

AR 2011 - 026

ASSESSMENT WORK REPORT
for Exp. Licence 09052
Lynn, Colchester County, N.S.
21H/08D

By: Patrick Bellefontaine
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Head Chezzetcook, NS B0J 1N0
February, 2011

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APPENDIX

Stream sediment sample analysis
Soil sample analysis
UTM co-ordinates for sample sites

Figure 1 - Property location map
Figure 2 - NSDNR samples and results
Figure 3 - Stream and soil sample locations

INTRODUCTION: Work was undertaken on the claim group to follow up on results from the NSDNR stream sediment survey released in 1982-83 (see Bibliography).

SUMMARY: Stream sediment samples were taken to confirm previous results from the NSDNR survey.

The NSDNR stream sediment anomalies were confirmed with similar base metals results. The 30+ element analysis of the stream sediments also gave interesting numbers in other elements. Gold analysis gave anomalous results.

Soil sampling followed with widely placed samples revealing Pb increasing to the south along Lynn Road as well as an elevated Zn result close to the stream sediment sampling locations.

LOCATION / ACCESS: The property is located to the East of Lynn which is no longer a village but still a place name. Lynn is located 7 Km north of the community of Lower Five Islands. Lynn is also a similar distance (25 Km by road) from both Parrsboro and Springhill which are the most populated communities in the area.

Driving directions are as follows: from the community of Lower Five Islands drive west for about 1 Km and then turn onto Lynn Road which is a well maintained gravel road. Head North, driving for 6 Km, then turn right onto an unnamed dirt road and travel for 600 meters through blueberry fields to where the logging road begins and blueberry field ends. It may be gated. This is where the claim is located.

The general area is covered by blueberry fields on both sides of Lynn Road. Logging was active in the claim recently and I was told new roads were being made in certain areas. Most of the older woods roads were overgrown with only the main one still used.

The topography of the majority of the claim group is gently sloping down towards the North River and the unnamed streams that flow into it with swampy areas near their headwaters.

LAND OWNERSHIP: The land is owned by various individuals and used for blueberry farming and logging with most land in large parcels up to 2600 acres.

LICENCE TABULATION : The property consists of 42 claims held under Exploration Licence 09052 in the name of Patrick Bellefontaine as follows:

<u>NTS</u>	<u>TRACT</u>	<u>CLAIMS</u>
21H/08D	76	LMNO
21H/08D	77	JKLM NOPQ
21H/08D	92	All Claims
21H/08D	93	CDEF LMNO
21H/08D	100	CD
21H/08D	101	ABCD

GEOLOGY : The majority of the claim group is underlain by Neoproterozoic Cranberry Lake Formation (3Jc) as can be seen in NSDNR Open File Map ME 2005-115. The Cranberry Lake Formation consists of “grey, lithic arkose, siltstone and argillite; minor rhyolite tuff”.

The southwestern portion of the property has been mapped as the North River Pluton which is a medium grained granite.

PREVIOUS WORK: The NSDNR released stream sediment survey results from 2 different periods; the 1982-83 survey and the 1986-87 survey. A till sample from their 1977-82 till sampling survey is also near the claim block.

The 1982-83 stream sediment survey showed high values for Zn, Pb, Co, Mn, As, Mo and also very high Hg. Cu was noticeably low.

These are the only geochemical survey results that can be found for the property.

Minotaur Atlantic Exploration Ltd. in the hunt for IOCG deposits had a gravity survey completed on the property in 2008 which showed a slight gravity high. No other work was reported as being carried out by them.

Various explorers performed work on projects all around the property in the search for base metals and uranium but these wont be discussed here. There are no known mineral occurrences on the property, but many occur to the south including two base metal occurrence in the North River Pluton 1 km to the south of the claim boundary. This is known as mineral occurrence H08-061 in the the NSDNR mineral occurrence database and is listed as Pb, Zn and Cu in veins.

