

GM 50698

REPORT ON THE 1991 WINTER DRILL PROGRAM, VALRENNES "BD" PROPERTY

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REPORT ON THE 1991 WINTER DRILL PROGRAM

ON THE

VALRENNES "BD" PROPERTY

91 JUN 18 14 31
MER-SYSTEMES
DE GESTION DES LOIS
QUEBEC

ÉNERGIE ET RESSOURCES
SECTEUR MINES

14 JUIN 1991

Bureau régional Val d'Or

Ministère de l'Énergie et des Ressources	
Division des données géoscientifiques	
DATE	24 SEP 1991
NO G.M.	050698

June 03, 1991

by Stefan B. Lopatka, M.Sc.A

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SUMMARY

Six holes totalling 4,213' (1,284 m) were drilled on two different stratigraphic horizons on the Valrennes BD property.

Hole 91-D-10 & 11 were drilled to test the extension of the Massive Sulphide Horizon 1200 m SE and 800 m NW, respectively, of the showing area. Hole 91-D-10 intersected a thin Iron Carbonate horizon with 15% pyrite. No significant gold values were returned.

Hole 91-D-11 intersected 5.54 m of massive pyrite in an ankeritic mudstone, which returned no significant values. This hole also intersected a quartz vein zone which returned 770 ppb Au which may be the extension of the 3.13 g Au/t grab sample. Further work on this horizon is not warranted unless additional evidence suggests mineralization (lithogeochemistry).

Holes 91-B-12 to 14 were drilled on a stratigraphically lower horizon. These series of holes intersected a rhyolitic to sedimentary sequence with significant chert deposition. The alteration style includes a strong zone of Fe-chlorite pyrite stringers as well as zoned silicification-chloritization and sericitization. The background Cu and Zn values are anomalous, at least 10 times background values seen at higher stratigraphic levels. The combination of elevated Base-Metal values along with the alteration patterns seen suggest these holes were drilled along a potentially productive horizon, proximal to a major hydrothermal vent system. Further work to identify alteration patterns and trends is recommended to trace out a volcanogenic Massive Sulphide deposit.

INTRODUCTION

The program on the Valrennes "BD" property consists of 6 holes on two stratigraphic levels to test for presence of Base Metal Massive Sulphide and Gold mineralization associated with previously identified sulphide mineralization (pyrite zone) and hydrothermal alteration (Chlorite-Pyrite stringer zone). The drill was guided by interpretation of geophysical surveys (I.P. and Magnetics) within the geological framework previously established. The results of the drill program are documented here within.

LOCATION, PHYSIOGRAPHY AND ACCESS

The Valrennes "BD" property is located in East Central Valrennes Township and West Central Joutel Township, Abitibi. North Western Quebec, centered approximately 10 km North West of the town of Joutel, Quebec. The surface is predominantly low lying muskeg swamps with stands of mature black spruce. An outcrop ridge cuts the North Eastern sector of the property trending in a North West direction.

This represents the major relief on the property. Maximum relief is approximately 25 m.

Access to the property is by the Harricana river 12 km down river and then 2- 4 km inland by walking trails. In winter, a 17 km diamond drill road departing from the Eagle Mine accesses the central part of the property.

CLAIMS

The claims on which drilling was carried out are listed below:

380987-1	91-B-12
380987-2	91-B-12 & 91-B-14
387125-2	91-B-13 & 91-B-15
387478-2	91-D-10
388286-4	91-D-11

GEOLOGY AND PREVIOUS WORK

The Valrennes "BD" property is underlain by parts of at least 3 cycles of felsic volcanism separated by various sedimentary, chert and sulphide horizons.

The lowermost felsic cycle consists of massive to lobate rhyolitic flows. These are overlain by an agglomeratic facies consisting of varying sizes of rhyolitic blocks in a generally rhyolitic matrix. Drilling by Agnico-Eagle Mines in 1981 (Holes 81-4 and 81-5) intersected this horizon. This is overlain by a sedimentary package 2- 3 m thick consisting of graphitic and pyritic horizons. This is overlain by a 3 to 40 metre quartz eye, tuffaceous to lapilli band in turn overlain by a thicker 30 to 50m sequence of cherts and oxide facies Iron formation. The second cycle which was drilled in holes 91-B-13 and 91-B-14 of the current program, consists of beds of massive variolitic rhyolitic flows interbedded with various fragmental to lapilli units. This felsic package is at least 120 m thick. This is overlain by a thin 4 m sequence of cherts and graphitic argillites. This in turn is overlain by a 50 to 60 m sequence ash flow and debris flow units grading upwards into ash and crystal tuffs. This sequence is overlain by a major (30 m) sedimentary package, consisting of banded cherts, pyritic cherts and graphitic horizons. This sedimentary sequence was cut by Holes 91-B-13, 14, 12 and 15 of the current program as well as Holes 81-1, 2 and 3 of Agnico-Eagle Mines's 1981 drill program. This same sequence was drill tested with a 3 drill hole program by Rio Algom in 1976.

The next volcanic cycle has limited exposure, seen only in drill hole 91-B-12 of the current program. It consists of a basal sequence of felsic ash and crystal tuffs.

The summit of this sequence is seen in drill holes 91-D-10 and 11 and consists of felsic, variably quartz and feldspar crystal, lapilli to block tuffs.

This is overlain by the massive Pyrite- Iron Carbonate horizon, representing sulphide and carbonate facies of banded Iron Formation- (Hole 91-D-10 and 11). This unit is 1 to 8 m thick and was discovered in outcrop during Agnico-Eagle's 1990 mapping program. This unit is overlain by a felsic ash-lapilli tuff greater than 90 metres thick.

Mafic intrusives (gabbro-diorite) are founded intruding the lower felsic units of the upper cycle as well as the lower most felsic cycle. These intrusives are thought to be of the same age and event as the mafic intrusions proximal to the base metal deposits of the Joutel volcanic Complex.

A stratigraphic column is presented in the following section.

STRATIGRAPHIC COLUMN

Cycle	Unit	Thickness
	d) Felsic Ash-Lapilli tuff	> 90 m
	c) Sulphide to Carbonate Iron Formation	1- 8 m
III	b) Felsic quartz-feldspar crystal tuff, lapilli tuffs and block tuffs	> 150 m
	a) Felsic Ash and crytal tuffs	> 50 m
	d) Banded cherts, pyritic cherts and graphitic horizons	30 m
	c) Ash flow- debris flow tuffs	50- 60 m
II	b) Cherts and graphitic argillites	3- 4 m
	a) Variolitic Rhyolite with interbedded felsic agglomeratic to lapilli tuff	> 120 m
	e) Cherts and oxyde facies Iron Formation	30- 50 m
	d) Quartz eye tuff- lapilli tuff	3- 40 m
I	c) Graphite Pyrite	2- 3 m
	b) Rhyolitic Agglomerate	>0- 12 m
	a) Massive to lobate Rhyolites	>20 m

DRILL HOLE SUMMARY

91-D-10: L 47+00W/10+25S (Jouval Grid)

Azi: 037°

Dip: -50°

length: 249.0 m

The hole intersected 150 m of felsic ash lapilli tuff grading up into block lapilli tuffs and crystal tuffs. This was followed by a thin (1 m) Carbonate Iron formation. This in turn is overlain by 60 m of Felsic-lapilli and block tuff.

Alteration is predominantly weak to moderate sericitic alteration, however the upper 94 metres is strongly chloritized.

Sulphides are generally trace to 2% pyrite except for up to 35% amorphous pyrite in the carbonate iron formation.

Quartz carbonate veining is ubiquitous however several zones of more intense quartz veining exist. One in the chloritized lapilli tuff, the other in the carbonate Iron Formation.

No significant gold anomalies were encountered.

91-D-11: 2+70E/22+30N (Valrennes D grid)
Azi: 209°
Dip: -50°
Length: 246.0 m

This hole intersected a 55 m section of felsic ash-crystal to crystal lapilli tuffs followed by 29 m of mafic intrusive or flow. This is overlain by 40 metres of felsic lapilli-block tuffs. A 5.54 m section of massive to semi-massive pyrite with minor magnetite and hematite, and ankeritic mudstone marks the top of this cycle. This zone is correlatable with the massive pyrite showing and is thought to represent the sulphide facies Iron Formation equivalent of the carbonate facies Iron Formation in hole 91-D-10. This is overlain by 81 m felsic ash-crystal and block lapilli tuff intruded by two mafic sills.

Alteration is predominantly chloritic stratigraphically above the massive pyrite horizon, and weakly sericitic below.

Sulphides are concentrated in the massive pyrite horizon (60-80% pyrite) with a slight concentration over 6 metres below this zone. A second zone of sulphide concentration (10% pyrite) is found in an intensely chloritized zone within the lower crystal-ash tuff sequence. Sulphides are in stringers with minor quartz veins. This zone returned 0.29% Zn over 1.1 m.

Anomalous gold values (40- 770 ppb Au) were returned from a quartz vein zone in the upper felsic tuffaceous pile. This may be correlatable with the 3.13 g Au/T returned from quartz veins from a surface grab.

The massive pyrite horizon did not return significant results for gold or base metals.

91-B-12: L 10+00E/0+80N (Valrennes "B" grid)
Azi: 223°
Dip: -50°
Length: 150.0 m

This hole intersected a 40 metre sequence of crystal ash tuffs, before intersecting 16 metres of intercalated sediments, including cherts, argillites and graphites with minor coarse clastics. This is followed by a sequence Quartz eye rhyolite and graphitic, cherty and pyritic sediments. This sequence is twice repeated over 27 metres.

The hole then cuts 27 metres of felsic lapilli tuff before terminating in a mafic feldspar porphyritic flow.

Alteration is limited to shear controlled sericitization, with only minor black chlorite-pyrite stringers in the upper tuff.

Sulphides are concentrated in the cherty and graphitic sediments with trace to 1% pyrite in the volcanics.

Concentrations of veining, predominantly quartz-carbonate, is limited to several small zones associated with shearing.

Several very weak gold anomalies (max. 110 ppb) (avg. 10-15ppb) are all related to pyritic sediments.

Copper values range from 10's to 463 ppm.

Zn values range from 5 to 492 ppm.

Weak base metal anomalous zones coincide with the cherty pyritic sediment horizons. Copper zinc ratios are generally less than 50 particularly where total base metal (Cu + Zn + Pb) are higher.

91-B-13: L 24+00E/3+75S

Azi: 043°

Dip: -50°

Length: 220 m

This hole intersected the Basal Cycle II massive to fragmental rhyolites for 100 m. This sequence is overlain by graphitic argillites and banded chert-argillites (5 m) followed by 60 m of strongly altered felsic tuffaceous rocks. This is overlain by 32m of sediments consisting of banded cherts and graphitic argillites interbedded. This is cut by a 5 m mafic Dyke.

The most prominent alteration is the strong calcitic alteration of the rhyolites and tuff in the center of the hole.

Stringer chlorite-pyrite zones occurs at several levels but are not extensive or intense.

No significant gold anomalies were encountered. Copper and zinc values vary in the 10's to 100's ppm range (max 689 ppm Cu and 254 ppm Zn).

Copper zinc ratios are significantly higher than in Hole 91-B-12.

91-B-14: L9+00E/2+00S
Azi: 043°
Dip: -50°
Length: 231 m

This hole drilled the same stratigraphic sequence as hole 91-B-13. It intersected a 5 metre pyritic chert and siltstone horizon, underlain by massive to fragmental rhyolite to rhyo-dacite flows and tuffs. The sedimentary sequence is overlain by dacitic tuffs and reworked tuffs.

The main alteration is the calcitic alteration as in 91-B-13. Here it is generally less intense. Chlorite-pyrite stringers as well as strong chloritization of felsic fragmental units occurs in this hole.

Sulphides are concentrated in the cherty sediment units as well as the chloritic sulphide stringer zone.

The stratigraphy cut in this hole is strongly sheared with several breccia and gouge zones.

Minor gold anomalies were returned from the chlorite-pyrite stringer zone, as well as the cherty pyritic horizons (115 to 270 ppb Au). These anomalies are related to more sheared and brecciated sections.

Copper values are lower than hole 91-B-13 generally below 100 ppm (max. 221 ppm). Zinc values are similar to other holes however several single highs occur (456 and 730 ppm Zn) related to chloritic-pyritic stringer zones. Copper zinc ratios are generally low (less than 50).

91-B-15: L25+00E/1+50S
Azi: 223°
Dip: -50°
Length: 188 m

This hole collared in a gabbroic intrusive (to 81 m). This was followed by a thin crystal tuff then a 26 metre thick chert-hematite-jasperoid iron formation. The remainder of the hole consisted of lapilli tuffs, siltstone debris flows, ash tuffs and a 18 m chert argillite pyrite horizon.

Alteration is weak in this hole overall. No chlorite-pyrite stringer zones were intersected. Minor bleaching and albitization was below the Iron Formation.

Weak gold anomalies (20- 40 ppb) are associated with the Iron Formation and pyritic cherts.

Copper zinc values are in the lower hundreds to upper 10's of ppm. Copper zinc ratios are slightly above the 50 mark but less than hole 91-B-13.

CONCLUSIONS

The drilling on the Valrennes "BD" property did not return ore grade intersections, however several features and analytical results are of interest. This will be discussed by geological area.

Massive pyrite horizon (D-series holes)

Drilling of the extension of the massive pyrite horizon discovered in the summer of 1990 intersected a similar zone to the west (800 metres). The zone did not carry significant gold or base metal values. The extension to the east indicates a facies change to Iron Carbonate, suggesting this horizon is a sulphide to carbonate facies Iron Formation. No anomalous gold or base values were returned.

Chlorite-pyrite stringer zone (B-series holes)

Drilling in the area of the chlorite-pyrite stringer zone indicated:

- 1) the highest concentration of chloritic-pyritic stringers occur in the area of the 81 series holes and hole 91-B-14.
- 2) background base metal values in this area are elevated (2- 5 times) with respect to other areas drilled.
- 3) Copper zinc ratio indicates a trend to higher values toward the east (holes 91-B-13 and 15).
- 4) A strong conformable calcitic alteration zone increases in intensity toward the east.

5) Significant faulting and shearing and repetition of stratigraphy suggest a complex structural setting to this zone.

6) Visual identification of alteration in the 81-series holes is not as clear in the new drilling, however, this alteration package is suggestive of a hydrothermal system as seen in base metal volcanogenic massive sulphides.

RECOMMENDATIONS

At this point, not enough lithogeochemical data exists to propose additional drill targets. Therefore, the primary recommendation is to sample, systematically, the felsic volcanic rocks surrounding both stratigraphic horizons with the intent of identifying alteration patterns and trends to direct further drilling. As well, limited mapping and prospecting of the lower most stratigraphic cycles should be undertaken, as this area was not covered in 1990 and outcrop is known to exist.

This program may supply much needed sample data between the two areas of drilling. This work will enable a better understanding of the alteration seen and possibly indicate where further drilling should be carried out.

MINES AGNICO-EAGLE LIMITEE
DIAMOND DRILL LOG

91-D-10

06-06-1991 :: 09:57

PROPERTY :	VALRENNES BD	PROJECT # :	16	CLAIM # :	387478-2
NTS MAP # :	32 E/09	TOWNSHIP :	VALRENNES	ELEVATION :	Surface
LINE/STATION:	47+00W / 10+25S	EASTINGS/NORTHINGS:		AZIMUTH :	37.0 degrees
LENGTH :	249.00 m	INCLINATION :	-50.0 degrees		
OVERBURDEN :	22.00 m	CASING :	NW/BW CASING LEFT IN HOLE		
LOGGED BY :	ZORAN MADON	DRILLED BY :	FORAGES MODERNE (1985) INC.	ASSAYING BY :	CHEMEX
DATE LOGGED :	1991/03/09 to 1991/03/09	DATE DRILLED :	1991/03/04 to 1991/03/09	CORE LOCATION:	TELBEL CORE RACK

ACID AND TROPARI TESTS

Depth	Dip	Azimuth
22.00	-49.0	*****
78.00	-48.0	*****
118.50	-45.0	33.0
247.60	-41.0	31.5

Stefan B. Lopatka

ABSTRACT

This hole was drilled to test the Eastern extension of the Massive Pyrite horizon, found by mapping. The stripped area is located 1200 m. west of this hole. The hole intersected a sequence of chloritic sericitic ash, lapilli and block tuffs, before cutting 1.36 m of Ankeritic mudstone / IRON CARBONATE, bearing 15% amorphous Pyrite. This was overlain by felsic lapilli and block tuffs. No anomalous Gold values were intersected.

MINES AGNICO-EAGLE LIMITEE
SUMMARY LOG91-D-10
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06-06-1991 :: 09:57

From(m)	To(m)	Field Name (Legend)
0.00	22.00	CASING (OVB)
22.00	116.20	CHLORITIC LAPILLI TUFF (V11a)
110.10	110.70	FAULT ZONE (~Fb)
116.20	126.85	PELSIC ASH LAPILLI TUFF (V11a{V9a1})
118.60	119.50	FAULT -QUARTZ CALCITE SERICITE VEIN ZONE (~Fb vQCC)
126.85	174.30	PELSIC LAPILLI, BLOCK TUFF (V11/V12 {V9af})
136.90	146.50	FAULT ZONE- BLOCKY CORE, GOUGE (~Fb)
149.80	152.70	FAULT GOUGE ZONE (~Fb)
171.80	172.20	FAULT ZONE -GROUND CORE (~Fc)
174.30	180.64	PELSIC CRYSTAL LAPILLI TUFF (V11aq)
179.00	179.80	QUARTZ VEIN ZONE (vQ)
180.64	182.00	CARBONATE IRON FORMATION-QUARTZ DOLOMITE VEINS , LOCAL CONCENTRATIONS OF AMORPHOUS PYRITE (F4PY vQD)
182.00	216.60	PELSIC LAPILLI, BLOCK TUFF (chloritic), MINOR SILTSTONE FRAGMENTS (V11/V12a{V9a(S2)})
184.70	185.20	FAULT ZONE (Gouge) (~Fb)
207.10	207.50	FAULT ZONE (Gouge) (~Fb)
216.60	237.30	PELSIC LAPILLI, BLOCK TUFF (sericitic) (V11/V12a{V9a1})
218.80	219.10	FAULT GOUGE (~Fb)
237.30	249.00	PELSIC LAPILLI-BLOCK TUFF (chloritic) (V11/V12{V9a1})
249.00		END OF HOLE.

