

## **Chapter 2**

# **Architectural Stone, Industrial Minerals, Industrial Stone and Peat**

## 2

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This chapter describes the results of mineral exploration and mining activities conducted in Québec in 2004 in the field of architectural stone, industrial minerals, industrial stone, and in the peat industry.

## Architectural Stone

*Yves Bellemare*

### Production

In the field of architectural stone, a total of 106 active quarries were compiled in 65 different locations (see Figure II for the location of architectural stone quarries in operation in Québec in 2004 and table II in Appendix 1 for a brief description of each operation). Architectural stone varieties include:

- rocks from anorthositic, charnockitic, and granitic suites, which account for most of the dimension stone production;
- steatite, soapstone and serpentinite (blocks for sculptures and refractory plates);
- slate (roofing tiles and slabs);
- limestone, dolomite, sandstone, siltstone, marble, quartzite, schist, and gneiss (dimension stone, ashlar, and landscaping stone).

With seventeen quarries in operation, the Rivière-à-Pierre area (NTS 31 I/16 and 31 P/01) still remains the most important mining camp in the field of dimension stone. Three other areas are also very active with at least five quarries each, namely the Saint-Nazaire area (NTS 22 D/12), the Stanstead area (NTS 31 H/01), and the Saint-Alexis-des-Monts–Saint-Didace area (NTS 31 I/06).

Over the course of the year, companies active in Québec launched mining operations with five new quarries, to produce nine new commercial varieties. The most significant work was accomplished in the Montérégie, Gaspésie, and Côte-Nord regions. In the Saint-Armand Seignior, **NAMCA Inc.**, a subsidiary of Polycor Inc. and SOQUEM INC., completed an important development program undertaken in 2003. A new quarry face was opened to mine calcilutites of the Strites Pond Formation, a whitish grey to medium grey stone with an occasional greenish tinge (project 51, Appendix 1). Northeast of Maria, **NAMCA Inc.** also completed development work on a deposit of grey-violet limestone breccia with reddish fragments of the Bonaventure Formation (project 65, Appendix 1). In the Magpie area, **Granijem Inc.** began quarrying a brownish green hypersthene syenite with a bluish tinge from the Havre-Saint-Pierre Anorthositic Suite (project 49, Appendix 1). Near the Manic-3 hydroelectric dam, **Granijem Inc.**, in conjunction with **Granit C. Rouleau Inc.**, also mined a variety of pinkish grey migmatized

straight gneiss (project 45, Appendix 1). Finally, **Polycor Inc.** acquired the assets and mining rights of the Colorado Yule Marble property in the United States. It subsequently created a new subsidiary, the **Colorado Stone Quarries Inc.**

### Exploration

In addition to completing development work on the two properties described in the section entitled “Production”, **NAMCA Inc.** launched or continued exploration work on nine other mining properties, in the search for limestone, slate, and anorthosite deposits (see figure 2.1 for the location of 53 projects where exploration and development work took place in 2004. Project descriptions are listed in Table 2.1). In the Gaspésie region, the company continued to explore the various facies of marble limestone in the West Point and La Vieille formations (projects 49 to 53). In most cases, the work is preliminary, but was successful in targeting areas of interest. In 2005, the company plans to launch an extensive work program on the Clemville, Port-Daniel, Lac Madeleine or Marin-Lavoie projects, depending on the needs of its clientele. **NAMCA Inc.** also launched an exploration program targeting slate deposits in the Témiscouata, Matapédia, and Gaspésie regions (projects 44 to 47). Mudslates of the Témiscouata Formation and the Fortin Group are specifically targeted. In the Lanaudière region, the company searched for outcrops of bluish iridescent anorthosite of the Morin AMCG Suite within a vast property near Saint-Côme. However, preliminary results were disappointing (project 7).

In the Chute-des-Passes area, **Polycor Inc.** continued an extensive exploration and development program undertaken in previous years. Dark brown gabbroic anorthosite was mined from a quarry face initially opened in 2003. The 2004 campaign was spoiled by problems associated with the extraction of this highly prized variety on the stone market. Due to a higher than anticipated rate of fracturation in the lower levels of the quarry, the company carried out surface stripping in nearby areas (project 16). Near Cacouna (project 40), the company continued its assessment of green sandstones of the Saint-Roch Group, similar to those of the Sillery Group quarried in the early 20<sup>th</sup> century in the Québec City area. Block sampling is slated for 2005 or 2006.

