

**BC Geological Survey  
Assessment Report  
31470**

## **2007 GEOLOGY REPORT**

**on the**

### **Murray Property**

**Lat. 50° 37' North  
Long. 117° 59' West  
Trim Map #: 082K.061  
NTS: 82K/12**

**For**

**SELKIRK MINERAL SYNDICATE  
5936 Stafford Rd.  
Nelson, BC  
V1L 6P3**

**By: Bernhardt Augsten, P.Geo.  
March, 2010**

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## **1.0 SUMMARY**

The Murray property is located approximately 45km south of Revelstoke, British Columbia on the west shore of Arrow Lake.

The property is situated at relatively low elevations and except for steeply incised creek valleys would not be considered rugged. The property has excellent access by virtue of a network of new and older logging roads. Industrial activity in the area is manifested by variably-aged cut blocks.

The property consists of several showings of polymetallic gold and silver-bearing sulphide mineralization which appear to be stratabound and may represent volcanogenic massive sulphides. The property first came to existence as a mineral showing in the early 1980's with no written history of previous discovery. In the intervening years exploration work was limited to prospecting, geochemical surveys and some geophysics. No trenching or diamond drilling was carried out.

The current sampling program confirmed some of the historical grades on the property and also validated the assumption that mineralization appears to be stratabound.

Significant values of 7.13% Cu, 5.65 g/t Au, 4.97% Zn and 112 g/t Ag were obtained from sulphide-bearing metavolcanic rocks.

Other rock sampling and limited stream sediment geochemistry confirmed past indications of a potential mineralized target area exceeding 3 kilometres in length.

Future work recommendations include further prospecting, soil geochemistry, airborne geophysics and IP.

## **2.0 INTRODUCTION**

This report outlines the results of two prospecting trips that were undertaken on the Murray claims in the summer and early fall of 2009. The purpose of this work was to substantiate historical work and to show that the Murray property has potential to host gold-bearing volcanogenic massive sulphides. Additionally it was important to get a sense of the areal extent of exploration potential on the property.

## **3.0 LOCATION, ACCESS AND PHYSIOGRAPHY**

The Murray property is located approximately 45km south of Revelstoke, British Columbia on the west shore of Arrow Lake. The property is traversed by a number of new and old logging roads. The older roads are partially brushed in but would be serviceable with very minimal work. The claims are only 5km from BC Hwy #23 and about 30 minutes to the Shelter Bay Ferry on Arrow Lakes. (see Figure 1).

The Property is situated at relatively low elevation on a generally east to northeast facing slope. Elevations range from 460 to 1400 metres. For the most part the property would not be considered rugged with the exception of the drainages which form narrow steeply incised gullies. Significant mineralized showings occur in one such east trending drainage. Much of the property has been logged over the last 50 years. The original forest, some of which remains, consists of Western Cedar, Hemlock, Douglas Fir, Spruce and Balsam Fir. The same species exist as second growth along with ubiquitous alder.

Figure 1 Location Map



## 4.0 CLAIM STATUS

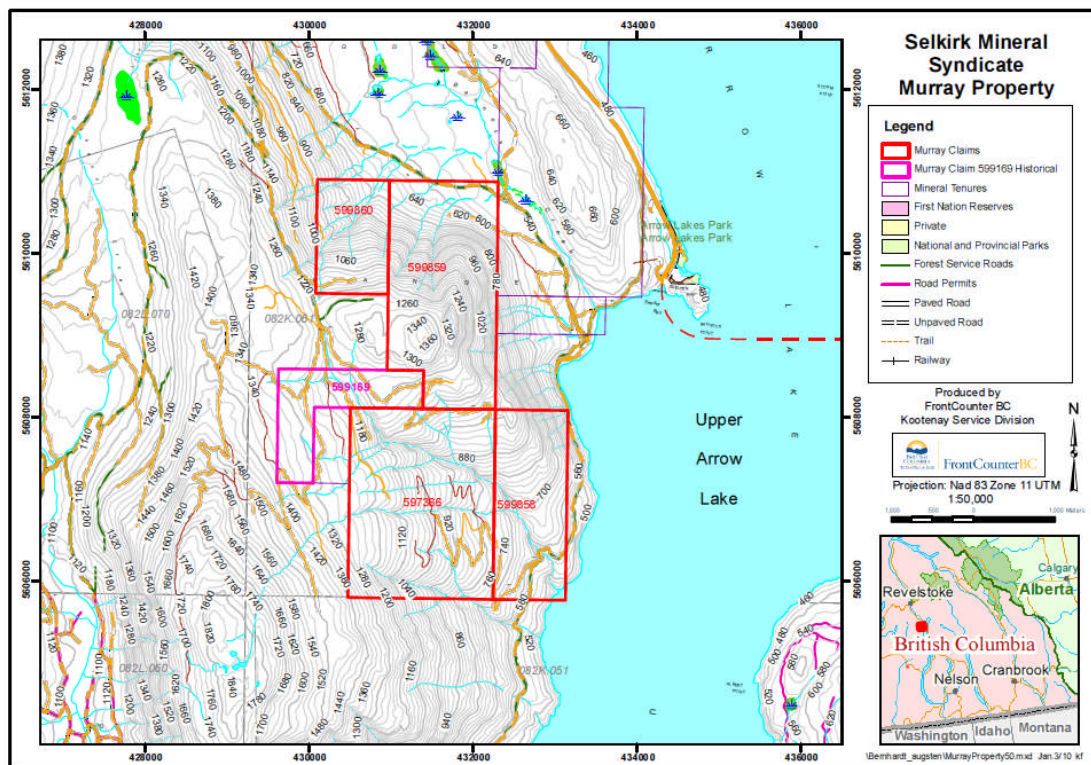
The claims are jointly owned by a prospecting syndicate, Selkirk Minerals Syndicate. The property currently consists of two claims covering an effective area of 533.14 hectares.

