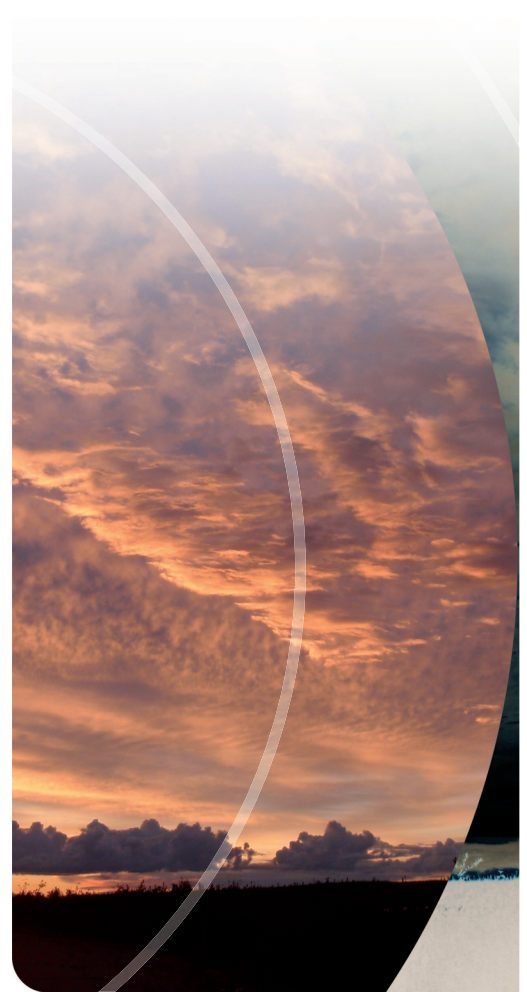


# NEW MINERAL EXPLORATION TARGETS

## 2012 GEOSCIENCE PROJECTS



# New Mineral Exploration Targets

## 2012 Geoscience Projects

### PRO 2012-06

#### Introduction

Géologie Québec presents all the targets of economic interest identified during its 2012 geoscience projects. Geoscience knowledge acquisition is one of the main missions of Géologie Québec. This knowledge is acquired in order to encourage the mining industry to develop Québec's mineral resources by increasing exploration activity and discovering new deposits.

During their fieldwork, geologists of the Ministère des Ressources naturelles identified zones with a favourable geological setting for mineral exploration. These areas of interest have not been studied in detail but warrant further investigations by exploration companies. Newly acquired data on these areas of interest will be made public during Québec Mines 2012.

#### 2012 Mineral Exploration Targets

In this document, a target corresponds to a zone where the geological setting is favourable for mineral exploration. The data provided on these targets are essentially based on field observations and are not, for the moment, archived in Québec's Geomining Information System (SIGEOM). They may eventually be classified as a "showing" once their economic value has been confirmed, notably by geochemical analyses.

As a result of the geoscience projects completed in 2012, 61 targets have been identified. There are three categories of

targets: (1) punctual targets measuring less than 100 metres, (2) local targets between 100 metres and 1 kilometre in size, and (3) regional targets greater than 1 kilometre in size.

Target locations are shown on the map of Québec and briefly described in a table including, among other, their precise geographical location, the name of the project from which they originate and the corresponding poster number. For further information, those who plan to attend Québec Mines 2012 are invited to consult the posters of knowledge acquisition projects and meet the project geologists, to find out more about these new exploration targets and about the mineral potential in Québec's various regions. In addition, these various targets are located on the site "Gestion des titres miniers, GESTIM" at the following address:

[https://gestim.mines.gouv.qc.ca/MRN\\_GestimP\\_Presentation/ODM02101\\_login.aspx](https://gestim.mines.gouv.qc.ca/MRN_GestimP_Presentation/ODM02101_login.aspx)

For further details concerning our geoscience knowledge acquisition projects, interested parties can inquire at the Bureau d'exploration géologique du Québec or communicate by e-mail with the persons in charge:

Bureau d'exploration géologique du Québec  
400, boulevard Lamaque, bureau 1.02  
Val-d'Or (Québec) J9P 3L4  
Phone: 819 354-4514  
Fax: 819 354-4508

Contact	Project	E-mail
Jean Goutier, regional geologist Claude Dion, metallogenist	Mapping – Lac Pelletan area, Baie-James	jean.goutier@mrnf.gouv.qc.ca daniel.bandyayera@mrnf.gouv.qc.ca
Hanafi Hammouche, regional geologist Pénélope Burniaux, metallogenist	Mapping – Lac Carmoy area, Baie-James	isabelle.damours@mrnf.gouv.qc.ca
Daniel Bandyayera, regional geologist Isabelle Lafrance, regional geologist	Mapping – Lac Saffray area, Churchill SE	hanafi.hammouche@mrnf.gouv.qc.ca isabelle.lafrance@mrnf.gouv.qc.ca
François Leclerc, regional geologist	Mapping and compilation – Lac Lamarck area, Chapais-Chibougamau	francois.leclerc@mrnf.gouv.qc.ca
Abdelali Moukhsil, regional geologist- Fabien Solgadi, regional geologist	Mapping – Outardes 4 reservoir area	abdelali.moukhsil@mrnf.gouv.qc.ca fabien.solgadi@mrnf.gouv.qc.ca
Pierre Pilote, metallogenist	Mapping and compilation – Malartic area	pierre.pilote@mrnf.gouv.qc.ca
Pierre-Luc Deschênes, regional geologist Guillaume Allard, quaternary geologist	Mapping, compilation and overburden drilling – Wawagosic Project	pierre-luc.deschenes@mrnf.gouv.qc.ca guillaume.allard@mrnf.gouv.qc.ca
Charles Maurice, regional geologist	Geochemistry – Lake-bottom sediment ICPMS reanalysis	charles.maurice@mrn.gouv.qc.ca

