# Southern Superior Province (Abitibi and Pontiac Subprovinces) 

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## Introduction

The Abitibi and Pontiac subprovinces form the southern part of the Superior Province in Québec. The Abitibi Subprovince is the largest, one of the most studied, and among the richest Archean greenstone belts in the world. It comprises numerous granitoid intrusions and volcanic and sedimentary belts oriented roughly E-W (Figure 1C-1), dated between 2.75 and 2.67 Ga . The Abitibi belt is transected by several major reverse or normal faults oriented E-W to NW-SE, as well as by sinistral NEtrending and dextral SE-trending faults that dissect volcanosedimentary domains into lozenge-shaped segments cored by intrusive rocks.

The Pontiac Subprovince is separated from the Abitibi Subprovince by the Cadillac-Larder Lake Break, a structure that extends east to west over a distance of more than 100 km in Québec and Ontario. The Pontiac Subprovince comprises granitoid intrusions and orthogneisses in its central part, along with detrital sedimentary rocks and paragneisses with a few volcanic sequences. The latter form ultramafic, mafic, and locally felsic assemblages in the southwestern part of the Pontiac. A few thin bands of mafic to ultramafic volcanic rocks are also present in the northern part of the subprovince.

The Abitibi Subprovince is world-renowned for the great number and high grade of its precious metal ( $\mathrm{Au}-\mathrm{Ag}$ ) and polymetallic (Cu-Zn-Au-Ag and $\mathrm{Cu}-\mathrm{Au}$ ) ore deposits. A few metallic deposits, architectural stone quarries, and industrial mineral deposits (lime, quartz, kyanite, mica, and garnet) were also mined in the Pontiac Subprovince. Exploration and mining have made this territory one of the main mining regions in Québec for close to a century.

In 2004, we compiled 198 mineral exploration projects in the Abitibi and Pontiac subprovinces, compared to 178 in 2003. This represents an increase of $11 \%$. The total number of metres drilled in 2004 in the Abitibi and Pontiac subprovinces reached 576,165 metres.

In 2004, several companies were involved in the search for gold deposits in the Abitibi and Pontiac subprovinces. The number of projects targeting this commodity stood at 131 (Table 1C-1), which represents an increase of $10 \%$ relative to 2003. Over the course of 2004, the number of exploration projects
targeting polymetallic deposits or diamonds stood at 67 (Table $1 \mathrm{C}-2$ ). Compared to the 59 projects reported in 2003, this represents an increase of $14 \%$. These higher figures probably reflect the gradual rise in metal prices observed in recent years.

Figures 1C-1 to 1C-4 show the location of exploration projects in the Abitibi and Pontiac subprovinces.

## Precious Metal Deposits

## CASA BERARDI - MATAGAMI AREA (FIGURE 1C-1)

In this area, located along the northwesternmost part of the Abitibi Subprovince, we compiled 8 projects in 2004.

The Casa-Berardi project (project 44) by Aurizon Mines Ltd is located 130 km WSW of Matagami, in sedimentary rocks of the Taïbi Group. The former Casa Berardi East and West mines are located near the Casa Berardi fault. Gold mineralization is generally associated with fine-grained pyrite and arsenopyrite in quartz veins, quartz-carbonate stockworks, and sulphiderich schists. In 2004, Aurizon Mines Ltd conducted definition drilling, deepened the development ramp to the 570-m level in zone 113 and completed preparation work to sink a shaft. A feasibility study completed in 2000 indicates that reserves at the West mine stand at $6,943,000$ tonnes at a grade of $6.7 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ based on measured and indicated resources, whereas an additional 1.7 million tonnes of inferred resources at a grade of $6.1 \mathrm{~g} / \mathrm{t}$ Au were estimated for the new zones 118 and 120. International Taurus Resources Inc. and Fairstar Explorations Inc. have joined forces on the Fenelon project (project 68), located 70 km WNW of Matagami. This project consists of a gold deposit composed of quartz-sulphide veins hosted in strongly altered mafic rocks surrounded by argillaceous sediments. Inferred and indicated resources totalling 88,390 tonnes at $10.91 \mathrm{~g} / \mathrm{t}$ Au were delineated. In 2004, a 185-m ramp was excavated to access ore zones on the 5213 level, 37 m below surface. A bulk sample of 8,300 tonnes was extracted and processed at the Camflo mill near Malartic. Control samples indicate an average grade of $10.3 \mathrm{~g} / \mathrm{t}$ Au for this sample.

## LEBEL-SUR-QUÉVILLON - DESMARAISVILLE AREA (FIGURE 1C-1)

We compiled 25 gold exploration projects in this area, located in the east-central part of the Abitibi Subprovince. The Sleeping Giant mine (Au-Ag) was the only active gold producer in the area in 2004.

Held by Cambior Inc. and Aurizon Mines Ltd, the Sleeping Giant mine (project 47) is located 70 km west of Lebel-surQuévillon. The lode gold deposit is characterized by high gold grades of up to $11 \mathrm{~g} / \mathrm{t}$ Au. In December 2003, the shaft was deepened by 200 m to reach a total depth of $1,006 \mathrm{~m}$, providing access to new gold zones $6,7,8$, and 18. In 2004, a reserve
development program was completed in zones $3,8,16$, and 30 , as well as exploration drillholes in zones 30 , West, 7 , and 8. Dewatering is underway at the former Bachelor gold mine near Desmaraisville (project 85), where Metanor Resources Inc. and Wolfden Resources Inc. are planning to drill the upper extension of the B Zone, which contains indicated resources of 71,589 tonnes at $11.6 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ and inferred resources of 65,309 tonnes at $12.1 \mathrm{~g} / \mathrm{t} \mathrm{Au}$.

Strateco Resources Inc. conducted drill programs on its Discovery (project 32) and Cameron (project 33) projects, located 45 km north of Lebel-sur-Quévillon. On the Discovery project, drillholes testing the central part of the East lens yielded gold intercepts such as $6.28 \mathrm{~g} / \mathrm{t}$ Au over 6.3 m in drillhole BD-0477A. GéoNova Explorations Inc., a subsidiary of Campbell Resources Inc., had estimated resources of 2.12 Mt at a grade of $5.11 \mathrm{~g} / \mathrm{t}$ Au for the Discovery Zone. On the Desjardins property (project 126), located 35 km north of Lebel-sur-Quévillon, Normabec Mining Resources Ltd and SOQUEM INC. completed 2 drillholes, which intersected Zone III. The latter consists of 3 subparallel gold-bearing structures; best results include $9.82 \mathrm{~g} / \mathrm{t}$ Au over 1 m in the Central structure.

At about 120 km east of Lebel-sur-Quévillon, in the central part of the Urban-Barry belt, Noront Resources Ltd intersected in drillhole on the Windfall Lake property (project 120) pyriterich zones with significant gold grades such as $8.55 \mathrm{~g} / \mathrm{t}$ Au over 13.4 m (drillhole NOT 04-27) and $11.19 \mathrm{~g} /$ t Au over 8.2 m (drillhole NOT 04-32). On an adjoining property to the north (project 127), Murgor Resources Inc. and Freewest Resources Canada Inc. also discovered gold showings. A channel sample on showing IPE yielded $40.62 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ over 5.9 m . Three drillholes intersected gold-bearing zones, including a $3.5-\mathrm{m}$ intercept at $8.34 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ (drillhole WIN-04-02). In Urban Township just 7.5 km to the southeast of the discovery made by Noront Resources Ltd, Beaufield Consolidated Resources Inc. intersected in drillhole on its Lac Rouleau property (project 119) a silicified breccia zone in felsic volcanic rocks. Mineralized intervals include 3.73 m grading $11.63 \mathrm{~g} / \mathrm{t}$ Au (drillhole BFRL 401). In Barry Township, some 12 km southwest of the Noront discovery, Osisko Exploration Ltd, in partnership with Murgor Resources Inc. and Freewest Resources Canada Inc., intersected on the Barry property (project 5) 19.62 m grading $5.31 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ (drillhole BA04136). Furthermore, two new gold-bearing zones, zone 45 and zone 48, were detected to the SSW of the Main Zone. This property hosts the Barry gold deposit, in which the near-surface Main Zone consists of a gold-bearing quartz-pyrite stockwork. Also in Barry Township, some 19 km southwest of the Noront property, Gold Hawk Resources Inc. intersected 6.5 m at $11.81 \mathrm{~g} / \mathrm{t}$ Au (drillhole LB-04-10) on its Barry-Souart property (project 128). The mineralization consists of quartz-carbonate veins associated with silicified zones with pyrrhotite-pyrite-chalcopyrite, injected in granodiorite-tonalite-diorite intrusions.

## CHIBOUGAMAU AREA (FIGURE 1C-1)

In 2004, we compiled 8 gold exploration projects in the Chibougamau area, which forms the northeastern tip of the Abitibi Subprovince. With its numerous gold projects, SOQUEM INC. is an important player in the area. One gold producer, the Joe Mann mine ( $\mathrm{Au}-\mathrm{Au}$ ), was in operation in the Chibougamau area.

In 2004, Campbell Resources Inc. performed definition drilling and development work on its mining infrastructure at the Copper Rand mine in Chibougamau (project 129) in order to commence ore extraction in November. Commercial production is slated to begin in early 2005. The Copper Rand 5000 project contains measured and indicated resources of 1.9 Mt at $1.55 \%$ Cu and $3.33 \mathrm{~g} / \mathrm{t} \mathrm{Au}$.

