trail
- Road - Paved
- Road - Limited Use
- Railroad
- Water Course
- Water Body
- Topography Contour



**Ruby Steele Property**  
Date 15/4/2010  
Author  
Office  
Drawing  
Scale 1:10000 Projection UTM Zone 11 (NAD 83)

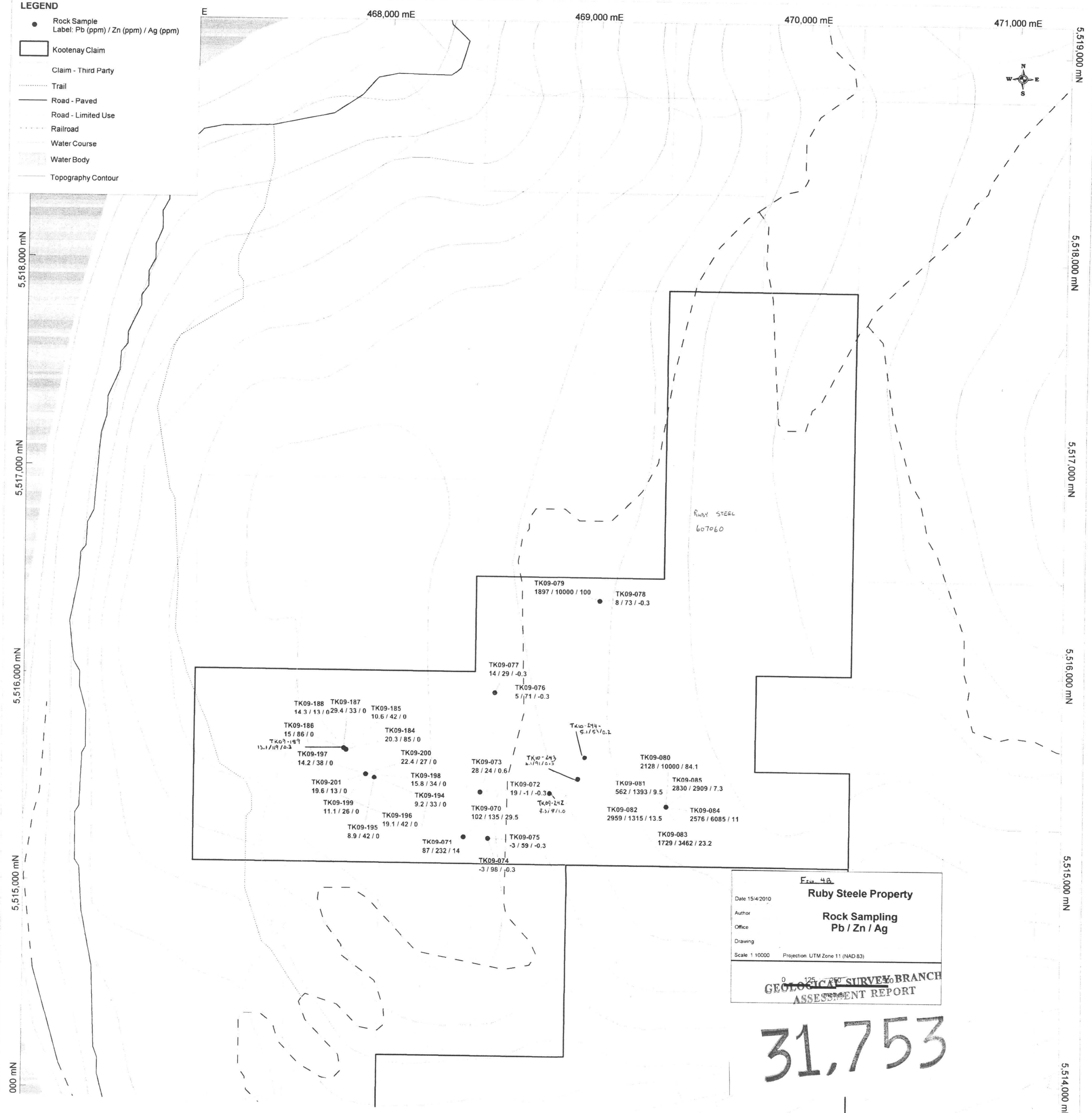


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**LEGEND**

- Rock Sample  
Label: Pb (ppm) / Zn (ppm) / Ag (ppm)
- Kootenay Claim
- Claim - Third Party
- ⋯ Trail
- Road - Paved
- Road - Limited Use
- ⋯ Railroad
- Water Course
- Water Body
- Topography Contour