Please note that other areas of economic interest identified through an evaluation of the potential for orogenic gold mineralization north of the Ungava Orogen will also be presented at the Québec Mining 2012, poster 359. Finally, other targets have been identified during 2012 in the following publications:

D'AMOURS, I. – SIMARD, M., 2012 – Exploration targets determined from spectrometric data in the Lac Le Moine and Rivière Koksoak areas, Churchill Province. Ministère des Ressources naturelles et de la Faune; PRO 2012-02 8 pages. [This document identifies new exploration targets including 10 uranium-dominant targets from two geophysical airborne magnetic and gamma ray spectrometry surveys over Labrador Trough area and Core Zone of the Churchill Province].

MAURICE, C. – LAMOTHE, D., 2012 – Nouveau levé géochimique de sédiments de lac dans l'extrême nord du Québec. Ministère des Ressources naturelles et de la Faune; PRO 2012-03, 10 pages. [This document identifies 14 areas of interest not covered by mining titles as January 30, 2012].

Editing: Charles Gosselin  
Compilation of data: Claude Dion  
Graphic arts: André Tremblay

[www.mrn.gouv.qc.ca/produits-services/mines.jsp](http://www.mrn.gouv.qc.ca/produits-services/mines.jsp)  
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Number and Name	Size	Localisation (UTM NAD83)	NTS Sheet	Project	Poster	Person(s) in charge	Substance(s)	Description
<b>Superior Provinces (Far North) – Nord-du-Québec administrative region</b>								
(1) 1997052417	Regional	<b>Zone 18V</b> 396156 mE 6713414 mN	35C10	Geochemistry – Lake-bottom sediment ICPMS reanalysis	358	Charles Maurice		Samples anomalous in Bi and Te ( $\geq$ 99th percentile of 18 543 samples). Among the 17 anomalous samples, 11 are associated with gold mineralization. The six samples presented here are located in sectors free to exploration.
(2) 1997058598	Regional	<b>Zone 18V</b> 424892 mE 6636360 mN	34N16	Geochemistry – Lake-bottom sediment ICPMS reanalysis	358	Charles Maurice		
(3) 1997024939	Regional	<b>Zone 18V</b> 564740 mE 6487854 mN	34I12	Geochemistry – Lake-bottom sediment ICPMS reanalysis	358	Charles Maurice		
(4) 1997025393	Regional	<b>Zone 18V</b> 650704 mE 6502515 mN	34I09	Geochemistry – Lake-bottom sediment ICPMS reanalysis	358	Charles Maurice	Au	
(5) 1997028248	Regional	<b>Zone 19V</b> 333551 mE 6427306 mN	24E13	Geochemistry – Lake-bottom sediment ICPMS reanalysis	358	Charles Maurice		
(6) 1997002140	Regional	<b>Zone 19V</b> 319797 mE 6242199 mN	24D05	Geochemistry – Lake-bottom sediment ICPMS reanalysis	358	Charles Maurice		
<b>Churchill Province (Far North) – Nord-du-Québec administrative region</b>								
(7) Koksoak	Local	<b>Zone 19V</b> 495491 mE 6424796 mN	24F14	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Ni-Cu-PGE	Numerous rusted and sulphidic zones, one of them 100 m X 20 m located at the contact of GR-rich metasediment and a > 500 m X 200 m differentiated ultramafic intrusion
(8) Kawasikustiau	Local	<b>Zone 19V</b> 485149 mE 6424482 mN	24F14	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Zn-Cu-Mo	Several rusted zones at a metasediment-amphibolite contact; 20 m X 50 m extent; 15 to 20 % disseminated sulphides (PO-CP-SP); metric layers of brecciated massive sulphides; 0.17 % Zn, 150 ppm Mo, 200 ppm Cu and 40 ppb Pt.
(9) Le Moyne - Nord	Regional	<b>Zone 19V</b> 540672 mE 6345668 mN	24F08	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Cu-Zn	Metric to decametric rusted zones in amphibolitized basalts cut by QZ-CB veins; 5 to 7 % disseminated sulphides or veinlets (PO-CP); four outcrops spreading 3.2 km; 760 ppm Cu and 450 ppm Zn.
(10) Hérodier - Est	Regional	<b>Zone 19V</b> 536165 mE 6367625 mN	24F08	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Cu-Zn-Au	Metric rusted zones spreading over 10 km, along a 1 km wide regional magnetic lineament; mineralization associated with metasediments, amphibolites and schists with 1 to 5 % disseminated sulphides.
(11) Scattered	Regional	<b>Zone 19V</b> 506689 mE 6417947 mN	24F15	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Ni-Cu-PGE	Three silvers of amphibolitized gabbro exposed over 2.5 km, related to a Ni spatial regression target in lake-bottom sediment (Lamothe, 2010). Several 1 to 10 m wide rusted zones with disseminated sulphides (PO-CP).
(12) Hérodier - Nord	Ponctual	<b>Zone 19V</b> 524689 mE 6366215 mN	24F07	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Zn-Cu	Decimetric to metric schistose and altered (Cl+ and CC+) zones with <20 % disseminated sulphides (PY-PO) in a sequence of amphibolitized basalts and muscovite metasediments; 830 ppm Zn and 130 ppm Cu.
(13) Papirualik	Ponctual	<b>Zone 19V</b> 519788 mE 6374755 mN	24F10	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Cu-Zn-Au	Metric zones with <12 % sulphides in schistose amphibolitized basalts associated with a strongly altered (EP+, Si+ and CC+) NW-SE fault zone and a group of NW-SE magnetic lineaments.
(14) JO	Ponctual	<b>Zone 19V</b> 563453 mE 6324672 mN	24G04	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Cu-Zn-Au	Rusted zone with sulphides; >200 m X 50 m, in schistose amphibolitized basalts. Coincide with a 450 m wide NW-SE magnetic lineament visible for >20 km.
(15) Dupuy	Ponctual	<b>Zone 19V</b> 480160 mE 6427402 mN	24F14	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Cu-Zn	Rusted zones, approx. 10 m X 5 m, in a sequence of graphitic mudstones and schistose muscovite metasediments. Coincide with Cu, Y, U and La lake-bottom sediment anomalies (Lamothe, 2010).
(16) Glover	Local	<b>Zone 19V</b> 562735 mE 6341885 mN	24G04	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Zn-Cu	Two rusted outcrops, 950 m apart, in a sequence of migmatized paragneiss and amphibolitized diorite; 5 to 10 % disseminated sulphides (PO-CP); 300 ppm Zn.
(17) Uqaituk	Ponctual	<b>Zone 19V</b> 668195 mE 6419508 mN	24G16	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Ni-Cu	Rusted zones, 10 m X 5 m, in amphibolitized gabbro; 2 to 5 % disseminated sulphides (PO-PY); 200 ppm Cu and 210 ppm Zn.