At the Joe Mann mine held by Campbell Resources Inc. (project 82), underground drillholes from the 2925 level delineated the easternmost extent of the high-grade West Zone. Drillhole EW-78 intersected 2.6 m (true thickness) grading $10.3 \mathrm{~g} / \mathrm{t}$ Au. On the Meston property (project 81), contiguous to the Joe Mann mine, Campbell Resources Inc. and SOQUEM INC. conducted a drill program to extend zones 2800 and 3100 another 500 m to the west. Several mineralized intercepts were encountered, among which 6.34 m at $52.16 \mathrm{~g} / \mathrm{t}$ Au in zone 2800 (drillhole H-04-579). On the Lac Shortt property (project 87), located 90 km west of Chapais, Northern Mining Explorations Ltd and SOQUEM INC. intersected in drillhole an altered syenite with microfractures filled with disseminated pyrite. Several goldbearing intercepts were reported, among which a $9.0-\mathrm{m}$ interval grading $1.18 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ in drillhole BV 04-66.

Typhoon Exploration Inc. carried out channel sampling and drilling on its Monexco property (project 96), located about 30 km northeast of Chibougamau. At strip zone no.1, grades ranged from $1.38 \mathrm{~g} / \mathrm{t}$ Au over 0.5 m to $137.5 \mathrm{~g} / \mathrm{t}$ Au over 1.0 m in quartz-tourmaline-pyrite veins injected in deformed andesitic volcanic rocks along the Rivière France deformation zone. On the La Dauversière property (project 80), located 30 km south of Chibougamau, Ressources d'Arianne Inc. reported grades ranging from 2.26 to $176 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ from grab samples collected along an ENE-trending deformation zone intruded by a quartz porphyry and injected with gold-bearing quartz veins.

## NORMÉTAL - LA SARRE - AMOS AREA (FIGURE 1C-1)

Eight gold projects were carried out in this area, located in the west-central part of the Abitibi Subprovince. Golden Valley Mines Ltd performed ground geophysical surveys on three properties located 32 km south of La Sarre (projects 103, 104, and 113). On the Swanson property (project 4), located near Barraute some 65 km north of Val-d'Or, Phoenix Matachewan Mines Inc. performed an induced polarization survey. The gold mineralization is associated with syenite dykes and carbonate-
fuchsite-rich altered wall rocks. Gold occurs with pyrite in quartz veins. Measured resources were established at 421,564 tonnes at a grade of $3.26 \mathrm{~g} / \mathrm{t} \mathrm{Au}$, with indicated resources of 687,078 tonnes at a grade of $3.11 \mathrm{~g} / \mathrm{t} \mathrm{Au}$.

## ROUYN-NORANDA - CADILLAC AREA (FIGURES 1C-1 AND 1C-3)

A total of 37 gold exploration projects were compiled in this area, in the southwestern Abitibi Subprovince. Three mines produced gold in 2004 in the area, namely the Mouska and Doyon gold mines (Au-Ag) and the LaRonde polymetallic mine (Au-Ag-Zn-Cu). Exploration carried out at the LaRonde mine will be described in the section on polymetallic deposits.

In the Cadillac area, mining operations resumed in October at the Mouska mine held by Cambior Inc. (project 29) after the internal shaft was deepened by 210 m to provide access to new ore zones and add three years to the mine life. On the contiguous Westwood property (project 27), located east of the Doyon mine, Cambior Inc. continued a deep drilling program to test the North Corridor and the Westwood horizon. In drillhole $1158 \mathrm{H}-04$, significant results include $2.1 \mathrm{~g} / \mathrm{t}$ Au over 7.2 m in the North Corridor, and $2.3 \mathrm{~g} / \mathrm{t}$ Au over 19.6 m in the Westwood horizon. Cambior Inc. began driving a $2.6-\mathrm{km}$ exploration drift from level 14 at the Doyon mine to reach the Westwood property; it should be completed at the end of 2006. On October 21, 2004, 650 m of drift had been excavated, and a first exploration station was established.

Agnico-Eagle Mines Ltd launched an extensive work program on the Lapa property (project 38), located 16 km west of Malartic, which includes sinking a 830 m deep shaft, underground development, drilling, and metallurgical testing. Shaftsinking work commenced in October. Known as the Contact Zone, gold mineralization lies along the interface between sheared and altered mafic and ultramafic lavas of the Piché Group and sediments of the Cadillac Group, in the Cadillac Tectonic Zone. It consists of disseminated sulphides and quartzsulphide veinlets in volcanic rocks altered to biotite and sericite. Combined reserves and resources are estimated at 4.9 Mt at a grade of $8.23 \mathrm{~g} / \mathrm{t} \mathrm{Au}$.

Following the discovery of the Contact Zone, Queenston Mining Inc. intersected on the contiguous Pandora property (project 34), located west of Lapa, a gold zone ( $0.5 \mathrm{~g} / \mathrm{t}$ Au over 10.9 m in drillhole PD-04-16) interpreted as the westward extension of the Contact Zone. Radisson Mining Resources Inc. drill-tested its O’Brien and Kewagama properties (project 41), located 1 km north of Cadillac, to explore the depth extensions of known ore lenses hosted in the Piché Group, within the Cadillac Tectonic Zone. In drillhole OB04-01, a 0.30-m intercept yielded $13.68 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ at a vertical depth of $1,280 \mathrm{~m}$.

On the Noralex property (project 123), located 10 km northwest of the Doyon and Mouska mines in a relatively littleexplored area, Alexis Minerals Corp. and Noranda Inc. inter-
sected in drillhole quartz-pyrite veins and disseminated pyrite in a sericitized and ankeritized tonalite. Grades reported for drillhole NA-04-01 include $3.19 \mathrm{~g} / \mathrm{t}$ Au over 15.0 m .

Yorbeau Resources Inc. extracted a bulk sample in order to assess the viability of an open pit operation on the Astoria property, located 3 km south of Rouyn-Noranda. This property, which straddles the Cadillac Tectonic Zone, comprises the Astoria I project (project 114) to the east and the AugmittoAstoria II project (project 10) to the west, both characterized by the presence of a carbonate alteration zone. Gold mineralization is associated with a stockwork of quartz-sulphide veins. At Astoria I, the estimated grade for a 1,858-tonne sample collected from trench no. 1 stands at $2.00 \mathrm{~g} / \mathrm{t} \mathrm{Au}$, and $2.2 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ for a 695tonne sample collected in trench no.2. In trench no.6, located at Astoria II, a 500-kg sub-sample taken from the 750 -tonne bulk sample yielded a grade of $2.7 \mathrm{~g} / \mathrm{t} \mathrm{Au}$.

On the Bazooka project (project 11), located 7 km southwest of Rouyn-Noranda, Lake Shore Gold Corp. obtained a 2.3-m intercept at $10.8 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ (drillhole BA03-02A) on this property which straddles the Cadillac Tectonic Zone. The mineralization consists of disseminated pyrite and quartz veins in a carbonate-albite-silica alteration zone in chlorite schists and deformed greywackes.

On the Fayolle property (project 1), located 35 km northeast of Rouyn-Noranda, Typhoon Exploration Inc. intersected hematized and pyritized granodiorite dykes in drillhole. The best intercepts in drillhole FA-04-02 include a $6.25-\mathrm{m}$ interval grading $14.56 \mathrm{~g} / \mathrm{t} \mathrm{Au}$. Indicated resources are estimated at 221,206 tonnes at a grade of $6.86 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ and inferred resources at 578,000 tonnes at a grade of $5.93 \mathrm{~g} / \mathrm{t}$ Au. Queenston Mining Inc. and Globex Mining Enterprises Inc. completed 5 drillholes on the Duquesne West property (project 61), located 32 km north of Rouyn-Noranda. Three holes were drilled to test the Liz Zone, a gold-bearing shear zone in sericitized and ankeritized intermediate to mafic volcanic rocks with 5-20\% pyrite. Drillhole DQ-04-22 yielded an assays of $2.4 \mathrm{~g} / \mathrm{t}$ Au over 7.9 m .

## MALARTIC - SENNETERRE - VAL-D'OR AREA (FIGURES 1C-1 AND 1C-4)

The number of gold projects reported in 2004 in the Malartic Senneterre - Val-d'Or area, in the southeastern part of the Abitibi Subprovince, stands at 41. The Beaufor mine (Au-Ag) was the only active gold producer in the area in 2004.

About 3 km east of Malartic, Richmont Mines Inc. drove an exploration ramp on its East Amphi property (project 92). As of October 27, 2004, the ramp was 770 m long and at a vertical depth of 130 m out of a total objective of 200 m . An underground exploration campaign involving $9,000 \mathrm{~m}$ of drilling is planned. Once a new resource estimate is calculated, a decision concerning the start-up of commercial production will be taken in the second half of 2005. On the Midway project (project 56), located 16 km west of Val-d'Or along the Cadillac Tectonic Zone,

Northern Star Mining Corp. intersected in drillhole four new gold-bearing zones in mafic and gabbroic lenses within an ultramafic unit in the Cadillac Tectonic Zone. The Midway project contains part of the former Malartic Goldfields mine, which produced more than 2 million ounces of gold to a depth of 823 m .

At the Kiena mine complex (project 55), Wesdome Gold Mines Inc. launched a drilling and drift development program. Drillholes intersected gold grades, including $3.03 \mathrm{~g} / \mathrm{t}$ Au over 9.0 m in drillhole U-3719, along the extension of zone S-50 at the Kiena ore deposit. Total resources for the orebody are estimated at 3.01 Mt at a grade of $4.25 \mathrm{~g} / \mathrm{t} \mathrm{Au}$, assuming a minimum mining width of 3.0 m and a cut-off grade of $2.4 \mathrm{~g} / \mathrm{t} \mathrm{Au}$. Two exploration drifts are being excavated. The first, on the 33 level ( 330 m below surface) at the Kiena mine, is to provide access to the Shawkey and 388 zones. The second, on the 52 level ( 520 m below surface), has already reached the VC zone and will eventually provide access to the lower North zone and the Wesdome property to the north. The VC zone consists of three lenses of silicified and albitized breccia hosted in basalt flows. Drill intercepts include 8 m (true thickness) at $7.18 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ for the VC2 lens (drillhole U-3735).