MINES AGNICO-EAGLE LIMITEE
DIAMOND DRILL LOG

91-D-10

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From(m)	To(m)	Description	Sam.	From (m)	To (m)	Leng (m)	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot Sulf
0.00	22.00	CASING (OVB)															
22.00	116.20	CHLORITIC LAPILLI TUFF (V11a)															
			14765	24.00	25.50	1.50	<5	--	--	--	--	--	--	--	--	--	--
			14766	30.00	31.50	1.50	<5	--	--	--	--	--	--	--	--	--	--
			14767	36.00	37.50	1.50	<5	--	--	--	--	--	--	--	--	--	--
			14768	40.50	42.00	1.50	<5	--	--	--	--	--	--	--	--	--	--
			14780	45.80	46.50	0.70	<5	<0.5	14	19	1.80	0.06	52	2	26	42	47
			14781	46.90	48.25	1.35	<5	<0.5	10	8	1.41	0.02	34	<2	18	31	26
			14782	52.50	54.00	1.50	<5	<0.5	28	46	3.95	0.07	115	2	56	45	104
			14783	58.50	60.00	1.50	<5	<0.5	26	44	3.41	0.06	104	2	50	47	96
			14784	64.50	66.00	1.50	<5	<0.5	25	42	3.25	0.05	100	<2	48	47	90
			14785	70.50	72.00	1.50	<5	<0.5	26	47	3.47	0.06	104	6	50	48	103
			14786	76.50	78.00	1.50	<5	<0.5	26	40	3.85	0.06	106	<2	54	43	94
			14787	78.60	79.20	0.60	<5	<0.5	23	37	3.38	0.06	88	<2	46	45	83
			14788	79.55	80.30	0.75	<5	<0.5	15	15	2.24	0.04	53	2	26	37	43
			14789	81.00	82.50	1.50	<5	<0.5	28	42	4.41	0.07	114	2	62	40	106
			14790	88.50	90.00	1.50	<5	<0.5	28	42	4.19	0.06	111	6	58	42	106
			14791	91.70	92.70	1.00	<5	<0.5	26	35	3.81	0.06	98	2	54	39	91
			14792	94.50	96.00	1.50	<5	<0.5	27	43	4.30	0.06	113	6	60	42	109
			14793	99.00	100.50	1.50	<5	<0.5	27	36	4.24	0.05	110	6	60	38	102
			14794	100.50	102.00	1.50	<5	<0.5	28	42	4.43	0.05	117	<2	62	40	104
			14795	105.00	106.50	1.50	<5	<0.5	26	45	4.12	0.05	109	<2	62	42	107
110.10	110.70	FAULT ZONE (~Pb)															
			14796	111.00	112.50	1.50	<5	<0.5	25	39	3.84	0.05	116	2	58	40	99
			14797	112.50	114.00	1.50	<5	<0.5	22	40	3.97	0.05	115	12	56	42	108
			14798	114.00	115.50	1.50	<5	<0.5	24	39	4.17	0.06	104	<2	58	40	97
			14799	115.50	116.20	0.70	<5	<0.5	24	40	4.03	0.07	94	2	60	40	102
116.20	126.85	FELSIC ASH LAPILLI TUFF (V11a(V9a))															
			14800	116.20	117.30	1.10	<5	<0.5	20	36	3.00	0.08	72	6	42	46	84
			14801	117.30	118.60	1.30	<5	<0.5	18	45	3.01	0.05	53	2	50	47	97
118.60	119.50	FAULT -QUARTZ CALCITE SERICITE VEIN ZONE (~Pb vQCC)															
			14802	118.60	119.50	0.90	<5	<0.5	13	35	2.20	0.06	30	2	40	47	77

MINES AGNICO-EAGLE LIMITEE
DIAMOND DRILL LOG

91-D-10

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06-06-1991 :: 09:57

From(m)	To(m)	Description	Sam.	From (m)	To (m)	Leng (m)	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot Sulf
			14803	119.50	121.00	1.50	<5	<0.5	10	21	2.90	0.04	5	4	54	28	79
			14804	123.00	124.50	1.50	<5	<0.5	9	99	1.95	0.05	8	<2	72	58	171
			14805	126.30	126.85	0.55	<5	<0.5	9	14	2.25	0.13	10	2	28	33	44
126.85	174.30	FELSIC LAPILLI, BLOCK TUFF (V11/V12 (V9af))															
			14806	126.85	127.50	0.65	<5	<0.5	4	7	4.08	0.21	5	<2	46	13	53
			14807	127.50	129.00	1.50	<5	<0.5	2	5	4.97	0.20	5	<2	54	8	59
			14808	129.00	130.50	1.50	<5	<0.5	6	12	5.08	0.16	7	<2	46	21	58
			14809	130.50	132.00	1.50	<5	<0.5	7	10	3.91	0.19	6	2	32	24	44
			14810	132.00	133.50	1.50	<5	<0.5	10	13	4.58	0.16	9	<2	44	23	57
			14811	133.50	135.00	1.50	<5	<0.5	5	8	4.36	0.24	6	<2	38	17	46
			14812	135.00	136.50	1.50	<5	<0.5	4	7	3.99	0.21	7	<2	34	17	41
			14813	136.50	138.00	1.50	<5	<0.5	4	6	4.65	0.22	7	<2	34	15	40
136.90	146.50	FAULT ZONE- BLOCKY CORE, GOUGE (~Pb)															
			14814	138.00	139.50	1.50	<5	<0.5	4	10	6.01	0.31	8	<2	44	19	54
			14815	139.50	141.00	1.50	<5	<0.5	5	10	4.26	0.25	6	<2	30	25	40
			14816	141.00	142.50	1.50	<5	<0.5	3	3	5.83	0.26	5	<2	38	7	41
			14817	142.50	144.00	1.50	<5	<0.5	4	6	8.57	0.44	5	<2	44	12	50
			14818	144.00	145.50	1.50	<5	<0.5	4	5	6.87	0.36	5	<2	38	12	43
			14819	145.50	147.00	1.50	<5	<0.5	3	8	6.60	0.32	4	<2	42	16	50
			14820	147.00	148.50	1.50	<5	<0.5	2	4	6.53	0.29	3	<2	42	9	46
			14821	148.50	150.00	1.50	<5	<0.5	2	8	5.89	0.32	3	<2	40	17	48
149.80	152.70	FAULT GOUGE ZONE (~Pb)															
			14822	150.00	151.50	1.50	<5	<0.5	4	11	6.40	0.34	7	<2	44	20	55
			14823	151.50	153.00	1.50	<5	<0.5	3	6	7.47	0.33	4	<2	56	10	62
			14824	153.00	154.50	1.50	<5	<0.5	3	7	6.49	0.33	4	<2	52	12	59
			14825	154.50	156.00	1.50	<5	<0.5	4	6	6.36	0.31	4	<2	48	11	54
			14826	156.00	157.50	1.50	<5	<0.5	2	5	5.61	0.27	3	<2	38	12	43
			14827	157.50	159.00	1.50	<5	<0.5	2	8	6.46	0.37	3	<2	46	15	54
			14828	159.00	160.50	1.50	<5	<0.5	2	6	7.36	0.33	3	<2	42	13	48
			14829	160.50	162.00	1.50	<5	<0.5	10	8	8.49	0.56	21	<2	48	14	56
			14830	162.00	163.50	1.50	<5	<0.5	10	10	7.72	0.52	22	<2	50	17	60
			14831	163.50	165.00	1.50	<5	<0.5	9	7	7.13	0.59	21	<2	46	13	53
			14832	165.00	166.50	1.50	<5	<0.5	12	12	8.98	0.52	18	<2	52	19	64
			14833	166.50	168.00	1.50	<5	<0.5	10	10	8.03	0.48	21	<2	48	17	58

MINES AGNICO-EAGLE LIMITEE
ASSAY LOG

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Sam.	From (m)	To (m)	Len (m)	-----Comment-----	Au	Ag	Co	Cu	Fe	Mn	Ni	Pb	Zn	Cu	Tot
					ppb	ppm	ppm	ppm	%	%	ppm	ppm	ppm	Zn	Sulp
14765	24.00	25.50	1.50		<5	--	--	--	--	--	--	--	--	--	--
14766	30.00	31.50	1.50		<5	--	--	--	--	--	--	--	--	--	--
14767	36.00	37.50	1.50		<5	--	--	--	--	--	--	--	--	--	--
14768	40.50	42.00	1.50		<5	--	--	--	--	--	--	--	--	--	--
14780	45.80	46.50	0.70		<5	<0.5	14	19	1.80	0.06	52	2	26	42	47
14781	46.90	48.25	1.35		<5	<0.5	10	8	1.41	0.02	34	<2	18	31	26
14782	52.50	54.00	1.50		<5	<0.5	28	46	3.95	0.07	115	2	56	45	104
14783	58.50	60.00	1.50		<5	<0.5	26	44	3.41	0.06	104	2	50	47	96
14784	64.50	66.00	1.50		<5	<0.5	25	42	3.25	0.05	100	<2	48	47	90
14785	70.50	72.00	1.50		<5	<0.5	26	47	3.47	0.06	104	6	50	48	103
14786	76.50	78.00	1.50		<5	<0.5	26	40	3.85	0.06	106	<2	54	43	94
14787	78.60	79.20	0.60		<5	<0.5	23	37	3.38	0.06	88	<2	46	45	83
14788	79.55	80.30	0.75		<5	<0.5	15	15	2.24	0.04	53	2	26	37	43
14789	81.00	82.50	1.50		<5	<0.5	28	42	4.41	0.07	114	2	62	40	106
14790	88.50	90.00	1.50		<5	<0.5	28	42	4.19	0.06	111	6	58	42	106
14791	91.70	92.70	1.00		<5	<0.5	26	35	3.81	0.06	98	2	54	39	91
14792	94.50	96.00	1.50		<5	<0.5	27	43	4.30	0.06	113	6	60	42	109
14793	99.00	100.50	1.50		<5	<0.5	27	36	4.24	0.05	110	6	60	38	102
14794	100.50	102.00	1.50		<5	<0.5	28	42	4.43	0.05	117	<2	62	40	104
14795	105.00	106.50	1.50		<5	<0.5	26	45	4.12	0.05	109	<2	62	42	107
14796	111.00	112.50	1.50		<5	<0.5	25	39	3.84	0.05	116	2	58	40	99
14797	112.50	114.00	1.50		<5	<0.5	22	40	3.97	0.05	115	12	56	42	108
14798	114.00	115.50	1.50		<5	<0.5	24	39	4.17	0.06	104	<2	58	40	97
14799	115.50	116.20	0.70		<5	<0.5	24	40	4.03	0.07	94	2	60	40	102
14800	116.20	117.30	1.10		<5	<0.5	20	36	3.00	0.08	72	6	42	46	84
14801	117.30	118.60	1.30		<5	<0.5	18	45	3.01	0.05	53	2	50	47	97
14802	118.60	119.50	0.90		<5	<0.5	13	35	2.20	0.06	30	2	40	47	77
14803	119.50	121.00	1.50		<5	<0.5	10	21	2.90	0.04	5	4	54	28	79
14804	123.00	124.50	1.50		<5	<0.5	9	99	1.95	0.05	8	<2	72	58	171
14805	126.30	126.85	0.55		<5	<0.5	9	14	2.25	0.13	10	2	28	33	44
14806	126.85	127.50	0.65		<5	<0.5	4	7	4.08	0.21	5	<2	46	13	53
14807	127.50	129.00	1.50		<5	<0.5	2	5	4.97	0.20	5	<2	54	8	59
14808	129.00	130.50	1.50		<5	<0.5	6	12	5.08	0.16	7	<2	46	21	58
14809	130.50	132.00	1.50		<5	<0.5	7	10	3.91	0.19	6	2	32	24	44
14810	132.00	133.50	1.50		<5	<0.5	10	13	4.58	0.16	9	<2	44	23	57
14811	133.50	135.00	1.50		<5	<0.5	5	8	4.36	0.24	6	<2	38	17	46
14812	135.00	136.50	1.50		<5	<0.5	4	7	3.99	0.21	7	<2	34	17	41

MINES AGNICO-EAGLE LIMITEE
ASSAY LOG

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Sam.	From (m)	To (m)	Length (m)	-----Comment-----	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot Sulp
14813	136.50	138.00	1.50		<5	<0.5	4	6	4.65	0.22	7	<2	34	15	40
14814	138.00	139.50	1.50		<5	<0.5	4	10	6.01	0.31	8	<2	44	19	54
14815	139.50	141.00	1.50		<5	<0.5	5	10	4.26	0.25	6	<2	30	25	40
14816	141.00	142.50	1.50		<5	<0.5	3	3	5.83	0.26	5	<2	38	7	41
14817	142.50	144.00	1.50		<5	<0.5	4	6	8.57	0.44	5	<2	44	12	50
14818	144.00	145.50	1.50		<5	<0.5	4	5	6.87	0.36	5	<2	38	12	43
14819	145.50	147.00	1.50		<5	<0.5	3	8	6.60	0.32	4	<2	42	16	50
14820	147.00	148.50	1.50		<5	<0.5	2	4	6.53	0.29	3	<2	42	9	46
14821	148.50	150.00	1.50		<5	<0.5	2	8	5.89	0.32	3	<2	40	17	48
14822	150.00	151.50	1.50		<5	<0.5	4	11	6.40	0.34	7	<2	44	20	55
14823	151.50	153.00	1.50		<5	<0.5	3	6	7.47	0.33	4	<2	56	10	62
14824	153.00	154.50	1.50		<5	<0.5	3	7	6.49	0.33	4	<2	52	12	59
14825	154.50	156.00	1.50		<5	<0.5	4	6	6.36	0.31	4	<2	48	11	54
14826	156.00	157.50	1.50		<5	<0.5	2	5	5.61	0.27	3	<2	38	12	43
14827	157.50	159.00	1.50		<5	<0.5	2	8	6.46	0.37	3	<2	46	15	54
14828	159.00	160.50	1.50		<5	<0.5	2	6	7.36	0.33	3	<2	42	13	48
14829	160.50	162.00	1.50		<5	<0.5	10	8	8.49	0.56	21	<2	48	14	56
14830	162.00	163.50	1.50		<5	<0.5	10	10	7.72	0.52	22	<2	50	17	60
14831	163.50	165.00	1.50		<5	<0.5	9	7	7.13	0.59	21	<2	46	13	53
14832	165.00	166.50	1.50		<5	<0.5	12	12	8.98	0.52	18	<2	52	19	64
14833	166.50	168.00	1.50		<5	<0.5	10	10	8.03	0.48	21	<2	48	17	58
14834	168.00	169.50	1.50		<5	<0.5	13	14	9.79	0.49	18	<2	60	19	74
14835	169.50	171.00	1.50		<5	<0.5	13	14	8.57	0.46	22	<2	60	19	74
14836	171.00	172.50	1.50		<5	<0.5	11	22	6.21	0.47	17	<2	42	34	64
14837	172.50	174.00	1.50		<5	<0.5	14	13	7.25	0.32	26	2	56	19	71
14838	174.00	175.00	1.00		<5	<0.5	16	12	8.05	0.37	28	<2	50	19	62
14839	175.00	176.50	1.50		<5	<0.5	14	7	7.59	0.41	26	<2	36	16	43
14840	176.50	178.00	1.50		<5	<0.5	9	8	7.25	0.35	24	<2	36	18	44
14841	178.00	179.00	1.00		<5	<0.5	11	7	9.16	0.43	22	<2	44	14	51
14842	179.00	179.80	0.80		<5	<0.5	16	10	11.82	0.49	33	2	60	14	72
14843	179.80	180.64	0.84		<5	<0.5	11	8	15.00	0.71	23	4	68	11	80
14844	180.64	181.00	0.36		<5	<0.5	37	56	15.00	0.93	56	10	110	34	176
14845	181.00	182.00	1.00		<5	<0.5	13	7	11.84	0.77	26	<2	70	9	77
14846	182.00	183.50	1.50		<5	<0.5	6	3	5.84	0.27	4	2	56	5	61
14847	186.00	187.50	1.50		<5	<0.5	11	18	2.68	0.07	12	6	48	27	72
14848	192.00	193.50	1.50		<5	<0.5	12	33	2.89	0.07	18	2	54	38	89
14849	196.50	198.00	1.50		<5	<0.5	8	16	2.22	0.06	11	6	46	26	68

MINES AGNICO-EAGLE LIMITEE

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ASSAY LOG

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Sam.	From (m)	To (m)	Length (m)	-----Comment-----	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot Sulp
14850	202.50	204.00	1.50		<5	<0.5	9	22	1.91	0.04	12	2	44	33	68
14851	208.50	210.00	1.50		<5	<0.5	8	13	3.13	0.08	9	<2	54	19	67
14852	214.50	216.00	1.50		<5	<0.5	10	20	3.16	0.06	10	<2	62	24	82
14873	219.00	220.50	1.50		<5	<0.5	8	30	2.64	0.06	8	<2	46	39	76
14874	222.00	223.50	1.50		<5	<0.5	9	17	3.05	0.06	8	2	60	22	79
14875	223.50	225.00	1.50		<5	<0.5	10	23	2.78	0.05	10	<2	58	28	81
14876	225.00	226.50	1.50		<5	<0.5	14	29	2.77	0.04	11	<2	58	33	87
14877	226.50	228.00	1.50		<5	<0.5	12	26	3.03	0.05	10	<2	58	31	84
14878	228.00	229.50	1.50		<5	<0.5	9	18	2.90	0.06	7	<2	54	25	72
14879	229.50	231.00	1.50		<5	<0.5	9	19	2.73	0.05	10	<2	52	27	71
14880	235.50	237.00	1.50		<5	<0.5	6	18	1.75	0.04	6	2	28	39	48
14881	243.00	244.50	1.50		<5	<0.5	11	23	4.66	0.15	10	<2	58	28	81
14882	247.50	249.00	1.50		<5	<0.5	10	19	4.39	0.14	11	<2	52	27	71

MINES AGNICO-EAGLE LIMITEE
DIAMOND DRILL LOG

91-D-11

06-06-1991 :: 10:08

PROPERTY :	VALRENNES D	PROJECT # :	P16	CLAIM # :	388286-4
NTS MAP # :	32 E/09	TOWNSHIP :	VALRENNES	ELEVATION :	Surface
LINE/STATION:	2+70E / 22+30N	EASTINGS/NORTHINGS:		AZIMUTH :	209.0 degrees
LENGTH :	246.00 m	INCLINATION :	-50.0 degrees	ASSAYING BY :	CHEMEX & MINE AGNICO-EAGLE LABORATORY
OVERBURDEN :	7.80 m	CASING :	NW CASING LEFT IN HOLE	CORE LOCATION:	TELBEL CORE RACK
LOGGED BY :	ZORAN MADON	DRILLED BY :	FORAGES MODERNE (1985) INC.		
DATE LOGGED :	1991/03/08 to 1991/03/11	DATE DRILLED :	1991/03/07 to 1991/03/11		

ACID AND TROPARI TESTS

Depth	Dip	Azimuth
7.00	-51.0	*****
60.00	-48.0	*****
121.60	-44.0	216.0
180.00	-45.0	*****
244.50	-39.0	217.0

Stefan B. Lopatka

ABSTRACT

This hole was drilled to test the intersection between the MASSIVE PYRITE horizon and a quartz vein bearing shear which returned 3.13 g/T in a surface grab sample. The hole is collared 800 m. west of the Massive pyrite stripped area and 100m west of the auriferous quartz vein outcrop. The hole intersected a 5.54 m. zone of semi-massive amorphous, nodular pyrite rimmed by sugary pyrite in an Ankeritic mudstone. The pyritic zone is moderately chloritic and contains traces of magnetite and hematite, similar to the stripped area. It is overlain (to the north) by ash, crystal, lapilli and block tuffs, intruded by a mafic feldspar porphyry. A quartz vein zone was intersected between 39 to 60 m. it returned anomalous values (10-770 ppb Au). The best intersection in the hole comes from this zone (770 ppb Au/1.0 m.(45.00-46.00m)).