**Fig. 4B**  
**Ruby Steele Property**  
Date 15/4/2010  
Author  
Office  
Drawing  
Scale 1:10000 Projection UTM Zone 11 (NAD 83)  
**Rock Sampling  
Pb / Zn / Ag**  
**GEOLOGICAL SURVEY BRANCH  
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**APPENDIX 1**

**ROCK SAMPLE  
DESCRIPTIONS**

Sample Number	UTM E	UTM N	Project	Description
TK09-070	468383	5515220	RUBY STEELE	.05m wide quartz vein sub-crop -milky bull type quartz with ribbons of pyrite, Lim with rare PbS sericite and carbonate alteration
TK09-071	468383	5515220	RUBY STEELE	Same as Above
TK09-072	468462	5515435	RUBY STEELE	Epithermal like quartz breccia stringer network in argillic altered diorite with some Lim, Py and carbonate -350 degree trend
TK09-073	468462	5515435	RUBY STEELE	Narrow drusy epithermal quartz veinlets with disseminated Py in and along margins with argillic alteration of host granite -strike 10 degrees dip 70 degrees to E
TK09-074	468501	5515214	RUBY STEELE	Composite of narrow colliform banded silica veining cutting granodiorite unit with Py, and argillic alteration on margins veining -strike 10-20 degrees dip 70 degrees to W
TK09-075	468501	5515214	RUBY STEELE	Same zone as above footwall network of veining with some Py, Lim
TK09-076	468529	5515916	RUBY STEELE	Carbonate sericite Py, altered diorite cut by narrow epithermal quartz veinlets with fine sulfide along bands
TK09-077	468529	5515916	RUBY STEELE	Argillic/clay altered, Py, sericite flooded zone with narrow zones of siliceous breccia with Py and Lim
TK09-078	469028	5516364	RUBY STEELE	Same as Previous
TK09-079	469028	5516364	RUBY STEELE	Zone of epithermal like milky open-space quartz breccia 10m wide with carbonate and argillic alteration of host -strike 20-40 degrees dip 70-25 degrees to E with disseminated and fracture controlled ZnS (pale yellow), PbS and Py - sample is a grab of mineralized material
TK09-080	469355	5515372	RUBY STEELE	Same as Previous
TK09-081	469355	5515372	RUBY STEELE	Same as Previous
TK09-082	469355	5515372	RUBY STEELE	Same as Previous
TK09-083	469355	5515372	RUBY STEELE	Same as Previous
TK09-084	469355	5515372	RUBY STEELE	Same as Previous
TK09-085	469355	5515372	RUBY STEELE	Same as Previous
TK09-184	467816	5515635	RUBY STEELE	2m by 5m Epithermal quartz breccia zone with some lim, Py, and reddish/orange staining -sample composite of zone
TK09-185	467816	5515635	RUBY STEELE	Pyrite/limonite flooded coarser syenite unit with some micro-veining of quartz and a grey sulfide
TK09-186	467816	5515635	RUBY STEELE	Same as Above -composite across 1m interval of zone
TK09-187	467805	5515644	RUBY STEELE	Same zone as Above on strike to W -chalcedonic quartz with Lim, Py and clear barite crystals - sample is a composite of material with barite
TK09-188	467805	5515644	RUBY STEELE	Same as Previous
TK09-189	467805	5515644	RUBY STEELE	Shaft on Py, rich (flooded) argillic altered intrusive within above zone
TK09-194	467952	5515503	RUBY STEELE	Epithermal quartz breccia zone with argillic alteration of granite/diorite host with some clear barite in vugs and fractures -composite of zone with some goethite filling vugs
TK09-195	467952	5515503	RUBY STEELE	Same zone as Above - Grey black sulfide in breccia material with reddish hematitic oxide
TK09-196	467911	5515520	RUBY STEELE	5m wide epithermal quartz breccia zone with open-space veining and vugs with Barite and some Lim staining with yellow and reddish oxides -Samples are 1m composites across zone
TK09-197	467911	5515520	RUBY STEELE	Same as Above -1m across adjacent interval of zone
TK09-198	467911	5515520	RUBY STEELE	Same as Above -1m across adjacent interval of zone
TK09-199	467911	5515520	RUBY STEELE	Same as Above -1m across adjacent interval of zone
TK09-200	467911	5515520	RUBY STEELE	Same as Above -1m across adjacent interval of zone
TK09-201	467911	5515520	RUBY STEELE	Same as Above -1m across adjacent interval of zone
TK09-242	468788	5515456	RUBY STEELE	Quartz stockwork zone in diorite unit with weak carbonate and sericite alteration -milky white quartz with some Lim, Py and grey sulfide
TK09-243	468947	5515529	RUBY STEELE	Narrow quartz carbonate veinlets with some Py and Lim in pendant host Strike 20 degrees dip 45 degrees to E with some Py alteration along margins
TK09-244	468962	5515636	RUBY STEELE	Quartz breccia float(epithermal type) with open space quartz crystal cavities and some Lim and Py