**A. Lacroix et Fils Granit Ltée** continued its extensive exploration and development program undertaken in 2002 in the Notre-Dame-de-la-Merci area. Positive results from drillholes completed in an unexplored part of the property proved useful to orient subsequent work to sample blocks of dimension stone (project 8). Note that in this area, anorthosite of the Morin AMCG Suite have a bluish tinge. In Lidice Township near Chute-des-Passes (project 15), prospecting and drilling revealed more massive outcrops with a better potential than outcrops previously identified in 2001. In Saint-Alexis-des-Monts, the company also

began preliminary work to develop a dark brown porphyritic quartz mangerite assigned to the Saint-Didace Massif (project 9).

In addition to completing exploration and development work on the two properties described in the section entitled “Production”, **Granijem Inc.** conducted exploration on three other properties to the east and north of Baie-Comeau (projects 28, 29, and 32). The most important program took place in the Lac Poulin area, where a brownish beige granodiorite has been targeted to produce decorative furniture items or exterior cladding for buildings. In 2005, an important sampling program is planned, to extract blocks of dimension stone. North of Baie-Comeau, **Gemme Manicouagan Inc.** continued development work, namely sampling blocks from a new working face and polishing tests, on a hematized, chloritized, and epidotized fault gouge similar to unakite (project 31). In Saint-Thomas-Didyme, northwest of Lac Saint-Jean (project 14), **Granicor Inc.** performed work north of the original quarry. Polished samples of a mangerite variety with a deeper red colour than the *Acajou* variety were distributed to the company’s clients, and the response was positive.

**Glendyne Inc.** pursued its investigations launched in the Saint-Marc-du-Lac-Long area in the mid-1990s to determine the slate potential of the Témiscouata Formation. This year, the company continued its drilling program to delineate reserves near the quarry on the Normand property (project 42). It also performed reconnaissance drilling and conducted an interpretation study of remote sensing images as well as a seismic survey on the Botsford South property (project 41), in order to advance to a detailed exploration program in 2005.

Brightly coloured sandstone, used to produce masonry stone and landscaping stone, was once again in high demand in 2004. The search is on to find alternate sources to sandstone varieties produced in the United States, Scotland, Nova Scotia, and Ontario. The most important exploration project was carried out by **Les Pierres Saint-Mathieu Inc.** in the Saint-Mathieu-de-Rieux area (project 43), where the potential of quartz arenites of the Robitaille Formation was investigated. Of the four different varieties of coloured sandstone discovered last year, the red variety (*Basques*) was selected for advanced work. Test results were conclusive, and the company will apply for a mining lease over the course of the coming year. Additional work is also planned for 2005.

More detailed information on exploration and extraction of architectural stone is available at the following address:

<http://www.mrnf.gouv.qc.ca/english/mines/architectural/>

## Industrial Minerals, Industrial Stone, and Peat

*N’golo Togola,  
Charles Gosselin  
and Pierre Buteau*

### Production

Industrial minerals and stones produced in Québec in 2004 include: chrysotile asbestos, ilmenite and titanium slag, graphite, phlogopite, rock salt and brine, clay minerals, peat, silica, as well as limestone, dolomite, and marble (see Figure III for the location of active quarries and mines of industrial minerals and stone, as well as producing peatlands in Québec. Table III in Appendix 1 provides a brief description of each operation).

Chrysotile asbestos is extracted from three mines in the Estrie region. Ilmenite comes from the Lac Tio mine, north of Havre-Saint-Pierre, and is used to manufacture titanium slag at the QIT plant near Sorel in the Montérégie region. Flaky graphite is extracted at the Stratmin mine in Lac-des-Îles, south of Mont-Laurier, and phlogopite at the Bédard mine in Suzor Township in the Mauricie region. Rock salt is extracted at the Seleine mine in the Îles-de-la-Madeleine, whereas brines are produced from four wells in the Bécancour area. Clay minerals are mined from a shale unit in the Montréal area and are used to manufacture bricks. The main sources of silica are: quartzite (five quarries), sandstone (four quarries), and natural sand (two operations). Limestone, dolomite, and marble are mined for industrial purposes in more than fifteen quarries. Depending on their chemical or physical characteristics, they are used to produce quick lime (three operations), various aggregate products (amendments, mineral fillers, granules), or cement (three producers).