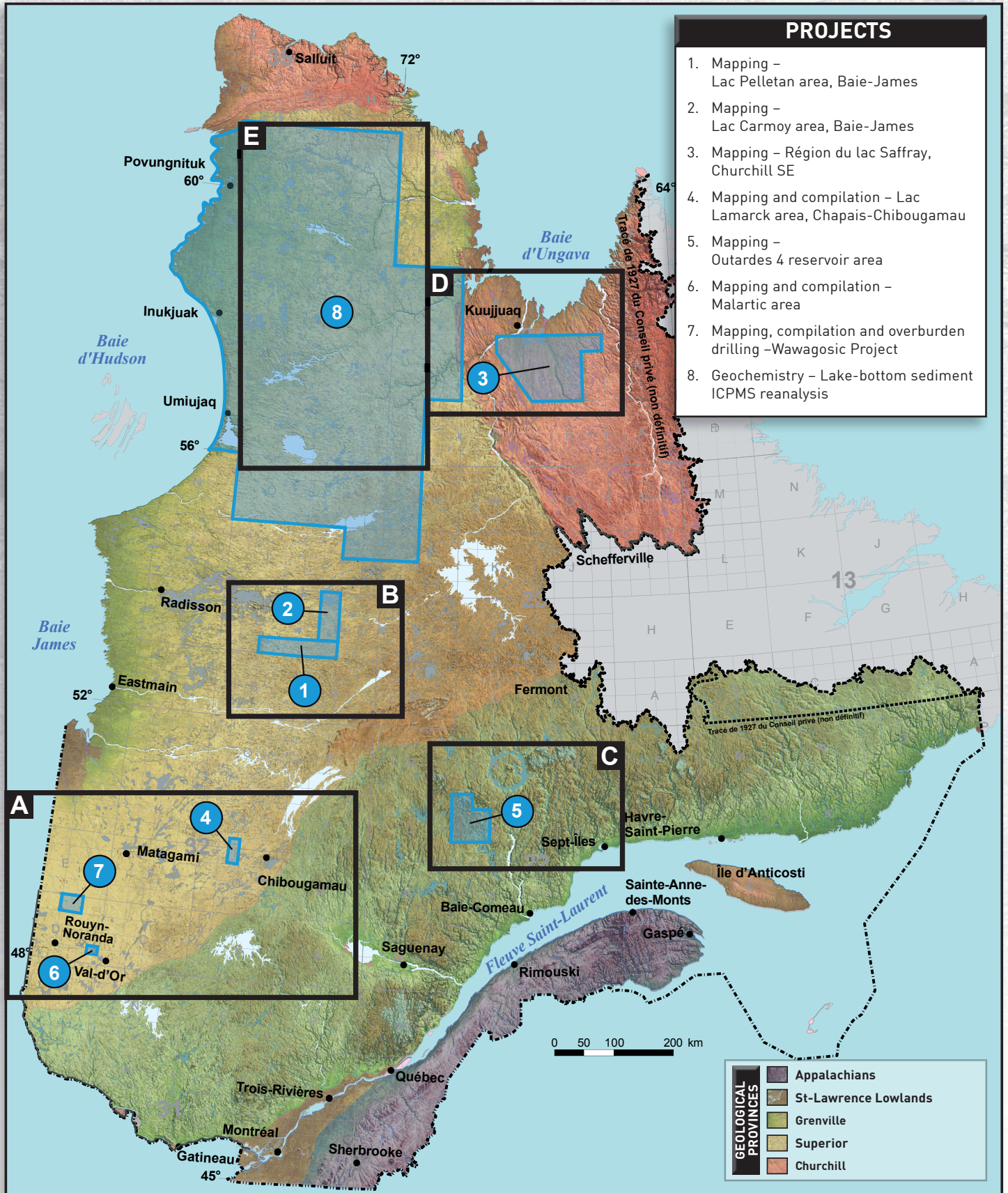
Number and Name	Size	Localisation (UTM NAD83)	NTS Sheet	Project	Poster	Person(s) in charge	Substance(s)	Description
(18) Sarvakuitaaq	Local	Zone 19V 579166 mE 6419290 mN	24G13	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Cu-Ni	Rusted paragneiss with 2 to 5 % disseminated sulphides (PO-CP), 500 m X 500 m. Coincide with Cu and Ni lake-bottom sediment anomalies (Lamothe, 2010); 930 ppm Cu and 340 ppm Ni.
(19) Maxi	Local	Zone 19V 544750 mE 6389685 mN	24F09	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Cu-Zn-Au	Continuous rusted zone visible for 500 m X 5 -25 m in strongly altered and OZ-veined graphitic paragneiss; 110 ppm Cu and 190 ppm Zn.
(20) Saffray - Ouest	Local	Zone 19V 608562 mE 6381894 mN	24G11	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Au-Cu-Zn	Rusted zone, approx. 200 m X 50 m, in strongly migmatitized graphite-sillimanite paragneiss. Located near Au lake- bottom sediment anomalies (Lamothe, 2010) and a strong magnetic high.
(21) Le Moyne - Est	Ponctual	Zone 19V 540649 mE 6332755 mN	24F01	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Cu-Zn-Mo	Rusted zone with sulphides, 20 m X 25 m, in a schistose sequence of metasediments and amphibolites. Coincide with a 4.2 km X 250 m NW-SE magnetic lineament; 270 ppm Cu, 200 ppm Zn and 70 ppm Mo.
(22) Chakawapin	Ponctual	Zone 19V 492738 mE 6410179 mN	24F14	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Ni-Cu	Several rusted zones >10 m X 2 m in actinole-rich and very magnetic schistose amphibolite; 1170 ppm Ni.
(23) Torcapel	Ponctual	Zone 19V 632795 mE 6336794 mN	24G02	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Cu-Zn	Garnet-sulphides (PO-PY) mafic layer, >4 m wide and 5 m long, in a sequence of paragneiss along a strong magnetic anomaly; 440 ppm Cu and 150 ppm Zn.
(24) Tasirpak	Ponctual	Zone 19V 656604 mE 6413131 mN	24G16	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Cu-Ni	Decimetric to metric rusted zones with sulphides (PO-CP) in a gabbroite; 760 ppm Cu.
(25) Maralik - Sud	Ponctual	Zone 19V 628000 mE 6361271 mN	24G07	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Cu-Zn	Several rusted zones in a sequence of graphitic paragneiss and diorite; <7 % PO and traces CP. 480 ppm Cu and 310 ppm Zn.
(26) Souel	Ponctual	Zone 19V 555649 mE 6361345 mN	24F08	Mapping – Lac Saffray area, Churchill SE	301	Isabelle Lafrance Daniel Bandyayera	Ag-Cu-Zn	Sulphide rusted zone, 10 m X 15 m, in paragneiss; 10 g/t Ag, 190 ppm Cu and 120 ppm Zn.
<b>Superior Provinces (Baie-James) – Nord-du-Québec administrative region</b>								