**APPENDIX 2**  
**ASSAY SHEETS**

# AcmeLabs

Acme Analytical Laboratories (Vancouver) Ltd.  
1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Kootenay Gold Inc.**  
Suite 980 - 1055 W. Hastings St.  
Vancouver BC V6E 2E9 Canada

Project: RUBY STEEL  
Report Date: July 22, 2009

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## CERTIFICATE OF ANALYSIS

VAN09002789.1

Method	WGHT	3A	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D	1D
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.5	1	1	3	1	0.3	1	1	2	0.01	2	8	2	2	1	0.5	3	3	1	
TK09-070	Rock	1.07	311.0	<1	6	102	135	29.5	<1	<1	76	1.01	155	<8	<2	<2	8	<0.5	<3	<3	1
TK09-071	Rock	0.94	324.2	2	7	87	232	14.0	<1	2	33	1.69	941	<8	<2	<2	14	<0.5	<3	<3	3
TK09-072	Rock	0.88	5.3	<1	5	19	<1	<0.3	<1	<1	76	0.38	6	37	<2	11	2	<0.5	<3	<3	<1
TK09-073	Rock	0.48	45.1	2	6	28	24	0.6	2	6	409	2.10	118	8	<2	5	17	<0.5	<3	<3	2
TK09-074	Rock	0.73	<0.5	<1	7	<3	98	<0.3	2	10	2094	5.48	2	<8	<2	3	430	<0.5	<3	<3	21
TK09-075	Rock	1.21	3.6	<1	2	<3	59	<0.3	1	6	1284	3.65	<2	9	<2	<2	315	<0.5	<3	<3	12
TK09-076	Rock	0.93	2.2	<1	3	5	71	<0.3	2	7	841	3.22	4	<8	<2	7	280	<0.5	<3	<3	26
TK09-077	Rock	0.68	4.7	5	2	14	29	<0.3	2	7	408	1.13	14	10	<2	4	129	<0.5	<3	<3	5
TK09-078	Rock	1.19	2.1	<1	3	8	73	<0.3	2	6	895	2.78	10	8	<2	5	234	<0.5	<3	<3	11
TK09-079	Rock	0.77	46.9	<1	230	1897	>10000	>100	<1	3	436	1.34	79	<8	<2	<2	216	120.4	6	<3	2
TK09-080	Rock	0.85	61.2	<1	48	2128	>10000	84.1	<1	3	631	1.33	36	<8	<2	<2	102	84.6	5	4	3
TK09-081	Rock	0.75	15.8	1	12	582	1393	9.5	<1	2	499	1.11	12	<8	<2	4	78	4.5	<3	<3	2
TK09-082	Rock	0.71	14.3	<1	35	2959	1315	13.5	<1	2	300	0.80	17	<8	<2	<2	178	2.9	<3	<3	2
TK09-083	Rock	1.99	51.8	4	21	1729	3462	23.2	<1	4	784	1.71	140	<8	<2	4	62	19.3	6	<3	3
TK09-084	Rock	1.09	12.0	<1	15	2576	6085	11.0	<1	2	517	1.13	19	<8	<2	<2	86	37.1	<3	<3	<1
TK09-085	Rock	1.15	1.8	<1	19	2830	2909	7.3	<1	3	998	1.68	<2	<8	<2	4	7	11.3	5	<3	3

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.