**Table 1 Claim Data**

TENURE #	# OF HECTARES	EXPIRY DATE
597366	410.13	March 12, 2012*
599169	123.01	March 12, 2012*

\* After successful filing of this assessment report

**Figure 2 Claim Map**



## 5.0 REGIONAL AND LOCAL GEOLGY

*The following description of the regional geological context in which the Murray Property is situated was written by Jamie Kraft who has undertaken a mapping project in the area as part of his studies at the University of Alberta. The writer is indebted to Mr. Kraft for his help in this regard. A geological map will soon be available which will cover the Murray property as part of a larger area, (Kraft et al, in prep).*

### *Stratigraphy*

The Murray claims occur in a heterogeneous succession of amphibolitic schist to biotite schist with minor amphibolite and marble. The amphibolitic schist succession is likely the metamorphic product of intermixed volcanic, volcanoclastic, siliciclastic and minor carbonate rocks. It has been mapped along the shores of Upper Arrow Lake from Mount Sproat in the north to Scalping Knife Mountain at the Arrow Lakes narrows (Hyndman, 1968; Lemieux, 2006; Kraft et al., in prep), and likely traces westward into the Vernon map area (Thompson et al., 2006).

Although it was previously inferred to be Upper Mississippian to Permian in age (Read and Wheeler, 1976), the amphibolitic schist succession at Upper Arrow Lake was recently re-interpreted to have been deposited in an Upper Devonian or Lower Mississippian back-arc basin on the basis of new mapping and geochemical data (Kraft et al., in prep). The amphibolitic schist, which hosts the Murray claims, is lithologically similar to and is interpreted as a time-stratigraphic, eastern equivalent of Upper Devonian to Lower Mississippian members of the Eagle Bay assemblage, likely having deposited near the basin's eastern margin (Kraft, pers. comm. 2010). To the east, the amphibolitic schist conformably overlies highly variable Upper Devonian or Lower Mississippian metasediments and mafic to intermediate arc volcanic rocks. It is unconformably overlain by the sedimentary Upper Mississippian Milford Group.

### *Structure and metamorphism*

The Murray claims occupy the immediate hanging wall of the Columbia River fault zone – a moderately east dipping extensional fault of Eocene age with potentially kilometres of east-side down displacement (Lemieux, 2006; Thompson et al., 2006). The fault zone is



characterized by cataclasite and gouge zones that locally overprint mylonitic fabrics. Although chloritization and other hydrothermal alteration of country rock are typical near the trace of the fault zone, mineralization appears not to have genetic links to the fault zone. Compositional layering in the amphibolitic schist was transposed into the metamorphic foliation under epidote amphibolite-facies conditions during the mid-Jurassic (Read, 1973; Roback, 1993; Kraft pers. comm., 2010).

## **6.0 EXPLORATION HISTORY**

The Murray property or more importantly the mineralized showings which constitute the important part of the Murray property were discovered in 1983 by Fran Jenkins and Bill Cameron of Revelstoke, BC. Prior to this there is no record of any exploration work or discoveries in the area. Fran Jenkins and Bill Cameron conducted soil surveys, heavy metal Bloom geochemical tests, prospecting and Self Potential on the property. Their work demonstrated the occurrence of stratabound copper-rich massive sulphides hosted in metavolcanic and metasedimentary rocks, (Jenkins, 1984). Between 1983 and 1987 several companies visited the property and collected some data which is not available. In the spring of 1987 G.W.R. Resources Inc. optioned the property. They immediately enlarged the claim block by staking and established a grid over the central part of the claim. They laid out 22 line kilometers of grid with stations every 25 metres. The grid was chained and compassed. On the grid they conducted soil surveys and ground VLF-EM and Magnetics in addition to examining outcrops. A total of 69 soils, and 33 rock samples were collected. Some petrographic work was done as well, (Leishman, 1987). Leishman concluded that despite poor geophysical response, the obvious high grade and stratabound nature of the mineralization and some intriguing soil anomalies warranted further work.