MINES AGNICO-EAGLE LIMITEE
SUMMARY LOG91-D-11
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From(m)	To(m)	Field Name (Legend)
0.00	7.80	CASING (QVB)
7.80	17.00	FELSIC CRYSTAL (FELDSPAR,quartz)CHLORITIC SHARD LAPILLI TUFF. (V11afc(q))
15.50	16.00	QUARTZ VEIN ZONE (80%) (vQ(80%))
17.00	35.95	MASSIVE FELDSPAR PORPHYRY (INTRUSIVE) (3Gf)
35.95	52.12	FELSIC ASH CHLORITIC SHARD LAPILLI TUFF (V11ac(q))
39.10	52.10	QUARTZ VEIN ZONES (2-90%) (vQ)
52.12	61.80	MAFIC FELDSPAR PORPHYRITIC INTRUSIVE (3Gf)
52.35	53.20	QUARTZ VEIN ZONE (70%) (vQ(70%))
57.40	60.70	QUARTZ CARBONATE VEIN ZONE (vQD(15%))
61.80	89.67	FELSIC ASH LAPILLI TUFF (cut by 3 thin mafic dykes) (V11aq/(3Gf))
89.67	98.12	FELSIC LAPILLI-BLOCK TUFF (V11/V12a)
98.12	103.66	SEMI MASSIVE PYRITE ZONE(minor ankeritic mudstone fragments) (PY1(S2a)}25-75%PY)
103.66	144.18	FELSIC LAPILLI-BLOCK TUFF (V11/V12a)
144.18	172.95	MAFIC VOLCANIC(minor leucoxene (5-10%)) (V6)
144.20	146.40	QUARTZ VEIN ZONE (20%) (vQ20%)
160.30	169.50	QUARTZ VEIN ZONE 10-20% (vQ10-20%)
172.95	183.20	FELSIC CRYSTAL-LAPILLI TUFF (V11aq)
183.20	227.90	FELSIC CRYSTAL ASH TUFF (V9aq)
191.70	192.00	FAULT GOUGE (~Pb)
220.80	221.60	10-15%PYRITE, TR SPH.(INTENSE CHLORITIC ALTERATION (PY10-15% (SPY))
227.90	246.00	FELSIC ASH CRYSTAL TUFF (V9aq(f))
244.30	245.50	QUARTZ VEIN ZONE (20%) (vQ20%)
246.00		END OF HOLE.

MINES AGNICO-EAGLE LIMITEE
DIAMOND DRILL LOG

91-D-11

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From(m)	To(m)	Description	Sam.	From (m)	To (m)	Length (m)	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot. Sulf
0.00	7.80	CASING (OV8)															
7.80	17.00	PELSIC CRYSTAL (FELDSPAR,quartz)CHLORITIC SHARD LAPILLI TUFF. (V1lafc(q))	14853	9.00	10.50	1.50	<5	<0.5	10	68	2.59	0.06	20	4	42	62	114
			14854	15.00	16.50	1.50	<5	<0.5	8	19	2.54	0.05	12	2	40	32	61
15.50	16.00	QUARTZ VEIN ZONE (80%) (vQ(80%))															
17.00	35.95	MASSIVE FELDSPAR PORPHYRY (INTRUSIVE) (3Gf)	14855	21.00	22.50	1.50	<5	<0.5	10	19	2.95	0.06	8	4	58	25	81
			14856	27.00	28.50	1.50	<5	<0.5	10	20	2.84	0.05	9	2	58	26	80
			14857	33.00	34.50	1.50	<5	<0.5	11	16	3.14	0.04	9	4	66	20	86
35.95	52.12	PELSIC ASH CHLORITIC SHARD LAPILLI TUFF (V1lac(q))	14858	39.00	40.50	1.50	<5	<0.5	9	9	2.80	0.04	9	4	56	14	69
39.10	52.10	QUARTZ VEIN ZONES (2-90%) (vQ)	14859	41.50	42.50	1.00	<5	<0.5	7	18	2.48	0.05	6	6	38	32	62
			14860	42.50	43.60	1.10	40	<0.5	10	41	2.59	0.04	9	4	40	51	85
			14861	45.00	46.00	1.00	770	<0.5	20	23	3.99	0.04	23	4	56	29	83
			14862	49.10	49.50	0.40	115	<0.5	10	15	3.65	0.05	8	<2	38	28	53
			14863	49.50	51.00	1.50	<5	<0.5	9	11	3.20	0.04	12	<2	38	22	49
			14864	51.60	52.10	0.50	<5	<0.5	7	13	2.83	0.06	9	<2	20	39	33
52.12	61.80	MAFIC FELDSPAR PORPHYRITIC INTRUSIVE (3Gf)	14865	52.30	53.20	0.90	<5	<0.5	24	30	6.14	0.11	55	<2	56	35	86
52.35	53.20	QUARTZ VEIN ZONE (70%) (vQ(70%))	14866	55.50	57.00	1.50	<5	<0.5	31	97	6.70	0.09	84	<2	88	52	185
57.40	60.70	QUARTZ CARBONATE VEIN ZONE (vQD(15%))	14867	58.80	60.30	1.50	<5	<0.5	24	106	5.87	0.11	59	2	68	61	176
61.80	89.67	PELSIC ASH LAPILLI TUFF (cut by 3 thin mafic dykes) (V1laq/(3Gf))	14868	61.80	62.90	1.10	<5	<0.5	12	33	3.57	0.07	15	<2	42	44	75
			14869	67.50	69.00	1.50	<5	<0.5	6	32	2.49	0.05	6	<2	26	55	58

MINES AGNICO-EAGLE LIMITEE
DIAMOND DRILL LOG91-D-11
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From(m)	To(m)	Description	Sam.	From (m)	To (m)	Leng (m)	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot Suf.
			14870	73.50	75.00	1.50	<5	<0.5	9	13	2.99	0.04	8	<2	50	21	63
			14871	79.50	81.00	1.50	<5	<0.5	11	41	2.58	0.05	23	<2	68	38	109
			14872	84.00	85.50	1.50	<5	<0.5	7	28	2.78	0.06	7	2	54	34	84
89.67	98.12	PELSTIC LAPILLI-BLOCK TUFF (V11/V12a)															
			14883	90.00	91.50	1.50	<5	<0.5	9	15	2.37	0.05	11	<2	58	21	73
			14884	94.50	96.00	1.50	<5	<0.5	8	17	2.19	0.05	8	<2	46	27	63
			14885	97.00	98.12	1.12	<5	<0.5	8	9	5.74	0.22	6	4	66	12	79
98.12	103.66	SEMI MASSIVE PYRITE ZONE(minor ankeritic mudstone fragments) (PY1(S2a)125-75%PY)															
			14886	98.12	99.00	0.88	35	<0.5	21	29	>15	0.47	17	20	70	29	119
			14887	99.00	100.20	1.20	15	<0.5	7	33	>15	0.69	8	28	52	39	113
			14888	100.20	100.70	0.50	10	<0.5	7	15	>15	0.54	9	10	34	31	59
			14889	100.70	101.90	1.20	10	<0.5	11	26	>15	0.85	11	22	48	35	96
			14890	101.90	102.90	1.00	10	<0.5	10	22	>15	0.95	13	10	56	28	88
			14891	102.90	103.66	0.76	10	<0.5	13	27	>15	0.50	14	22	54	33	103
103.66	144.18	PELSTIC LAPILLI-BLOCK TUFF (V11/V12a)															
			14892	103.66	105.00	1.34	<5	<0.5	9	3	5.08	0.22	7	2	40	7	45
			14893	105.00	106.50	1.50	<5	<0.5	9	16	3.22	0.12	12	<2	38	30	54
			14894	106.50	108.00	1.50	<5	<0.5	9	16	3.02	0.10	10	<2	40	29	56
			14895	108.00	109.50	1.50	<5	<0.5	7	13	2.78	0.08	9	2	44	23	59
			14896	109.50	111.00	1.50	<5	<0.5	7	14	3.00	0.08	11	2	56	20	72
			14897	111.00	112.50	1.50	<5	<0.5	5	15	2.39	0.05	9	10	54	22	79
			14898	112.50	114.00	1.50	<5	<0.5	5	13	2.00	0.04	6	<2	44	23	57
			14899	114.00	115.50	1.50	<5	<0.5	6	13	2.22	0.05	7	2	54	19	69
			14900	115.50	117.00	1.50	<5	<0.5	9	13	2.13	0.05	7	<2	42	24	55
			14901	117.00	118.50	1.50	<5	<0.5	9	15	2.16	0.04	7	14	50	23	79
			14902	118.50	120.00	1.50	<5	<0.5	13	17	2.94	0.07	11	<2	64	21	81
			14903	126.00	127.50	1.50	<5	<0.5	9	20	2.41	0.07	7	2	64	24	86
			14904	132.00	133.50	1.50	<5	<0.5	10	21	2.84	0.06	9	<2	102	17	123
			14905	133.50	135.00	1.50	<5	<0.5	14	39	3.03	0.08	19	8	108	27	155
			14906	135.00	136.50	1.50	10	<0.5	18	140	3.38	0.07	25	<2	104	57	244
			14907	139.50	141.00	1.50	<5	<0.5	14	62	2.83	0.05	16	2	76	45	140
			14908	142.80	144.20	1.40	<5	<0.5	13	66	2.73	0.05	15	<2	40	62	106

MINES AGNICO-EAGLE LIMITEE
DIAMOND DRILL LOG

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From(m)	To(m)	Description	Sam.	From (m)	To (m)	Length (m)	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu ppm	Tot. Sulf.	
144.18	172.95	MAPIC VOLCANIC(minor leucoxene (5-10%)) (V6)																
	144.20	146.40	QUARTZ VEIN ZONE (20%) (vQ20%)	14909	144.20	145.00	0.80	<5	<0.5	40	65	6.93	0.12	88	<2	90	42	155
				14910	145.40	146.40	1.00	<5	<0.5	39	98	7.01	0.13	90	8	90	52	196
				14911	148.50	148.80	0.30	<5	<0.5	40	117	6.79	0.12	95	2	92	56	211
				14912	151.20	151.80	0.60	<5	<0.5	25	44	4.02	0.13	55	4	56	44	104
	160.30	169.50	QUARTZ VEIN ZONE 10-20% (vQ10-20%)															
				14913	160.30	161.30	1.00	<5	<0.5	46	76	7.76	0.10	104	2	100	43	178
				14914	161.50	162.80	1.30	<5	<0.5	40	92	6.77	0.12	87	6	86	52	184
				14915	164.30	165.00	0.70	<5	<0.5	40	58	6.58	0.11	89	6	84	41	148
				14916	168.00	169.50	1.50	<5	<0.5	40	83	6.78	0.12	87	<2	82	50	165
172.95	183.20	FELSIC CRYSTAL-LAPILLI TUFF (V11aq)																
				14917	174.00	175.50	1.50	<5	<0.5	11	24	2.91	0.06	13	4	30	44	58
				14918	176.80	177.50	0.70	<5	<0.5	9	20	2.21	0.08	8	10	22	48	52
				14919	180.00	181.50	1.50	<5	<0.5	10	18	2.77	0.06	10	6	28	39	52
				14920	181.50	182.20	0.70	<5	<0.5	28	114	4.81	0.07	12	4	42	73	160
				14921	182.20	183.20	1.00	<5	<0.5	16	65	6.24	0.06	9	6	60	52	131
183.20	227.90	FELSIC CRYSTAL ASH TUFF (V9aq)																
				14922	187.50	189.00	1.50	<5	<0.5	10	16	2.78	0.03	8	2	28	36	46
	191.70	192.00	FAULT GOUGE (~Pb)															
				14923	195.00	196.50	1.50	<5	<0.5	10	6	2.21	0.05	9	4	46	12	56
				14924	201.00	202.50	1.50	<5	<0.5	15	3	2.96	0.05	25	2	42	7	47
				14925	203.60	204.00	0.40	<5	<0.5	14	135	2.51	0.05	25	2	32	81	169
				14926	204.00	205.50	1.50	<5	<0.5	16	351	2.93	0.05	27	4	36	91	391
				14927	210.00	211.50	1.50	<5	<0.5	9	18	2.63	0.06	6	2	44	29	64
				14928	213.00	214.50	1.50	<5	<0.5	13	16	2.09	0.06	12	6	44	27	66
				14929	214.50	216.00	1.50	<5	<0.5	11	25	2.13	0.05	9	4	44	36	73
				14930	216.00	217.50	1.50	<5	<0.5	9	10	1.99	0.07	9	2	48	17	60
				14931	217.50	219.00	1.50	<5	<0.5	10	10	2.76	0.09	8	6	76	12	92
				14932	219.00	220.50	1.50	<5	<0.5	9	14	2.31	0.09	8	18	266	5	298
				14933	220.50	221.60	1.10	55	<0.5	26	94	9.55	0.18	11	110	2896	3	3100

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Sam.	From (m)	To (m)	Leg (m)	-----Comment-----	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot. Suf.
14851	9.00	10.50	1.50		<5	<0.5	10	68	2.59	0.06	20	4	42	62	114
14854	15.00	16.50	1.50		<5	<0.5	8	19	2.54	0.05	12	2	40	32	61
14855	21.00	22.50	1.50		<5	<0.5	10	19	2.95	0.06	8	4	58	25	81
14856	27.00	28.50	1.50		<5	<0.5	10	20	2.84	0.05	9	2	58	26	80
14857	33.00	34.50	1.50		<5	<0.5	11	16	3.14	0.04	9	4	66	20	86
14858	39.00	40.50	1.50		<5	<0.5	9	9	2.80	0.04	9	4	56	14	69
14859	41.50	42.50	1.00		<5	<0.5	7	18	2.48	0.05	6	6	38	32	62
14860	42.50	43.60	1.10		40	<0.5	10	41	2.59	0.04	9	4	40	51	85
14861	45.00	46.00	1.00		770	<0.5	20	23	3.99	0.04	23	4	56	29	83
14862	49.10	49.50	0.40		115	<0.5	10	15	3.65	0.05	8	<2	38	28	53
14863	49.50	51.00	1.50		<5	<0.5	9	11	3.20	0.04	12	<2	38	22	49
14864	51.60	52.10	0.50		<5	<0.5	7	13	2.83	0.06	9	<2	20	39	33
14865	52.30	53.20	0.90		<5	<0.5	24	30	6.14	0.11	55	<2	56	35	86
14866	55.50	57.00	1.50		<5	<0.5	31	97	6.70	0.09	84	<2	88	52	185
14867	58.80	60.30	1.50		<5	<0.5	24	106	5.87	0.11	59	2	68	61	176
14868	61.80	62.90	1.10		<5	<0.5	12	33	3.57	0.07	15	<2	42	44	75
14869	67.50	69.00	1.50		<5	<0.5	6	32	2.49	0.05	6	<2	26	55	58
14870	73.50	75.00	1.50		<5	<0.5	9	13	2.99	0.04	8	<2	50	21	63
14871	79.50	81.00	1.50		<5	<0.5	11	41	2.58	0.05	23	<2	68	38	109
14872	84.00	85.50	1.50		<5	<0.5	7	28	2.78	0.06	7	2	54	34	84
14883	90.00	91.50	1.50		<5	<0.5	9	15	2.37	0.05	11	<2	58	21	73
14884	94.50	96.00	1.50		<5	<0.5	8	17	2.19	0.05	8	<2	46	27	63
14885	97.00	98.12	1.12		<5	<0.5	8	9	5.74	0.22	6	4	66	12	79
14886	98.12	99.00	0.88		35	<0.5	21	29	>15	0.47	17	20	70	29	119
14887	99.00	100.20	1.20		15	<0.5	7	33	>15	0.69	8	28	52	39	113
14888	100.20	100.70	0.50		10	<0.5	7	15	>15	0.54	9	10	34	31	59
14889	100.70	101.90	1.20		10	<0.5	11	26	>15	0.85	11	22	48	35	96
14890	101.90	102.90	1.00		10	<0.5	10	22	>15	0.95	13	10	56	28	88
14891	102.90	103.66	0.76		10	<0.5	13	27	>15	0.50	14	22	54	33	103
14892	103.66	105.00	1.34		<5	<0.5	9	3	5.08	0.22	7	2	40	7	45
14893	105.00	106.50	1.50		<5	<0.5	9	16	3.22	0.12	12	<2	38	30	54
14894	106.50	108.00	1.50		<5	<0.5	9	16	3.02	0.10	10	<2	40	29	56
14895	108.00	109.50	1.50		<5	<0.5	7	13	2.78	0.08	9	2	44	23	59
14896	109.50	111.00	1.50		<5	<0.5	7	14	3.00	0.08	11	2	56	20	72
14897	111.00	112.50	1.50		<5	<0.5	5	15	2.39	0.05	9	10	54	22	79
14898	112.50	114.00	1.50		<5	<0.5	5	13	2.00	0.04	6	<2	44	23	57
14899	114.00	115.50	1.50		<5	<0.5	6	13	2.22	0.05	7	2	54	19	69