(27) Quentin	Local	Zone 18U 591906 mE 5899043 mN	33H04	Mapping – Lac Pelletan area, Baie-James	303	Jean Goutier Claude Dion	Au	Centimetre-thick QZ vein with disseminated PO-PY-CP in a mylonite at the contact between an amphibolite and a paragneiss, which represents the limit between the La Grande and Opinaca subprovinces. Value of 2.17 g/t Au and 109 ppb Pd.
<b>Superior Provinces (Baie-James) – Nord-du-Québec administrative region</b>								
(28) 12-PL-3225	Ponctual	Zone 18U 604829 mE 5906538 mN	33H06	Mapping – Lac Carmoy area, Baie-James	304	Pénélope Burniaux Hanafi Hammouche	Au	Rusted zone visible for 30 m with 5 % finely disseminated PO in an amphibolite at the contact with a pegmatite.
(29) 12-MH-6109	Ponctual	Zone 18U 623699 mE 5915852 mN	33H06	Mapping – Lac Carmoy area, Baie-James	304	Pénélope Burniaux Hanafi Hammouche	Au	Centimetre to metre-wide rusted and very altered paragneiss with 5 % disseminated PO-PY.
(30) 12-NS-5281	Regional	Zone 18U 603406 mE 5906400 mN	33H06	Mapping – Lac Carmoy area, Baie-James	304	Pénélope Burniaux Hanafi Hammouche	Au-Cu-Zn-Pb	New volcano-sedimentary belt approx. 4.5 km X 9 km composed of paragneiss and metavolcanites with local metric oxide-silicate iron formations.
(31) 12-HH-2008	Local	Zone 18U 615716 mE 5902981 mN	33H06	Mapping – Lac Carmoy area, Baie-James	304	Pénélope Burniaux Hanafi Hammouche	Ni-Cu-Cr-PGE	Strongly magnetic pyroxenite with disseminated PY grading 0.18 % Ni and 0.24 % Cr. Associated with an approx. 7 km X 0.4 km discontinuous magnetic anomaly.
(32) 12-PB-1096	Regional	Zone 18U 621481 mE 5944161 mN	33H11	Mapping – Lac Carmoy area, Baie-James	304	Pénélope Burniaux Hanafi Hammouche	Au-Cu-Zn-Pb	New volcano-sedimentary belt approx. 5.5 km X 20 km mainly composed of amphibolite, felsic to intermediate tuffs, paragneiss and local ultramafic sill.
(33) 12-AK-4351	Local	Zone 18U 603654 mE 5964771 mN	33H14	Mapping – Lac Carmoy area, Baie-James	304	Pénélope Burniaux Hanafi Hammouche	Au-Cu	Oxide-silicate iron formation with 5 % PY-PO, 4 to 7 m wide and > 50 m long, in mafic metavolcanites. Associated with a strong magnetic anomaly.
(34) 12-HH-2124	Ponctual	Zone 18U 609478 mE 5963591 mN	33H14	Mapping – Lac Carmoy area, Baie-James	304	Pénélope Burniaux Hanafi Hammouche	Au	Layer of semi-massive sulphides (30 % PY-PO) 10 m x 1.5 m hosted in paragneiss.
(35) 12-AK-4115	Ponctual	Zone 18U 607717 mE 5963700 mN	33H14	Mapping – Lac Carmoy area, Baie-James	304	Pénélope Burniaux Hanafi Hammouche	Au	Decimetric rusted zones in a metavolcanic sequence with 10 % finely disseminated PO. Grades 0.86 g/t Au.