Orphan Boy Resources Inc. staked the Mur 1 claim in October 1999 which covered the principal occurrences on the original Murray Property. Orphan Boy conducted a brief prospecting program in which a total of 30 rock samples were collected. Highlights included values of >10% Cu, 65.8ppm Ag and 6875 ppm Zn. Further work was recommended in the form of detailed soil and rock geochemistry, prospecting and Mag and VLF-EM geophysics, (Goodall, 2001).

This was the last recorded work prior to the work described in this report.

## **7.0 PROSPECTING RESULTS**

All samples are plotted on Fig. 3 with results and descriptions in Tables 2 and 3.

### **7.1 GEOLOGY**

Outcrop exposure is largely restricted to road cuts and incised creek gullies. This report did not include geological mapping per se, however, sulphide mineralization occurs within chlorite, chlorite-actinolite and quartz-biotite-garnet schists. The principal occurrences are located within a deeply incised east-trending creek gully. The rocks here are strongly foliated with a northwest trend. Isoclinal folding is indicated by dip reversals.

### **7.2 MINERALIZATION**

The best mineralization occurs in a steeply incised east-trending tributary of Longworth Creek. Copper, gold, silver and zinc mineralization in outcrop occurs intermittently over a 110 metre section of the creek. Mineralization occurs as disseminated to semi-massive to massive aggregates and seams of sulphides hosted by chlorite schists, chlorite-actinolite schists and felsic metasediments? Sulphides consist of pyrite, chalcopyrite, sphalerite and bornite. Magnetite is locally present as well. Two interesting but different forms of mineralization are especially noteworthy. In sample **#189581** gold, copper and zinc occur in a silicified portion of chlorite-actinolite schists. Sphalerite was not visually identified but obviously occurs. This sample returned the best gold value of **5.65 g/t Au** with **1.48% Cu** and **4.97% Zn**. In Sample **#189583** strong copper, with anomalous gold, silver and zinc occurs in a strongly oxidized chlorite schist. This outcrop forms a prominent cliff on the north side of the creek, (See Fig. ). Limited sampling of this material returned values of **7.13% Cu**, **0.75 g/t Au**, **112 g/t Ag** and **1006 ppm Zn**. The cliff-like nature of this outcrop make sampling challenging. Some unsampled float on the south bank of the same creek would indicate perhaps that the zone trends southward. Sample # **189582** is a piece of sulphide-rich quartz material (float) which appears to be a

quartz boudin originating in the outcrop of sample #**189583**. Extremely high copper (**18.05%**) and appreciable gold (**3.11 g/t**), silver (**92.3 g/t**) and zinc (**7369ppm**) values were obtained from this sample.

In summary sulphide mineralization on the Murray property appears stratabound, occurring as massive to semi-massive sulphides and disseminated sulphides within metavolcanic and perhaps metasedimentary rocks. Quartz vein type material is thought to be quartz boudins within the schists, and sulphides, in fact, occur around the boudins more so than in them.

**Figure 3 Limonite-stained Sulphide-bearing Schists**



Table 2 Rock Sample Results

Rock_ID	Location GPS (Nad83)		Au g/t	Ag g/t	Cu ppm	Zn ppm	Pb ppm
	Easting	Northing					
189551	431480	5606400	<0.03	0.9	22.9	347.1	1056.00
189552	430875	5607635	0.46	31.8	1.61*	215.9	134.80
189553	430965	5607675	0.07	14.3	1.75*	273.2	41.97
189554	430965	5607675	<0.03	0.5	1361.0	143.0	15.83
189555	430178	5609120	<0.03	0.1	92.5	60.5	7.74
189579	430922	5607623	0.4	9.5	1.08*	838	256
189580	430911	5607629	2.18	48.4	5.34*	2354	112
189581	430960	5607670	5.65	18.0	1.48*	4.97*	682
189582	430910	5607641	3.11	92.3	18.05*	7369	46
189583	430849	5607587	0.75	112	7.13*	1006	370
189584	430208	5608650	0.03	0.5	230	36	6
189585	430261	5609144	0.04	1.6	2993	80	8
189586	430646	5608093	0.21	0.2	114	18	<2
189587	430705	5608001	0.07	1.9	4291	134	6

\* denotes assay in ppm

Table 3 Rock Sample Descriptions

Rock_ID	Location GPS (Nad83)		ROCK SAMPLE DESCRIPTION
	Easting	Northing	
189551	431480	5606400	Quartz vein float; strong jarosite/limonite with minor pyrite and tr silvery/blue mineral (poss galena?)
189552	430875	5607635	Biotite-qtz-fsp schist with coarse grained chalcopryrite; segregations of cpy to 3mm thick; foliation @ 347/62E
189553	430965	5607675	Felsic looking rock; sericite-quartz with malachite staining in foliation planes/fixs; possible tr bornite; tr py; orange garnets
189554	430965	5607675	Felsic looking rock; sericite-quartz with malachite staining in foliation planes/fixs; possible tr bornite; tr py; orange garnets; foliation @ 165/20W.
189555	430178	5609120	Chlorite schist with tr py, cpy; foliation @ 238/50N
189579	430922	5607623	Chlorite-actinolite-garnet schist with segregations of py, cpy(var),and mt; 3-7% py, 1% cpy; foliation @ 210/24N Similar to 189579; outcrop about 8m uphill from 189579;
189580	430911	5607629	foliation @ 170/28W; Note: schists have qtz vein augen which contain lesser cpy, py; at this location schists have well-developed surface limonite, goethite; malachite staining