Agnico-Eagle Mines Ltd began work to rehabilitate mining infrastructure on the Goldex property (project 59), located in the western part of the city of Val-d'Or. This exploration and development program, at a cost of about $\$ 10 \mathrm{M}$, will serve to increase the level of confidence in the reserve estimate, which currently stands at 21.77 Mt at a grade of $2.4 \mathrm{~g} / \mathrm{t} \mathrm{Au}$. A 20,000tonne bulk sample, extracted in 2004-2005, will be milled in January 2005. Mineralization in the Goldex Extension orebody consists of a stockwork of quartz-tourmaline-pyrite veins with albitepyrite altered wall rocks, hosted in a quartz diorite sill locally altered to sericite and chlorite. Metanor Resources Inc. intersected in drillhole Zone \#5, a subparallel zone to the south of the latter, and the Stabell vein on its Dubuisson property (project 58) located in the western part of the city of Val-d'Or. The best intercepts include 2.1 m grading $14.6 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ (drillhole ME-0458) for the Stabell vein, and 4.2 m grading $3.61 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ (drillhole RS-208) for the subparallel zone south of Zone \#5.

Century Mining Corp. completed in September the acquisition of the Sigma-Lamaque mining complex (project 16), formerly held by McWatters Mining Inc. Operations at the mine were suspended in October 2003. A drill program was undertaken in October 2004 to upgrade gold resources in the open pit and eventually resume mining operations in 2005. On the Lamaque property (project 17), located in the eastern part of the city of Val-d’Or, Kalahari Resources Inc. drill-tested the Sixteen Zone, which consists of quartz-tourmaline-pyrite veins hosted in a strongly leached granodiorite porphyry. Drillhole SX 06-04-1 intersected 0.49 m grading $17.5 \mathrm{~g} / \mathrm{t}$ Au in the Sixteen Zone.

Located 8 km southeast of Val-d'Or, a drillhole by Alexis Minerals Corp. testing the Hogg showing on the Cadillac Group
project (project 125) intersected a skarn-type mineralized zone (epidote-magnetite-sulphides) grading $21.2 \mathrm{~g} / \mathrm{t} \mathrm{Au}$ and $0.56 \% \mathrm{Cu}$ over 3.8 m . This project contains several other showings with skarn-type alteration. On the Aurbel property (project 124), located 10 km east of Val-d'Or, Alexis Minerals Corp. released a mineral resource estimate for the Lac Herbin zone and Zone II of $1,072,681$ tonnes at $7.26 \mathrm{~g} / \mathrm{t} \mathrm{Au}$. Seven mineralized zones, consisting of gold-bearing quartz-pyrite veins, are hosted in shear zones cross-cutting the Bourlamaque Batholith. At the Beaufor mine (project 107), located 19 km east of Val-d'Or, Richmont Mines Inc. launched an underground exploration campaign totalling $\$ 1 \mathrm{M}$, to test the lateral and depth extensions of zones B, C, 8, and 32 .

On the Croinor property (project 109), located 70 km east of Val-d'Or, South-Malartic Exploration Inc. reported the recovery of 1,981 ounces of gold from a 20,000 -tonne bulk sample extracted from the open pit at the Croinor deposit, between November 2003 and January 2004. The average head grade at the Camflo mill near Malartic was $3.10 \mathrm{~g} / \mathrm{t}$ Au. Measured and indicated resources at the Croinor deposit are estimated at 501,402 tonnes at a grade of $3.46 \mathrm{~g} / \mathrm{t} \mathrm{Au}$. The mineralization is hosted in a diorite sill; gold occurs in quartz veins and altered pyritized wall rocks. On the Lac Bug showing, located 700 m northeast of the Croinor deposit, drillholes intersected mineralized intervals; best results include $11.34 \mathrm{~g} / \mathrm{t}$ Au over 4 m (drillhole CR-04-289).

On the Courville property (project 51), located 15 km west of Senneterre, Pershimco Resources Inc. carried out surface stripping and drilling on the Thibodeau intrusive, composed of sericitized leucotonalite with disseminated pyrite cut by a stockwork of subhorizontal anastomosing quartz-sulphide veins. Best results include $145 \mathrm{~g} / \mathrm{t}$ Au and $455 \mathrm{~g} / \mathrm{t}$ Ag over 0.54 m for channel samples, and $166 \mathrm{~g} / \mathrm{t}$ Au and $230 \mathrm{~g} / \mathrm{t}$ Ag over 0.37 m for drillholes. A bulk sample of 12,700 tonnes was collected from a surface stripping on the Thibodeau intrusive and shipped to the Camflo mill near Malartic. A total of 775 ounces of gold and 621 ounces of silver were recovered. The ore grade is estimated at $2 \mathrm{~g} / \mathrm{t} \mathrm{Au}$.

## témiscamingue region (FIGURE 1C-1)

In the Témiscamingue region, underlain by rocks of the Pontiac Subprovince south of the Abitibi Subprovince, 4 gold exploration projects were reported in 2004.

Vantex Resources Ltd carried out extensive stripping, sampling, and drilling on its Guillet project (project 76), located 5 km east of Belleterre. One drillhole intersected a grade of $40.75 \mathrm{~g} / \mathrm{t}$ Au over 13.3 m (drillhole LE04-70), collared near the $D$ zone. Joint venture partners Fieldex Exploration Inc. and Aurora Platinum Corp. announced the discovery of gold showings (project 2), where grab samples yielded grades ranging from 16.05 to $59.8 \mathrm{~g} / \mathrm{t} \mathrm{Au}$.

## Polymetallic Deposits and Diamonds

## CASA-BÉRARDI - MATAGAMI AREA <br> (FIGURE 1C-2)

In 2004, a total of 19 exploration projects were reported in the northwestern part of the Abitibi Subprovince. Operations were suspended in January 2004 by Billiton Metals Canada Inc. at the Selbaie mine, located 95 km west of Matagami, whereas the Bell-Allard mine, property of Noranda Inc. in Matagami, ceased operations in October.

Noranda Inc. discovered a new showing, dubbed "Renaissance", on the McLeod property (project P24), located just 7 km southeast of the company's mining infrastructure in Matagami. The mineralized zone, intersected in drillhole MC-04-07 at a vertical depth of 465 m , consists of about 6.9 m (true thickness) of massive and semi-massive sulphides. A section of exhalite and stringer sulphides nearly 14 m wide underlies the massive and semi-massive sulphide zone. On the Du Dome-Matagami property (project P11), SOQUEM INC. and Metco Resources Inc. intersected in drillhole 1288-04-09 a mineralized exhalite, which yielded $2.65 \% \mathrm{Zn}, 0.13 \% \mathrm{Cu}$, and $6.05 \mathrm{~g} / \mathrm{t}$ Ag over 3.3 m .

## LEBEL-SUR-QUÉVILLON - DESMARAISVILLE AREA (FIGURE 1C-2)

In the Lebel-sur-Quévillon - Desmaraisville area, 9 exploration projects for polymetallic deposits were compiled in 2004.

East of Lebel-sur-Quévillon, Breakwater Resources Ltd carried out re-development work at the Langlois mine (project P46), closed since November 2000. According to the company, production is expected to resume in early 2006, and the projected mine life is eight years.

## CHIBOUGAMAU AREA (FIGURE 1C-2)

In the Chibougamau mining camp, 8 exploration projects were carried out in 2004.

MSV Resources Inc. performed delineation drilling at the Corner Bay deposit (project P32) located in the southern part of the Lac Doré Complex. Elsewhere in the area, Woodruff Capital Management Inc., in partnership with Inmet Mining Corp., completed several drillholes and geophysical surveys on the Lemoine property (project P31).

## NORMÉTAL - LA SARRE - AMOS AREA (FIGURE 1C-2)

The number of exploration projects targeting polymetallic deposits in the west-central part of the Abitibi Subprovince stood at 8 in 2004.

Globex Mining Enterprises released the results of a drillhole collared on the Lyndhurst property (project P16), which yielded $1.41 \% \mathrm{Cu}$ and $26.5 \mathrm{~g} / \mathrm{t}$ Ag over 7.38 m (in a 17.17-m interval grading $0.825 \% \mathrm{Cu}$ and $16.42 \mathrm{~g} / \mathrm{t} \mathrm{Ag}$ ) at a vertical depth of 35 m . Additional work is planned to assess the tonnage and grade of
this silica and sulphide-rich deposit amenable to open pit mining; the ore may be used as flux by base metal processing plants.

## ROUYN-NORANDA - CADILLAC AREA (FIGURES 1C-2 AND 1C-3)

In 2004, 11 exploration projects were compiled in the RouynNoranda - Cadillac area. One producer, the Bouchard-Hébert mine, was in operation in the area in 2004.

On the MegaTEM-VMS project (project P44), Noranda Inc. and Alexis Minerals Corp. reported an impressive intercept of 5.16 m at $5.61 \% \mathrm{Cu}, 1.70 \% \mathrm{Zn}, 0.34 \mathrm{~g} / \mathrm{t} \mathrm{Au}$, and $17.6 \mathrm{~g} / \mathrm{t} \mathrm{Ag}$ (drillhole MON-04-09) at a vertical depth of 110 m , in the Lac Montbray area 25 km west of Rouyn-Noranda. A drillhole collared 50 m east of the discovery hole was underway at the end of the year. On the Fabie Bay - Magusi River property (project P27), Globex Mining Enterprises intersected 3.7 m grading $3.44 \% \mathrm{Cu}$ and $8.1 \mathrm{~g} / \mathrm{t} \mathrm{Ag}$ in drillhole H04-01, drilled to define the easternmost extent of the known mineralized zone.