Number and Name	Size	Localisation (UTM NAD83)	NTS Sheet	Project	Poster	Person(s) in charge	Substance(s)	Description
(36) 12-NS-5047	Regional	Zone 18U 611112 mE 5963811 mN	33H14	Mapping – Lac Carmoy area, Baie-James	304	Pénélope Burniaux Hanafi Hammouche	Au-Cu-Zn-Pb	Volcano-sedimentary belt 6 km X 19 km composed of amphibolite, paragneiss locally migmatitic, conglomerate and metric layers of oxide-silicate iron formation. Strong magnetic anomaly associated.
(37) 12-PL-3242	Ponctual	Zone 18U 603258 mE 5975178 mN	33H14	Mapping – Lac Carmoy area, Baie-James	304	Pénélope Burniaux Hanafi Hammouche	Ni-Cu-Cr-PGE	Meter-wide ultramafic dyke grading 0.24 % Ni and 0.15 % Cr.
<b>Superior Province (Chibougamau) – Nord-du-Québec administrative region</b>								
(38) Indice A. Leclerc	Ponctual	Zone 18U 484839 mE 5522687 mN	32G14	Mapping and compilation – Lac Lamarck area, Chapais-Chibougamau	308	François Leclerc	Cu, Zn	Disseminated and bedded sulphides (PY-PO-CP) in a medium to coarse-grained dacitic lapilli tuff.
(39) Indice Crénulation	Ponctual	Zone 18U 469468 mE 5511737 mN	32G14	Mapping and compilation – Lac Lamarck area, Chapais-Chibougamau	308	François Leclerc	Au	Metric chert unit with disseminated to massive sulphide (PY-MG) beds intruded by a gabbro sill. The contact is sheared.
(40) Lac Dolomieu-Ouest	Ponctual	Zone 18U 485925 mE 5517216 mN	32G14	Mapping and compilation – Lac Lamarck area, Chapais-Chibougamau	308	François Leclerc	Cu, Zn	PY-MG laminations in graded-bedded siltstones-mudstones.
(41) Houghton-Bordure	Regional	Zone 18U 475915 mE 5516108 mN a 479240 mE 5516789 mN	32G14	Mapping and compilation – Lac Lamarck area, Chapais-Chibougamau	308	François Leclerc	Au, Cu	E-W shear zone north of the Houghton Pluton with disseminated sulphides (PY-PO-CP) in an amphibolite partially retrograded to greenschist (AW-QZ-BO-EP-CL-MG-HM).
<b>Superior Province (Amos) – Abitibi-Témiscamingue administrative region</b>								
(42) RO-317, Indice Lac Authier-Est	Regional	Zone 17U 687844 mE 5430200 mN a 685452 mE 5424442 mN	32D15	Mapping and compilation – Project Wawagosis	305	Pierre-Luc Deschênes	Au	Deformation zone associated to a strong CB alteration with QZ-CB-SF vein. Extension of a known mineralized zone.
(43) RO-316, Indice Audet Ouest	Regional	Zone 17U 684520 mE 5431025 mN a 678488 mE 5426728 mN	32D15	Mapping and compilation – Project Wawagosis	305	Pierre-Luc Deschênes	Au	Deformation zone associated to a strong CB alteration with QZ-CB-SF vein. Extension of a known mineralized zone.
(44) RO-312, Indice Sondage 93-05	Regional	Zone 17U 680963 mE 5432212 mN a 674380 mE 5425502 mN	32D15	Mapping and compilation – Project Wawagosis	305	Pierre-Luc Deschênes	Au	Deformation zone associated to a strong CB-Si alteration with QZ-CB-PY vein. Extension of a known mineralized zone.
(45) RO-340, Indice Pearson-1	Regional	Zone 17U 666956 mE 5421041 mN a 646825 mE 5422049 mN	32D15	Mapping and compilation – Project Wawagosis	305	Pierre-Luc Deschênes	Au, Ag, Zn	Deformation zone associated to OF-Ti or FC-SR-CB alterations with QZ-CB-PY-SP veins. Extension of a known mineralized zone.
(46) RO-344	Regional	Zone 17U 656500 mE 5429453 mN	32D15	Overburden drilling – Wawagosis Project	305	Guillaume Allard	Au	Gold anomalies in glacial deposits.
(47) RO-301	Regional	Zone 17U 661772 mE 5446753 mN a 661169 mE 5448189 mN	32D15	Overburden drilling – Wawagosis Project	305	Guillaume Allard	Au	Gold anomalies in glacial deposits.