WORK PERFORMED: All work and research for the property was done by Patrick Bellefontaine including creating this entire report.

1 day was used to take stream sediment samples. This was in the fall of 2009 and is not being used for work credits. Samples LY1-LY5 were taken during this period. These samples were analyzed for Zn, Pb and Co.

1 day was spent taking two more stream sediment samples in March, 2010(samples LY0, LY6). Some prospecting along the stream was also done. Sample LY0 was taken further up stream than the highly anomalous LY1. The two samples(LY0, LY6) and the pulp from sample LY1 were then analyzed for a larger package of elements (30+) and also for gold.

1 day was spent in June 2010 to carefully look over the +80 mesh reject material from the 7 stream sediment samples(LY0-LY6).

1 day was spent in June 2010 to carefully pan down the +80 mesh reject material from samples LY0-LY6 looking for sulphides.

3 days were spent prospecting and soil sampling in December 2010.

2 days were required for landholder meetings. One day in April and one in May 2010.

2 days were used for 4 trips to Dalhousie University to both drop off different samples and pick up rejects and pulps. One day in each of March, April and December of 2010 and one day in January 2011.

4 days were spent at (or going to) the NSDNR library/office, including 1 hour speaking with Bob Ryan and 2 hours speaking with Ron Mills. Monthly visits included March (twice), June and August of 2010 and once in January and twice in February of 2011. Time was spent looking at older Assessment Reports.

5 days were spent for research from my home of all available assessment reports, open file maps etc. that are available on the NSDNR website.

3 days were spent writing this report and creating the maps.

METHODOLOGY: Stream sediment samples were taken from natural traps using a shovel. The samples were screened into a polyethylene ore bag using a 4 mesh stainless steel/plastic screen. Sample bags were then sealed with a zip tie with an attached ID number on a tyvek tag. Samples were taken every 150-250 meters in the selected area.

Soil samples were from hand dug pits dug with a shovel. Samples were taken from the B horizon at depths of 20-30cm. Samples were placed in polyethylene ore bags with no screening and only larger rocks taken out by hand. The bags were sealed with zip ties with an attached ID number on a tyvek tag. The spacing between samples varied from 200 to greater than 300 meters.

All samples were analyzed for the -80 mesh fraction.

All sample locations were saved using a Garmin Oregon 550 GPS.

RESULTS: Stream sediment results confirm the previous NSDNR sampling and possibly traced the anomaly closer to its source with sample LY1 having very high metal results up to 5160ppm Zn, 3869ppm Pb, and 2003ppm Co. The re-analysis of this sample for a larger element package had many interesting results including its Ba, Bi, Sb, Cd, and As numbers. The lack of Cu and the gold results of <50ppb are also interesting.

Soil samples showed Pb increasing to the south along Lynn Road with a high of 100ppm which would be considered anomalous in this area. A result of 323ppm Zn close to the stream sampling area is also interesting.

Looking over the +80 mesh reject material from LY0-LY6 showed they seemed to have a lot of brown/black powder (iron/manganese oxide?). Some small (<5mm) balls of this same material were found. These could be easily broken and it's understandable how screening this material would cause them to disintegrate into the powdery material.

Another observation was there appeared to be small pebbles of magnetic granite that were not rounded at all (possibly from the magnetic anomaly to the SW?). Glaciation in the area has been mapped from virtually every direction (see bibliography).

Panning revealed no sulphides or much quartz either. Plenty of brown/black powdery material was once again found, it was not heavy and washed away.

CONCLUSIONS / RECOMMENDATIONS: The stream sediment survey confirmed previous NSDNR results with the soil survey giving interesting results, but being too widely placed to draw any conclusions from. It's unknown what role the manganese plays in the high results for the various metals in the stream samples.

In the future the focus will be in the southern half of the property and near soil sample Y8 which had 323ppm Zn.