When comparing 2003 figures with preliminary data from the *Service de l’imposition* and production figures for 2004, we note a slight increase of 2.4% in the value of mineral shipments for industrial minerals (peat and silica included). Sharp increases are recorded for peat (26%), silica (28%), and graphite (32%). The value of asbestos and ilmenite shipments however is down by about 14%, whereas shipments for the remaining commodities remain relatively stable.

In 2004, **Junex Inc.** started production at two new brine wells in Bécancour: Junex Bécancour no.2 and no.3. These brines are used as dust control agents in the summer and as de-icing products in the winter.

In the carbonate industry, the **Coopérative des producteurs de chaux du Bas-Saint-Laurent Inc.** began producing magnesian lime from dolomitic limestone in the La Rédemption area.

The Coop is also considering the possibility of mining another dolomite deposit located a few kilometres southeast of its current quarry. In the Centre-du-Québec region, **Les Carrières St-Ferdinand Inc.** started up operations at a second quarry near the town of Trottier, to produce magnesian and dolomitic agricultural lime. In the Outaouais region, the dolomitic marble quarry in Portage-du-Fort, operated by **Sequoia Minerals (Dolomex division)**, ceased operations in October. The new owner of the quarry, **Cambior Inc.**, is currently planning its rehabilitation.

**Exploration Québec/Labrador Inc.** began mining a quartzite deposit in the Fermont area. This very high-purity silica deposit is currently used to produce quartz granules to manufacture artificial stone, but it may also be suitable for a number of other industrial purposes that require a very high SiO<sub>2</sub> content.

In 2004, 16 peat producers were active in Québec, in 35 peatlands mainly located in the Bas-Saint-Laurent, Côte-Nord, and Saguenay–Lac-Saint-Jean regions. Preliminary data for 2004 indicate total shipments of 9.9 million bags of 170 dm<sup>3</sup>, for an aggregate value of about \$62.4M. For the third year in a row, the peat harvesting season started exceptionally late. The first harvesting operations were only recorded in mid-July, and in mid-August, most producers still had not reached 30% of their production objectives. Subsequently, weather conditions prevailing until the end of September enabled many operations to reach about 65% of their annual target.

## Exploration

Eight mineral exploration projects targeting six different commodities (rocks or minerals) were compiled in 2004 (Figure 2.1 and Table 2.2). The Lac Guéret graphite project by **Quinto Technology Inc.**, in partnership with **SOQUEM INC.** (project 54), constitutes one of the most interesting projects in 2004. The lateral extensions of the Graphite Cliff (GC) zone were delineated. Enclosed in paragneisses and quartzites, the GC zone includes a high-grade sub-zone that contains more than 20% graphite.

The Mingan property (project 55), explored by **Sheridan Platinum Group Ltd** and **Fancamp Exploration Ltd**, contains massive hemo-ilmenite occurrences hosted in anorthositic and gabbroic rocks of the Havre-Saint-Pierre anorthositic Suite. In Bourget Township in the Saguenay–Lac-Saint-Jean region,

**Micrex Development Corp.** continued work on a magnetite-ilmenite deposit (project 56) hosted in rocks of the Lac-Saint-Jean anorthositic Suite. In the Labrieville area, interesting titanium dioxide values (35% TiO<sub>2</sub>) were reported by **Quinto Technology Inc.** from the Lac Brûlé hemo-ilmenite deposit (project 57).

**Ressources Maxima Inc.** continued work on its property, which contains an important sillimanite deposit, near Sainte-Anne-du-Lac (project 58). The deposit is hosted in a sillimanite-muscovite-biotite-garnet-graphite paragneiss. **Junex Inc.** started drilling new wells in the Bécancour area in the search for brine (project 59). **Baskatong Quartz Inc.** completed drillholes in a former silica operation northeast of Lac Bouchette, south of Lac Saint-Jean (project 60), to determine if the site still contains reserves. **Sitec Inc.** collected a bulk sample of quartzite in the Petit Lac Malbaie area (project 61), where the company already produces high-purity silica from another important quartzite deposit.