On the LaRonde II project (project P9), Agnico-Eagle Mines Ltd continued its exploration drilling program at depth and to the west in Zone 20 North at the LaRonde mine. According to the company, the results suggest the presence of a higher-grade gold core at depth. They also suggest that Zone 20 North may expand at depth and toward the south and west.

## MALARTIC - SENNETERRE - VAL-D'OR AREA (FIGURES 1C-2 AND 1C-4)

In 2004, the number of exploration projects targeting polymetallic deposits in this area stood at 8 . One producer, the Louvicourt mine, was in operation in the Val-d'Or area in 2004.

On the Simkar property (project P38), located 20 km east of Val-d'Or, Megastar Development Corp. completed three drillholes testing an IP anomaly and the extension of the A-B and East zones. According to the company, anomalous Au-Cu values and the presence of alteration zones suggest the setting is favourable for volcanogenic mineralization. A drill program completed in the western part of the Abcourt-Barvue orebody (project P1) by Abcourt Mines Inc. yielded good results, such as 12.68 m at $141.58 \mathrm{~g} / \mathrm{t} \mathrm{Ag}$ and $2.77 \% \mathrm{Zn}$ in drillhole $\mathrm{AB} 04-22$. The company plans to extract an 80,000-tonne bulk sample in this area in 2005.

## tÉMISCAMINGUE REGION (FIGURE 1C-2)

In the Pontiac Subprovince, 4 exploration projects for polymetallic deposits were compiled.

Near Notre-Dame-du-Nord (project P59), Tres-Or Resources Ltd discovered in early 2004 a kimberlite pipe as well as a series of four kimberlite dykes respectively located 6 km northeast and 2 km southwest of the Guigues pipe. No diamonds were recovered from the newfound pipe.

## Opportunities for Exploration

## bASE METALS

Significant base metal (Cu-Zn) discoveries were made in the fall 2004 by Noranda Inc. in the Matagami area and by partners Noranda Inc. and Alexis Minerals Corp. west of RouynNoranda. These suggest the mineral potential in established mining camps remains quite high, despite several decades of intense exploration. The discovery of massive and semimassive sulphides, exhalites, and stringer sulphides at a depth of about 465 m at the "Renaissance" showing, located just 7 km from Noranda's mining infrastructure in Matagami, is yet another example of the tremendous potential of the volcanic sequence along the South Flank of the Galinée anticline, which hosts a series of volcanogenic massive sulphide deposits that were mined in the past.

The intersection of massive sulphides, followed by mineralized breccias and a stringer zone, at a shallow depth of 110 m in the Lac Montbray area, some 25 km west of RouynNoranda, emphasizes the potential of the western Blake River Group. This vast area, which extends from the Ontario border eastward to the Flavrian synvolcanic pluton, is not as well known as the Noranda central camp, where the vast majority of known massive sulphide deposits are located. Géologie Québec is currently conducting a regional geological survey in the western Blake River Group (Lafrance et al., 2004a, 2004b), in order to better define stratigraphic horizons likely to host VMS deposits and structures associated with epigenetic gold mineralization.

East of Rouyn-Noranda, in Joannès Township, mapping by Géologie Québec in 2004 identified a stratigraphic horizon with VMS potential in the Lac Dupuis Formation (Lafrance et al., 2004a, 2004b). In the vicinity of the Joannès-Chouinard property, located 3 km southeast of Lac Marillac, a single drillhole inter-
sected this horizon that contains a large pyrrhotite-pyrite stringer zone with weakly anomalous $\mathrm{Cu}-\mathrm{Zn}$ values. This horizon has seen little or no exploration, particularly along its regional extensions. The work of Géologie Québec shows this horizon may be traced over a lateral distance of nearly 12 km , namely from the Rivière Kinojévis in the west, eastward to an area southeast of the Joannès-Orion Au-Cu-Zn deposit. The results obtained in these three areas highlight the mineral potential of these regions, and as such, generate high expectations for exploration in the western part of the Abitibi Subprovince.

## PRECIOUS METALS

In 2004, exploration campaigns yielded positive results in many parts of the Abitibi and Pontiac subprovinces.

In the central part of the Urban-Barry belt, located 120 km east of Lebel-sur-Quévillon, Noront Resources Ltd completed a drill program on the Windfall property in Urban Township (NTS $34 \mathrm{G} / 04$ ), targeting the lateral extensions of known goldbearing zones in felsic volcanic rocks. Several drillholes intersected semi-massive pyrite zones with high gold grades. On the adjoining property to the north, Murgor Resources Inc. and Freewest Resources Canada Inc. also discovered new surface gold showings. These mineralized zones are hosted in the Windfall Member of the Macho Formation, recently outlined in the entire Urban-Barry belt by MRNFP mapping (Bandyayera et al., 2001, 2002, 2003). Eastward, in map sheet 32 G/03, several other felsic units were recognized in the Fecteau and Chanceux formations, as well as in the Freeman Member of the Urban Formation (Bandyayera et al., 2003). These units host gold and zinc-copper showings as well as sericite and chlorite alteration zones. Given the fact that logging roads were only very recently developed in the area, these km-scale felsic units have not been intensely explored. The Urban-Barry belt, and particularly the eastern part of the belt, represents a relatively underexplored area with significant economic potential.


.-. LIMITS OF SUBDIVISONS AS DEFINED IN THE TEXT C-B - M: Casa-Berardi - Matagami LsQ - D: Lebel-sur-Quévillon - Desmaraisville R-N - C: Rouyn-Noranda - Cadillac R-N - C: Rouyn-Noranda - Cadiliac N-LS - A: Normétal - La Sarre - Amos M - S - V-d'Or: Malartic - Senneterre - Val-d'Or<br>C: Chibougamau<br>T: Témiscamingue

Figure 1C-1. Geological legend of maps of the Abitibi and Pontiac Subprovinces (Figures 1C-1 and 1C-2).


Figure 1C-1. Exploration projects for gold in the Abitibi and Pontiac subprovinces for 2004. Modified from Hocq and Verpaelst (1994).


Figure 1C-2. Exploration projects for base metals in the Abitibi and Pontiac subprovinces for 2004. Modified from Hocq and Verpaelst (1994).

## 1C



Figure 1C-3. Exploration projects and mines in the Rouyn-Noranda - Cadillac area for 2004. Modified from Avramtchev and LebelDrolet (1981) and Couture (1991).

## 1C



Sedimentary rocksCadillac typePontiac type

Figure 1C-4. Exploration projects and mines in the Malartic - Val d'Or area for 2004. Modified from Avramtchev and Lebel-Drolet (1981) and Couture (1991).

| NO | TOWNSHIPS | Fig. | NTS | COMPANIES / PROSPECTORS | PROJECTS | SUBSTANCES | WORKS ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Aiguebelle | 1C-3 | $32 \mathrm{D} / 07$ | Typhoon Exploration Inc. | Fayolle | Au | D(14:3271), Gs(r), TE |
| 2 | Baby | 1C-1 | 31 M/06 | Fieldex Exploration Inc. / Aurora Platinum Corp. | Témiscamingue | $\mathrm{Au}, \mathrm{Cu}, \mathrm{Zn}, \mathrm{Pt}$ | Mag-EM(A), Pg, S, T |
| 3 | Barlow | 1C-1 | $32 \mathrm{G} / 16$ | Alexandria Minerals Corporation | Gwillin | $\mathrm{Au}, \mathrm{Cu}$ | G, Mag |
| 4 | Barraute, Carpentier | 1C-1 | $32 \mathrm{C} / 12$ | Phoenix Matachewan Mines Inc. | Swanson | $\mathrm{Au}, \mathrm{Cu}$ | G, IP |
| 5 | Barry | 1C-1 | $32 \mathrm{~B} / 13$ | Osisko Exploration Ltd / Murgor Resources Inc. / Freewest Resources Canada Inc. | Barry | Au | $\mathrm{D}($ ? $: 1846)$ |
| 6 | Bartouille | 1C-1 | $32 \mathrm{C} / 14$ | Cambior Inc. | Bartouille | $\mathrm{Au}, \mathrm{Zn}, \mathrm{Cu}, \mathrm{Ag}$ | D(5:844) |
| 7 | Beauchastel | 1C-3 | $32 \mathrm{D} / 03$ | Abcourt Mines Inc. | Mine Elder | Au | TE |
| 8 | Beauchastel | 1C-3 | $32 \mathrm{D} / 03$ | Richmont Mines Inc. | Wasamac | Au | D(5:3839) |
| 9 | Beauchastel | 1C-3 | $32 \mathrm{D} / 03$ | Globex Mining Entreprises Inc. | Arntfield Goldfields | Au | D(3:?) |
| 10 | Beauchastel | 1C-3 | $32 \mathrm{D} / 03$ | Yorbeau Resources Inc. | Augmito - Astoria II | Au | S, T |
| 11 | Beauchastel | 1C-3 | $32 \mathrm{D} / 03$ | Lake Shore Gold Corp. | Bazooka | Au | D(7:2047) |
| 12 | Beauchastel, Dasserat, Rouyn | 1C-3 | $32 \mathrm{D} / 03$ | Cadillac West Explorations Inc. | Several | Au | $\mathrm{Gs}(\mathrm{r})$, Mag-EM(A), Pr, Rsi |
| 13 | Berthiaume | 1C-1 | 32 F/07, 10 | Géonava Exploration Ldt / SOQUEM INC. / Freewest Resources Cananda Inc. | Berthiaume | Au | S, T |
| 14 | Blondeau | 1C-1 | $31 \mathrm{M} / 07$ | Searchgold Resources Inc. | Lac Crevier | Au | Pr, S, T |
| 15 | Bourlamaque | 1C-4 | $32 \mathrm{C} / 04$ | Société Minière Rivière Harricana Inc. / Aur Resources Inc. | Aubel | Au | Mag |
| 16 | Bourlamaque | 1C-4 | $32 \mathrm{C} / 04$ | Century Mining Corp. | Sigma-Lamaque | Au | D(375:18 677), Env |
| 17 | Bourlamaque | 1C-4 | $32 \mathrm{C} / 04$ | Kalahari Resources Inc. | Lamaque | Au | $\mathrm{D}(56: 11$ 122), Gs(h) |
| 18 | Bourlamaque, Louvicourt | 1C-4 | $32 \mathrm{C} / 03,04$ | South-Malartic Exploration Inc. / Cambior Inc. | Tex-Sol | Au | D(2:496), IP, Mag, Pr |
| 19 | Bourlamaque, Louvicourt | 1C-4 | $32 \mathrm{C} / 03,04$ | Cambior Inc. | Akasaba - Bloc Sud | Au | D(4:2148), DPEM |
| 20 | Bourlamaque, Louvicourt | 1C-4 | $32 \mathrm{C} / 03,04$ | Cambior Inc. / Aur Resources Inc. | Valdora-Annamaque | Au | D(14:4310), IP, Mag |
| 21 | Bousquet | 1C-3 | $32 \mathrm{D} / 02,07$ | Agnico-Eagle Mines Ltd | Ellison (PN-121) | $\mathrm{Au}, \mathrm{Ag}, \mathrm{Zn}, \mathrm{Cu}$ | $\mathrm{D}(2: 1340)$ |
| 22 | Bousquet | 1C-3 | $32 \mathrm{D} / 02,07$ | Agnico-Eagle Mines Ltd | Norbar (PN-127) | $\mathrm{Au}, \mathrm{Ag}, \mathrm{Zn}, \mathrm{Cu}$ | $\mathrm{D}(1: 1238)$ |
| 23 | Bousquet | 1C-3 | $32 \mathrm{D} / 02$ | Agnico-Eagle Mines Ltd | Norgold (PN-120) | $\mathrm{Au}, \mathrm{Ag}, \mathrm{Zn}, \mathrm{Cu}$ | D(4:2144) |