Sampling will also be done in other streams and near the slight gravity high on the property that can be seen in Minotaur Atlantic's assessment report from the area (AR 2008-181).

STATEMENT OF QUALIFICATIONS:

This report was written and all work was performed by Patrick Bellefontaine.

I am a self taught prospector with more then 8 years of experience.

I have been an investor in resource companies for over 15 years.

My prospector ID # is 1224

BIBLIOGRAPHY:

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Iron, Copper, Gold, Cobequid-Chedabucto Fault Zone, Cumberland, Colchester, Pictou, Antigonish and Guysborough Counties, Nova Scotia. Report on Ground Gravity Surveys, Prospecting, Geological Mapping, and Rock Sampling and Chemical Analyses [Exploration for Iron Oxide Copper-Gold Along the Cobequid-Chedabucto Structure, Nova Scotia], Minotaur Atlantic Exploration Limited; Assessment Report ME 2008-181

APPENDIX

Stream sediment samples are LY0-LY6, Y11

Soil samples are Y1-Y10, Y12-Y16



Quantitative Trace Element Analysis of Rocks, Ores, etc.

(Copper, lead, zinc, nickel, cobalt, bismuth, chromium, lithium, manganese, cadmium, vanadium, antimony, silver, molybdenum, boron, barium, beryllium, calcium, iron, potassium, sodium, phosphorous, sulphur, selenium, silica, tin, strontium, titanium, tungsten, zirconium, & arsenic)

1 gram samples are digested with hydrochloric-nitric-hydrofluoric-perchloric acids. Elements are determined by Flame Atomic Absorption or ICP OES with detection limit of 1 ppm. Some of the refractory elements, such as zirconium, titanium, and chromium, may only be partially extracted. Arsenic can also be determined by atomic absorption/hydride generation method for low detection limit.

Soil and rock samples may also be digested with aqua regia only to partially extract soluble elements (i.e. an aliquot may be taken from the aqua regia leach on gold digestion to be used in base metal determination). On a 10 gram sample, the detection limit is 0.1 ppm base metals. Arsenic detection limit is 1 ppb on a 10 gram sample using the hydride generation atomic absorption technique.

Reference standards from CANMET and NRC Canada are used to check the accuracy of the analysis.



DALHOUSIE
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Standard Sample Preparation of Soil and Humus

Samples up to 2 kg are dried at 105°C for at least 12 hours. After drying, samples are screened at 80 mesh. Clay samples may need to be broken up before screening in order to liberate <80 mesh material. The fine material is bagged into 4 or 7 oz “Whirlpaks” and labeled. The coarse reject may be saved upon client request.

Screens are cleaned with soft nylon brushes and jets of air between samples.



Fire Assay Procedure – Gold

www.minerals.engineering.dal.ca

Sample Decomposition: Fire Assay Fusion

Analytical Method: Atomic Absorption Spectroscopy (AAS), Inductively Coupled
Plasma Optical Emission Spectroscopy (ICPOES)

Tel: 902.494.3955
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A prepared sample is fused with a neutral lead oxide flux inquartered with 4 mg of gold-free silver and then cupelled to yield a precious metal bead. The bead is digested for one hour in 1.0ml of dilute nitric acid. Hydrochloric acid (1.0ml) is then added and the solution is digested for an additional hour. The digested solution is then cooled, diluted to 6.0 ml with double distilled water, mixed and then analyzed by AAS or ICPOES.

Certified reference samples from CANMET, West Coast Minerals, or Rocklabs are analyzed with each batch. In addition, duplicate check analysis and method blank analysis are also run with the samples. A CRM sample is inserted with every batch of 20 samples.

Au detection limit is 0.005 ppm, or 5 ppb, on a 30g sample.



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30-Mar-10

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Re: Results of analysis on submitted samples.
Near total acid digest, ICP OES finish.