189581	430960	5607670	less common here; Approximately 75m downstream of 189579; narrow, 5-10cm 'layer' within chlorite/actinolite schist; silicified, dark green with 3% diss/fc cpy and 5-7% diss/fc py; minor mt; foliation @ 204/14N.
189582	430910	5607641	Float; large rounded qtz vein material with strong fc py, cpy and bornite; 20% cpy, <2% py, tr bn; located in creek bed about 15m upstream of 189579.
189583	430849	5607587	Sulphide-rich lens or layer within chlorite schists; strong oxidized at this location; difficult to sample due to steep location; where less oxidized rock is strongly chloritized with strong (15-20%) fc py, tr cpy; foliation @ 350/40E; Note: float on south bank of creek indicates zone continues to south.
189584	430208	5608650	Outcrop/subcrop of iron carbonate altered volcanic? <1% fc py, 2-3% qtz veinlets +/- py;
189585	430261	5609144	Quartz-fsp-biotite schist to gneiss with diss/segregations of py (2-3%) and <1% diss/seg cpy along foliation planes; tr malachite; Taken from Pit Area
189586	430646	5608093	Quartz vein float; 6-7cm thick; fractured quartz; mod fc limonite; 2% fc/diss py;
189587	430705	5608001	Intermediate volcanic (chlorite schist) with <0.5% diss cpy; malachite staining on foliation planes; foliation @ 356/54E.

## 8.0 STREAM SEDIMENT GEOCHEMISTRY

A total of 5 stream sediment (silt) samples were collected from streams draining the property as a potential exploration tool, (See Figure ). For the most part the values were low with one exception. Interestingly, even sample # MYSS-2 taken on the lower part of Longworth Creek returned low values despite occurrences of massive to semi-massive copper-gold-silver-zinc bearing massive sulphides in a tributary to Longworth Creek. The one exception was sample # MYSS-5 (*121.2 ppm Cu, 113.0 ppm Zn*), which occurs in a small stream near where Leishman, 1987, describes high copper soil geochemistry. This area warrants follow-up for that reason.

Table 4 Silt Sample Results

Silt_ID	Location GPS (Nad83)		Au	Ag	Cu	Zn
			ppm	ppm	ppm	ppm
MYSS-1	430284	5644624	1.0	0.1	21.4	43.9
MYSS-2	432809	5606375	3.2	0.1	51.3	57.4
MYSS-3	432496	5605465	1.4	0.1	38.9	64.9
MYSS-4	432095	5606830	2.4	0.1	49.1	68.0
MYSS-5	431440	5606365	1.6	0.2	121.2	113.0

## **9.0 CONCLUSIONS AND RECOMMENDATIONS**

The work outlined in this report confirmed the stratabound nature of high grade sulphide mineralization described in previous work. Mineralization on the Murray Property is polymetallic in nature with copper, zinc, gold and silver. Best mineralization to date is confined to one deeply incised creek drainage, but stream sediment sampling and past work point to a northwest trending zone of potential mineralization extending for approximately three kilometers as shown. Despite previous lack of success using basic geophysical techniques (VLF-EM) the massive nature of some of the chalcopyrite mineralization would indicate that given a large enough body of similar sulphides electromagnetic techniques should be successful. Additionally, widespread disseminated copper sulphides and pyrite indicate that induced polarization (IP) surveys may be used. The lack of argillaceous or pelagic rocks make this technique even more attractive.

Recommendations for further work should include the following:

1. It is recommended that the entire property be surveyed with airborne geophysical surveys measuring EM and Magnetics. The lines should be flown in a northeast-southwest direction.
2. Detailed prospecting in the vicinity of the highest grade showing should be undertaken to trace this unit to the southwest and northeast if possible.
3. Prospecting should be carried out on Longworth Creek where previous work identified some copper and zinc mineralization.
4. Prospecting should be undertaken to the south in the vicinity of the anomalous copper and zinc in silts and where previous work identified copper soil geochemistry to 4000ppm.
5. Lastly some detailed geological mapping should be carried out in the creek with main mineralized showings to better understand the lithological and structural setting.