| NO | TOWNSHIPS | Fig. | NTS | COMPANIES / PROSPECTORS | PROJECTS | SUBSTANCES | WORKS ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24 | Bousquet | 1C-3 | 32 D/01 | Agnico-Eagle Mines Ltd | Normand Lake (PN-114) | $\mathrm{Au}, \mathrm{Ag}, \mathrm{Zn}, \mathrm{Cu}$ | D(5:948) |
| 25 | Bousquet | 1C-3 | $32 \mathrm{D} / 01$ | Agnico-Eagle Mines Ltd | Terrex (PN-125) | Au | D(6:1924) |
| 26 | Bousquet | 1C-3 | $32 \mathrm{D} / 02$ | Cambior Inc. | Doyon | Au | D(1:1161), DPEM, Cs $(\mathrm{r})$, TE |
| 27 | Bousquet | 1C-3 | 32 D/02 | Cambior Inc. | Westwood-Warrenmac | Au | D(4:4233), DPEM, Gs(r) |
| 28 | Bousquet | 1C-3 | 32 D/02 | Cambior Inc. / Breakwater Resources Ltd | Bousquet-Ferris | $\mathrm{Au}, \mathrm{Cu}$ | D(3:811) |
| 29 | Bousquet | 1C-3 | $32 \mathrm{D} / 02$ | Cambior Inc. | Mine Mouska | Au | D (?:6809) |
| 30 | Bousquet | 1C-3 | 33 D/02 | Cambior Inc. | Mine Doyon | $A u$ | D(188:38 350) |
| 31 | Boyvinet | 1C-1 | $\begin{aligned} & 32 \mathrm{~F} / 09 \\ & 32 \mathrm{G} / 12 \end{aligned}$ | NioGold Mining Corp. | Lake Shortt | Au | S, T |
| 32 | Bruneau, Desjardins | 1C-1 | $32 \mathrm{~F} / 06$ | Strateco Resources Inc. / Géonava Exploration Ldt | Discovery | Au | D(11:4500), Mag, TE |
| 33 | Bruneau, Desjardins | 1C-1 | 33 F/06 | Strateco Resources Inc. / Géonava Exploration Ldt | Cameron | Au | D(7:2411), Pr |
| 34 | Cadillac | 1C-3 | 32 D/02 | Queenston Mining Inc. | Pandora | Au | D(5:4358) |
| 35 | Cadillac | 1C-3 | $32 \mathrm{D} / 01$ | Agnico-Eagle Mines Ltd | Chibex South (PN-124) | Au | D(13:5330) |
| 36 | Cadillac | 1C-3 | $32 \mathrm{D} / 01$ | Agnico-Eagle Mines Ltd | Chibex North (PN-123) | Au | D(12:4334) |
| 37 | Cadillac | 1C-3 | $32 \mathrm{D} / 01$ | Agnico-Eagle Mines Ltd | Bruce (PN-108) | $\mathrm{Au}, \mathrm{Ag}, \mathrm{Zn}, \mathrm{Cu}$ | D(3:2477) |
| 38 | Cadillac | 1C-3 | $32 \mathrm{D} / 01$ | Agnico-Eagle Mines Ltd | Lapa (PN-118) | Au | D(47:28 847) |
| 39 | Cadillac | 1C-3 | $32 \mathrm{D} / 01$ | Golden Valley Mines Ltd | Cadillac High | Au | D(3:260), EM, IP, Mag |
| 40 | Cadillac | 1C-3 | 32 D/01 | Globex Mining Entreprises Inc. / Queenston Mining Inc. | Wood | Au | D(1:1050) |
| 41 | Cadillac | 1C-3 | $32 \mathrm{D} / 01$ | Radisson Mining Resources Inc. | O'Brian-Kéwagama | Au | D(6:6000) |
| 42 | Carpentier | 1C-1 | $32 \mathrm{C} / 05$ | Abitex Resources Inc. / Placements J.E. Jolin | Jolin | Au | Mag-Em(A), Rsi, T |
| 43 | Carpiquet | 1C-1 | $32 \mathrm{G} / 04$ | Les Ressources Tectonic Inc. | Panache | Au | Pr |
| 44 | Casa-Berardi, Dieppe, Estrées, Puiseaux | 1C-1 | $32 \mathrm{E} / 10,11$ | Aurizon Mines Ltd | Casa Berardi | Au | D(?:21 400), Grav |
| 45 | Casa-Bérardi, Laberge | 1C-1 | $32 \mathrm{E} / 06,11$ | Cambior Inc. / Cancor Mines Inc. | Gémini-Turgeon | $\mathrm{Au}, \mathrm{Cu}, \mathrm{Zn}$ | D(17:7192), IP, Mag |
| 46 | Céleron | 1C-1 | $32 \mathrm{E} / 01$ | Denis Cyr | Céleron | Au | Pr |
| 47 | Chaste | 1C-1 | 32 F/04 | Cambior Inc. / Aurizon Mines Ltd | Mine Céant Dormant | $A u, A g$ | D(276:51 276) |
| 48 | Chaste, Glandelet | 1C-1 | $\begin{aligned} & 32 \mathrm{E} / 01, \\ & 32 \mathrm{~F} / 04 \end{aligned}$ | Cambior Inc. / Aurizon Mines Ltd | Dormex | Au | D(6:2325), IP, Mag |


| NO | TOWNSHIPS | Fig. | NTS | COMPANIES / PROSPECTORS | PROJECTS | SUBSTANCES | WORKS ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 49 | Courville | 1C-1 | $32 \mathrm{C} / 06$ | South-Malartic Exploration Inc. | Courville | Au | Mag |
| 50 | Courville | 1C-1 | $32 \mathrm{C} / 06$ | South-Malartic Exploration Inc. | Belcourt | Au | IP, Mag |
| 51 | Courville | 1C-1 | $32 \mathrm{C} / 06$ | Pershimco Resources Inc. | Courville | $\mathrm{Au}, \mathrm{Ag}$ | B(13 000:?), D(?:500), Gs, T |
| 52 | Dasserat | 1C-3 | 32 D/03 | Searchgold Resources Inc | Lac Fortune Ouest | Au | Pr, S, T |
| 53 | Destor | 1C-3 | $32 \mathrm{D} / 10$ | Golden Valley Mines Ltd | Sea Serpent | Au | IP, EM, Mag |
| 54 | Destor | 1C-3 | $32 \mathrm{D} / 11$ | Golden Valley Mines Ltd | Double Trouble | Au | IP, EM, Mag |
| 55 | Dubuisson | 1C-4 | $32 \mathrm{C} / 04$ | Wesdome Gold Mines Inc. | Kiena | Au | D(20:5000) |
| 56 | Dubuisson | 1C-4 | $32 \mathrm{C} / 04$ | Northern Star Mining Corp. | Midway | Au | $\begin{aligned} & \text { D(39:11 539), G, Gs(r), } \\ & \text { Mag } \end{aligned}$ |
| 57 | Dubuisson | 1C-4 | $32 \mathrm{C} / 04$ | Alexandria Minerals Corporation | Siscoe East | Au | G, Mag |
| 58 | Dubuisson | 1C-4 | $32 \mathrm{C} / 04$ | Metanor Resources Inc. | Dubuisson | Au | D(?:6000), Gp |
| 59 | Dubuisson | 1C-4 | $32 \mathrm{C} / 04$ | Agnico-Eagle Mines Ltd | Goldex | Au | D(? ? ? ), B(20 000:?) |
| 60 | Dubuisson | 1C-4 | $\begin{aligned} & 32 \text { D/01, } \\ & 32 \text { C/04 } \end{aligned}$ | Golden Valley Mines Ltd | Dubuisson | Au | D(4:544), EM, IP, Mag |
| 61 | Duparquet | 1C-3 | 32 D/06 | Queenston Mining Inc. / Globex Mining Entreprises Inc. | Duquesne West | Au | D(9:5943) |
| 62 | Duparquet | 1C-3 | $32 \mathrm{D} / 11$ | Golden Valley Mines Ltd | Ruisseau Déguisé | Au | EM, IP, Mag |
| 63 | Duparquet | 1C-3 | $32 \mathrm{D} / 11$ | Golden Valley Mines Ltd | Golden Jet | Au | EM, IP, Mag |
| 64 | Duparquet, Palmarolle | 1C-3 | $32 \mathrm{D} / 11$ | Cambior Inc. / SOQUEM INC. | Hunter-Duparquet | Au | D(2:305), IP |
| 65 | Dussieux | 1C-1 | $32 \mathrm{~F} / 14,15$ | Sirios Resources Inc. | Dussieux | Au | D(4:588) |
| 66 | Duvernay | 1C-1 | $32 \mathrm{C} / 12$ | Globex Mining Entreprises Inc. | Duvay | Au | IP |
| 67 | Estrées | 1C-1 | $32 \mathrm{~F} / 10$ | Cambior Inc. / Canley Development Inc. | Estrées-Caribou | $\mathrm{Au}, \mathrm{Cu}, \mathrm{Zn}$ | D(6:2269), IP, Mag |
| 68 | Fénelon | 1C-1 | $32 \mathrm{E} / 15$ | International Taurus Resources Inc. / Fairstar Explorations Inc. | Fénelon Gold | Au | Met |
| 69 | Fénelon, Gaudet | 1C-1 | $32 \mathrm{E} / 15$ | J. Figon, G. Robert, L. Martel / Pro-veinor Resources Inc. | Fénelon-Gaudet | Au, Base metals | D(6:1400), S |
| 70 | Fiedmont, Courville | 1C-1 | $32 \mathrm{C} / 05$ | Wesdome Gold Mines Inc. | McKenzie Break | Au | D (37:4550) |
| 71 | Fournière | 1C-4 | $32 \mathrm{D} / 01$ | Cambior Inc. | Piché | Au | IP, Mag, Pr |
| 72 | Galinée | 1C-1 | $32 \mathrm{~F} / 12$ | Cambior Inc. | Galinée-Newmont | Au, Base metals | ET, Gs, IP, Mag |