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Sam.	From (m)	To (m)	Leng (m)	-----Comment-----	Au	Ag	Co	Cu	Fe	Mn	Ni	Pb	Zn	Cu	Tot.
					ppb	ppm	ppm	ppm	%	%	ppm	ppm	ppm	Zn	Suf.
14900	115.50	117.00	1.50		<5	<0.5	9	13	2.13	0.05	7	<2	42	24	55
14901	117.00	118.50	1.50		<5	<0.5	9	15	2.16	0.04	7	14	50	23	79
14902	118.50	120.00	1.50		<5	<0.5	13	17	2.94	0.07	11	<2	64	21	81
14903	126.00	127.50	1.50		<5	<0.5	9	20	2.41	0.07	7	2	64	24	86
14904	132.00	133.50	1.50		<5	<0.5	10	21	2.84	0.06	9	<2	102	17	123
14905	133.50	135.00	1.50		<5	<0.5	14	39	3.03	0.08	19	8	108	27	155
14906	135.00	136.50	1.50		10	<0.5	18	140	3.38	0.07	25	<2	104	57	244
14907	139.50	141.00	1.50		<5	<0.5	14	62	2.83	0.05	16	2	76	45	140
14908	142.80	144.20	1.40		<5	<0.5	13	66	2.73	0.05	15	<2	40	62	106
14909	144.20	145.00	0.80		<5	<0.5	40	65	6.93	0.12	88	<2	90	42	155
14910	145.40	146.40	1.00		<5	<0.5	39	98	7.01	0.13	90	8	90	52	196
14911	148.50	148.80	0.30		<5	<0.5	40	117	6.79	0.12	95	2	92	56	211
14912	151.20	151.80	0.60		<5	<0.5	25	44	4.02	0.13	55	4	56	44	104
14913	160.30	161.30	1.00		<5	<0.5	46	76	7.76	0.10	104	2	100	43	178
14914	161.50	162.80	1.30		<5	<0.5	40	92	6.77	0.12	87	6	86	52	184
14915	164.30	165.00	0.70		<5	<0.5	40	58	6.58	0.11	89	6	84	41	148
14916	168.00	169.50	1.50		<5	<0.5	40	83	6.78	0.12	87	<2	82	50	165
14917	174.00	175.50	1.50		<5	<0.5	11	24	2.91	0.06	13	4	30	44	58
14918	176.80	177.50	0.70		<5	<0.5	9	20	2.21	0.08	8	10	22	48	52
14919	180.00	181.50	1.50		<5	<0.5	10	18	2.77	0.06	10	6	28	39	52
14920	181.50	182.20	0.70		<5	<0.5	28	114	4.81	0.07	12	4	42	73	160
14921	182.20	183.20	1.00		<5	<0.5	16	65	6.24	0.06	9	6	60	52	131
14922	187.50	189.00	1.50		<5	<0.5	10	16	2.78	0.03	8	2	28	36	46
14923	195.00	196.50	1.50		<5	<0.5	10	6	2.21	0.05	9	4	46	12	56
14924	201.00	202.50	1.50		<5	<0.5	15	3	2.96	0.05	25	2	42	7	47
14925	203.60	204.00	0.40		<5	<0.5	14	135	2.51	0.05	25	2	32	81	169
14926	204.00	205.50	1.50		<5	<0.5	16	351	2.93	0.05	27	4	36	91	391
14927	210.00	211.50	1.50		<5	<0.5	9	18	2.63	0.06	6	2	44	29	64
14928	213.00	214.50	1.50		<5	<0.5	13	16	2.09	0.06	12	6	44	27	66
14929	214.50	216.00	1.50		<5	<0.5	11	25	2.13	0.05	9	4	44	36	73
14930	216.00	217.50	1.50		<5	<0.5	9	10	1.99	0.07	9	2	48	17	60
14931	217.50	219.00	1.50		<5	<0.5	10	10	2.76	0.09	8	6	76	12	92
14932	219.00	220.50	1.50		<5	<0.5	9	14	2.31	0.09	8	18	266	5	298
14933	220.50	221.60	1.10		55	<0.5	26	94	9.55	0.18	11	110	2896	3	3100
14934	225.00	226.50	1.50		<5	<0.5	10	15	2.04	0.05	9	12	102	13	129
14935	229.50	231.00	1.50		<5	<0.5	12	21	2.88	0.06	11	18	60	26	99
14936	235.50	237.00	1.50		<5	<0.5	14	42	2.51	0.05	13	30	110	28	182

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ASSAY LOG

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Sam.	From (m)	To (m)	Length (m)	-----Comment-----	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot. Suf.
14937	238.50	240.00	1.50		<5	<0.5	14	29	2.80	0.05	11	22	230	11	281
14938	240.00	241.00	1.00		<5	<0.5	11	23	2.21	0.04	11	6	70	25	99
14939	244.20	245.50	1.30		<5	<0.5	43	95	5.63	0.11	75	10	70	58	175

MINES AGNICO-EAGLE LIMITEE
DIAMOND DRILL LOG

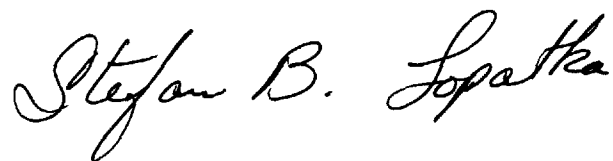
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PROPERTY :	VALRENNES B	PROJECT # :	P16	CLAIM # :	380987-1 & 2
NTS MAP # :	32 E/09	TOWNSHIP :	VALRENNES	ELEVATION :	Surface
LINE/STATION:	10+00E / 0+80N	EASTINGS/NORTHINGS:		AZIMUTH :	223.0 degrees
LENGTH :	150.00 m	INCLINATION :	-50.0 degrees		
OVERBURDEN :	27.00 m	CASING :	NW CASING LEFT IN HOLE		
LOGGED BY :	ZORAN MADON	DRILLED BY :	FORAGES MODERNE (1985) INC.	ASSAYING BY :	CHEMEX
DATE LOGGED :	1991/03/11 to 1991/03/13	DATE DRILLED :	1991/03/09 to 1991/03/13	CORE LOCATION:	TELBEL CORE RACK

ACID AND TROPARI TESTS

Depth	Dip	Azimuth
27.00	-49.0	*****
70.60	-48.0	*****
115.00	-46.0	*****
148.50	-43.0	223.5



MINES AGNICO-EAGLE LIMITEE
SUMMARY LOG

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From(m)	To(m)	Field Name (Legend)
0.00	27.00	CASING (OVB)
27.00	61.90	PELSIC CRYSTAL (feldspar)-ASH TUFF (sericitic) (V9af)
35.50	36.50	QUARTZ VEIN ZONE 35% (vQ35%)
39.80	40.00	FAULT GOUGE (~Pb)
53.50	54.50	QUARTZ VEIN ZONE 15% (vQ15%)
54.50	57.00	FAULT GOUGE-BLOCKY CORE (~Pb)
61.90	67.60	BLEACHED PELSIC ASH TUFF (V9ab)
65.00	66.00	CHLORITIC STOCKWORK-FAULT GOUGE (vc stw, ~Pb)
66.90	67.60	CHERT PYRITE HORIZON 4% Pyrite (CH PY 4%)
67.60	83.95	INTERCALATED SEDIMENTS (BANDED CHERT, ARGILLITE, GRAPHITE WITH MINOR SILTSTONE & CONGLOMERATIC SANDSTONE). (CH/S4/S4g/(S2/S3-S1))
67.60	76.00	CHERT PYRITE HORIZON 6-15% Pyrite (ChPy6-15%)
82.35	83.95	CHERT HORIZON minor Pyrite (CH(Py))
83.95	92.00	QUARTZ EYE RHYOLITE (V2q)
90.00	92.00	QUARTZ-CALCITE STOCKWORK (vQCC stw)
92.00	98.80	INTERCALATED GRAPHITIC ARGILLITE, CHERT & PYRITE, MINOR SILTSTONE. (S4gPy/ChPy/(S2))
95.00	97.50	CHERT PYRITE HORIZON (ChPy)
98.80	101.30	QUARTZ EYE RHYOLITE (V2q)
101.30	111.20	INTERCALATED GRAPHITIC ARGILLITE, CHERT & PYRITE, (minor siltstone (S4gPy/ChPy/(S2))
107.40	108.50	CHERT (minor Pyrite) (Ch(Py))
108.80	109.20	CHERT minor Pyrite (Ch(Py))
110.60	111.20	CHERT minor Pyrite (Ch(Py))
111.20	138.04	PELSIC LAPILLI TUFF (Sheared & sericitized) (V11a~Ps)
116.00	121.00	SHEAR ZONE FAULT GOUGES (~Pb)
131.50	133.10	FAULT ZONE (GOUGE, BRECCIA) (~Pbc)
135.20	138.04	FAULT ZONE (GOUGE, BRECCIA) (~Pbc)
138.04	150.00	MASSIVE INTERMEDIATE FLOW minor feldspar porphyry. (V6(f))
138.60	139.50	FAULT GOUGE (~Pb)
143.60	144.00	FAULT GOUGE (~Pb)
150.00		END OF HOLE.

MINES AGNICO-EAGLE LIMITEE
DIAMOND DRILL LOG

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From(m)	To(m)	Description	Sam.	From (m)	To (m)	Leng (m)	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot Sul
0.00	27.00	CASING (OVV)															
27.00	61.90	FELSIC CRYSTAL (feldspar)-ASH TUFF (sericitic) (V9af)	14940	31.50	33.00	1.50	<5	<0.5	18	42	3.58	0.07	62	<2	40	51	82
35.50	36.50	QUARTZ VEIN ZONE 35% (vq35%)	14941	35.50	36.30	0.80	<5	<0.5	21	21	3.93	0.07	107	2	50	30	73
			14942	37.50	39.00	1.50	<5	<0.5	22	15	4.38	0.07	149	<2	68	18	83
39.80	40.00	FAULT GOUGE (~Pb)	14943	43.50	45.00	1.50	<5	<0.5	22	30	4.57	0.08	88	6	56	35	92
			14944	49.50	51.00	1.50	<5	<0.5	21	17	3.93	0.07	137	<2	58	23	75
53.50	54.50	QUARTZ VEIN ZONE 15% (vq15%)	14945	53.50	54.50	1.00	<5	<0.5	16	48	4.10	0.08	98	<2	52	48	100
54.50	57.00	FAULT GOUGE-BLOCKY CORE (~Pb)	14946	60.00	61.50	1.50	<5	<0.5	31	10	9.17	0.29	153	<2	164	6	174
61.90	67.60	BLEACHED FELSIC ASH TUFF (V9ab)	14947	63.00	64.50	1.50	<5	<0.5	6	11	2.24	0.06	24	2	40	22	53
			14948	64.50	66.00	1.50	<5	<0.5	7	8	2.27	0.06	24	<2	168	5	176
65.00	66.00	CHLORITIC STOCKWORK-FAULT GOUGE (vC stw, ~Pb)	14949	66.00	66.90	0.90	<5	<0.5	9	18	4.15	0.13	26	<2	102	15	120
66.90	67.60	CHERT PYRITE HORIZON 4% Pyrite (CH PY 4%)	14950	66.90	67.60	0.70	<5	<0.5	35	159	7.04	0.16	36	4	100	61	263
67.60	83.95	INTERCALATED SEDIMENTS (BANDED CHERT, ARGILLITE, GRAPHITE WITH MINOR SILTSTONE & CONGLOMERATIC SANDSTONE). (CH/S4/S4g/(S2/S3-S1))															
67.60	76.00	CHERT PYRITE HORIZON 6-15% Pyrite (ChPy6-15%)	14951	67.60	69.10	1.50	20	<0.5	22	144	>15	0.22	47	6	136	51	286
			14952	69.10	70.40	1.30	15	<0.5	6	40	14.22	0.31	16	<2	144	22	184
			14953	70.40	71.90	1.50	<5	<0.5	8	56	>15	0.40	13	<2	208	21	264

MINES AGNICO-EAGLE LIMITED
ASSAY LOG

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Sam.	From (m)	To (m)	Length (m)	-----Comment-----	Au	Ag	Co	Cu	Fe	Mn	Ni	Pb	Zn	Cu	Tot.
					ppb	ppm	ppm	ppm	%	%	ppm	ppm	ppm	Zn	Suf.
14940	31.50	33.00	1.50		<5	<0.5	18	42	3.58	0.07	62	<2	40	51	82
14941	35.50	36.30	0.80		<5	<0.5	21	21	3.93	0.07	107	2	50	30	73
14942	37.50	39.00	1.50		<5	<0.5	22	15	4.38	0.07	149	<2	68	18	83
14943	43.50	45.00	1.50		<5	<0.5	22	30	4.57	0.08	88	6	56	35	92
14944	49.50	51.00	1.50		<5	<0.5	21	17	3.93	0.07	137	<2	58	23	75
14945	53.50	54.50	1.00		<5	<0.5	16	48	4.10	0.08	98	<2	52	48	100
14946	60.00	61.50	1.50		<5	<0.5	31	10	9.17	0.29	153	<2	164	6	174
14947	63.00	64.50	1.50		<5	<0.5	6	11	2.24	0.06	24	2	40	22	53
14948	64.50	66.00	1.50		<5	<0.5	7	8	2.27	0.06	24	<2	168	5	176
14949	66.00	66.90	0.90		<5	<0.5	9	18	4.15	0.13	26	<2	102	15	120
14950	66.90	67.60	0.70		<5	<0.5	35	159	7.04	0.16	36	4	100	61	263
14951	67.60	69.10	1.50		20	<0.5	22	144	>15	0.22	47	6	136	51	286
14952	69.10	70.40	1.30		15	<0.5	6	40	14.22	0.31	16	<2	144	22	184
14953	70.40	71.90	1.50		<5	<0.5	8	56	>15	0.40	13	<2	208	21	264
14954	71.90	73.40	1.50		<5	<0.5	2	143	13.36	0.27	9	12	128	53	283
14955	73.40	74.90	1.50		<5	<0.5	2	59	13.04	0.29	10	<2	172	26	231
14956	74.90	76.00	1.10		<5	<0.5	6	70	9.78	0.30	10	2	318	18	390
14957	76.00	77.40	1.40		20	<0.5	46	463	10.67	0.12	39	6	220	68	689
14958	77.40	77.90	0.50		110	5.0	46	258	>15	0.05	60	80	196	57	534
14959	77.90	78.70	0.80		<5	<0.5	3	10	4.16	0.05	8	<2	98	9	108
14960	78.70	79.00	0.30		10	<0.5	22	72	6.92	0.04	37	8	492	13	572
14961	79.00	79.60	0.60		<5	<0.5	3	14	4.82	0.04	7	<2	98	13	112
14962	79.60	80.30	0.70		15	<0.5	46	184	>15	0.31	69	18	188	49	390
14963	80.30	81.00	0.70		<5	<0.5	29	70	>15	0.38	65	2	226	24	298
14964	81.00	82.35	1.35		<5	<0.5	19	27	13.93	0.11	90	<2	180	13	207
14965	82.35	83.95	1.60		<5	<0.5	10	23	10.48	0.42	24	<2	50	32	73
14966	83.95	85.50	1.55		<5	<0.5	26	46	5.74	0.09	108	<2	48	49	94
14967	85.50	87.00	1.50		<5	<0.5	25	39	4.60	0.07	114	<2	54	42	93
14968	87.00	88.50	1.50		<5	<0.5	23	37	4.61	0.07	109	<2	58	39	95
14969	88.50	90.00	1.50		<5	<0.5	23	42	4.38	0.07	108	<2	46	48	88
14970	90.00	91.00	1.00		<5	<0.5	22	36	4.51	0.08	94	<2	38	49	74
14971	91.00	92.00	1.00		<5	<0.5	20	36	3.88	0.10	77	<2	38	49	74
14972	92.00	93.00	1.00		35	<0.5	46	82	7.61	0.20	90	14	88	48	184
14973	93.00	94.00	1.00		15	<0.5	18	108	11.20	0.21	49	4	92	54	204
14974	94.00	95.00	1.00		<5	<0.5	10	51	10.89	0.30	20	<2	114	31	165
14975	95.00	96.50	1.50		30	<0.5	16	84	7.70	0.16	42	8	162	34	254
14976	96.50	97.50	1.00		<5	<0.5	3	17	6.02	0.19	9	<2	40	30	57

MINES AGNICO-EAGLE LIMITEE
DIAMOND DRILL LOG

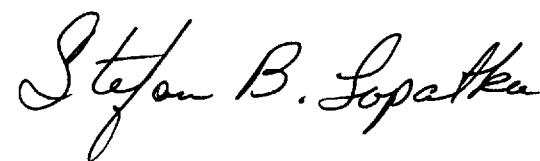
91-B-13

06-06-1991 :: 13:33

PROPERTY :	VALRENNES B	PROJECT # :	P16	CLAIM # :	387125-2
NTS MAP # :	32 B/09	TOWNSHIP :	VALRENNES	ELEVATION :	Surface
LINE/STATION:	24+00E / 3+75S	EASTINGS/NORTHINGS:		AZIMUTH :	43.0 degrees
LENGTH :	220.00 m	INCLINATION :	-50.0 degrees		
OVERBURDEN :	22.50 m	CASING :	NW CASING LEFT IN HOLE		
LOGGED BY :	S.B. LOPATKA	DRILLED BY :	FORAGES MODERNE (1985) INC.	ASSAYING BY :	CHEMEX
DATE LOGGED :	1991/03/16 to 1991/03/20	DATE DRILLED :	1991/03/11 to 1991/03/20	CORE LOCATION:	TELBEL CORE RACK

ACID AND TROPARI TESTS

Depth	Dip	Azimuth
19.00	-51.0	*****
60.00	-50.0	*****
133.60	-49.0	47.5
182.00	-47.0	*****
213.00	-43.0	48.0



ABSTRACT

This hole was drilled to test for the continuation of the stringer zone identified in the 81- series holes and in 91-B-12, and to test the second chargeability anomaly as a possible base metal concentration. The stringer zone, though present is not extensive. The I.P. is related to the several pyritic chert horizons intersected. The hole intersected a basal, massive to fragmental Rhyolite (22.5 - 124.5 m.) overlain by interbedded cherts (Pyritic), argillites and graphitic argillites with tuffaceous horizons. Two features which overprint this stratigraphy are a) a strong calcitic alteration of the rhyolites (79 - 124 m) and b) strong fault gouges in the sedimentary sequence, particularly confined to the graphitic zones. No anomalous gold values were returned (30 ppb.), however elevated base metal values were intersected in the chert horizons (100's ppm Cu & Zn).