Sample ID	mg/kg						
	Ag	Al	As	Ba	Be	Bi	Ca
LY-1	<5	36279	237	1931	2.9	28	2974
LY-6	<5	47704	192	790	2.7	10	4538
LY-0	<5	42498	372	811	2.2	7	4691

Sample ID	mg/kg						
	Cd	Co	Cr	Cu	Fe	In	K
LY-1	296	1720	25	40	61948	<50	2699
LY-6	41	744	31	22	61184	<50	9976
LY-0	32	963	31	21	86616	<50	6326

Sample ID	mg/kg						
	Li	Mg	Mn	Mo	Na	Ni	P
LY-1	14	1576	263458	82	5872	186	1205
LY-6	21	4072	82783	32	6975	31	1188
LY-0	21	4380	71525	43	5942	32	1697

Sample ID	mg/kg						
	Pb	S	Sb	Se	Sn	Sr	Te
LY-1	3150	1164	202	68	<10	31	13
LY-6	1620	880	123	16	<10	52	14
LY-0	1570	1248	67	16	<10	52	18

Sample ID	mg/kg				
	Ti	V	W	Zn	Zr
LY-1	1104	66	<25	4200	30
LY-6	3041	82	<25	957	60
LY-0	2872	118	<25	897	53

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Manager, Minerals Engineering Centre

22-Mar-10

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**Re: Results of analysis on submitted samples. Au analysis
using FA-lead collection, AAS or ICP OES finish.**

Solids: Sample	Au (mg/kg)
C1	<0.005
C2	<0.005
C3	<0.005
C4	<0.005
LY0	<0.010
LY1	<0.050
LY6	<0.025

QC Reference Samples:	Au (mg/kg)	
	Measured	Certified
CCU-1C	4.87	4.94±0.13
OxG70	1.059	1.007±0.013



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4-Mar-10

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**Re: results of analysis on submitted soil samples, <80 mesh fraction.
Nitric/Hydrochloric acid digestion, AAS finish.**

Solids: Sample	mg/kg				
	Cu	Pb	Zn	Ni	Co
LY-1		3869	5160		2003
LY-2		1162	1152		475
LY-3		188	557		37
LY-4		178	743		31
LY-5		843	1056		88
AH-1	35			41	20
AH-2	37			39	19
AH-3	29			41	20
AH-4	33			40	19
AH-5	26			29	19
AH-6	37			36	15
AH-7	23			33	11
AH-7 Lab Duplicate	25			33	12
C-1		33	61		
C-2		42	48		
C-3		26	36		
C-4		26	44		
CANMET Reference Standards	mg/kg				
	Cu	Pb	Zn	Ni	Co
Till-1	45	11	60	14	7
LKSD-2	36	41	214	22	9



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20-Jan-11

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**Re: results of analysis on submitted soil samples, <80 mesh fraction.
Nitric/Hydrochloric acid digestion, AAS or ICP OES finish.**

Sample	mg/kg				
	Ag	Co	Cu	Pb	Zn
EV-1			18	47	169
EV-2			7	51	99
EV-3			15	59	185
EV-4			23	32	137
EV-5			19	15	225
EV-6			15	62	116
EV-7			13	45	123
EV-8			10	10	59
EV-9			4	17	39
EV-10			12	32	190
EV-11			23	43	137
EV-12			11	63	120
EV-13			20	75	164
EV-14			17	49	152
EV-15			10	29	59
Y-1		8		48	85
Y-2		7		21	55
Y-3		13		45	110
Y-4		9		46	81
Y-5		7		51	71
Y-6		11		64	122
Y-7		10		100	152
Y-8		8		92	323
Y-9		5		97	105
Y-10		3		63	68
Y-11		11		53	110
Y-12		5		59	136
Y-13		2		73	40
Y-14		7		43	59
Y-15		8		18	61
Y-16		5		13	49