## 10.0 COST STATEMENT

	K. Murray (2 days @\$250.00)	\$500.00
<b>Labour</b>	M. Hudock (4 days @\$250.00)	\$1000.00
	B. Augsten (4 day @ \$250.00)	\$1000.00
<b>Trucks and Fuel</b>		500.95
<b>Accomodation</b>		320.00
<b>Meals</b>		377.34
<b>Analyses</b>	Eco-Tech Laboratories Ltd	564.52
<b>Shipping</b>		\$48.35
<b>Report Preparation</b>		\$500.00
	<b>TOTAL</b>	<b>\$4,811.16</b>

## 11.0 REFERENCES

- Goodall, G., 2001: *Prospecting Report on the Murray Property, Mur 1 Mineral Claim, Assessment Report # 26765.*
- Hyndman, D.W., 1968. *Petrology and structure of the Nakusp map-area, British Columbia; Geological Survey of Canada, Bulletin 161, 95 p*
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- Kraft, J.L., Thompson, R.I., and Dhesi, P. (in prep): *Geology, BEATON (82K/12), Geological Survey of Canada Open File Map, 1:50,000 scale.*
- Leishman, D., 1987: *Geological, Geochemical and Geophysical Report on the Murray Claims, for GWR Resources Inc., Assessment Report # 16361.*
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- Read, P.B., and Wheeler, J.O., 1976: *Geology of the Lardeau west-half map-area, British Columbia.* Geological Survey of Canada, Open File 432, 1:250,000.
- Roback, R.C., 1993: *Late Paleozoic to Middle Mesozoic tectonic evolution of the Kootenay Arc, northeastern Washington and southeastern British Columbia.* Ph.D. thesis, University of Texas, Austin, 237 p.
- Thompson, R.I., Glombick, P., Erdmer, P., Heaman, L.M., Lemieux, Y., and Daughtry, K.L., 2006: *Evolution of the ancestral Pacific margin, southern Canadian Cordillera: Insights from new geologic maps; In Colpron, M. and Nelson, J.L. eds., Paleozoic Evolution and*



*Metallogeny of Pericratonic terranes at the Ancient Pacific Margin of North America, Canadian and Alaskan Cordillera.* Geological Association of Canada, Special Paper 45, p. 435-484.

MINFILE: British Columbia Mineral Occurrence database.

RGS: British Columbia geochemical database

MAPPLACE: interactive site for geoscience data for British Columbia.