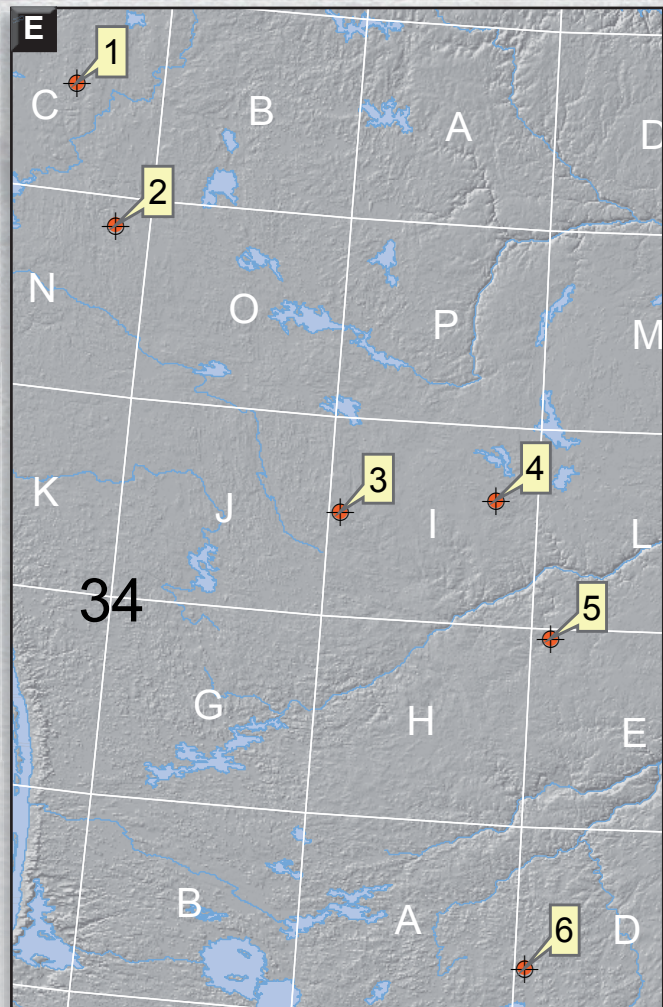
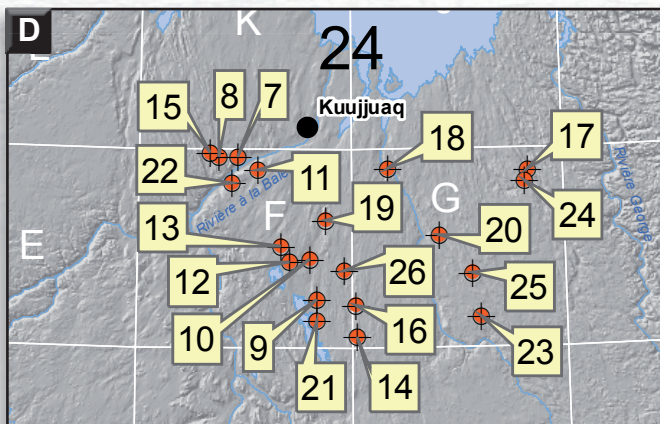
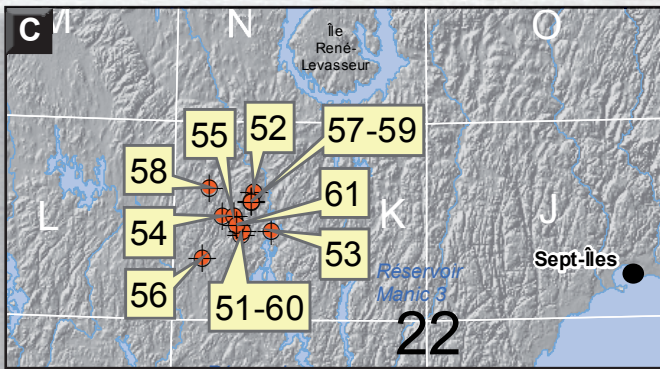
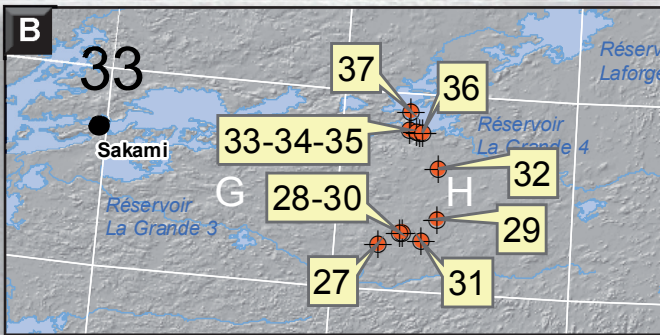
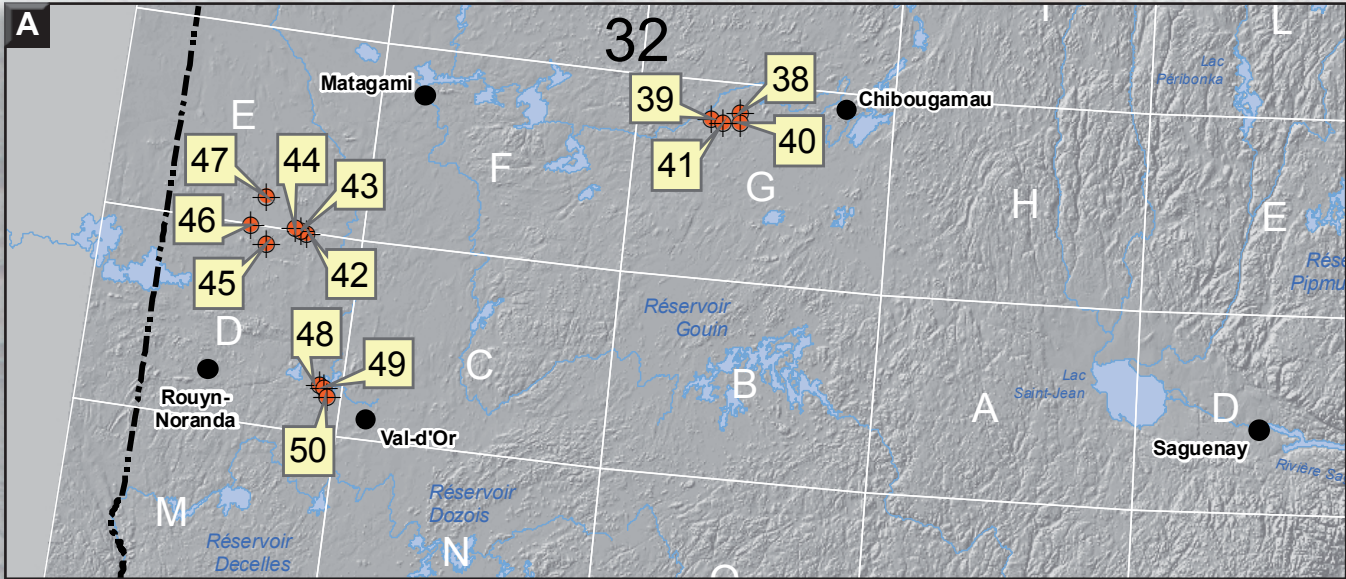
Number and Name	Size	Localisation (UTM NAD83)	NTS Sheet	Project	Poster	Person(s) in charge	Substance(s)	Description
<b>Superior Provinces (Malaritic) – Abitibi-Témiscamingue administrative region</b>								
(48) Malaritic-1	Regional	Zone 17U 709300 mE 5347800 mN	32D01	Mapping and compilation – Malaritic region	306	Pierre Pilote <i>et al.</i>	Au	WNW-oriented Rivère Héva deformation corridor.
		722000 mE 5341200 mN						
		Zone 17U 712500 mE 5347000 mN						
(49) Malaritic-2	Regional	719400 mE 5344000 mN	32D01	Mapping and compilation – Malaritic region	306	Pierre Pilote <i>et al.</i>	Cu-Zn	WNW-oriented felsic volcanic center SE of lac Malaritic (bate Carpenter and extensions).
		Zone 17U 715000 mE 5342000 mN						
(50) Malaritic-3	Regional	720000 mE 5340000 mN	32D01	Mapping and compilation – Malaritic region	306	Pierre Pilote <i>et al.</i>	Cu-Zn	Possible extension of the WNW-oriented Val-d'Or Formation.
<b>Grenville Province – Côte-Nord administrative region</b>								
(51) Villion Nord	Ponctual	Zone 19U 466269 mE 5587060 mN	22K06	Mapping – Northern part of the Outardes 4 reservoir	352	Abdelali Moukhsil, Fabien Soigadi	REE	Pegmatite dyke (1.5 m thick) cutting a paragneiss with calc-silicate layers. Grades 5075.28 ppm TREE (786 ppm Nd).