→ Y11 stream sediment sample, mostly organic

Sample	mg/kg				
	Ag	Co	Cu	Pb	Zn
ST-1	1.0		16	20	139
ST-2	0.3		36	42	156
ST-3	0.4		23	30	129
ST-4	0.1		31	31	154
ST-4 Dup.	<0.1		21	34	156

CANMET Reference Standards	Measured Wt. % (mg/kg)				
	Ag	Co	Cu	Pb	Zn
MP-1a	(71)		1.44	4.39	19.10
CZN-1	(94)		0.144	7.04	41.88
CPB-1	(578)		0.259	64.10	4.40
CCU-1c	(129)		25.23	0.35	4.00
SU-1		0.067	0.92		

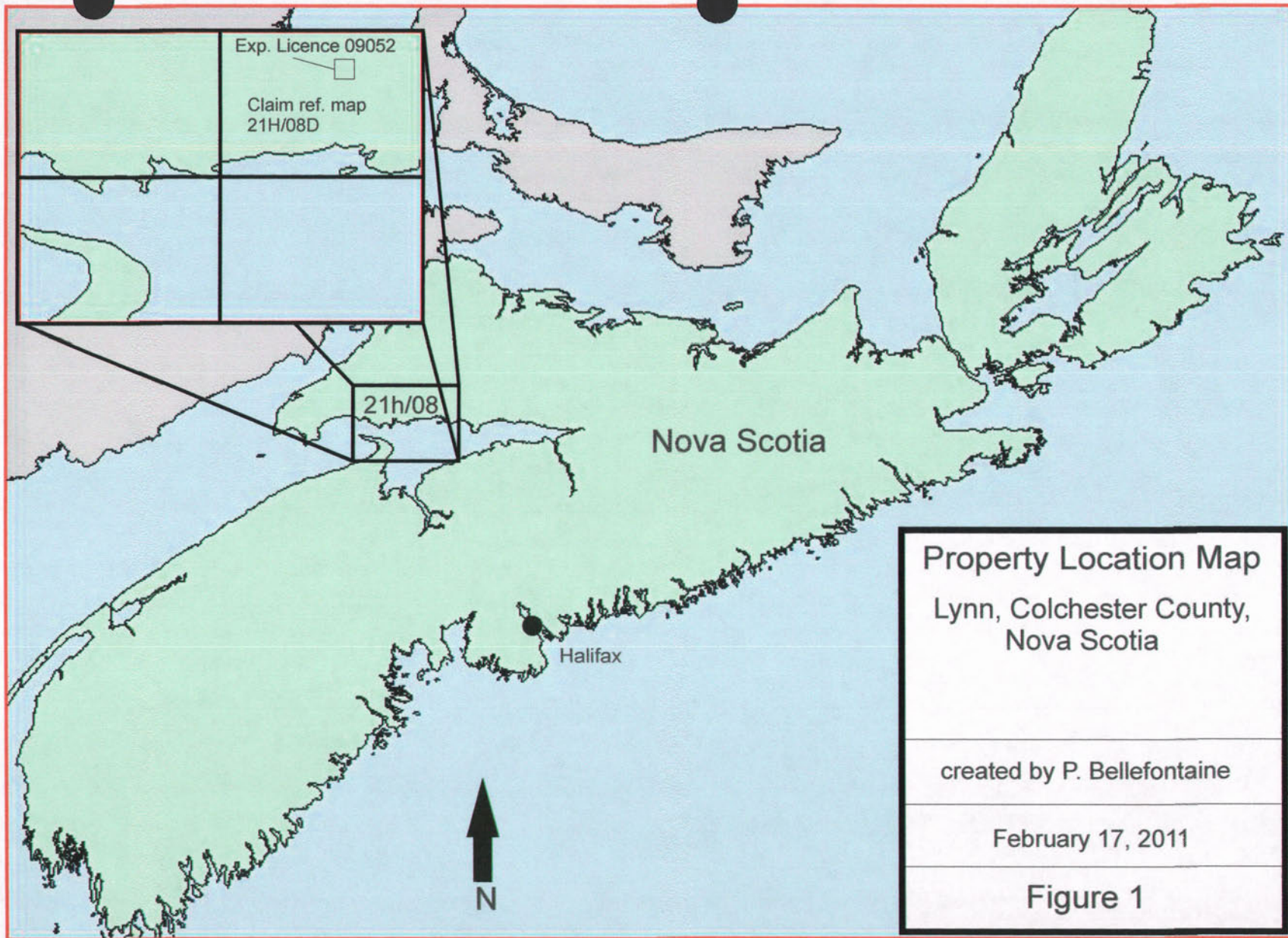


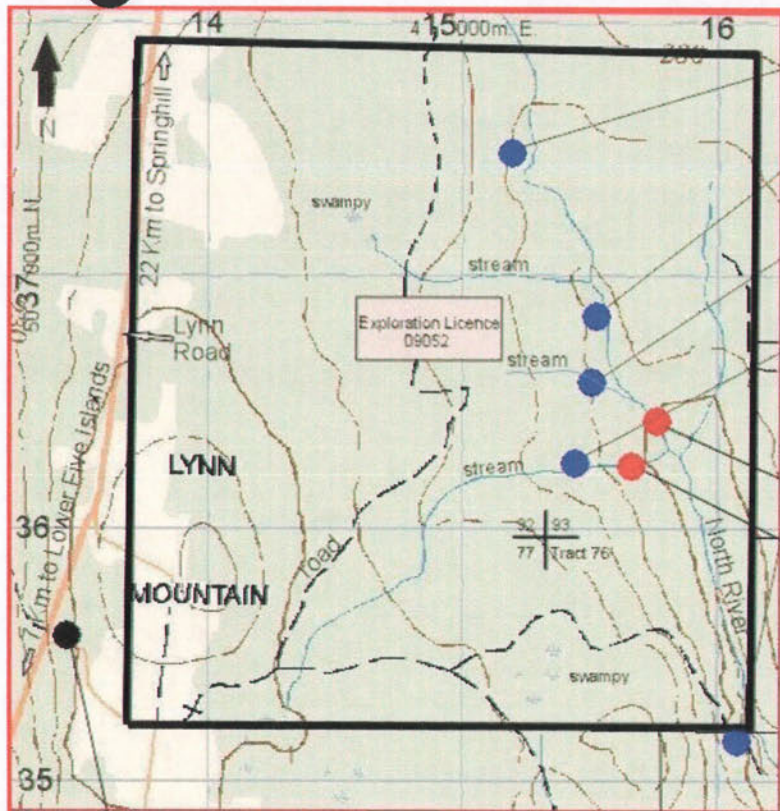
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UTM co-ordinates for sample sites
NAD 83

Y1 413788E 5037926N	LY0 415055E 5036998N
Y2 413751E 5037588N	LY1 415275E 5037007N
Y3 413715E 5037480N	LY2 415446E 5036997N
Y4 413745E 5037292N	LY3 415569E 5036829N
Y5 413737E 5037149N	LY4 415585E 5036635N
Y6 413706E 5036930N	LY5 415511E 5036716N
Y7 413654E 5036710N	LY6 415480E 5036991N
Y8 414999E 5037020N	
Y9 415232E 5037038N	
Y10 415236E 5036978N	
Y11 415080E 5037176N	
Y12 414707E 5037042N	
Y13 414462E 5037129N	
Y14 413906E 5036833N	
Y15 413973E 5037082N	
Y16 414004E 5037282N	





151 Cu, 112 Pb, 261 Zn, 40 Co

84 Pb, 240 Zn
1740 Pb, 2780 Zn, 650 Co, 180 As, 7% Mn
645 Pb, 885 Zn, 85 Co, 5% Mn 600 Pb, 880 Zn, 79 Co, 47% Mn
124 Pb, 270 Zn, 106 Co, 2.8% Mn
102 Pb, 330 Zn, 42 Co, .35% Mn
14 PPB Au
5 PPB Au, 696 PPM Ba