MINES AGNICO-EAGLE LIMITEE
SUMMARY LOG

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From(m)	To(m)	Field Name (Legend)
0.00	22.50	CASING (OVB)
22.50	36.20	RHYOLITE BRECCIA (weak calcitic alt. of matrix) (V12{V2})
34.50	36.00	FAULT BRECCIA (~Fc)
36.20	48.58	FELSIC QUARTZ EYE LAPILLI TUFF (V11aq)
43.00	45.00	AGGLOMERATE (V10a)
48.58	51.50	RHYOLITE (STRONG CALCITIC ALT.) (V2)
51.50	52.03	QUARTZ EYE, CHLORITIC SHARD LAPILLI TUFF (V11aqc)
52.03	77.22	RHYOLITIC AGGLOMERATE (moderate calcitic alteration) (V10{V2})
77.22	79.85	VARIOLITHIC RHYOLITE (V2v)
79.85	81.70	RHYOLITE (STRONGLY CALCITIC) (V2)
81.70	124.50	RHYOLITIC AGGLOMERATE (moderately calcitic) (V10{V2})
123.00	124.50	CHLORITE PYRITE STRINGERS (vcPY stg.)
124.50	127.70	GRAPHITIC ARGILLITE (S4g)
126.00	127.70	SILICEOUS AND QUARTZ PYRITE STRINGERS (s vQPYstw)
127.70	129.20	BANDED CHERT, ARGILLITE (occasional massive pyrite bands) (CH/S4/(PY))
129.20	140.20	FELSIC QUARTZ CRYSTAL TUFF (STRONG CALCITIC ALTERATION) (V9aq)
139.40	139.85	BRECCIA (ANKERITIC WITH QUARTZ-PYRITE-PYRRHOTITE VEINS) (~Fc vQ-PY-PO)
140.20	189.80	STRONGLY CALCITIC ALTERED TUFFS AND LAPILLI TUFFS (V9/V11)
142.20	142.30	CHERTY PYRITIC HORIZON (CHPY)
151.30	154.30	CHLORITE-PYRITE STOCKWORK (vcPY stw.)
161.70	161.80	STOCKWORK CALAITE-CHLORITE(PYRITE) (vCCc(Py))
189.80	190.65	BANDED CHERT (CH{Py})
190.65	192.40	GRAPHITIC ARGILLITE WITH PYRITE NODULES (S4g{Py})
192.40	192.70	PYRITIC CHERT HORIZON 40% Pyrite (CHPY40%)
192.70	194.15	BRECCIATED GRAPHITIC ZONE (~Fcg)
194.15	195.00	BRECCIATED PYRITIC CHERT HORIZON (CHPY~Fc)
195.00	208.40	INTERLAYERED BANDED CHERT AND ARGILLITE (CH/S4{Py})
208.40	213.26	MASSIVE INTERMEDIATE FLOW (V6)
213.26	220.00	INTERLAYERED BANDED CHERT AND ARGILLITE (BRECCIATED) (CH/S4~Fc)

220.00 END OF HOLE.

MINES AGNICO-EAGLE LIMITEE
DIAMOND DRILL LOG91-B-13
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From(m)	To(m)	Description	Sam.	From (m)	To (m)	Leng (m)	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot. Suf	
0.00	22.50	CASING (OVb)																
22.50	36.20	RHYOLITE BRECCIA (weak calitic alt. of matrix) (V12{V2})	17011	33.00	34.50	1.50	<5	<0.5	10	22	9.09	0.23	9	<2	108	17	130	
	34.50	36.00	FAULT BRECCIA (~Fc)	17012	34.50	36.00	1.50	<5	<0.5	8	23	8.37	0.21	10	4	152	13	179
36.20	48.58	FELSIC QUARTZ EYE LAPILLI TUFF (V11aq)																
	43.00	45.00	AGGLOMERATE (V10a)															
48.58	51.50	RHYOLITE (STRONG CALCITIC ALT.) (V2)	17013	50.00	51.00	1.00	<5	<0.5	15	26	3.76	0.08	29	4	76	25	106	
51.50	52.03	QUARTZ EYE, CHLORITIC SHARD LAPILLI TUFF (V11aqc)																
52.03	77.22	RHYOLITIC AGGLOMERATE (moderate calcitic alteration) (V10{V2})	17014	58.00	59.00	1.00	<5	<0.5	5	17	7.80	0.21	4	2	74	19	93	
			17015	71.50	72.50	1.00	<5	<0.5	5	22	2.08	0.06	3	2	38	37	62	
77.22	79.85	VARIOLITHIC RHYOLITE (V2v)	17016	77.32	78.25	0.93	<5	<0.5	35	105	6.13	0.11	96	8	70	60	183	
			17017	78.25	79.25	1.00	<5	<0.5	33	98	5.67	0.11	90	2	62	61	162	
			17018	79.25	80.25	1.00	<5	<0.5	32	102	6.15	0.15	87	<2	70	59	172	
79.85	81.70	RHYOLITE (STRONGLY CALCITIC) (V2)	17019	80.25	81.70	1.45	<5	<0.5	35	98	6.08	0.12	95	<2	66	60	164	
81.70	124.50	RHYOLITIC AGGLOMERATE (moderately calcitic) (V10{V2})	17020	96.00	97.00	1.00	<5	<0.5	13	28	2.71	0.09	10	8	186	13	222	
			17021	97.00	98.00	1.00	<5	<0.5	9	23	1.23	0.04	6	6	42	35	71	
			17022	115.00	116.00	1.00	<5	<0.5	26	75	8.50	0.14	105	8	212	26	295	
			17023	116.00	117.00	1.00	<5	<0.5	6	27	2.98	0.04	7	4	24	53	55	
			17024	117.00	118.40	1.40	<5	<0.5	30	90	5.58	0.12	88	<2	102	47	192	

MINES AGNICO-EAGLE LIMITEE
ASSAY LOG

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Sam.	From (m)	To (m)	Length (m)	Comment	Au	Ag	Co	Cu	Fe	Mn	Ni	Pb	Zn	Cu	Tot.
					ppb	ppm	ppm	ppm	%	%	ppm	ppm	ppm	Zn	Suf.
17011	33.00	34.50	1.50		<5	<0.5	10	22	9.09	0.23	9	<2	108	17	130
17012	34.50	36.00	1.50		<5	<0.5	8	23	8.37	0.21	10	4	152	13	179
17013	50.00	51.00	1.00		<5	<0.5	15	26	3.76	0.08	29	4	76	25	106
17014	58.00	59.00	1.00		<5	<0.5	5	17	7.80	0.21	4	2	74	19	93
17015	71.50	72.50	1.00		<5	<0.5	5	22	2.08	0.06	3	2	38	37	62
17016	77.32	78.25	0.93		<5	<0.5	35	105	6.13	0.11	96	8	70	60	183
17017	78.25	79.25	1.00		<5	<0.5	33	98	5.67	0.11	90	2	62	61	162
17018	79.25	80.25	1.00		<5	<0.5	32	102	6.15	0.15	87	<2	70	59	172
17019	80.25	81.70	1.45		<5	<0.5	35	98	6.08	0.12	95	<2	66	60	164
17020	96.00	97.00	1.00		<5	<0.5	13	28	2.71	0.09	10	8	186	13	222
17021	97.00	98.00	1.00		<5	<0.5	9	23	1.23	0.04	6	6	42	35	71
17022	115.00	116.00	1.00		<5	<0.5	26	75	8.50	0.14	105	8	212	26	295
17023	116.00	117.00	1.00		<5	<0.5	6	27	2.98	0.04	7	4	24	53	55
17024	117.00	118.40	1.40		<5	<0.5	30	90	5.58	0.12	88	<2	102	47	192
17025	123.00	124.50	1.50		<5	<0.5	6	60	5.18	0.07	4	4	42	59	106
17026	124.50	126.00	1.50		15	<0.5	71	240	10.83	0.14	73	42	96	71	378
17027	126.00	127.00	1.00		<5	<0.5	7	235	>15	0.73	7	<2	50	82	285
17028	127.00	128.40	1.40		30	<0.5	85	338	14.32	0.24	53	22	94	78	454
17029	128.40	129.20	0.80		<5	<0.5	14	65	>15	0.40	17	<2	60	52	125
17030	134.80	136.30	1.50		<5	<0.5	36	128	7.62	0.16	71	<2	84	60	212
17031	138.90	140.20	1.30		5	<0.5	39	136	12.59	0.22	72	4	254	35	394
17032	142.00	142.50	0.50		10	<0.5	36	97	7.54	0.18	77	2	76	56	175
17033	150.00	150.50	0.50		<5	<0.5	35	133	6.18	0.12	96	4	78	63	215
17034	161.80	163.30	1.50		<5	<0.5	34	113	4.02	0.13	67	2	62	65	177
17035	163.30	165.10	1.80		5	<0.5	45	150	5.03	0.13	73	<2	74	67	224
17036	170.00	171.00	1.00		10	<0.5	35	132	7.14	0.13	51	<2	100	57	232
17037	189.80	190.65	0.85		<5	<0.5	11	59	8.42	0.41	7	<2	22	73	81
17038	192.40	192.70	0.30		10	<0.5	36	689	>15	0.27	36	10	154	82	853
17039	194.15	195.00	0.85		<5	<0.5	19	137	8.70	0.27	17	2	46	75	185
17040	197.25	198.85	1.60		10	<0.5	16	98	>15	0.30	19	8	80	55	186
17041	201.00	202.50	1.50		5	<0.5	10	28	>15	0.49	15	<2	34	45	62
17042	213.26	214.50	1.24		10	<0.5	22	85	>15	0.78	29	12	68	56	165
17043	217.50	219.00	1.50		<5	<0.5	16	68	13.33	0.58	24	4	42	62	114

MINES AGNICO-EAGLE LIMITED
DIAMOND DRILL LOG

91-B-14

06-06-1991 :: 10:33

PROPERTY :	VALRENNRS B	PROJECT # :	P16	CLAIM # :	380987-2
NYS MAP # :	32 R/09	TOWNSHIP :	VALRENNRS	ELEVATION :	Surface
LINE/STATION:	9+00R / 2+00S	RASTINGS/NORTHINGS:		AZIMUTH :	43.0 degrees
LENGTH :	231.00 m	INCLINATION :	-50.0 degrees		
OVERBURDEN :	22.00 m	CASING :	NW CASING LEFT IN HOLE		
LOGGED BY :	S.R. LOPATKA, T.N.J. HUGUES	DRILLED BY :	FORAGES MODERNE (1985) INC.	ASSAYING BY :	CHRMEX
DATE LOGGED :	1991/03/23 to 1991/03/23	DATE DRILLED :	1991/03/20 to 1991/03/23	CORE LOCATION:	TRIBEL CORE RACK

ACTO AND TROPART TESTS

Depth	Dip	Azimuth
22.00	-52.0	*****
70.00	-46.0	*****
121.60	-45.0	44.5
180.00	-41.0	*****
228.00	-39.0	39.0

Stefan B. Lopatka

ABSTRACT

This hole was drilled to test an I.P. chargeability anomaly traced from the zone of the stringer alteration. It is drilled on the same I.P. trend as hole 91-B-13. It intersected a 5 m. Pyritic chert and siltstone horizon underlain by massive to fragmental rhyolite to rhyodacite flows and tuffs. It is overlain by dacitic tuff and reworked tuffs. The stratigraphy is cut by strong shear and breccia zones, particularly around the lower sedimentary contact. It is also cut by a sheared chloritic stringer zone in the lower fragmental unit. Minor gold anomalies were returned from the stringer zone (130 & 270 ppb.) and the cherty pyritic horizon (115 ppb). These values were related to sheared and brecciated horizons.

MINES AGNICO-EAGLE LIMITED
SUMMARY LOG

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From(m)	To(m)	Field Name (Legend)
0.00	22.00	CASING (OVR)
22.00	26.45	RHYOLITE (V2)
26.45	42.36	RHYODACITIC FLOW (MINOR QUARTZ RYE BANDS) (V2-V4a(q))
42.36	48.00	QUARTZ RYE RHYODACITIC FLOW TO FRAGMENTAL (V2-V4/V10aq)
45.30	45.70	CHLORITIC-PYRITIC STRINGER ZONE (vc(Py)stw)
48.00	51.20	MASSIVE RHYODACITIC FLOW (V2-V4)
51.20	59.82	VARIABLE DACTIC (CALCITIC ALTERATION INCREASES DOWN HOLE) (V2-V4v)
59.82	63.37	SHEAR MASSIVE FLOW (Quartz-chlorite-Pyrite stringer zone) (V4 vQcPy stw ~Ps)
63.37	67.75	MASSIVE RHYODACITIC FLOW (V2-V4)
67.75	75.00	SHEAR FELSIC TUFF (~Ps V9a)
75.00	78.00	GROUND CORE BRECCIA (~Fc)
78.00	81.00	FELSIC FRAGMENTAL (STRONGLY CHLORITIZED) (V10a)
81.00	112.70	BRECCIATED TUFF INVADED BY CHLORITIC STRINGERS (V9a~Fc vc stw)
86.00	87.00	CHERT-PYRITE HORIZON (CH-PY)
91.50	91.53	PAVILT GOUGE (~Pb)
112.70	142.17	BRECCIATED FELSIC TUFF (MINOR CHL. STRINGERS) (V9a(V10)(c stw))
142.17	147.00	SILTSTONE/CHERT/PYRITE (S2/CH/PY)
143.90	145.05	SEMI-MASSIVE PYRITE/CHERT (PY 70%/CH)
147.00	148.00	TUFF SILT CONTACT ZONE (V9i-S2)
148.00	172.30	DACTIC TUFF(BLEACHED-SERICITIC) (V9ib)
172.30	203.90	ASH-LAPILLI TUFF (V9i-V11i)
203.90	219.05	DACTIC ASH-CRYSTAL TUFF (V9if)
219.05	231.00	SILTSTONE-DACTIC FELDSPAR CRYSTAL TUFF (S2-V9if)
231.00		RND OF HOLE.

MTNES AGNICO-EAGLE LIMITED
DIAMOND DRILL LOG

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From(m)	To(m)	Description	Sam.	From (m)	To (m)	Length (m)	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu %	Tot. Sulf.	
0.00	22.00	CASTING (OVB)																
22.00	26.45	RHYOLITE (V2)	17044	25.00	26.00	1.00	<5	<0.5	4	10	2.63	0.11	3	2	40	20	52	
26.45	42.36	RHYODACTIC FLOW (MINOR QUARTZ RYE BANDS) (V2-V4a(q))	17045	29.00	30.00	1.00	<5	<0.5	2	12	1.69	0.11	2	14	26	32	52	
			17046	37.00	38.00	1.00	<5	<0.5	5	8	1.89	0.12	4	4	32	20	44	
			17047	41.50	42.50	1.00	<5	<0.5	9	10	2.60	0.11	6	4	48	17	62	
42.36	48.00	QUARTZ RYE RHYODACTIC FLOW TO FRAGMENTAL (V2-V4/V10aq)	17048	45.00	46.00	1.00	<5	<0.5	7	10	2.88	0.09	4	2	46	18	58	
45.30	45.70	CHLORITIC-PYRITIC STRINGER ZONE (vc(Py)stw)																
48.00	51.20	MASSIVE RHYODACTIC FLOW (V2-V4)																
51.20	59.82	VARIABLE DACTIC (CALCITIC ALTERATION INCREASES DOWN HOLE) (V2-V4v)	17049	56.00	57.00	1.00	<5	<0.5	9	11	3.26	0.08	7	<2	52	17	63	
59.82	63.37	SHEAR MASSIVE FLOW (Quartz-chlorite-Pyrite stringer zone) (V4 vQcPy stw ~Ps)	17050	60.30	61.79	1.49	<5	<0.5	11	42	3.33	0.09	12	2	66	39	110	
			17051	61.79	63.00	1.21	<5	<0.5	8	173	2.61	0.07	7	<2	40	81	213	
63.37	67.75	MASSIVE RHYODACTIC FLOW (V2-V4)																
67.75	75.00	SHEAR PRESTIC TUFF (~Ps V9a)	17052	69.40	70.90	1.50	<5	<0.5	19	89	4.64	0.12	56	4	68	57	161	
75.00	78.00	GROUND CORR BRCCCTA (~Pc)																
78.00	81.00	PRESTIC FRAGMENTAL (STRONGLY CHLORITIZED) (V10a)	17053	78.00	79.50	1.50	10	<0.5	10	21	7.24	0.23	7	6	86	20	113	
81.00	112.70	BRCCCTATED TUFF INVADED BY CHLORITIC STRINGERS (V9a~Pc vc stw)	17054	81.60	82.80	1.20	5	<0.5	15	33	6.67	0.23	13	4	78	30	115	

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Sam.	From (m)	To (m)	Leng (m)	-----Comment-----	Au	Ag	Co	Cu	Fe	Mn	Ni	Pb	Zn	Cu	Tot.
					ppb	ppm	ppm	ppm	%	%	ppm	ppm	ppm	Zn	Suf.
17044	25.00	26.00	1.00		<5	<0.5	4	10	2.63	0.11	3	2	40	20	52
17045	29.00	30.00	1.00		<5	<0.5	2	12	1.69	0.11	2	14	26	32	52
17046	37.00	38.00	1.00		<5	<0.5	5	8	1.89	0.12	4	4	32	20	44
17047	41.50	42.50	1.00		<5	<0.5	9	10	2.60	0.11	6	4	48	17	62
17048	45.00	46.00	1.00		<5	<0.5	7	10	2.88	0.09	4	2	46	18	58
17049	56.00	57.00	1.00		<5	<0.5	9	11	3.26	0.08	7	<2	52	17	63
17050	60.30	61.79	1.49		<5	<0.5	11	42	3.33	0.09	12	2	66	39	110
17051	61.79	61.00	1.21		<5	<0.5	8	173	2.61	0.07	7	<2	40	81	213
17052	69.40	70.90	1.50		<5	<0.5	19	89	4.64	0.12	56	4	68	57	161
17053	78.00	79.50	1.50		10	<0.5	10	21	7.24	0.23	7	6	86	20	113
17054	81.60	82.80	1.20		5	<0.5	15	33	6.67	0.23	13	4	78	30	115
17055	84.70	86.20	1.50		30	<0.5	19	23	6.53	0.15	21	4	42	35	69
17056	86.20	87.70	1.50		5	<0.5	15	18	4.95	0.17	14	6	30	38	54
17057	89.35	90.85	1.50		<5	<0.5	8	9	3.55	0.18	5	2	22	29	33
17058	90.85	92.00	1.15		<5	<0.5	13	14	5.84	0.20	11	2	54	21	70
17059	92.00	93.45	1.45		<5	<0.5	8	11	4.48	0.20	7	2	38	22	51
17060	94.80	96.30	1.50		<5	<0.5	20	11	7.53	0.30	18	6	80	12	97
17061	96.30	97.80	1.50		<5	<0.5	18	8	6.03	0.28	17	6	56	13	70
17062	97.80	99.00	1.20		<5	<0.5	20	9	5.58	0.22	19	2	44	17	55
17063	99.00	100.50	1.50		<5	<0.5	18	7	8.90	0.36	15	4	74	9	85
17064	100.50	102.00	1.50		5	<0.5	28	16	10.23	0.25	28	18	70	19	104
17065	102.00	103.50	1.50		10	<0.5	22	21	8.94	0.18	33	12	82	20	115
17066	105.00	106.50	1.50		5	<0.5	24	31	10.33	0.20	27	10	108	22	149
17067	106.50	108.00	1.50		130	<0.5	14	44	7.78	0.21	14	6	78	36	128
17068	108.00	109.50	1.50		270	<0.5	10	22	6.04	0.14	7	2	70	24	94
17069	110.50	112.00	1.50		<5	<0.5	14	20	7.01	0.26	15	6	82	20	108
17070	118.60	120.00	1.40		<5	<0.5	10	20	2.84	0.10	9	2	22	48	44
17071	123.00	124.50	1.50		<5	<0.5	12	26	2.72	0.08	9	<2	456	5	482
17072	129.00	130.50	1.50		<5	<0.5	10	21	6.37	0.16	8	2	130	14	153
17073	135.00	136.50	1.50		<5	<0.5	13	15	2.62	0.10	23	2	26	37	43
17074	141.17	142.17	1.00		<5	<0.5	14	7	2.75	0.05	10	2	46	13	55
17075	142.17	142.85	0.68		25	<0.5	55	85	>15	0.40	46	58	88	49	231
17076	142.85	143.90	1.05		5	<0.5	16	14	>15	>1	23	12	144	9	170
17077	143.90	145.05	1.15		115	<0.5	59	125	>15	0.31	66	72	82	60	279
17078	145.05	145.75	0.70		35	<0.5	36	83	13.49	0.44	30	8	148	36	239
17079	145.75	147.00	1.25		5	<0.5	8	8	3.33	0.09	21	6	36	18	50
17080	153.00	154.50	1.50		5	<0.5	9	56	2.97	0.10	32	4	46	55	106