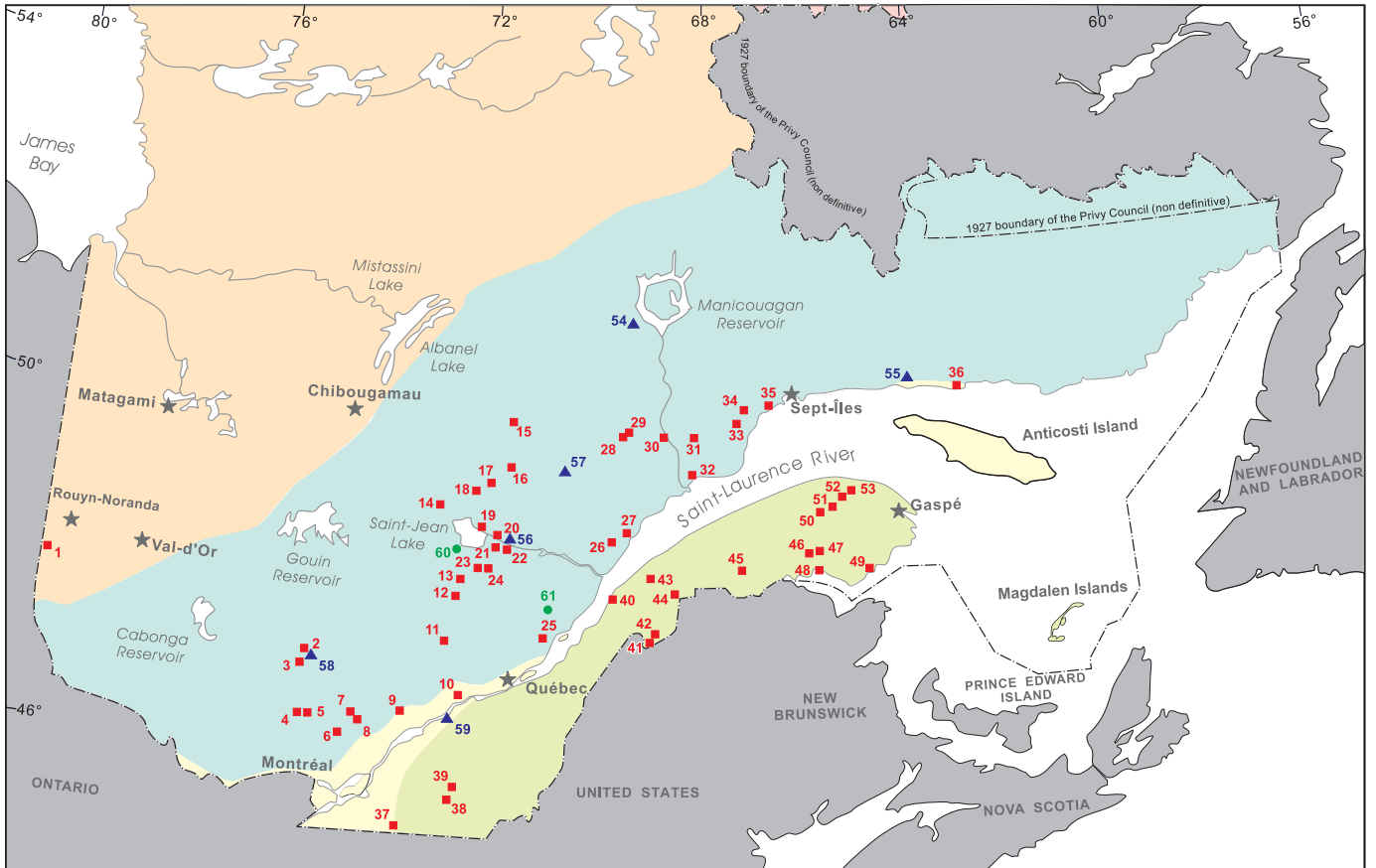
## Opportunities for Exploration

Geological mapping conducted by the **Ministère des Ressources naturelles, de la Faune et des Parcs (MRNFP)** revealed several geological settings with good potential for architectural stone, industrial stone, and industrial minerals.

Mapping conducted in NTS sheet 31 O/02 (Nantel, 2004), in the northern part of the Lac Pine area, identified pegmatite outcrops which may represent a source of architectural stone. The pegmatite contains pink coarse feldspar crystals set in a white quartz-feldspar groundmass.