| NO | TOWNSHIPS | Fig. | NTS | COMPANIES / PROSPECTORS | PROJECTS | SUBSTANCES | WORKS ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 73 | Gand | 1C-1 | $32 \mathrm{G} / 12$ | SOQUEM INC. / Itamineraque Resources Inc. | Gandex (1232) | Au | D(2:1015) |
| 74 | Gradis, Drouet, Druillettes | 1C-1 | $32 \mathrm{G} / 06,11$ | Lake Shore Gold Corp. | Drouet | Au | $\mathrm{Gs}(\mathrm{r}), \mathrm{Gs}(\mathrm{sl}), \mathrm{Gs}(\mathrm{t})$ |
| 75 | Guillet | 1C-1 | $31 \mathrm{M} / 07$ | J. Viger | Platior | $\mathrm{Au}, \mathrm{Pt}$ | EM, Gs(s), Pr, S |
| 76 | Guillet | 1C-1 | $31 \mathrm{M} / 07$ | Vantex Resources Ltd | Guillet | Au | D(26:?), G, Pr, S, T |
| 77 | Hauy | 1C-1 | $32 \mathrm{G} / 09,10$ | Les Ressources Tectonic Inc. | Hygrade | Au | G |
| 78 | Hébécourt | 1C-3 | $32 \mathrm{D} / 11$ | Cambior Inc. | Porcupine | Au | D(5:2706) |
| 79 | Joannes | 1C-3 | $32 \mathrm{D} / 02$ | Alexandria Minerals Corporation | Joannes | Au | G, Mag, Pr |
| 80 | La Dauversière | 1C-1 | $32 \mathrm{G} / 09$ | Ressources D'Arianne Inc. | La Dauversière | Au | S, T |
| 81 | La Dauversière | 1C-1 | $32 \mathrm{G} / 08,09$ | Campbell Resources Inc. / SOQUEM INC. | Joe Mann | $\mathrm{Au}(\mathrm{Ag}-\mathrm{Cu})$ | D(31:8465), EM, Gs, IP, Pr |
| 82 | La Dauversière | 1C-1 | $32 \mathrm{G} / 08,09$ | Campbell Resources Inc. / SOQUEM INC. | Mine Joe Mann | Au ( Ag -Cu) | $D(? ?$ ? |
| 83 | Lacroix | 1C-1 | $32 \mathrm{G} / 03$ | Jean Descarreaux et Ass. Ltée | Lacroix | Au | G, Gs(r), S, T |
| 84 | Lespérance | 1C-1 | $32 \mathrm{G} / 12$ | Matamec Explorations Inc. | Lespérance | Au | ET, Cs(t), IP |
| 85 | Lesueur | 1C-1 | $32 \mathrm{~F} / 08$ | Wolfden Resources Inc. / Metanor Resources Inc. | Bachelor Lake Gold Mine | Au | ET |
| 86 | Lesueur, Lespérance | 1C-1 | $32 \mathrm{G} / 12$ | SOQUEM INC. / Northern Mining Eplorations Ltd | Lespérance (1194) | Au | Mag-Em(A) |
| 87 | Lesueur, Lespérance, Gand, Boyvinet | 1C-1 | $32 \mathrm{G} / 12$ | SOQUEM INC. / Northern Mining Eplorations Ltd | Lac Shortt (1123) | Au | D(7:2873), Mag-EM(A), S |
| 88 | Louvicourt | 1C-4 | $32 \mathrm{C} / 03$ | Megastar Development Corp. | Simkar | $\mathrm{Au}, \mathrm{Cu}$ | D(3:900) |
| 89 | Louvicourt | 1C-4 | $32 \mathrm{C} / 03$ | Louvem Mines Inc. / SOQUEM INC. | Monique | Au | D(7:3865) |
| 90 | Malartic | 1C-4 | $32 \mathrm{D} / 01$ | South-Malartic Exploration Inc. / Prospectors | Héva-Malartic | Au | D(5:800), IP, Mag |
| 91 | Malartic | 1C-4 | $32 \mathrm{D} / 01$ | Ressources D'Arianne Inc. | Rivière Héva | Au | IP, G |
| 92 | Malartic | 1C-4 | $32 \mathrm{D} / 01$ | Richmont Mines Inc. | East Amphi | Au | D(66:14 022) |
| 93 | Malartic | 1C-4 | $32 \mathrm{D} / 01$ | Richmont Mines Inc. / SOQUEM INC. | Camflo NO | Au | $\mathrm{D}(1: 453)$ |
| 94 | Malartic | 1C-4 | $32 \mathrm{D} / 01$ | Golden Valley Mines Ltd | Héva-Minor | Au | D(4:400), EM, IP, Mag |
| 95 | Malartic | 1C-4 | $32 \mathrm{D} / 01$ | Golden Valley Mines Ltd | Rivière Héva | Au | D(2:166), EM, IP, Mag |
| 96 | McCorkill | 1C-1 | $32 \mathrm{G} / 16,32 \mathrm{~J} / 01$ | Typhoon Exploration Inc. | Monexco | Au | D(7:320), G, Gs(r), S |
| 97 | McCorkill | 1C-1 | $32 \mathrm{H} / 13,32 \mathrm{l} / 04$ | Typhoon Exploration Inc. | McCorkill | Au | G, Gs(r), S |
| 98 | McKenzie | 1C-1 | $32 \mathrm{G} / 16$ | SOQUEM INC. / Itamineraque Resources Inc. | Brosman (1230) | Au | D(12:2358), G, IP, Mag, Pr |