MTNES AGNICO-EAGLE LIMITED
ASSAY LOG

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Sam.	From (m)	To (m)	Leg (m)	-----Comment-----	Au	Ag	Co	Cu	Fe	Mn	Ni	Pb	Zn	Cu	Tot.
					ppb	ppm	ppm	ppm	%	%	ppm	ppm	ppm	Zn	Suf.
17081	158.90	159.60	0.70		10	<0.5	3	11	3.08	0.18	4	4	48	19	63
17082	165.00	166.50	1.50		5	<0.5	5	6	1.87	0.11	4	2	44	12	52
17083	172.30	174.00	1.70		5	<0.5	10	27	5.62	0.16	13	6	730	4	763
17084	178.90	180.00	1.10		5	<0.5	14	31	8.01	0.27	17	8	118	21	157
17085	180.00	181.50	1.50		<5	<0.5	17	32	8.67	0.30	15	2	88	27	122
17086	181.50	182.90	1.40		<5	<0.5	17	60	8.04	0.37	15	10	90	40	160
17087	186.00	187.50	1.50		<5	<0.5	11	19	6.17	0.27	6	<2	74	20	93
17088	193.50	195.00	1.50		<5	<0.5	20	34	5.14	0.31	69	4	78	30	116
17089	199.60	201.30	1.70		<5	<0.5	31	64	12.60	0.22	26	10	82	44	156
17090	204.00	205.50	1.50		<5	<0.5	9	63	4.03	0.20	10	<2	86	42	149
17091	209.00	210.50	1.50		<5	<0.5	15	57	6.12	0.14	16	10	52	52	119
17092	213.00	214.50	1.50		<5	<0.5	12	35	5.54	0.15	9	2	32	52	69
17093	214.50	216.00	1.50		<5	<0.5	20	221	8.26	0.23	22	<2	68	76	289
17094	216.00	217.50	1.50		<5	<0.5	10	46	4.75	0.13	9	4	42	52	92
17095	217.50	219.00	1.50		<5	<0.5	8	58	3.79	0.12	14	<2	36	62	94
17096	219.00	220.50	1.50		<5	<0.5	26	42	5.03	0.12	124	2	70	38	114
17097	226.50	228.00	1.50		<5	<0.5	17	20	3.35	0.15	83	<2	52	28	72

MINES AGNICO-EAGLE LIMITED
DIAMOND DRILL LOG

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PROPERTY :	VAGRENNRS B	PROJECT # :	P16	CLAIM # :	387125-2
NYS MAP # :	32 R/09	TOWNSHIP :	VAGRENNRS	ELEVATION :	Surface
LINE/STATION:	25+00R / 1+50S	RASTINGS/NORTHINGS:		AZIMUTH :	223.0 degrees
LENGTH :	188.00 m	INCLINATION :	-50.0 degrees		
OVERBURDEN :	13.00 m	CASING :	NW CASING LEFT IN HOLE		
LOGGED BY :	T.N.J. HUGHES	DRILLED BY :	FORAGES MODERNE (1985) INC.	ASSAYING BY :	CHRMEX
DATE LOGGED :	1991/03/21 to 1991/03/23	DATE DRILLED :	1991/03/20 to 1991/03/23	CORE LOCATION:	TRIBBI CORE RACK

ACID AND TROPART TESTS

Depth	Dip	Azimuth
13.00	-51.0	*****
129.50	-50.0	232.5
150.00	-51.0	*****
188.00	-51.0	227.5

Stephen B. Lopatka

ABSTRACT

This hole was drilled to test the eastern extension of the T.P. trend associated with the chl-py stringer zone. It collared into a gabbroic intrusive to 81 m. This was followed by a thin (3m) crystal tuff, underlain by a 26m chert-hematite-jasperoid iron formation. The upper portion of this unit returned slightly anomalous gold values (30-50 ppb). The remainder of the sequence consists of a lapilli tuff, siltstone debris flow, ash tuff and a chert argillite pyrite horizon (18m.). this last units also returned slightly anomalous Gold values (15-40 ppb). The hole finished in an ash tuff. Base metal patterns show an increase in Cu:Zn ratios in this hole.

MINES AGNICO-EAGLE LIMITEE
SUMMARY LOG91-B-15
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From(m)	To(m)	Field Name (Legend)
0.00	13.00	CASTNG (LEFT IN HOLE) (OVB)
13.00	81.00	GABBRO (3G)
80.00	90.00	FAULT CONTACT (ground core) (~Pb)
81.00	84.40	RHYODACTIC ASH-CRYSTAL TUFP (V9iq)
84.40	111.00	CHERT-HEMATITE-JASPER-PYRITE IRON FORMATION (P3ChPy)
111.00	125.50	DACTIC ASH-LAPILLI TUFP(albitized-bleached) (V9i-V11i)
125.50	131.80	SILTSTONE (S2)
131.80	159.20	DACTIC ASH FALL DRBRIS FLOW (V9i/V10)
159.20	167.05	DACTIC ASH TUFP (V9i)
167.05	185.35	ARGILLITE/CHERT (S4/Ch)
179.60	180.65	PYRITIC CHERT (PyCh(35%Py))
185.35	187.12	TUFFACEOUS-SILTSTONE (contact zone) (S2-V9i)
187.12	188.00	DACTIC ASH TUFP (V9i)
188.00		END OF HOLE.

MTNES AGNICO-EAGLE T.MTTEE
DIAMOND DRILL LOG

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From(m)	To(m)	Description	Sam.	From (m)	To (m)	Leng (m)	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot Sul
0.00	13.00	CASTING (LEPT TN HOLE) (OVB)															
13.00	81.00	GABBRO (3G)															
			17101	16.50	18.00	1.50	<5	<0.5	37	108	5.65	0.09	116	6	80	57	194
			17102	18.00	19.50	1.50	<5	<0.5	30	66	4.75	0.07	101	2	56	54	124
			17103	24.00	25.50	1.50	<5	<0.5	38	135	4.78	0.07	125	2	54	71	191
			17104	31.50	33.00	1.50	<5	<0.5	34	158	4.01	0.06	116	14	44	78	216
			17105	37.50	39.00	1.50	<5	<0.5	28	55	3.61	0.05	101	<2	40	58	95
			17106	43.50	45.00	1.50	<5	<0.5	37	42	4.44	0.16	122	4	128	25	174
			17107	57.00	58.50	1.50	<5	<0.5	42	72	6.11	0.14	142	48	82	47	202
			17108	61.50	63.00	1.50	<5	<0.5	30	43	4.20	0.17	112	4	64	40	111
80.00	90.00	FAULT CONTACT (ground core) (~Pb)															
81.00	84.40	RHYODACTIC ASH-CRYSTAL TUFF (V9iq)															
84.40	111.00	CHERT-HEMATITE-JASPER-PYRITE IRON FORMATION (P3ChPy)															
			17109	84.40	87.00	2.60	30	<0.5	19	255	>15	0.04	61	28	218	54	501
			17110	87.00	90.00	3.00	40	<0.5	19	356	>15	0.03	77	38	240	60	634
			17111	90.00	91.12	1.12	30	<0.5	26	443	>15	0.03	114	26	320	58	789
			17112	91.12	93.00	1.88	5	<0.5	20	122	>15	0.03	72	22	148	45	292
			17113	93.00	96.20	3.20	50	7.5	94	332	13.62	0.03	126	34	106	76	472
			17114	96.20	99.00	2.80	<5	<0.5	7	47	12.40	0.02	33	2	114	29	163
			17115	99.00	100.90	1.90	45	9.5	90	345	13.01	0.02	128	36	90	79	471
			17116	100.90	102.60	1.70	5	<0.5	15	154	8.71	0.01	33	42	104	60	300
			17117	102.60	105.00	2.40	<5	<0.5	3	43	>15	0.03	15	4	78	36	125
			17118	105.00	108.00	3.00	<5	<0.5	4	32	>15	0.02	11	<2	76	30	108
			17119	108.00	111.00	3.00	<5	<0.5	4	58	7.38	0.01	11	6	38	60	102
111.00	125.50	DACTIC ASH-LAPILLI TUFF(albitized-bleached) (V9i-V11i)															
125.50	131.80	SLIPSTONE (S2)															
131.80	159.20	DACTIC ASH FALL DEBRIS FLOW (V9i/V10)															
			17120	133.00	135.25	2.25	<5	<0.5	12	34	3.47	0.14	17	16	62	35	112
			17121	141.00	142.50	1.50	<5	<0.5	10	30	10.27	0.43	10	44	100	23	174

MINES AGNICO-EAGLE TIMTPE
ASSAY LOG

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Sam.	From (m)	To (m)	Leng (m)	-----Comment-----	Au ppb	Ag ppm	Co ppm	Cu ppm	Fe %	Mn %	Ni ppm	Pb ppm	Zn ppm	Cu Zn	Tot. Suf.
17101	16.50	18.00	1.50		<5	<0.5	37	108	5.65	0.09	116	6	80	57	194
17102	18.00	19.50	1.50		<5	<0.5	30	66	4.75	0.07	101	2	56	54	124
17103	24.00	25.50	1.50		<5	<0.5	38	135	4.78	0.07	125	2	54	71	191
17104	31.50	33.00	1.50		<5	<0.5	34	158	4.01	0.06	116	14	44	78	216
17105	37.50	39.00	1.50		<5	<0.5	28	55	3.61	0.05	101	<2	40	58	95
17106	43.50	45.00	1.50		<5	<0.5	37	42	4.44	0.16	122	4	128	25	174
17107	57.00	58.50	1.50		<5	<0.5	42	72	6.11	0.14	142	48	82	47	202
17108	61.50	63.00	1.50		<5	<0.5	30	43	4.20	0.17	112	4	64	40	111
17109	84.40	87.00	2.60		30	<0.5	19	255	>15	0.04	61	28	218	54	501
17110	87.00	90.00	3.00		40	<0.5	19	356	>15	0.03	77	38	240	60	634
17111	90.00	91.12	1.12		30	<0.5	26	443	>15	0.03	114	26	320	58	789
17112	91.12	93.00	1.88		5	<0.5	20	122	>15	0.03	72	22	148	45	292
17113	93.00	96.20	3.20		50	7.5	94	332	13.62	0.03	126	34	106	76	472
17114	96.20	99.00	2.80		<5	<0.5	7	47	12.40	0.02	33	2	114	29	163
17115	99.00	100.90	1.90		45	9.5	90	345	13.01	0.02	128	36	90	79	471
17116	100.90	102.60	1.70		5	<0.5	15	154	8.71	0.01	33	42	104	60	300
17117	102.60	105.00	2.40		<5	<0.5	3	43	>15	0.03	15	4	78	36	125
17118	105.00	108.00	3.00		<5	<0.5	4	32	>15	0.02	11	<2	76	30	108
17119	108.00	111.00	3.00		<5	<0.5	4	58	7.38	0.01	11	6	38	60	102
17120	133.00	135.25	2.25		<5	<0.5	12	34	3.47	0.14	17	16	62	35	112
17121	141.00	142.50	1.50		<5	<0.5	10	30	10.27	0.43	10	44	100	23	174
17122	142.50	144.00	1.50		<5	<0.5	10	28	7.01	0.32	6	14	104	21	146
17123	144.00	145.50	1.50		<5	<0.5	8	22	4.08	0.13	8	10	92	19	124
17124	145.50	147.00	1.50		<5	<0.5	15	39	6.69	0.10	18	24	166	19	229
17125	147.00	148.50	1.50		<5	<0.5	8	27	3.46	0.11	8	8	72	27	107
17126	156.80	158.30	1.50		<5	<0.5	19	52	4.44	0.11	24	12	62	46	126
17127	166.45	167.05	0.60		5	<0.5	20	81	12.44	0.45	26	<2	94	46	175
17128	167.05	168.25	1.20		<5	<0.5	14	88	>15	0.66	22	4	68	56	160
17129	168.25	169.50	1.25		<5	<0.5	15	89	>15	0.81	25	6	70	56	165
17130	169.50	171.00	1.50		<5	<0.5	12	52	8.74	0.44	14	<2	54	49	106
17131	171.00	172.50	1.50		<5	<0.5	22	82	6.23	0.25	33	<2	78	51	160
17132	172.50	174.00	1.50		<5	<0.5	18	95	14.11	0.90	21	2	328	22	425
17133	174.00	175.50	1.50		<5	<0.5	35	154	12.08	0.54	63	4	156	50	314
17134	175.50	176.70	1.20		<5	<0.5	31	152	11.40	0.74	45	<2	100	60	252
17135	176.70	177.45	0.75		<5	<0.5	57	42	>15	0.11	142	16	384	10	442
17136	177.45	178.30	0.85		40	<0.5	28	193	>15	>1	50	8	86	69	287
17137	178.30	179.60	1.30		15	<0.5	77	399	13.72	0.17	108	56	234	63	689

MINES AGNTCO-EAGLE T.T.M.T.P.E.
ASSAY LOG

06-06-1991 :: 10:41

Sam.	From (m)	To (m)	Leng (m)	-----Comment-----	Au	Ag	Co	Cu	Re	Mn	Ni	Pb	Zn	Cu	Tot.
					ppb	ppm	ppm	ppm	%	%	ppm	ppm	ppm	Zn	Suf.
17138	179.60	180.65	1.05		5	<0.5	18	224	>15	0.48	22	32	454	33	710
17139	180.65	181.90	1.25		15	<0.5	22	140	10.96	0.33	20	10	152	48	302
17140	181.90	183.10	1.20		5	<0.5	36	233	14.50	0.25	35	24	68	77	325
17141	183.10	184.50	1.40		15	<0.5	20	194	5.65	0.17	24	6	90	68	290
17142	184.50	185.35	0.85		5	<0.5	40	167	13.21	0.13	47	16	244	41	427
17143	185.35	187.12	1.77		<5	<0.5	26	111	7.60	0.19	44	2	138	45	251



Essayeurs * Géochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn,
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922

JRC 001; P.0
 J9P 4N9

A9112337

Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE	A9112337
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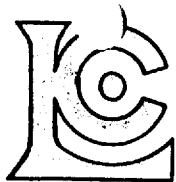
AGNICO-EAGLE DIVISION EXPLORATION

Project:
 P.O.#:

Samples submitted to our lab in Rouyn, PQ.
 This report was printed on 18-MAR-91.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	120	Geochem ring to approx 150 mesh Crush and split (0-10 pounds)
294	120	

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	120	Au ppb: Fuse 30 g sample	FA-AAS	5	10000



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Quebec, Canada J9X 5C3
PHONE: 819-797-1922

AGNICO-EAGLE DIVISION EXPLORATION
765 CHEMIN DE LA MINE GOLDEX, C.P. 87
VAL D'OR, PQ
J9P 4N9

Page Number : 2
Total Pages : 3
Certificate Date: 18-MAR-91
Invoice No. : 19112337
P.O. Number :

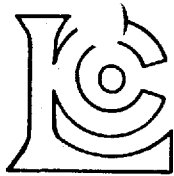
Project :
Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE OF ANALYSIS A9112337

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA										
14750	205 294	< 5										
14751	205 294	< 5										
14752	205 294	< 5										
14753	205 294	< 5										
14754	205 294	< 5										
14755	205 294	< 5										
14756	205 294	< 5										
14757	205 294	< 5										
14758	205 294	< 5										
14759	205 294	< 5										
14760	205 294	< 5										
14761	205 294	< 5										
14762	205 294	< 5										
14763	205 294	< 5										
14764	205 294	< 5										
14765	205 294	< 5										
14766	205 294	< 5										
14767	205 294	< 5										
14768	205 294	< 5										
15875	205 294	< 5										
15876	205 294	< 5										
15877	205 294	< 5										
15878	205 294	< 5										
15885	205 294	< 5										
15886	205 294	< 5										
15887	205 294	< 5										
15888	205 294	< 5										
15889	205 294	< 5										
15890	205 294	< 5										
15891	205 294	< 5										
15892	205 294	< 5										
15893	205 294	< 5										
15894	205 294	< 5										
15895	205 294	< 5										
15896	205 294	< 5										
15897	205 294	< 5										
15898	205 294	< 5										
15899	205 294	< 5										
15900	205 294	< 5										
16001	205 294	< 5										

80

CERTIFICATION:



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 175 Boul, Industriel C.P. 284, Rouyn,
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922

AGNICO-EAGLE DIVISION EXPLORATION
 765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
 J9P 4N9

A9112650

Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE	A9112650
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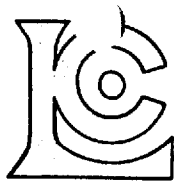
AGNICO-EAGLE DIVISION EXPLORATION

Project:
 P.O. #:

Samples submitted to our lab in Rouyn, PQ.
 This report was printed on 27-MAR-91.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	120	Geochem ring to approx 150 mesh
294	120	Crush and split (0-10 pounds)
238	42	NITRIC-AQUA REGIA DIGESTION

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	120	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
1005	42	Ag ppm: 9 element, soil and rock	ICP-AES	0.5	200
1929	42	Co ppm: 9 element, soil & rock	ICP-AES	1	10000
1931	42	Cu ppm: 9 element, soil & rock	ICP-AES	1	10000
1932	42	Fe %: 9 element, soil & rock	ICP-AES	0.01	15.00
1937	42	Mn ppm: 9 element, soil & rock	ICP-AES	5	10000
1938	42	Mo ppm: 9 element, soil & rock	ICP-AES	1	10000
1940	42	Ni ppm: 9 element, soil & rock	ICP-AES	1	10000
1004	42	Pb ppm: 9 element, soil and rock	ICP-AES	5	10000
1950	42	Zn ppm: 9 element, soil & rock	ICP-AES	2	10000