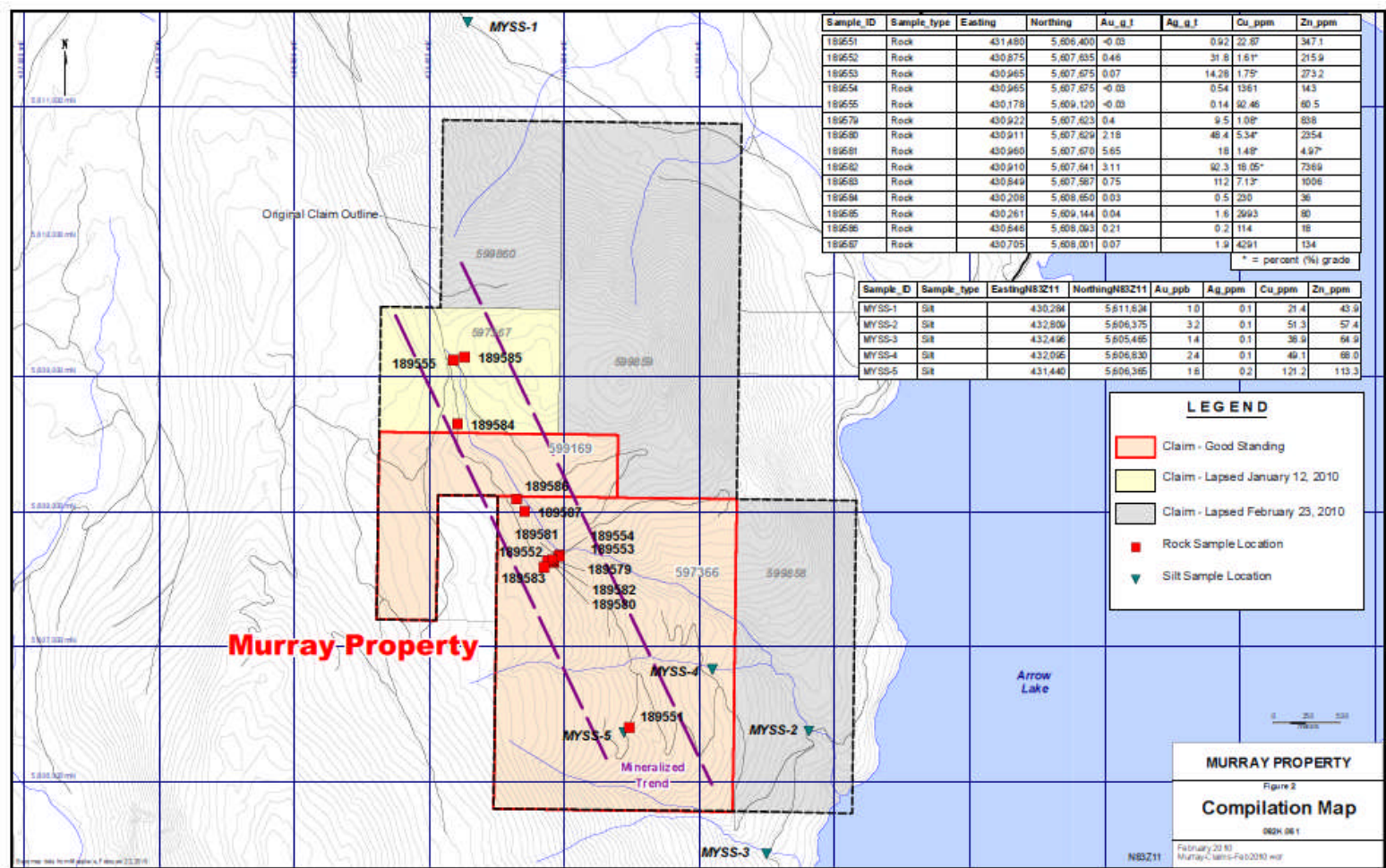


Figure 4 Compilation Map

## **11.0 CERTIFICATE of AUTHOR**

*I, Bernhardt Augsten, P. Geo., do hereby certify that:*

1. *I am currently self-employed as a consulting geologist resident at:  
5936 Stafford Rd.  
Nelson, BC  
V1L 6P3*
2. *I graduated with a degree in Geology, BSc Hons, from Carleton University in 1985.*
3. *I am a member of the Association of Professional Engineers and Geoscientists of British Columbia.*
4. *I have worked as an exploration geologist since my graduation from university.*
5. *I am a part owner of the Murray Property.*

# **APPENDIX I**

## **CERTIFICATE OF ANALYSES**



Eco Tech Laboratory Ltd.  
 2953 Shuswap Road  
 Kamloops, BC  
 V2H 1S9 Canada  
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 www.stewartgroupglobal.com



**StewartGroup**  
 Geochemical & Assay

**CERTIFICATE OF ASSAY AK 2009-0209**

**Selkirk Mineral Syndicate**  
 5936 Stafford Rd  
**Nelson, BC**  
 V1L 6P3

1-Jul-09

No. of samples received: 6  
 Sample Type: Rock  
 Project: **Murray**  
 Submitted by: **Bernie Augsten**

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Cu (%)
1	8R189551	<0.03	<0.001			
2	8R189552	0.46	0.013	31.8	0.93	1.61
3	8R189553	0.07	0.002			1.75
4	8R189554	<0.03	<0.001			
5	8R189555	<0.03	<0.001			
6	G8860	0.31	0.009			

**QC DATA:**

**Repeat:**

1	8R189551	<0.03	<0.001			
2	8R189552	0.46	0.013	32.3	0.94	1.68
6	G8860	0.30	0.009			


**Resplit:**

1	8R189551	<0.03	<0.001			
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**Standard:**

OX167	1.81	0.053				
Pb104			105	3.06		
Cu120						1.54

NM/nw  
 XLS/09

  
**ECOTECH LABORATORY LTD.**  
 Norman Monteith  
 B.C. Certified Assayer

No. of samples received: 6

Sample Type: Rock

Project: Murray

Submitted by: Bernie Augsten

Values in ppm unless otherwise reported

El #.	Tag #	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	U	V	W	Zn		
1	8R189551	0.9	0.08	0.4	248.5	5.52	0.25	1.66	1.2	182.0	22.9	0.81	1.0	5	0.03	2.0	<0.01	45	3.24	0.034	4.9	1233	1056.00	0.42	0.04	0.1	0.6	19.5	0.02	0.3	0.001	0.12	3.4	2	0.3	347.1		
2	8R189552	>30	1.38	3.0	35.0	2.78	0.21	0.59	8.4	62.5	>10000	10.24	9.3	15	0.08	2.5	0.57	437	8.91	0.038	5.6	1139	134.80	2.62	0.12	3.6	9.5	10.5	5.34	5.3	0.179	0.04	1.2	28	0.5	215.9		
3	8R189553	14.3	2.09	0.3	24.0	5.84	1.06	2.05	12.9	68.5	>10000	9.57	9.5	<5	0.06	6.0	1.41	567	2.28	0.079	3.8	1832	41.97	1.04	<0.02	7.0	3.2	18.5	0.40	1.9	0.055	<0.02	2.0	76	0.2	273.2		
4	8R189554	0.5	1.81	0.3	23.5	0.12	0.76	0.47	13.6	65.0	1361.0	4.42	9.1	<5	0.06	7.5	1.75	504	1.02	0.052	6.9	445	15.83	0.08	<0.02	19.8	0.4	19.5	0.06	3.4	0.186	<0.02	0.7	116	0.4	143.0		
5	8R189555	0.1	0.92	0.7	102.5	0.10	4.30	0.08	9.8	105.5	92.5	3.37	6.4	<5	0.06	17.5	0.73	724	3.04	0.043	6.1	886	7.74	0.74	<0.02	3.7	0.6	148.5	0.04	7.7	0.007	<0.02	1.8	38	<0.1	60.5		
6	G8860	2.7	0.09	12.1	4.0	3.36	0.06	12.09	1.5	157.0	19.8	1.41	0.5	840	0.02	<0.5	0.02	81	1.09	0.025	4.3	14	688.90	0.92	0.20	0.1	0.2	7.0	0.12	0.2	0.002	0.04	0.1	<2	>100	437.0		
QC DATA:																																						
Repeat:		1	8R189551	0.9	0.08	0.4	260.5	5.36	0.24	1.63	1.2	190.5	21.9	0.78	1.0	10	0.03	1.5	<0.01	45	3.14	0.032	4.9	1179	1019.00	0.38	0.04	0.1	0.6	18.5	0.04	0.3	0.001	0.12	3.1	2	0.5	339.8
Standard:		Till-3	1.5	1.08	84.2	36.5	0.34	0.59	0.10	10.7	67.5	20.3	2.07	4.7	95	0.07	15.0	0.62	323	0.70	0.043	33.1	463	18.20	0.06	0.60	4.4	0.5	14.5	0.04	2.8	0.062	0.06	1.1	36	0.2	40.1	