In the Mont-Laurier area, geological mapping in NTS sheets 31 J/14 (Nantel, 2000), 31 J/15 (Nantel and Pintson, 2001), 31 O/02 (Nantel, 2003, in print), 31 O/02 and 31 O/07 (Nantel, 2004, in print) outlined the sillimanite potential in paragneiss bands of the Central Metasedimentary Belt.

During the summer 2004, inventory work led to the discovery of a potential cement stone deposit in the Percé area. A preliminary assessment of the limestones indicate CaO (48-50%), Na<sub>2</sub>O+K<sub>2</sub>O (<0.6%), MgO (<2.5%), S (<0.2%), and Cl (<30 ppm) contents which would meet industry requirements. Furthermore, this potential deposit contains an easily accessible mineral resource, which could likely reach several hundred million tonnes.



- Architecturale stone
- Industrial stones
- ▲ Industrial minerals

GEOLOGICAL PROVINCES

- St. Lawrence Platform
- Appalachians
- Grenville
- Superior
- New Québec and Torngat orogens, Rae Province and Ungava Trough

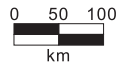


Figure 2.1. Exploration work for architectural stone, industrial minerals and stone in Québec in 2004.

**TABLE 2.1 - Exploration work in Quebec for architectural stone for 2004 (see figure 2.1)**

PROJECTS NTS	MINING TITLES	HOLDERS	USE (1)	WORKS <sup>(1)</sup>	DETAILS
1	31 M/14 CDC 9505 to 9507	Granit slab International Inc. (2329-1677 Québec Inc.)	DS	Bs, Pt, T	Cheminis project, grey granite, fine grain
2	31 O/02 CDC 15066 to 15069, 15466, 47877 to 47889	A. Lacroix et Fils Granit Ltée	DS	Pr	White dolomitic marble
3	31 J/15 CDC 15064 to 15065, 25394 to 25400, 32711 to 32722	A. Lacroix et Fils Granit Ltée	DS	Pr	White dolomitic marble
4	31 J/07 BEX 337	Les Pierres Mitchell Inc.	BS	D	Labelle ouest project, paragneiss
5	31 J/07 BEX 330	Les Pierres Mitchell Inc.	BS	D	Labelle est project, paragneiss
6	31 J/01 CDC 7219 to 7220	A. Lacroix et Fils Granit Ltée	DS	Pr	Sainte-Lucie project, brown anorthosite, iridescent, bluish gray
7	31 J/04, 31 J/05, 31 J/08 87 mining titles (CDC)	NAMCA Inc.	DS	Pg	Saint-Come project, anorthosite, iridescent, bluish gray
8	31 J/05 BEX 255	A. Lacroix et Fils Granit Ltée	DS	D	Orion project, anorthosite, iridescent, bluish gray
9	31 J/06 BNEP 922	A. Lacroix et Fils Granit Ltée	DS	S, T	Saint-Alexis-des-Monts project, quartz mangerite, brown limestone, Deschambault Formation
10	31 J/09 CDC 34600 to 34603	F. Bédard	DS	Pr	Limestone, Deschambault Formation
11	31 P/08 CDC 1019356 to 1019364	Granit Yoguy Inc.	DS	Bs, Pt, T	Vert Rustique project, quartz mangerite, greenish grey
12	31 P/16 BNEP 880, CDC 1104234	Granit slab International inc. (2329-1677 Québec Inc.)	DS	Bs, Pt, T	<b>Gendron project, black gabbro, fine to medium grain</b>
13	32 A/01 CDC 1121972 to 1121978	F. Gobeil	DS	Bs, T	Lac Mirage project, farsundite, dark brown to pale beige, coarse grain
14	32 A/15 CDC 1123388	Granicor Inc.	DS	Bs, G, Pt, T	<b>Acajou 2 project, quartz mangerite, porphyritic, reddish brown</b>
15	22 E/14 CDC 14613 to 14624	A. Lacroix et Fils Granit Ltée	DS	D, Pr, S	New Rainbow project, migmatized and banded gneiss, reddish pink, medium grain
16	22 E/06 CDC 1014112 to 1014115, BEX 402	Polycor Inc.	DS	S, T	Kodiak project, gabbroic anorthosite, brownish black



TABLE 2.1 - Exploration work in Quebec for architectural stone for 2004 (see figure 2.1)