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 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922

to: AGNICO-EAGLE DIVISION EXPLORATION
 765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
 J9P 4N9

Page : 1
 Total Pages : 3
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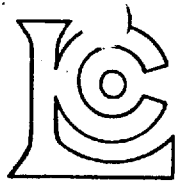
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 Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE OF ANALYSIS A9112650

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14769	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14770	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14771	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14772	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14773	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14774	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14775	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14776	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14777	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14778	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14779	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14780	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14781	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14782	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14783	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14784	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14785	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14786	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14787	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14788	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14789	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14790	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14791	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14792	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14793	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14794	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14795	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14796	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14797	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14798	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14799	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14800	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14801	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14802	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14803	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14804	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14805	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14806	205 294	< 5	< 0.5	4	7	4.08	2120	< 1	5	< 2	46
14807	205 294	< 5	< 0.5	2	5	4.97	1990	< 1	5	< 2	54
14808	205 294	< 5	< 0.5	6	12	5.08	1580	2	7	< 2	46

BD

CERTIFICATION: B. Capli



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 175 Boul. Industriel C.P. 284, Rouyn,
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922

b: AGNICO-EAGLE DIVISION EXPLORATION

765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
 J9P 4N9

Page Number : 2
 Total Pages : 3
 Certificate Date: 27-MAR-91
 Invoice No. : 19112650
 P.O. Number :

Project :

Comments: ATTN: STEFAN LOPATKA CC: FAX

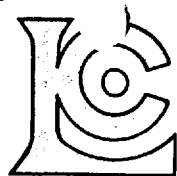
CERTIFICATE OF ANALYSIS A9112650

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14810	205 294	< 5	< 0.5	10	13	4.58	1580	< 1	9	< 2	44
14811	205 294	< 5	< 0.5	5	8	4.36	2450	< 1	6	< 2	38
14812	205 294	< 5	< 0.5	4	7	3.99	2070	< 1	7	< 2	34
14813	205 294	< 5	< 0.5	4	6	4.65	2180	< 1	7	< 2	34
14814	205 294	< 5	< 0.5	4	10	6.01	3080	< 1	8	< 2	44
14815	205 294	< 5	< 0.5	5	10	4.26	2460	< 1	6	< 2	30
14816	205 294	< 5	< 0.5	3	3	5.83	2590	< 1	5	< 2	38
14817	205 294	< 5	< 0.5	4	6	8.57	4360	< 1	5	< 2	44
14818	205 294	< 5	< 0.5	4	5	6.87	3590	< 1	5	< 2	38
14819	205 294	< 5	< 0.5	3	8	6.60	3180	< 1	4	< 2	42
14820	205 294	< 5	< 0.5	2	4	6.53	2950	< 1	3	< 2	42
14821	205 294	< 5	< 0.5	2	8	5.89	3160	< 1	3	< 2	40
14822	205 294	< 5	< 0.5	4	11	6.40	3350	< 1	7	< 2	44
14823	205 294	< 5	< 0.5	3	6	7.47	3320	< 1	4	< 2	56
14824	205 294	< 5	< 0.5	3	7	6.49	3290	< 1	4	< 2	52
14825	205 294	< 5	< 0.5	4	6	6.36	3090	< 1	4	< 2	48
14826	205 294	< 5	< 0.5	2	5	5.61	2740	< 1	3	< 2	38
14827	205 294	< 5	< 0.5	2	8	6.46	3730	< 1	3	< 2	46
14828	205 294	< 5	< 0.5	2	6	7.36	3300	< 1	3	< 2	42
14829	205 294	< 5	< 0.5	10	8	8.49	5620	< 1	21	< 2	48
14830	205 294	< 5	< 0.5	10	10	7.72	5160	< 1	22	< 2	50
14831	205 294	< 5	< 0.5	9	7	7.13	5870	< 1	21	< 2	46
14832	205 294	< 5	< 0.5	12	12	8.98	5220	< 1	18	< 2	52
14833	205 294	< 5	< 0.5	10	10	8.03	4830	< 1	21	< 2	48
14834	205 294	< 5	< 0.5	13	14	9.79	4870	< 1	18	< 2	60
14835	205 294	< 5	< 0.5	13	14	8.57	4640	< 1	22	< 2	60
14836	205 294	< 5	< 0.5	11	22	6.21	4680	< 1	17	< 2	42
14837	205 294	< 5	< 0.5	14	13	7.25	3210	< 1	26	< 2	56
14838	205 294	< 5	< 0.5	16	12	8.05	3680	< 1	28	< 2	50
14839	205 294	< 5	< 0.5	14	7	7.59	4100	< 1	26	< 2	36
14840	205 294	< 5	< 0.5	9	8	7.25	3530	< 1	24	< 2	36
14841	205 294	< 5	< 0.5	11	7	9.16	4330	< 1	22	< 2	44
14842	205 294	< 5	< 0.5	16	10	11.80	4880	< 1	33	2	60
14843	205 294	< 5	< 0.5	11	8	15.00	7100	< 1	23	4	68
14844	205 294	< 5	< 0.5	37	56	>15.00	9320	< 1	56	10	110
14845	205 294	< 5	< 0.5	13	7	11.85	7710	< 1	26	< 2	70
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14847	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14848	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

CERTIFICATION:

B. Coughlin



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn,
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922

b: AGNICO-EAGLE DIVISION EXPLORATION
 765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
 J9P 4N9

Page 1 of 3
 Total Pages : 3
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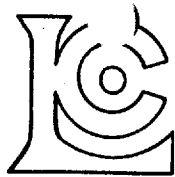
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 Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE OF ANALYSIS A9112650

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14850	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14851	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14852	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14853	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14854	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14855	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14856	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14857	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14858	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14859	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14860	205	294	40	-----	-----	-----	-----	-----	-----	-----	-----	-----
14861	205	294	770	-----	-----	-----	-----	-----	-----	-----	-----	-----
14862	205	294	115	-----	-----	-----	-----	-----	-----	-----	-----	-----
14863	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14864	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14865	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14866	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14867	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14868	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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14871	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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14873	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14874	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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14876	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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14878	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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14880	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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14882	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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14892	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14893	205	294	< 5	< 0.5	-----	9	3.22	1230	< 1	12	< 2	38
14894	205	294	< 5	< 0.5	-----	9	3.02	1015	< 1	10	< 2	40

CERTIFICATION: B. Coughlin

BD



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul, Industriel C.P. 284, Rouyn,
Quebec, Canada J9X 5C3
PHONE: 819-797-1922

AGNICO-EAGLE DIVISION EXPLORATION

765 CHEMIN DE LA MINE GOLDEX, C.P. 87
VAL D'OR, PQ
J9P 4N9

A9112651

Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE

A9112651

AGNICO-EAGLE DIVISION EXPLORATION

Project:
P.O. #:

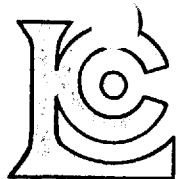
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 27-MAR-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	120	Geochem ring to approx 150 mesh
294	120	Crush and split (0-10 pounds)
238	35	NITRIC-AQUA REGIA DIGESTION

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	120	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
1005	35	Ag ppm: 9 element, soil and rock	ICP-AES	0.5	200
1929	35	Co ppm: 9 element, soil & rock	ICP-AES	1	10000
1931	35	Cu ppm: 9 element, soil & rock	ICP-AES	1	10000
1932	35	Fe %: 9 element, soil & rock	ICP-AES	0.01	15.00
1937	35	Mn ppm: 9 element, soil & rock	ICP-AES	5	10000
1938	35	Mo ppm: 9 element, soil & rock	ICP-AES	1	10000
1940	35	Ni ppm: 9 element, soil & rock	ICP-AES	1	10000
1004	35	Pb ppm: 9 element, soil and rock	ICP-AES	5	10000
1950	35	Zn ppm: 9 element, soil & rock	ICP-AES	2	10000



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
 175 Boul. Industriel C.P. 284, Rouyn,
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922

AGNICO-EAGLE DIVISION EXPLORATION
 765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
 J9P 4N9

Page No. : 1
 Total Pages : 3
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 Invoice No. : 19112651
 P.O. Number :

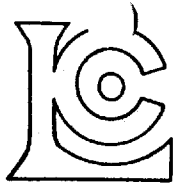
Project :
 Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE OF ANALYSIS A9112651

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
14895	205 294	< 5	< 0.5	7	13	2.78	830	< 1	9	2	44
14896	205 294	< 5	< 0.5	7	14	3.00	765	< 1	11	2	56
14897	205 294	< 5	< 0.5	5	15	2.39	525	1	9	10	54
14898	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14899	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14900	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14901	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14902	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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14906	205 294	10	-----	-----	-----	-----	-----	-----	-----	-----	-----
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14932	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14933	205 294	55	-----	-----	-----	-----	-----	-----	-----	-----	-----
14934	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----

BD

CERTIFICATION: B. Cough



Laboratoires Chemex Ltee.

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 175 Boul, Industriel C.P. 284, Rouyn,
 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922

AGNICO-EAGLE DIVISION EXPLORATION

765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
 J9P 4N9

Page No. : 2
 Total Pages : 3
 Certificate Date: 27-MAR-91
 Invoice No. : 19112651
 P.O. Number :

Project :
 Comments: ATTN: STEFAN LOPATKA CC: FAX

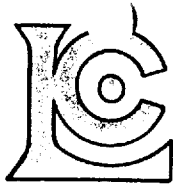
CERTIFICATE OF ANALYSIS A9112651

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14943	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14944	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14945	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14946	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14947	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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14950	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14951	205 294	20	< 0.5	22	144	>15.00	2210	< 1	47	6	136
14952	205 294	15	< 0.5	6	40	14.20	3120	< 1	16	< 2	144
14953	205 294	< 5	< 0.5	8	56	>15.00	3970	< 1	13	< 2	208
14954	205 294	< 5	< 0.5	2	143	13.35	2680	< 1	9	12	128
14955	205 294	< 5	< 0.5	2	59	13.05	2890	< 1	10	< 2	172
14956	205 294	< 5	< 0.5	6	70	9.78	2970	< 1	10	2	318
14957	205 294	20	< 0.5	46	463	10.65	1200	1	39	6	220
14958	205 294	110	< 0.5	46	258	>15.00	545	< 1	60	80	196
14959	205 294	< 5	< 0.5	3	10	4.16	505	1	8	< 2	98
14960	205 294	10	< 0.5	22	72	6.92	365	< 1	37	8	492
14961	205 294	< 5	< 0.5	3	14	4.82	420	1	7	< 2	98
14962	205 294	15	< 0.5	46	184	>15.00	3120	< 1	69	18	188
14963	205 294	< 5	< 0.5	29	70	>15.00	3770	< 1	65	2	226
14964	205 294	< 5	< 0.5	19	27	13.95	1130	< 1	90	< 2	180
14965	205 294	< 5	< 0.5	10	23	10.50	4210	< 1	24	< 2	50
14966	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14967	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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14972	205 294	35	< 0.5	46	82	7.61	2030	4	90	14	88
14973	205 294	15	< 0.5	18	108	11.20	2120	< 1	49	4	92
14974	205 294	< 5	< 0.5	10	51	10.90	2970	< 1	20	< 2	114

80

CERTIFICATION:

B. Coughlin



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AGNICO-EAGLE DIVISION EXPLORATION

765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
 J9P 4N9

Page No. : 3
 Total Pages : 3
 Certificate Date : 27-MAR-91
 Invoice No. : 19112651
 P.O. Number :

Project :
 Comments: ATTN: STEFAN LOPATKA CC: FAX

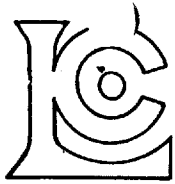
CERTIFICATE OF ANALYSIS A9112651

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14976	205 294	< 5	< 0.5	3	17	6.02	1860	< 1	9	< 2	40
14977	205 294	65	< 0.5	48	137	14.25	2570	< 1	101	20	130
14978	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14979	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14980	205 294	< 5	< 0.5	23	165	9.65	2400	< 1	48	< 2	146
14981	205 294	< 5	< 0.5	15	200	12.45	3440	< 1	33	4	146
14982	205 294	15	< 0.5	25	241	8.62	1875	< 1	46	12	224
14983	205 294	15	< 0.5	25	104	14.65	4820	< 1	41	4	226
14984	205 294	< 5	< 0.5	22	132	13.25	4550	< 1	38	6	158
14985	205 294	< 5	< 0.5	16	135	12.80	4410	< 1	34	2	150
14986	205 294	25	< 0.5	7	41	11.60	5900	< 1	13	2	204
14987	205 294	30	< 0.5	27	135	7.87	2050	< 1	56	10	168
14988	205 294	< 5	< 0.5	6	43	11.60	5780	< 1	17	< 2	116
14989	205 294	10	< 0.5	34	160	12.55	3200	< 1	73	4	212
14990	205 294	< 5	< 0.5	21	50	4.64	795	1	46	2	68
16125	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16131	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16132	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16133	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16134	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16135	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16136	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16137	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16145	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16162	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16163	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16164	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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16166	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16167	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16168	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16169	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16170	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16171	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16172	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16173	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16181	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16182	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16183	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----

BD

CERTIFICATION:

B. Conklin



Laboratoires Chemex Ltee.

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Quebec, Canada J9X 5C3
PHONE: 819-797-1922

AGNICO-EAGLE DIVISION EXPLORATION
765 CHEMIN DE LA MINE GOLDEX, C.P. 87
VAL D'OR, PQ
J9P 4N9

A9112653

Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE

A9112653

AGNICO-EAGLE DIVISION EXPLORATION

Project:
P.O. #:

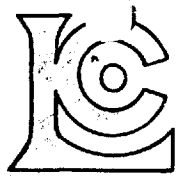
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 19-MAR-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	16	Geochem ring to approx 150 mesh Crush and split (0-10 pounds)
294	16	

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	16	Au ppb: Fuse 30 g sample	FA-AAS	5	10000



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AGNICO-EAGLE DIVISION EXPLORATION

765 CHEMIN DE LA MINE GOLDEX, C.P. 87
VAL D'OR, PQ
J9P 4N9

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Total Pages : 1
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Invoice No. : 19112653
P.O. Number :

Project :
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CERTIFICATE OF ANALYSIS

A9112653

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA										
14744R	205 294	10										
14745R	205 294	10										
14746R	205 294	15										
14886R	205 294	35										
14887R	205 294	15										
14888R	205 294	10										
14889R	205 294	10										
14890R	205 294	10										
14891R	205 294	10										
16174R	205 294	15										
16175R	205 294	10										
16176R	205 294	5										
16177R	205 294	15										
16178R	205 294	< 5										
16179R	205 294	< 5										
16180R	205 294	< 5										

Adriana Alexandre
CERTIFICATION



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique

175 Boul, Industriel C.P. 284, Rouyn,

Quebec, Canada J9X 5C3

PHONE: 819-797-1922

765 CHEMIN DE LA MINE GOLDEX, C.P. 87

VAL D'OR, PQ

J9P 4N9

A9113008

Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE

A9113008

AGNICO-EAGLE DIVISION EXPLORATION

Project:

P.O.#:

Samples submitted to our lab in Rouyn, PQ.

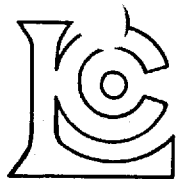
This report was printed on 9-APR-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	120	Geochem ring to approx 150 mesh
294	120	Crush and split (0-10 pounds)
238	54	NITRIC-AQUA REGIA DIGESTION

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	120	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
1005	54	Ag ppm: 9 element, soil and rock	ICP-AES	0.5	200
1929	54	Co ppm: 9 element, soil & rock	ICP-AES	1	10000
1931	54	Cu ppm: 9 element, soil & rock	ICP-AES	1	10000
1932	54	Fe %: 9 element, soil & rock	ICP-AES	0.01	15.00
1937	54	Mn ppm: 9 element, soil & rock	ICP-AES	5	10000
1938	54	Mo ppm: 9 element, soil & rock	ICP-AES	1	10000
1940	54	Ni ppm: 9 element, soil & rock	ICP-AES	1	10000
1004	54	Pb ppm: 9 element, soil and rock	ICP-AES	5	10000
1950	54	Zn ppm: 9 element, soil & rock	ICP-AES	2	10000



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AGNICO-EAGLE DIVISION EXPLORATION
 765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
 J9P 4N9

Page Nbr : 1
 Total Pages : 3
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 Invoice No. : 19113008
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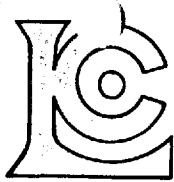
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CERTIFICATE OF ANALYSIS A9113008

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14993	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14994	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14995	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14996	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14997	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14998	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
14999	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
15000	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16292	205 294	< 5	< 0.5	3	32	1.55	510	< 1	2	< 2	16
16293	205 294	< 5	< 0.5	3	15	1.89	530	< 1	2	< 2	14
16294	205 294	< 5	< 0.5	4	15	1.59	435	< 1	3	< 2	12
16295	205 294	< 5	< 0.5	4	17	1.98	425	< 1	4	< 2	18
16296	205 294	< 5	< 0.5	3	11	2.37	475	< 1	3	< 2	18
16297	205 294	< 5	< 0.5	4	7	2.91	715	< 1	4	< 2	22
16298	205 294	10	< 0.5	5	14	1.91	525	< 1	5	< 2	18
16299	205 294	< 5	< 0.5	10	11	4.06	310	< 1	21	58	128
16300	205 294	< 5	< 0.5	15	40	5.62	945	< 1	27	6	80
16301	205 294	< 5	< 0.5	15	45	3.53	675	< 1	25	2	62
16302	205 294	< 5	< 0.5	4	11	1.70	415	< 1	3	< 2	44
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16310	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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16313	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
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16315	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
16316	205 294	< 5	< 0.5	4	2	1.45	355	< 1	9	< 2	20
16317	205 294	< 5	< 0.5	17	23	8.11	2010	< 1	21	< 2	82
16318	205 294	< 5	< 0.5	15	21	9.69	2890	< 1	17	< 2	66
16319	205 294	< 5	< 0.5	18	18	12.40	3850	< 1	24	< 2	100
16320	205 294	< 5	< 0.5	24	26	5.57	1555	< 1	26	< 2	74
16321	205 294	< 5	< 0.5	13	8	3.36	800	< 1	17	< 2	48

CERTIFICATION:

B. Cough



Laboratoires Chemex Ltee.