Lynn, Colchester County, Nova Scotia

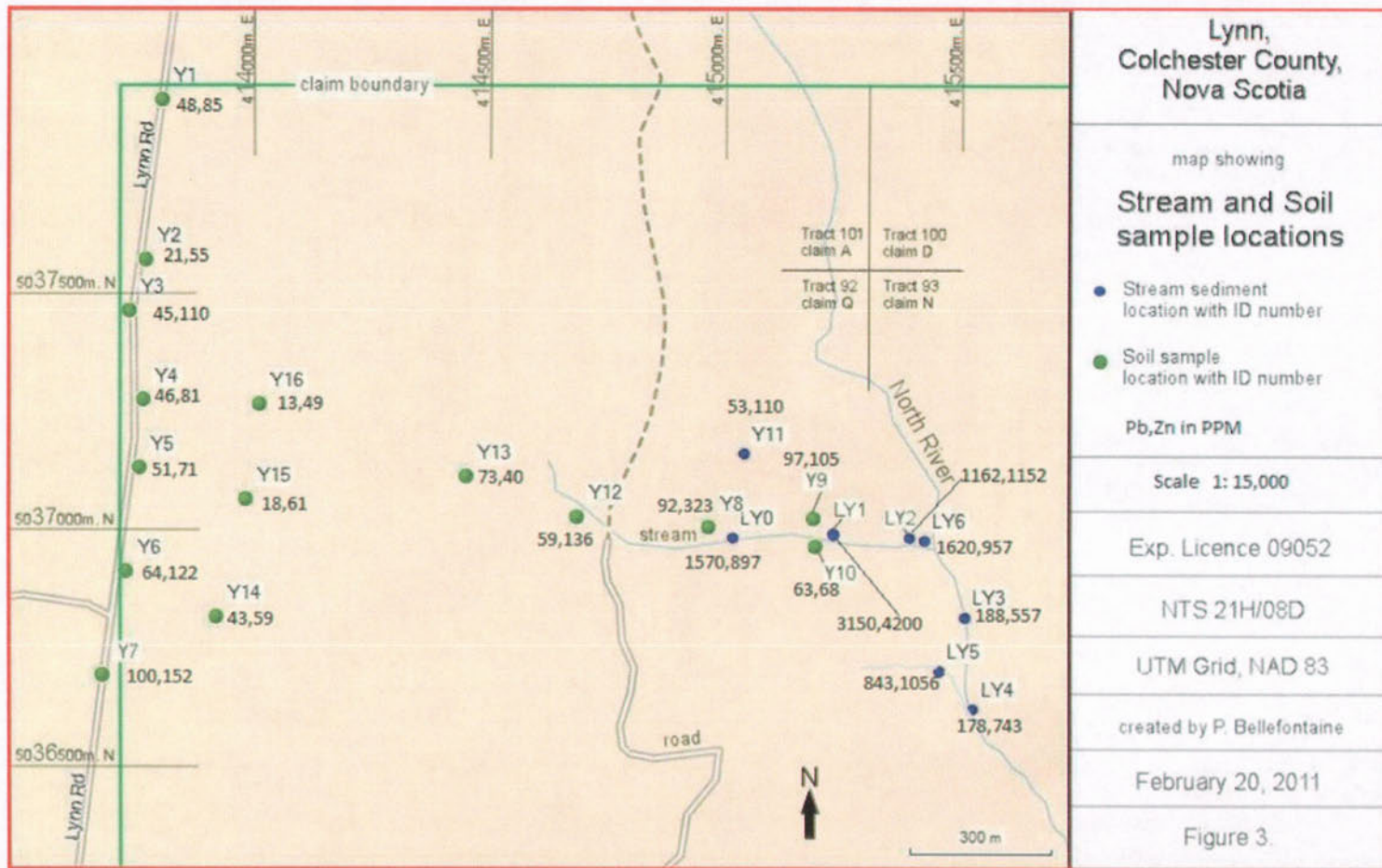
map showing previous
NSDNR Samples and results

- 1982-83 stream sediment survey.
- 1986-87 stream sediment survey.
- 1977-82 till sampling survey.