(52) Picard	Ponctual	Zone 19U 473796 mE 5611496 mN	22K11	Mapping – Northern part of the Outardes 4 reservoir	352	Abdelali Moukhsil, Fabien Soigadi	REE, Th, Ag	Pinkish BO-MG pegmatite dyke (6 m thick) in a monzonite. Grades 7838.69 ppm TREE (1410 ppm Nd), 1600 ppm Th and 6.9 ppm Ag
(53) Cast'Or	Ponctual	Zone 19U 483258 mE 5589422 mN	22K06	Mapping – Northern part of the Outardes 4 reservoir	352	Abdelali Moukhsil, Fabien Soigadi	Au	Olivine pyroxenite layer in a norite. Both rocks are intruded by granitic pegmatite. Grade of 0.8 g/t Au in pyroxenite containing traces of PO-PY. However, a reanalysis of the same sample did not confirm this assay.
(54) Ferceel	Ponctual	Zone 19U 455843 mE 5597691 mN	22K12	Mapping – Northern part of the Outardes 4 reservoir	352	Abdelali Moukhsil, Fabien Soigadi	Fe-Ti-P-V	Decimetric layers rich in oxides (nelsonite, < 5 m long) with up to 20 % apatite (20 % Fe, 1180 ppm V, 7.47 % P <sub>2</sub> O <sub>5</sub> and 6.78 % TiO <sub>2</sub> ).
(55) Ferwel	Ponctual	Zone 19U 444798 mE 5597490 mN	22K12	Mapping – Northern part of the Outardes 4 reservoir	352	Abdelali Moukhsil, Fabien Soigadi	Fe-Ti-P-V	Decimetric layers rich in oxides (nelsonite, < 5 m long) in a porphyroclastic norite. A oxide rich layer contains up to 20 % apatite (31.7% Fe, 2330 ppm V, 7.56 % P <sub>2</sub> O <sub>5</sub> and 15 % TiO <sub>2</sub> ).
(56) Trema	Ponctual	Zone 19U 444798 mE 5573629 mN	22K05	Mapping – Northern part of the Outardes 4 reservoir	352	Abdelali Moukhsil, Fabien Soigadi	Fe-Ti-P	Layered gabbro-norite with centimetre-thick beds (5 to 20 cm) rich in oxides (OAGN); 22 % Fe, 2.27 % P <sub>2</sub> O <sub>5</sub> and 5.6 % TiO <sub>2</sub> .