Aqua Regia Digest/CPMS Finish

ECO TECH LABORATORY LTD.

Norman Monteith  
B.C. Certified Assayer



**CERTIFICATE OF ASSAY AK 2009-0594**

**Selkirk Mineral Syndicate**  
 5936 Stafford Rd  
**Nelson, BC**  
 V1L 6P3

21-Oct-09

*No. of samples received: 9*  
*Sample Type: Rock*  
**Project: Murray**  
*Submitted by: Bernie Augsten*

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Cu (%)	Zn (%)
1	8R189579	0.40	0.012			1.08	
2	8R189580	2.18	0.064	48.4	1.41	5.34	
3	8R189581	5.65	0.165			1.48	4.97
4	8R189582	3.11	0.091	92.3	2.69	18.1	
5	8R189583	0.75	0.022	112	3.27	7.13	
6	8R189584	0.03	0.001				
7	8R189585	0.04	0.001				
8	8R189586	0.21	0.006				
9	8R189587	0.07	0.002				

**QC DATA:**

**Repeat:**

1	8R189579	0.35	0.010			1.10	
2	8R189580	2.31	0.067				
3	8R189581	5.33	0.155				
4	8R189582	3.31	0.097				
5	8R189583	0.71	0.021				

**Resplit:**

1	8R189579	0.36	0.010				
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**Standard:**

HiSilk2	3.42	0.100					
Pb104			104	3.03	0.42	1.49	
Cu120					1.54		

**ECO TECH LABORATORY LTD.**  
 Norman Monteith  
 B.C. Certified Assayer

NM/ap  
 XLS/09



Stewart Group  
 ECO TECH LABORATORY LTD.  
 10041 Dallas Drive  
 KAMLOOPS, B.C.  
 V2C 6T4  
[www.stewartgroupglobal.com](http://www.stewartgroupglobal.com)

ICP CERTIFICATE OF ANALYSIS AK 2009- 0594

Selkirk Mineral Syndicate  
 5936 Stafford Rd  
 Nelson, BC  
 V1L 6P3

Phone: 250-573-5700  
 Fax : 250-573-4557

No. of samples received: 9  
 Sample Type: Rock  
 Project: Murray  
 Submitted by: Bernie Augsten

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	8R189579	9.5	4.57	<5	10	<5	0.25	8	65	48	>10000	>10	<10	3.03	544	<1	0.05	5	430	256	<5	<20	12	0.17	<10	99	10	4	838
2	8R189580	>30	2.20	<5	<5	5	0.12	24	226	45	>10000	>10	<10	1.17	274	<1	0.04	5	450	112	5	<20	8	0.09	<10	35	20	3	2354
3	8R189581	18.0	1.69	80	<5	<5	0.15	155	35	119	>10000	>10	<10	0.50	555	<1	0.03	4	490	682	5	<20	7	0.05	<10	12	10	1	>10000
4	8R189582	>30	1.78	<5	<5	45	0.06	53	41	37	>10000	>10	<10	0.72	214	<1	0.04	<1	1080	46	10	<20	1	0.02	<10	20	30	1	7369
5	8R189583	>30	2.71	<5	<5	10	0.04	12	31	39	>10000	>10	<10	1.31	352	1	0.04	<1	550	370	10	<20	1	0.05	<10	49	30	1	1006
6	8R189584	0.5	0.42	<5	115	<5	0.12	<1	7	67	230	2.24	20	0.12	198	<1	0.05	12	630	6	<5	<20	13	<0.01	<10	24	<10	6	36
7	8R189585	1.6	2.08	<5	5	<5	0.37	3	28	61	2993	7.21	<10	1.50	316	5	0.05	5	450	8	<5	<20	23	0.24	<10	127	<10	4	80
8	8R189586	0.2	0.17	<5	45	<5	4.09	<1	4	129	114	2.09	<10	0.32	1435	<1	0.01	3	260	<2	<5	<20	253	<0.01	<10	8	<10	9	18
9	8R189587	1.9	2.58	<5	35	<5	1.02	2	31	65	4291	4.81	<10	1.96	663	<1	0.04	15	960	6	<5	<20	63	0.35	<10	95	<10	2	134