# AcmeLabs

Acme Analytical Laboratories (Vancouver) Ltd.  
1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Kootenay Gold Inc.**  
Suite 960 - 1055 W. Hastings St.  
Vancouver BC V6E 2E9 Canada

Project: **RUBY STEEL**  
Report Date: **September 21, 2009**

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## CERTIFICATE OF ANALYSIS VAN09003973

Method	WGHT	3A	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.5	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	
TK09-184	Rock	0.83	0.8	10.8	6.3	20.3	85	0.2	53.9	5.6	127	1.37	72.9	0.2	1.1	0.4	29	0.8	4.6	<0.1	17
TK09-185	Rock	1.37	1.5	2.7	3.4	10.6	42	0.1	28.6	4.7	132	2.18	53.5	0.4	1.5	2.7	36	0.2	1.0	<0.1	14
TK09-186	Rock	0.83	0.9	13.2	8.1	15.0	86	0.1	318.8	41.6	1298	4.62	506.4	0.8	1.0	1.7	70	0.3	6.2	0.1	44
TK09-187	Rock	1.01	1.9	5.9	3.9	29.4	33	0.5	12.9	1.7	45	0.72	47.7	0.6	1.1	1.4	49	0.2	6.5	<0.1	6
TK09-188	Rock	1.01	1.0	2.7	2.9	14.3	13	0.3	16.9	2.7	41	0.57	78.4	0.2	1.1	0.4	30	<0.1	4.9	<0.1	4
TK09-189	Rock	0.72	4.9	1.2	21.1	13.1	119	0.3	13.0	7.3	438	2.83	30.7	2.5	4.2	6.8	31	0.3	0.6	0.1	21
TK09-194	Rock	0.76	<0.5	5.2	2.1	9.2	33	0.2	28.2	3.6	121	1.01	39.5	0.7	1.1	1.4	32	0.1	1.3	<0.1	8
TK09-195	Rock	0.77	1.5	29.6	3.2	8.9	42	0.1	81.0	12.0	278	1.88	89.1	0.4	0.8	0.7	23	0.2	2.4	<0.1	15
TK09-196	Rock	1.02	2.3	11.3	2.0	19.1	42	0.5	35.2	4.3	462	1.54	52.3	1.2	2.7	3.8	28	0.3	1.7	0.1	7
TK09-197	Rock	1.14	1.0	3.3	2.4	14.2	38	0.1	9.9	2.8	146	1.75	14.6	1.8	1.6	4.6	17	0.1	0.7	<0.1	9
TK09-198	Rock	1.18	1.8	13.1	4.2	15.8	34	0.2	39.7	11.2	224	1.96	114.8	1.1	1.8	2.8	62	0.1	2.0	<0.1	14
TK09-199	Rock	1.10	2.2	8.2	3.2	11.1	26	0.2	52.6	7.3	70	1.02	108.7	0.3	0.8	0.8	72	0.2	2.9	<0.1	9
TK09-200	Rock	1.53	1.8	25.0	7.6	22.4	27	0.2	28.7	10.1	98	0.79	108.7	0.7	2.3	2.1	69	0.1	3.5	<0.1	7
TK09-201	Rock	0.61	3.9	1.1	2.4	19.6	13	0.1	11.8	3.1	39	0.33	125.3	0.2	3.1	0.6	36	<0.1	2.7	<0.1	4

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Project:

RUBY STEEL

Report Date:

September 21, 2009

Page:

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## CERTIFICATE OF ANALYSIS

VAN09003973.1

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	
TK09-184	Rock	0.02	0.018	3	28	0.02	407	<0.001	<20	0.14	0.002	0.05	0.2	0.02	2.6	<0.1	<0.05	<1	<0.5
TK09-185	Rock	0.02	0.026	13	15	0.02	90	<0.001	<20	0.21	0.004	0.11	0.2	0.09	3.1	<0.1	<0.05	1	<0.5
TK09-186	Rock	0.13	0.096	17	102	0.04	298	0.001	<20	0.22	0.003	0.07	0.2	0.06	9.2	<0.1	<0.05	1	<0.5
TK09-187	Rock	0.02	0.014	6	17	0.01	2834	<0.001	<20	0.14	0.004	0.11	0.1	0.07	0.9	<0.1	0.05	<1	<0.5
TK09-188	Rock	0.02	0.014	3	20	<0.01	2170	<0.001	<20	0.08	0.003	0.04	0.1	0.02	0.4	<0.1	<0.05	<1	<0.5
TK09-189	Rock	0.23	0.119	20	9	0.12	184	<0.001	<20	0.31	0.003	0.11	0.2	0.33	5.8	<0.1	0.81	1	<0.5
TK09-194	Rock	0.05	0.033	6	15	0.03	2722	<0.001	<20	0.14	0.003	0.09	<0.1	0.02	1.5	<0.1	0.08	<1	<0.5
TK09-195	Rock	0.08	0.045	3	38	0.02	43	<0.001	<20	0.12	0.003	0.07	0.1	0.02	3.0	<0.1	<0.05	<1	<0.5
TK09-196	Rock	0.11	0.044	13	10	0.02	3055	<0.001	<20	0.22	0.003	0.10	0.1	0.08	1.5	<0.1	0.07	<1	<0.5
TK09-197	Rock	0.02	0.035	16	4	0.02	42	<0.001	<20	0.23	0.003	0.10	0.1	0.08	2.4	<0.1	<0.05	1	<0.5
TK09-198	Rock	0.03	0.038	12	28	0.02	2190	<0.001	<20	0.23	0.004	0.14	0.1	0.15	2.0	0.1	<0.05	1	<0.5
TK09-199	Rock	0.04	0.030	7	30	0.02	2000	<0.001	<20	0.14	0.004	0.07	<0.1	0.04	1.3	<0.1	<0.05	<1	<0.5
TK09-200	Rock	0.16	0.086	15	27	0.01	2417	<0.001	<20	0.20	0.003	0.11	0.1	0.11	0.9	0.2	0.05	<1	<0.5
TK09-201	Rock	0.05	0.024	3	14	0.01	1903	<0.001	<20	0.11	0.002	0.07	<0.1	0.05	0.3	<0.1	0.06	<1	<0.5

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Project: RUBY STEEL  
 Report Date: November 16, 2009

Page: 2 of 2 Part 1

## CERTIFICATE OF ANALYSIS

VAN09005273-1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
TK09-242	Rock	0.83	1.5	4.2	8.3	8	1.0	0.9	1.2	170	0.85	6.6	0.3	1397	0.4	2	<0.1	0.2	408.9	3	0.05
TK09-243	Rock	1.00	2.0	135.4	6.5	91	0.3	7.2	19.7	1249	5.12	15.7	0.8	10.6	1.5	236	<0.1	0.3	2.4	141	3.27
TK09-244	Rock	0.84	1.3	2.6	5.1	53	0.2	1.1	6.3	913	3.48	33.0	0.3	6.9	1.0	390	0.2	0.2	1.0	7	4.59

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Project:

RUBY STEEL

Report Date:

November 16, 2009

Page:

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Part 2

## CERTIFICATE OF ANALYSIS

VAN09005273-1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.001	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	
TK09-242	Rock	0.022	4	10	0.02	5	<0.001	1	0.11	0.004	0.08	0.4	<0.01	0.7	<0.1	<0.05	<1	0.9
TK09-243	Rock	0.183	4	17	1.14	57	0.008	<1	1.84	0.032	0.12	0.2	<0.01	9.8	<0.1	0.81	8	0.7
TK09-244	Rock	0.070	8	5	0.65	42	0.002	2	0.15	0.003	0.13	0.4	<0.01	5.9	<0.1	0.09	<1	<0.5

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