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175 Boul, Industriel C.P. 284, Rouyn,
Quebec, Canada J9X 5C3
PHONE: 819-797-1922

b: AGNICO-EAGLE DIVISION EXPLORATION
765 CHEMIN DE LA MINE GOLDEX, C.P. 87
VAL D'OR, PQ
J9P 4N9

A9113009

Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE

A9113009

AGNICO-EAGLE DIVISION EXPLORATION

Project:
P.O. #:

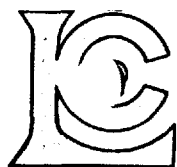
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 5-APR-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205 294	120 120	Geochem ring to approx 150 mesh Crush and split (0-10 pounds)

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	120	Au ppb: Fuse 30 g sample	FA-AAS	5	10000



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Quebec, Canada J9X 5C3
PHONE: 819-797-1922

To: AGNICO-EAGLE DIVISION EXPLORATION

765 CHEMIN DE LA MINE GOLDEX, C.P. 87
VAL D'OR, PQ
J9P 4N9

Page Number : 3
Total Pages : 3
Certificate Date: 05-APR-91
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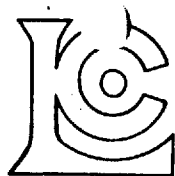
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Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE OF ANALYSIS A9113009

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16497	205 294	< 5										
16498	205 294	< 5										
16499	205 294	< 5										
16500	205 294	< 5										
16503	205 294	< 5										
16504	205 294	< 5										
16505	205 294	< 5										
16506	205 294	< 5										
16507	205 294	< 5										
16508	205 294	< 5										
16509	205 294	< 5										
16510	205 294	< 5										
16511	205 294	< 5										
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16517	205 294	< 5										
16518	205 294	< 5										
16519	205 294	< 5										
16520	205 294	< 5										
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16535	205 294	< 5										
17001	205 294	< 5										
17002	205 294	< 5										
17003	205 294	< 5										
17004	205 294	< 5										

B2

CERTIFICATION: Stefan Lopatka



Laboratoires Chemex Ltee.

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175 Boul. Industriel C.P. 284, Rouyn,
Quebec, Canada J9X 5C3
PHONE: 819-797-1922

b: AGNICO-EAGLE DIVISION EXPLORATION

765 CHEMIN DE LA MINE GOLDEX, C.P. 87
VAL D'OR, PQ
J9P 4N9

A9113010

Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE

A9113010

AGNICO-EAGLE DIVISION EXPLORATION

Project:
P.O. #:

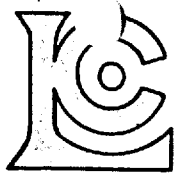
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 10-APR-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	120	Geochem ring to approx 150 mesh
294	120	Crush and split (0-10 pounds)
238	111	NITRIC-AQUA REGIA DIGESTION

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	120	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
1005	111	Ag ppm: 9 element, soil and rock	ICP-AES	0.5	200
1929	111	Co ppm: 9 element, soil & rock	ICP-AES	1	10000
1931	111	Cu ppm: 9 element, soil & rock	ICP-AES	1	10000
1932	111	Fe %: 9 element, soil & rock	ICP-AES	0.01	15.00
1937	111	Mn ppm: 9 element, soil & rock	ICP-AES	5	10000
1938	111	Mo ppm: 9 element, soil & rock	ICP-AES	1	10000
1940	111	Ni ppm: 9 element, soil & rock	ICP-AES	1	10000
1004	111	Pb ppm: 9 element, soil and rock	ICP-AES	5	10000
1950	111	Zn ppm: 9 element, soil & rock	ICP-AES	2	10000



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AGNICO-EAGLE DIVISION EXPLORATION
 765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
 J9P 4N9

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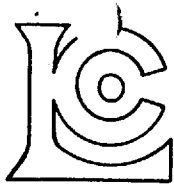
CERTIFICATE OF ANALYSIS A9113010

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
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17006	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17007	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17008	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17009	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17010	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17011	205 294	< 5	< 0.5	10	22	9.09	2350	< 1	9	< 2	108
17012	205 294	< 5	< 0.5	8	23	8.37	2080	< 1	10	4	152
17013	205 294	< 5	< 0.5	15	26	3.76	840	< 1	29	4	76
17014	205 294	< 5	< 0.5	5	17	7.80	2110	< 1	4	2	74
17015	205 294	< 5	< 0.5	5	22	2.08	630	< 1	3	2	38
17016	205 294	< 5	< 0.5	35	105	6.13	1135	< 1	96	8	70
17017	205 294	< 5	< 0.5	33	98	5.67	1120	< 1	90	2	62
17018	205 294	< 5	< 0.5	32	102	6.15	1510	< 1	87	< 2	70
17019	205 294	< 5	< 0.5	35	98	6.08	1235	< 1	95	< 2	66
17020	205 294	< 5	< 0.5	13	28	2.71	900	< 1	10	8	186
17021	205 294	< 5	< 0.5	9	23	1.23	450	< 1	6	6	42
17022	205 294	< 5	< 0.5	26	75	8.50	1430	< 1	105	8	212
17023	205 294	< 5	< 0.5	6	27	2.98	430	< 1	7	4	24
17024	205 294	< 5	< 0.5	30	90	5.58	1200	< 1	88	< 2	102
17025	205 294	< 5	< 0.5	6	60	5.18	660	< 1	4	4	42
17026	205 294	15	< 0.5	71	240	10.85	1435	< 1	73	42	96
17027	205 294	< 5	< 0.5	7	235	>15.00	7280	< 1	7	< 2	50
17028	205 294	30	< 0.5	85	338	14.30	2450	< 1	53	22	94
17029	205 294	< 5	< 0.5	14	65	>15.00	4010	< 1	17	< 2	60
17030	205 294	< 5	< 0.5	36	128	7.62	1620	< 1	71	< 2	84
17031	205 294	5	< 0.5	39	136	12.60	2210	< 1	72	4	254
17032	205 294	10	< 0.5	36	97	7.54	1785	< 1	77	2	76
17033	205 294	< 5	< 0.5	35	133	6.18	1210	< 1	96	4	78
17034	205 294	< 5	< 0.5	34	113	4.02	1255	< 1	67	2	62
17035	205 294	5	< 0.5	45	150	5.03	1330	< 1	73	< 2	74
17036	205 294	10	< 0.5	35	132	7.14	1340	< 1	51	< 2	100
17037	205 294	< 5	< 0.5	11	59	8.42	4090	< 1	7	< 2	22
17038	205 294	10	< 0.5	36	689	>15.00	2750	< 1	36	10	154
17039	205 294	< 5	< 0.5	19	137	8.70	2680	< 1	17	< 2	46
17040	205 294	10	< 0.5	16	98	>15.00	3010	< 1	19	8	80
17041	205 294	5	< 0.5	10	28	>15.00	4920	< 1	15	< 2	34
17042	205 294	10	< 0.5	22	85	>15.00	7840	< 1	29	12	68
17043	205 294	< 5	< 0.5	16	68	13.35	5810	< 1	24	4	42
17044	205 294	< 5	< 0.5	4	10	2.63	1095	< 1	3	2	40

B2

CERTIFICATION:

B. Coughlin



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AGNICO-EAGLE DIVISION EXPLORATION
 765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
 J9P 4N9

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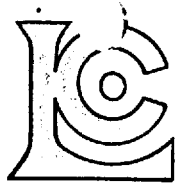
CERTIFICATE OF ANALYSIS A9113010

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
17045	205 294	< 5	< 0.5	2	12	1.69	1145	< 1	2	14	26
17046	205 294	< 5	< 0.5	5	8	1.89	1175	< 1	4	4	32
17047	205 294	< 5	< 0.5	9	10	2.60	1070	< 1	6	4	48
17048	205 294	< 5	< 0.5	7	10	2.88	900	< 1	4	2	46
17049	205 294	< 5	< 0.5	9	11	3.26	840	< 1	7	< 2	52
17050	205 294	< 5	< 0.5	11	42	3.33	855	2	12	2	66
17051	205 294	< 5	< 0.5	8	173	2.61	700	< 1	7	< 2	40
17052	205 294	< 5	< 0.5	19	89	4.64	1225	< 1	56	4	68
17053	205 294	10	< 0.5	10	21	7.24	2250	< 1	7	6	86
17054	205 294	5	< 0.5	15	33	6.67	2260	< 1	13	4	78
17055	205 294	30	< 0.5	19	23	6.53	1505	< 1	21	4	42
17056	205 294	5	< 0.5	15	18	4.95	1675	< 1	14	6	30
17057	205 294	< 5	< 0.5	8	9	3.55	1835	< 1	5	2	22
17058	205 294	< 5	< 0.5	13	14	5.84	2020	< 1	11	2	54
17059	205 294	< 5	< 0.5	8	11	4.48	2030	< 1	7	2	38
17060	205 294	< 5	< 0.5	20	11	7.53	2980	< 1	18	6	80
17061	205 294	< 5	< 0.5	18	8	6.03	2760	< 1	17	6	56
17062	205 294	< 5	< 0.5	20	9	5.58	2200	< 1	19	2	44
17063	205 294	< 5	< 0.5	18	7	8.90	3560	< 1	15	4	74
17064	205 294	5	< 0.5	28	16	10.25	2500	< 1	28	18	70
17065	205 294	10	< 0.5	22	21	8.94	1850	< 1	33	12	82
17066	205 294	5	< 0.5	24	31	10.35	2050	< 1	27	10	108
17067	205 294	130	< 0.5	14	44	7.78	2130	< 1	14	6	78
17068	205 294	270	< 0.5	10	22	6.04	1435	< 1	7	2	70
17069	205 294	< 5	< 0.5	14	20	7.01	2590	< 1	15	6	82
17070	205 294	5	< 0.5	10	20	2.84	965	< 1	9	2	22
17071	205 294	< 5	< 0.5	12	26	2.72	775	< 1	9	< 2	456
17072	205 294	< 5	< 0.5	10	21	6.37	1580	< 1	8	2	130
17073	205 294	< 5	< 0.5	13	15	2.62	965	< 1	23	2	26
17074	205 294	< 5	< 0.5	14	7	2.75	475	1	10	2	46
17075	205 294	25	< 0.5	55	85	>15.00	4050	< 1	46	58	88
17076	205 294	5	< 0.5	16	14	>15.00	>10000	< 1	23	12	144
17077	205 294	115	< 0.5	59	125	>15.00	3120	< 1	66	72	82
17078	205 294	35	< 0.5	36	83	13.50	4360	< 1	30	8	148
17079	205 294	5	< 0.5	8	8	3.33	910	1	21	6	36
17080	205 294	5	< 0.5	9	56	2.97	955	< 1	32	4	46
17081	205 294	10	< 0.5	3	11	3.08	1820	1	4	4	48
17082	205 294	5	< 0.5	5	6	1.87	1065	1	4	2	44
17083	205 294	5	< 0.5	10	27	5.62	1630	< 1	13	6	730
17084	205 294	5	< 0.5	14	31	8.01	2740	< 1	17	8	118

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CERTIFICATION:

B. Cagli



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 Quebec, Canada J9X 5C3
 PHONE: 819-797-1922

b: AGNICO-EAGLE DIVISION EXPLORATION
 765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
 J9P 4N9

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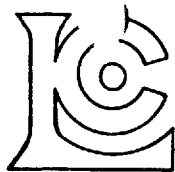
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 Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE OF ANALYSIS A9113010

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
17085	205	294	< 5	< 0.5	17	32	8.67	3050	< 1	15	2	88
17086	205	294	< 5	< 0.5	17	60	8.04	3720	< 1	15	10	90
17087	205	294	< 5	< 0.5	11	19	6.17	2690	< 1	6	< 2	74
17088	205	294	< 5	< 0.5	20	34	5.14	3120	< 1	69	4	78
17089	205	294	< 5	< 0.5	31	64	12.60	2170	< 1	26	10	82
17090	205	294	< 5	< 0.5	9	63	4.03	1965	< 1	10	< 2	86
17091	205	294	< 5	< 0.5	15	57	6.12	1380	< 1	16	10	52
17092	205	294	< 5	< 0.5	12	35	5.54	1535	< 1	9	2	32
17093	205	294	< 5	< 0.5	20	221	8.26	2270	< 1	22	< 2	68
17094	205	294	< 5	< 0.5	10	46	4.75	1330	< 1	9	4	42
17095	205	294	< 5	< 0.5	8	58	3.79	1150	< 1	14	< 2	36
17096	205	294	< 5	< 0.5	26	42	5.03	1175	< 1	124	2	70
17097	205	294	< 5	< 0.5	17	20	3.35	1530	< 1	83	< 2	52
17098	205	294	10	-----	-----	-----	-----	-----	-----	-----	-----	-----
17099	205	294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17100	205	294	5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17101	205	294	< 5	< 0.5	37	108	5.65	885	< 1	116	6	80
17102	205	294	< 5	< 0.5	30	66	4.75	740	< 1	101	2	56
17103	205	294	< 5	< 0.5	38	135	4.78	670	< 1	125	2	54
17104	205	294	< 5	< 0.5	34	158	4.01	555	< 1	116	14	44
17105	205	294	< 5	< 0.5	28	55	3.61	540	< 1	101	< 2	40
17106	205	294	< 5	< 0.5	37	42	4.44	1595	< 1	122	4	128
17107	205	294	< 5	< 0.5	42	72	6.11	1395	< 1	142	48	82
17108	205	294	< 5	< 0.5	30	43	4.20	1705	< 1	112	4	64
17109	205	294	30	< 0.5	19	255	>15.00	380	< 1	61	28	218
17110	205	294	40	< 0.5	19	356	>15.00	265	< 1	77	38	240
17111	205	294	30	< 0.5	26	443	>15.00	325	< 1	114	26	320
17112	205	294	5	< 0.5	20	122	>15.00	315	< 1	72	22	148
17113	205	294	50	7.5	94	332	13.60	275	20	126	34	106
17114	205	294	< 5	< 0.5	7	47	12.40	205	< 1	33	2	114
17115	205	294	45	9.5	90	345	13.00	175	1	128	36	90
17116	205	294	5	< 0.5	15	154	8.71	125	2	33	42	104
17117	205	294	< 5	< 0.5	3	43	>15.00	270	< 1	15	4	78
17118	205	294	< 5	< 0.5	4	32	>15.00	185	< 1	11	< 2	76
17119	205	294	< 5	< 0.5	4	58	7.38	100	< 1	11	6	38
17120	205	294	< 5	< 0.5	12	34	3.47	1370	< 1	17	16	62
17121	205	294	< 5	< 0.5	10	30	10.25	4260	< 1	10	44	100
17122	205	294	< 5	< 0.5	10	28	7.01	3160	< 1	6	14	104
17123	205	294	< 5	< 0.5	8	22	4.08	1305	< 1	8	10	92
17124	205	294	< 5	< 0.5	15	39	6.69	995	< 1	18	24	166

CERTIFICATION:

B. Coughlin



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175 Boul. Industriel C.P. 284, Rouyn,
Quebec, Canada J9X 5C3
PHONE: 819-797-1922

AGNICO-EAGLE DIVISION EXPLORATION

765 CHEMIN DE LA MINE GOLDEX, C.P. 87
VAL D'OR, PQ
J9P 4N9

A9113011

Comments: ATTN: STEFAN LOPATKA CC: FAX

CERTIFICATE

A9113011

AGNICO-EAGLE DIVISION EXPLORATION

Project:
P.O.#:

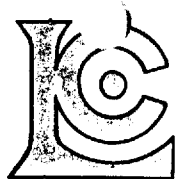
Samples submitted to our lab in Rouyn, PQ.
This report was printed on 10-APR-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	26	Geochem ring to approx 150 mesh
294	26	Crush and split (0-10 pounds)
238	19	NITRIC-AQUA REGIA DIGESTION

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	26	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
1005	19	Ag ppm: 9 element, soil and rock	ICP-AES	0.5	200
1929	19	Co ppm: 9 element, soil & rock	ICP-AES	1	10000
1931	19	Cu ppm: 9 element, soil & rock	ICP-AES	1	10000
1932	19	Fe %: 9 element, soil & rock	ICP-AES	0.01	15.00
1937	19	Mn ppm: 9 element, soil & rock	ICP-AES	5	10000
1938	19	Mo ppm: 9 element, soil & rock	ICP-AES	1	10000
1940	19	Ni ppm: 9 element, soil & rock	ICP-AES	1	10000
1004	19	Pb ppm: 9 element, soil and rock	ICP-AES	5	10000
1950	19	Zn ppm: 9 element, soil & rock	ICP-AES	2	10000



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AGNICO-EAGLE DIVISION EXPLORATION
 765 CHEMIN DE LA MINE GOLDEX, C.P. 87
 VAL D'OR, PQ
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Project :
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CERTIFICATE OF ANALYSIS A9113011

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm	Co ppm	Cu ppm	Fe %	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
17125	205 294	< 5	< 0.5	8	27	3.46	1100	< 1	8	8	72
17126	205 294	< 5	< 0.5	19	52	4.44	1145	< 1	24	12	62
17127	205 294	< 5	< 0.5	20	81	12.45	4530	< 1	26	< 2	94
17128	205 294	< 5	< 0.5	14	88	>15.00	6560	< 1	22	4	68
17129	205 294	< 5	< 0.5	15	89	>15.00	8100	< 1	25	6	70
17130	205 294	< 5	< 0.5	12	52	8.74	4390	< 1	14	< 2	54
17131	205 294	< 5	< 0.5	22	82	6.23	2540	< 1	33	< 2	78
17132	205 294	< 5	< 0.5	18	95	14.10	9000	< 1	21	2	328
17133	205 294	< 5	< 0.5	35	154	12.10	5370	< 1	63	4	156
17134	205 294	< 5	< 0.5	31	152	11.40	7440	< 1	45	< 2	100
17135	205 294	< 5	< 0.5	57	42	>15.00	1135	< 1	142	16	384
17136	205 294	40	< 0.5	28	193	>15.00	>10000	< 1	50	8	86
17137	205 294	15	< 0.5	77	399	13.70	1715	< 1	108	56	234
17138	205 294	5	< 0.5	18	224	>15.00	4790	< 1	22	32	454
17139	205 294	15	< 0.5	22	140	10.95	3310	< 1	20	10	152
17140	205 294	5	< 0.5	36	233	14.50	2510	< 1	35	24	68
17141	205 294	15	< 0.5	20	194	5.65	1740	< 1	24	6	90
17142	205 294	5	< 0.5	40	167	13.20	1300	< 1	47	16	244
17143	205 294	< 5	< 0.5	26	111	7.60	1875	< 1	44	2	138
17144	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17145	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17146	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17147	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17148	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17149	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----
17150	205 294	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----

BD

CERTIFICATION: B. Coughlin