All results in PPM unless noted.

created by P. Bellefontaine

Exp. Licence 09052	NTS 21 H/08D
UTM Grid, NAD 83	Scale 1: 30,000
February 19, 2011	Figure 2



Form 10 - Statement of Assessment Work Expenditure
(pursuant to the Mineral Resources Act, S.N.S. 1990: c. 18, s. 43(b))

(Complete as necessary to substantiate the total claimed.)
Re: Licence No. 09052 Date of issue March 11, 2010

RL

Type of Work		Amount Spent
1. Prospecting		
2. Geological mapping	<u>1</u> days	<u>250</u>
3. Trenching/stripping/refilling	_____ days	
4. Assaying & whole rock analysis	_____ m ² / _____ m ³	
5. Other laboratory	_____ #	
6. Grid:	_____ #	
(a) Line cutting	_____ km	
(b) Picket setting	_____ km	
(c) Flagging	_____ km	
7. Geophysical surveys		
Airborne:		
(a) EM/VLF	_____ km	
(b) Mag or Grad	_____ km	
(c) Radiometric	_____ km	
(d) Combination	_____ km	
(e) Other	_____ km	
8. Geophysical surveys		
Ground:		
(a) EM/VLF	_____ km	
(b) Seismic soundings	_____ #	
(c) Magnetic/telluric	_____ km	
(d) IP/resistivity	_____ km	
(e) Gravity	_____ km	
(f) Other	_____ km	
9. Geochemical surveys		
(a) Lake, stream, spring		
(i) Water	<u>8</u> samples	<u>253</u>
(ii) Sediments	_____ samples	
(b) (i) Rock	_____ samples	
(ii) Core	_____ samples	
(iii) Chips	_____ samples	
(c) (i) Soil	<u>15</u> samples	<u>232.5</u>
(ii) Overburden	_____ samples	
(d) Gas	_____ samples	
(e) Biogeochemistry	_____ samples	
(f) Sample collection	_____ samples	
(g) Other <u>panning/analyzing reject</u>	<u>3</u> days	<u>750</u>
10. Drilling:	<u>2</u> days	<u>500</u>
(a) Diamond (# holes/m)	_____ / _____ m	
(b) Percussion (# holes/m)	_____ / _____ m	
(c) Rotary (# holes/m)	_____ / _____ m	
(d) Auger (# holes/m)	_____ / _____ m	
(e) Reverse circulation (# holes/m)	_____ / _____ m	
(f) Logging, supervision, etc.	_____ / _____ m	
(g) Sealing (# holes)	_____ days	
11. Other (describe)	<u>mileage 3346 km @ .40</u>	<u>1338.4</u>
Subtotal		<u>3323.9</u>
Overhead costs @ 10%	<u>332.39</u>	
12. Geotechnical services	<u>writing report 3 days</u>	<u>750</u>
13. Sampling services	<u>visits to DAL, NSDNR, landowners</u>	<u>3250</u>
14. Office expenses (rent, heat, light, etc.)	<u>+ more research 13 days total</u>	<u>3250</u>
15. Field supplies	<u>gps/laptop rental, bags, tags, sieve</u>	<u>145</u>
16. Compensation paid to landowners		
17. Legal fees		
18. Other (describe)	<u>parking, bridge tolls, copying maps/files</u>	<u>136</u>
Subtotal	<u>4613.39</u>	<u>4613.39</u>
Grand total		<u>7937.29</u>