(57) Bianzy	Ponctual	Zone 19U 472276 mE 5606343 mN	22K11	Mapping – Northern part of the Outardes 4 reservoir	352	Abdelali Moukhsil, Fabien Soigadi	Zn -Graphite	Centimetric layers (5 to 10 cm) rich in graphite (10 to 25 %) in a rusted BO paragneiss; 1.99 % Zn, 3.23 % carbon, 0.05 % Cu and 6.2 % S
(58) Graphil	Ponctual	Zone 19U 448800 mE 5613867 mN	22K12	Mapping – Northern part of the Outardes 4 reservoir	352	Abdelali Moukhsil, Fabien Soigadi	Graphite	BO-graphite paragneiss with traces of sillimanite, 4.4 % carbon and up to 2 % disseminated graphite in millimetre-wide layers.
(59) Gol	Ponctual	Zone 19U 471962 mE 5605440 mN	22K11	Mapping – Northern part of the Outardes 4 reservoir	352	Abdelali Moukhsil, Fabien Soigadi	Graphite	70 cm thick layers rich in graphite (15 %, 2 to 3 mm flakes) in rusted BO-GR paragneiss with traces of PY-PO.
(60) Argenta	Local	Zone 19U 487797 mE 5589065 mN	22K06	Mapping – Northern part of the Outardes 4 reservoir	352	Abdelali Moukhsil, Fabien Soigadi	Architectural stone	Important volume of slightly fractured granite, whitish when altered and pinkish on fresh surface.
(61) Omwel	Ponctual	Zone 19U 464028 mE 5592873 mN	22K05	Mapping – Northern part of the Outardes 4 reservoir	352	Abdelali Moukhsil, Fabien Soigadi	Ornamental stone	Leuconorite dyke with bluish iridescent plagioclase megacrysts (33 %, from 2 to 10 cm). Quality and volume to be determined.

Coordinates indicate the centre of the exploration target or both ends of a linear target.

# LOCATION OF GEOSCIENTIFIC PROJECTS 2012 - 2013



# LOCATION OF MINERAL EXPLORATION TARGETS



Target