PROJECTS	NTS	MINING TITLES	HOLDERS	USE (1)	WORKS <sup>(1)</sup>	DETAILS
17	22 E/04	CDC 7023-7024	Prospection Olivier Perron Entr.	DS	D, T	Reflet d'amazonite project, anorthosite mauve and green
18	22 E/04, 32 H/01	CDC 1105863, 1105867 to 1105868	F. Cobeil	DS	S, Pr	Anorthosite brown or blue
19	22 D/12	CDC 1119729 to 1119731	Prospection minière Dan	DS	S, Pt	Powell project, black anorthosite, fine grain
20	22 D/12	CDC 1168	A. Lacroix et Fils Granit Ltée	DS	D, S, T	Noir Atlantique ouest project, metagabbroanorthite, greyish black, fine to medium grain
21	22 D/05	No	M. Tremblay	DS	Pr, S	Marine blue iridescent anorthosite
22	22 D/06	CDC 23905-23906	M. Tremblay	DS	Pr, S	Black anorthosite
23	22 D/04	CDC 50252, 50264	P. and R. Cloutier	DS	Pr, S	Aigle Rouge project, hypersthene syenogranite, porphyritic, orangey pink
24	22 D/04	CDC 3038 to 3040, 4854	Polycor Inc. / P. and R. Cloutier	DS	S, Pr, T	Nuit Étoilée project, bronzite norite, black, coarse grain
25	21 M/07	CDC 1116565 to 1116568	Prodiar Ltée	DS	Pr	Sainte-Tite-des-Caps project, feldspar, salmon brown, foliated
26	22 C/12	CDC 1005203	E. Hurtubise	DS	G	Granite Sault-au-Mouton project, pink granite
27	22 C/11	CDC 1118708, 1122217 to 1122218	Prodiar Ltée	DS	Pr	Rosey red granitic gneiss, Saint-Paul-du-Nord Formation
28	22 F/14	CDC 1099143-1099144	Granijem Inc.	DS	Bs, Pt, T	Lac Poulin project, granodiorite, brownish beige
29	22 F/14	CDC 1099146	Granijem Inc.	DS	Bs, Pt, T	Yeux du Nord project, augen mangerite, rosy beige
30	22 F/15	<b>BNEP 865</b>	<b>Granijem Inc. / Granit C. Rouleau Inc.</b>	<b>DS</b>	<b>Bs, Pt</b>	<b>Rose de Manic project, straight gneiss, migmatized, rosy grey</b>
31	22 F/16	<b>BNEP 863</b>	<b>Gemme Manicouagan Inc.</b>	<b>DS, DeS</b>	<b>G, T</b>	<b>Marbre Manicouagan project, fault gouge, epidotized, chloritized and hematized</b>
32	22 F/08	CDC 12427 to 12432, 17586	Granijem Inc.	DS	Pr, T	Anse Saint-Pancrase project, granitic gneiss, reddish pink



TABLE 2.1 - Exploration work in Quebec for architectural stone for 2004 (see figure 2.1)