| NO | TOWNSHIPS | Fig. | NTS | COMPANIES / PROSPECTORS | PROJECTS | SUBSTANCES | WORKS ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 99 | Miniac | 1C-1 | 32 D/16 | Globex Mining Entreprises Inc. | Miniac | $\mathrm{Au}, \mathrm{Zn}$ | G, Pr |
| 100 | Noyelles | 1C-1 | 32 F/06, 11 | GéoNova Exploration Inc. / SOQUEM INC. / Freewest Resources Cananda Inc. | Noyelles | Au | EM, IP, S, T |
| 101 | Opémisca | 1C-1 | $32 \mathrm{G} / 14,15$ | SOQUEM INC. / Nimsken Corporation Inc. | Michwacho (1340) | $\mathrm{Au}, \mathrm{Cu}, \mathrm{PGE}$ | EM, IP, Mag, Mag-EM(A) |
| 102 | Orvilliers, Montgolfier | 1C-1 | $32 \mathrm{E} / 10$ | J-Pacific Gold Inc. | Montgolfier | Au | ET, Pr |
| 103 | Palmarolle | 1C-1 | $32 \mathrm{D} / 11$ | Golden Valley Mines Ltd | Palmarolle | Au | EM, IP, Mag |
| 104 | Palmarolle | 1C-1 | $32 \mathrm{D} / 11$ | Golden Valley Mines Ltd | Witch Hunt | Au | EM, IP, Mag |
| 105 | Pascalis | 1C-4 | $32 \mathrm{C} / 04$ | South-Malartic Exploration Inc. | Pascalis | Au | D(4:850), Mag |
| 106 | Pascalis | 1C-4 | $32 \mathrm{C} / 04$ | Richmont Mines Inc. | Beaufor | Au | D(1:300) |
| 107 | Pascalis | 1C-4 | $32 \mathrm{C} / 04$ | Richmont Mines Inc. | Mine Beaufor | $A u$ | $D(?: 13$ 396) |
| 108 | Pascalis, Louvicourt | 1C-4 | $32 \mathrm{C} / 04$ | Richmont Mines Inc. / Louvem Mines Inc. | Colombière | Au | D(2:801) |
| 109 | Pershing | 1C-4 | $32 \mathrm{C} / 03$ | Exploration Malartic-Sud Inc. | Croinor | Au | D(56:9729), IP, Mag, T |
| 110 | Pershing | 1C-4 | $32 \mathrm{C} / 03$ | South-Malartic Exploration Inc. | Pershing | Au | D(4:800), Mag |
| 111 | Pershing, Tiblemeont | 1C-4 | $32 \mathrm{C} / 03$ | South-Malartic Exploration Inc. | Bel-Rive | Au | D(7:1300), IP, Mag |
| 112 | Quévillon | 1C-1 | $32 \mathrm{~F} / 03$ | Alexandria Minerals Corporation | Quévillon | Au | G, Mag, Pr |
| 113 | Roquemaure | 1C-1 | $32 \mathrm{D} / 11$ | Golden Valley Mines Ltd | Playa Dolce | Au | EM, IP, Mag |
| 114 | Rouyn | 1C-3 | $32 \mathrm{D} / 03$ | Yorbeau Resources Inc. | Astoria 1 | Au | S, T |
| 115 | Rouyn, Joannes | 1C-3 | $32 \mathrm{D} / 02$ | Cambior Inc. | Rouyn-Merger | Au | ET, IP |
| 116 | Senneville, Vassan | 1C-4 | $32 \mathrm{C} / 04$ | JCML Resources Inc. | Val d'Or | $\mathrm{Au}, \mathrm{Cu}$ | $\mathrm{D}(1: 250)$ |
| 117 | Tavernier | 1C-4 | $32 \mathrm{C} / 03$ | South-Malartic Exploration Inc. | Lac Tavernier | Au | IP, Mag |
| 118 | Tiblemont | 1C-4 | $32 \mathrm{C} / 06$ | South-Malartic Exploration Inc. | Robinson | Au | EM, IP |
| 119 | Urban | 1C-1 | $\begin{aligned} & 32 \text { B/13, } \\ & 32 \text { G/04 } \end{aligned}$ | Beaufield Consolidated Resources Inc. | Lac Rouleau | Au | D(11:860), Gs(sl), Mag |
| 120 | Urban | 1C-1 | $32 \mathrm{G} / 04$ | Noront Resources Ltd | Windfall Lake | Au | D(15:5645), DPEM, S, T |
| 121 | Vassan | 1C-4 | $32 \mathrm{C} / 04$ | Golden Valley Mines Ltd | Vassan | Au | D(2:200), EM, IP, Mag |
| 122 | Vauquelin | 1C-4 | $32 \mathrm{C} / 03$ | South-Malartic Exploration Inc. / C2C INC. | Bruell | Au | G |
| 123 | Cléricy | 1C-3 | 32 D/07 | Alexis Minerals Corporation | Noralex - Au | Au | $\mathrm{D}(16: 4044), \mathrm{Gs}(\mathrm{r}), \mathrm{IP},$ <br> Mag, TE |

1C
1 = See abbreviation list in appendix II.

| No | TOWNSHIPS | Fig. | NTS | COMPANIES / PROSPECTORS | PROJECTS | SUBSTANCES | WORKS ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P1 | Barraute | 1C-2 | $32 \mathrm{C} / 12$ | Abcourt Mines Inc. | Abcourt-Barvue | $\mathrm{Zn}-\mathrm{Ag}$ | D(? 1700 ), TE |
| P2 | Beauchastel | 1C-3 | 32 D/03, 06 | SOQUEM INC. | Lac Arnoux (1162) | $\mathrm{Zn}-\mathrm{Cu}$ | EM |
| P3 | Belmont | 1C-2 | $32 \mathrm{G} / 03$ | Abitex Resources Inc. / Clearview Minerals | St-Cyr | Ni-Cu-Co-PGE | Pr, T, Mag, G |
| P4 | Bergère | 1C-2 | $32 \mathrm{~F} / 07,10$ | Explorateurs Innovateurs de Québec Inc. / Freewest Resources Canada Inc. | Suite Syndicat Ex-66 | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Au}$ | T, Gs(r) |
| P5 | Beschefer | 1C-2 | $32 \mathrm{E} / 15$ | SOQUEM INC. | Beschefer (11722) | $\mathrm{Zn}-\mathrm{Cu}$ | Pr |
| P6 | Bourbeaux | 1C-2 | $32 \mathrm{~F} / 10$ | Explorateurs Innovateurs de Québec Inc. | Goéland Ex-63 | Ni-Cu-Co-PGE | T, Gs(r) |
| P7 | Brouillan | 1C-2 | $32 \mathrm{E} / 14$ | SOQUEM INC. | Wagosic (1338) | $\mathrm{Zn}-\mathrm{Cu}$ | Mag, EM |
| P8 | Brouillan, Carheil | 1C-2 | $32 \mathrm{E} / 14$ | Woodruff Capital Management Inc. / Inmet Mining Corp | Selbaie West | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Au}-\mathrm{Ag}$ | EM |
| P9 | Cadillac | 1C-3 | $32 \mathrm{D} / 08$ | Agnico-Eagle Mines Ltd | Mine LaRonde | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Au}-\mathrm{Ag}$ | D (275:48610) |
| P10 | Cavelier | 1C-2 | $32 \mathrm{~F} / 12$ | Noranda Inc. / Phelps Dodge Corporation | PD-2 | $\mathrm{Zn}-\mathrm{Cu}-\mathrm{Ag}-\mathrm{Au}$ | D(4:1292), DPEM |
| P11 | Cavelier, Galinée | 1C-2 | $32 \mathrm{~F} / 12$ | SOQUEM INC. / Metco Resources Inc. | Du DômeMatagami (1288) | $\mathrm{Zn}-\mathrm{Cu}$ | D(5:1628), EM, Mag, Gs(r) |
| P12 | Dalet | 1C-2 | $32 \mathrm{E} / 01$ | M. Morin | Dalet | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Au}$ | Pr |
| P13 | Dalquier | 1C-2 | $32 \mathrm{D} / 09$ | D. Cyr | Dalquier | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Au}-\mathrm{Ag}$ | Pr, T |
| P14 | Desmazures | 1C-2 | $32 \mathrm{E} / 09$ | SOQUEM INC. | $\begin{aligned} & \text { B6-20 } \\ & \text { Mc Ivor (1214) } \end{aligned}$ | $\mathrm{Zn}-\mathrm{Cu}$ | D(2:583), EM, DPEM, Gs(r) |
| P15 | Des Méloïzes, Perron, Clermont, Rousseau | 1C-2 | $32 \mathrm{D} / 14$ | SOQUEM INC. | Lac Des Méloïzes (1356) | $\mathrm{Zn}-\mathrm{Cu}$ | Pr |
| P16 | Destor, Poularies | 1C-3 | $32 \mathrm{D} / 10$ | Globex Mining Enterprises Inc. | Lyndhurst | $\mathrm{Cu}-\mathrm{Zn}$ | D(1:?) |
| P17 | Duparquet, Hébécourt, Destor | 1C-3 | $32 \mathrm{D} / 11$ | SOQUEM INC. | Ruisseau Deguisier (1357) | $\mathrm{Zn}-\mathrm{Cu}$ | EM |
| P18 | Duverny | 1C-2 | $32 \mathrm{C} / 12$ | Globex Mining Enterprises Inc. | DW | $\mathrm{Cu}-\mathrm{Ni}$ | Pr, E |
| P19 | Figuery | 1C-2 | $32 \mathrm{D} / 08$ | SOQUEM INC. | Wathish (1353) | $\mathrm{Ni}-\mathrm{Cu}-\mathrm{PGE}$ | EM, Mag |
| P20 | Fournière | 1C-4 | $32 \mathrm{D} / 01$ | 170364 Canada Inc. / C2C Inc. | Fournière | Cu | D(4:710), Mag, IP |
| P21 | Gaboury | 1C-2 | $31 \mathrm{M} / 06$ | Hinterland Metals Inc. | Lorraine | $\mathrm{Ni}-\mathrm{Cu}-\mathrm{PGE}-\mathrm{Au}$ | D(4:1604), DPEM |
| P22 | Galinée | 1C-2 | $32 \mathrm{~F} / 13$ | Beaufield Consolidated Resources Inc. | Matagami | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Au}-\mathrm{Ag}$ | D(4:380), Mag |
| P23 | Galinée | 1C-2 | $32 \mathrm{~F} / 12$ | Noranda Inc. | Bracemac | $\mathrm{Zn}-\mathrm{Cu}-\mathrm{Ag}-\mathrm{Au}$ | D(4:2176), DPEM |