QC DATA:

Repeat:

1	8R189579	9.3	4.39	<5	10	<5	0.23	8	68	46	>10000	>10	<10	2.93	512	<1	0.05	5	390	246	<5	<20	11	0.16	<10	93	10	3	794
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Resplit:


1	8R189579	8.7	4.15	<5	5	<5	0.20	7	72	54	>10000	>10	<10	2.73	495	<1	0.04	6	380	234	<5	<20	10	0.15	<10	84	10	3	788
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Standard:

Pb129a		11.9	0.86	5	65	<5	0.46	56	6	11	1389	1.53	<10	0.68	353	2	0.03	5	420	6246	15	<20	29	0.05	<10	17	<10	2	9986
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ICP: Aqua Regia Digest / ICP- AES Finish.  
 Ag : Aqua Regia Digest / AA Finish.

NM/nw  
 dl/2\_594s  
 XLS/09



ECO TECH LABORATORY LTD.  
 Norman Monteith  
 B.C. Certified Assayer

Stewart Group  
ECO TECH LABORATORY LTD.

10041 Dallas Drive  
KAMLOOPS, B.C.  
V2C 6T4

## ICP CERTIFICATE OF ANALYSIS AK 2009- 0210

Selkirk Mineral Syndicate  
5936 Stafford Rd  
Nelson, BC  
V1L 6P3

Phone: 250-573-5700  
Fax : 250-573-4557

No. of samples received: 5  
Sample Type: Silt  
Project: Murray  
Submitted by: Bernie Augsten

Values in ppm unless otherwise reported

Et #.	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1	MYSS-1	1.0	0.1	1.30	0.8	58.5	0.32	0.33	0.08	7.8	20.0	21.4	1.77	5.2	10	0.11	12.0	0.40	238	0.60	0.030	16.3	819	8.37	0.04	<0.02	3.0	0.4	16.5	0.04	4.5	0.052	0.08	1.5	24	0.5	43.9
2	MYSS-2	3.2	0.1	1.00	1.0	97.5	0.26	0.53	0.21	10.6	10.0	51.3	2.51	4.2	10	0.09	9.0	0.55	431	0.59	0.049	8.5	1351	11.18	0.08	0.02	2.8	0.5	61.0	0.04	3.3	0.049	0.06	1.3	40	0.3	57.4
3	MYSS-3	1.4	0.1	1.25	1.2	167.5	0.28	0.37	0.19	9.8	21.0	38.9	2.67	5.2	10	0.07	12.0	0.53	465	0.85	0.026	14.3	927	15.54	0.08	0.04	3.9	0.4	22.0	0.04	3.5	0.031	0.08	2.2	34	0.4	64.9
4	MYSS-4	2.4	0.1	1.27	1.2	171.0	0.30	0.61	0.27	12.6	15.5	49.1	3.07	5.6	15	0.09	13.5	0.69	646	0.83	0.048	11.1	1574	16.13	0.06	0.06	4.4	0.6	39.5	<0.02	3.0	0.040	0.08	2.3	46	0.3	68.0
5	MYSS-5	1.6	0.2	1.46	1.2	87.0	0.44	0.53	0.39	10.8	13.0	121.2	3.16	6.3	15	0.08	12.0	0.55	562	1.01	0.033	9.6	1458	32.70	0.04	0.04	3.7	0.5	28.5	0.04	2.9	0.049	0.06	1.4	38	0.3	113.3

**QC DATA:****Repeat:**

1	MYSS-1	1.0	0.1	1.19	0.7	54.5	0.24	0.28	0.08	7.2	18.5	19.5	1.62	4.6	10	0.10	11.0	0.37	218	0.58	0.029	15.4	787	7.41	0.04	<0.02	2.7	0.4	15.5	0.04	4.0	0.049	0.08	1.3	22	0.5	40.1
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**Standard:**

Till-3			1.5	1.03	86.0	38.5	0.32	0.58	0.11	10.5	60.5	21.12	1.93	4.1	120	0.04	13.5	0.65	303	0.66	0.045	31.1	462.0	21.35	0.02	0.48	3.0	0.6	13.0	0.04	2.2	0.056	0.06	1.3	38	<0.1	39.6
SE29a		597.6																																			

Aqua Regia Digest/ICPMS Finish

  
ECO TECH LABORATORY LTD.  
Norman Monteith  
B.C. Certified Assayer

NM/nw  
df/msr210S  
XLS/09