PROJECTS NTS	MINING TITLES	HOLDERS	USE (1)	WORKS <sup>(1)</sup>	DETAILS
33	22 G/14 CDC 42700, 46563 to 46567	R. Landry / J.-C. Rochette	DS	Pr, T	Lac Rivérin project, migmatized paragneiss, whitish grey
34	22 J/03 CDC 1009857 to 1009862	Exploration Flair Inc.	DS	G, Pt, S, T	Rose Walker project, foliated granite, pink, coarse grain
35	22 J/02 CDC 1125126 to 1125153	R. Landry / M. Richard	DS	Pr	Quartz bleu project, monzonite, porphyritic, grey, with blue quartz
36	12 L/03, 12 L/06 CDC 14748 to 14751, 15838, 16420 to 16431,	C. and G. Jomphe	DS	Pr, Pt, S	Dolomite, Romaine Formation and limestone, Mingan Formation, 5 explored targets
37	31 H/03 No	NAMCA Inc.	DeS, DS	D, Bs, Pt	<b>Saint-Armand project, calcilitite, Strites Pond Formation</b>
38	31 H/08 CDC 1099961 to 1099964	Les Produits d'Ardoise Québec Inc.	DS	Bs, Pt, T	Saint-Élie project, agglomerate with granitic rock fragments, reddish grey in olive green matrix
39	31 H/09 No	M. Houle	BS	S, T	Melbourne project, green slate, Mélange de Saint-Daniel
40	21 N/13 No	Polycor Inc.	DS	G	Cacouna project, greenish grey sandstone, Saint-Roch Group
41	21 N/07 CDC 1082536, 1082541, 1082701 to 1082703	Glendyne Inc.	DS, RT	D, Cp, Rsi	Botsford sud project, bluish black slate, Témiscouata Formation
42	21 N/07 CDC 1082540 to 1082541, 1082701 to 1082703	Glendyne Inc.	DS, RT	D	Normand project, bluish black slate, Témiscouata Formation
43	22 C/02, 22 C/03 BNEP 896, CDC 1127256 to 1127263, 1127481 to 1127484	Les Pierres Saint-Mathieu Inc.	BS, DS	Bs, Pr, T	<b>Grès Basques project, red sandstone, Robitaille Formation</b>
44	21 N/15, 21 N/16 CDC 34058 to 34099	NAMCA Inc.	DS	Pg	Témiscouata project, mudslate (slate), Témiscouata Formation
45	22 B/03, 22 B/06 CDC 34398 to 34421	NAMCA Inc.	DS	Pg	Matapédia project, mudslate (slate), Fortin Group
46	22 B/08 CDC 34362 to 34370	NAMCA Inc.	DS	Pg	Transgaspésienne ouest project, mudslate (slate), Fortin Group
47	22 A/05 CDC 34371 to 34380	NAMCA Inc.	DS	Pg	Transgaspésienne est project, mudslate (slate), Fortin Group
48	22 A/04 No	NAMCA Inc.	DeS, DS	Bs, D, Pt	<b>Cascapédia project, marble limestone (breccia), reddish purple, Bonaventure Formation</b>

**TABLE 2.1 - Exploration work in Quebec for architectural stone for 2004 (see figure 2.1)**

PROJECTS NTS	MINING TITLES	HOLDERS	USE (1)	WORKS <sup>(1)</sup>	DETAILS
49	22 A/03 CDC 1039222 to 1039227	NAMCA Inc.	DeS, DS	Bs, D, Pt	Clemville project, limestone, La Vieille Formation
50	22 A/13 CL 5250372 to 5250383	NAMCA Inc.	DS	Pg	Lac Madeleine project, metamorphized limestone, West Point Formation
51	22 A/13 CDC 28021 to 28027	NAMCA Inc. / J. Fortin	DS	Pg	Rivière Madeleine project, whitish grey limestone, West Point Formation
52	22 H/03 CDC 11698 to 11702	NAMCA Inc.	DS	Pg, Pt, S	Marin-Lavoie project, limy conglomerate, West Point Formation
53	22 H/03 CDC 1006393 to 1006402	Conseil de développement économique de Murdochville	DS	Pt	Calcaire Madeleine project, limestone, West Point Formation

1 = See abbreviation list in appendix II.

**TABLE 2.2 - Exploration work in Quebec for Industrial minerals and stones for 2004 (see figure 2.1)**

SITE	TOWNSHIPS (SEIGNIORIES)	NTS	COMPANIES \ PROSPECTORS	PROJECTS	SUBSTANCES	WORKS <sup>(1)</sup>
54	1548	22 N/03	Quinto Technology Inc. / SOQUEM INC.	Lac Guéret	Graphite	G, S, T
55	Mingan	22 I/08	Sheridan Platinum Group Ltd / Fancamp Exploration Ltd	Mingan	Ilmenite	G, S, T
56	Bourget	22 D/11	Micrex Development Corp.	St. Charles	Magnetite, ilmenite, apatite	Met, S, TE
57	0344	22 F/05	Quinto Technology Inc.	Lac Brûlé	Hemo-ilmenite	B(10:?), D(12:?), Pr
58	Leman	31 J/14, 31 O/03	Ressources Maxima Inc.	Sainte-Anne-du-Lac	Sillimanite	Pr, S
59	Bécancour	31 I/08	Junex Inc.	Bécancour	Natural brine	D
60	Dequen	32 A/08	Baskatong quartz Inc.	Lac Bouchette	Silica	D (?;350)
61	Charlevoix	21 M/15	Sitec Inc.	Petit lac Malbaie	Silica	Ev

1 = See abbreviation list in appendix II.