| No | TOWNSHIPS | Fig. | NTS | COMPANIES / PROSPECTORS | PROJECTS | SUBSTANCES | WORKS ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P24 | Galinée | 1C-2 | $32 \mathrm{~F} / 12$ | Noranda Inc. | McLeod (Renaissance) | $\mathrm{Zn}-\mathrm{Cu}-\mathrm{Ag}-\mathrm{Au}$ | D(14:8715), DPEM, Gs(h) |
| P25 | Guercheville, <br> La Ronde, Du Guesclin | 1C-2 | $32 \mathrm{G} / 05,06$ | SOQUEM INC. | Wachigabau (1324) | PGE | Pr |
| P26 | Hébécourt | 1C-3 | $32 \mathrm{D} / 06$ | Alexandria Minerals Corporation | Hébécourt | Cu-Zn-Au-Ag | Mag |
| P27 | Hébécourt | 1C-3 | 32 D/06 | Globex Mining Enterprises Inc. | Baie Fabie Rivière Magusi | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Ag}$ | D (1:?) |
| P28 | La Gauchetière, Desmazures | 1C-2 | $32 \mathrm{E} / 09,16$ | SOQUEM INC. / Metco Resources Inc. | Caber (1309) | $\mathrm{Zn}-\mathrm{Cu}$ | EM |
| P29 | La Morandière | 1C-2 | $32 \mathrm{C} / 12$ | Explor Resources Inc. | La Morandière | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Ag}$ | D(5:1500), Mag, DPEM |
| P30 | Landrienne | 1C-2 | $32 \mathrm{C} / 05$ | Woodruff Capital Management Inc. / Inmet Mining Corp | Landrienne | Cu-Zn-Au-Ag | D(3:744), EM |
| P31 | Lemoine | 1C-2 | $32 \mathrm{G} / 16$ | Woodruff Capital Management Inc. / Inmet Mining Corp | Lemoine | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Au}-\mathrm{Ag}$ | D(11:8871), DPEM |
| P32 | Lemoine | 1C-2 | $32 \mathrm{G} / 09$ | Ressources MSV Inc. | Corner Bay | Cu | D(85:14420) |
| P33 | L'Espinay | 1C-2 | $32 \mathrm{G} / 03$ | Antoro Resources Inc. | St-Urbain | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Au}$ | Pr |
| P34 | Lesueur, Le Tac | 1C-2 | $32 \mathrm{~F} / 08$ | SOQUEM INC. / Explorations minières du Nord | Le Tac (40412) | Cu-Zn-Au-Ag | Mag, EM |
| P35 | Le Tac | 1C-2 | $32 \mathrm{~F} / 08$ | Antoro Resources Inc. | McLennan | Diamant-Au | Gs(t) |
| P36 | Lévy | 1C-2 | $32 \mathrm{G} / 15$ | 2736-1179 Québec Inc. | Mine Cooke | $\mathrm{Cu}-\mathrm{Au}-\mathrm{Zn}-\mathrm{Pb}-\mathrm{Ag}$ | D(7:2620) |
| P37 | Lévy | 1C-2 | $32 \mathrm{G} / 15$ | Explorateurs Innovateurs de Québec Inc. | Opemisca Ex-07C | $\mathrm{Cu}-\mathrm{Au}$ | Mag, T, Gs(r) |
| P38 | Louvicourt | 1C-4 | $32 \mathrm{C} / 03$ | Megastar Development Corporation | Simkar | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Au}-\mathrm{Ag}$ | D(3:?) |
| P39 | Mazenod, Fabre | 1C-2 | $31 \mathrm{M} / 03$ | Kinbauri Gold Corporation | Laniel | PGE-Diamant | Mag, Cs (t), Pr |
| P40 | McKenzie | 1C-2 | $32 \mathrm{G} / 16$ | SOQUEM INC. / Itamineraque Resources Inc. | Mop II (1206) | Cu -Au | D(17:4897), Pr |
| P41 | McKenzie | 1C-2 | $32 \mathrm{G} / 16$ | SOQUEM INC. / Itamineraque Resources Inc. | Radar (1287) | Cu -Au | $\mathrm{D}(7: 1514)$ |
| P42 | McKenzie | 1C-2 | $32 \mathrm{C} / 16$ | Ressources Meston Inc. / SOQUEM INC. | CM 437 | $\mathrm{Cu}-\mathrm{Au}$ | DPEM |
| P43 | McKenzie, Roy | 1C-2 | $32 \mathrm{G} / 16$ | MSV Resources Inc. | Baie du Commencement | $\mathrm{Cu}-\mathrm{Au}$ | D(6:1660), Mag, EM, IP |
| P44 | - | 1C-3 | - | Alexis Mineral Corporation / Noranda Inc. / Falconbridge Ltd | MégaTEM-VMS | $\mathrm{Cu}-\mathrm{Zn}$ | $\begin{aligned} & \text { D(18:6607), Mag, } \\ & \text { DPEM, Gs(r) } \end{aligned}$ |
| P45 | Montbray | 1C-3 | $32 \mathrm{D} / 06$ | SOQUEM INC. | New Insco (1361) | $\mathrm{Zn}-\mathrm{Cu}$ | Mag, EM |


| No | TOWNSHIPS | Fig. | NTS | COMPANIES / PROSPECTORS | PROJECTS | SUBSTANCES | WORKS ${ }^{(1)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P46 | Mountain, Grevet | 1C-2 | $32 \mathrm{~F} / 02$ | Breakwater Resources Ltd | Mine Langlois | $\mathrm{Zn}-\mathrm{Cu}-\mathrm{Ag}-\mathrm{Au}$ | TE |
| P47 | Poirier | 1C-2 | $32 \mathrm{E} / 08$ | Globex Mining Enterprises Inc. / Noranda Inc. | Poirier Sud | $\mathrm{Cu}-\mathrm{Zn}$ | $\mathrm{Pr}, \mathrm{S}$ |
| P48 | Poirier, Joutel | 1C-2 | $32 \mathrm{E} / 08$ | SOQUEM INC. / Orient Resources Inc. | Joutel West (1290) | $\mathrm{Zn}-\mathrm{Cu}$ | EM |
| P49 | Rouyn, Beauchastel | 1C-3 | $32 \mathrm{D} / 03$ | SOQUEM INC. / Thundermin Resources Inc. / Itamineraque Resources Inc. | Lac Pelletier (1298) | $\mathrm{Ni}-\mathrm{Cu}-\mathrm{PGE}$ | D(6:1749), Gs(r) |
| P50 | Ste-Hélène, <br> La Gauchetière, Bapst | 1C-2 | $32 \mathrm{E} / 16$ | SOQUEM INC. | Samson (1091) | $\mathrm{Zn}-\mathrm{Cu}$ | Mag, EM |
| P51 | Tavernier, Pershing | 1C-4 | $32 \mathrm{C} / 02,03$ | SOQUEM INC. | Matchi-Manitou (1352) | $\mathrm{Zn}-\mathrm{Cu}$ | Mag, EM |
| P52 | Urban | 1C-2 | $32 \mathrm{G} / 04$ | Urbana Corporation | Urban Township | $\mathrm{Cu}-\mathrm{Au}$ | Mag, EM |
| P53 | - | 1C-2 | 31 M/06, 07 | Aurora Platinum Corporation / Fieldex Exploration Inc. | Temiscamingue | Cu-Ni-Pt-Pd-Au | D(2:450), Mag, EM, Pr, T |
| P54 | - | 1C-2 | - | SOQUEM INC. | RÉA-MB-Abitibi (2161) | $\mathrm{Zn}-\mathrm{Cu}$ | Gs(r) |
| P55 | - | 1C-2 | $32 \mathrm{E} / 15,32 \mathrm{~L} / 02$ | Majescor Resources Inc. | Nothaway | Diamant-Au | Rcd(7:305) |
| P56 | - | 1C-2 | $32 \mathrm{~F} / 08$ | Ressources Broadback Inc. / Sirios Resources Inc. | Val-d'Or nickel | Cu-Ni-PGE | D(3:830) |
| P57 | - | 1C-2 | - | Noranda Inc. | Matagami 3D | $\mathrm{Zn}-\mathrm{Cu}-\mathrm{Ag}-\mathrm{Au}$ | TE |
| P58 | - | 1C-2 | - | Noranda Inc. | Matagami AEM | $\mathrm{Zn}-\mathrm{Cu}-\mathrm{Ag}-\mathrm{Au}$ | D(4:1019), DPEM, EM, Mag |
| P59 | Nédelec, Guérin, Guigues, Baby | 1C-2 | 31 M/11 | Tres-Or Resources Ltd | Temiscamingue | Diamant | $\mathrm{D}($ ? ? ? ), Gp, Gs (t) |
| P60 | Barraute | 1C-2 | $32 \mathrm{C} / 05$ | Gestion Aline Leclerc Inc. | Barraute-Centre | Cu-Zn-Au-Ag | Pr, Gs(r) |
| P61 | Tavernier | 1C-4 | $32 \mathrm{C} / 06$ | Gestion Aline Leclerc Inc. | Tavernier A | Cu-Zn-Au-Ag | Pr, Gs(r) |
| P62 | Senneterre | 1C-2 | $32 \mathrm{C} / 06$ | Gestion Aline Leclerc Inc. | Senneterre A | Cu-Zn-Au-Ag | Pr |
| P63 | Carpentier | 1C-2 | $32 \mathrm{C} / 06$ | Gestion Aline Leclerc Inc. | Carpentier A | Cu-Zn-Au-Ag | Pr, Gs(r) |
| P64 | Dufresnoy | 1C-3 | $32 \mathrm{D} / 07$ | Breakwater Resources Ltd | Mine BouchardHébert | $\mathrm{Cu}-\mathrm{Zn}-\mathrm{Ag}-\mathrm{Au}$ | D(39:20040), DPEM |
| P65 | Rouyn, Beauchastel, Duprat, Dufresnoy | 1C-3 | $\begin{aligned} & 32 \text { D/02, } 03 \text {, } \\ & 06,07 \end{aligned}$ | Alexis Minerals Corporation / Noranda Inc. / <br> Falconbridge Ltd | GOCAD-Camp central | Cu-Zn | D(12:10875), DPEM, Gs(r) |
| P66 | Cléricy | 1C-3 | $32 \mathrm{D} / 07$ | Alexis Minerals Corporation / Noranda Inc. / Falconbridge Ltd | Noralex-VMS | Cu-Zn | $\begin{aligned} & \mathrm{D}(2: 830) \text {, Mag, DPEM, } \\ & \mathrm{Gs}(\mathrm{r}) \end{aligned}$ |
| P67 | Bourlamaque, Louvicourt | 1C-4 | $32 \mathrm{C} / 03,04$ | Alexis Minerals Corporation / Aur Resources Inc. | VMS Option | $\mathrm{Cu}-\mathrm{Zn}$ | D(9:5731), DPEM, Gs(r) |

[^0]
[^0]:    1 = See abbreviation list in appendix II.

