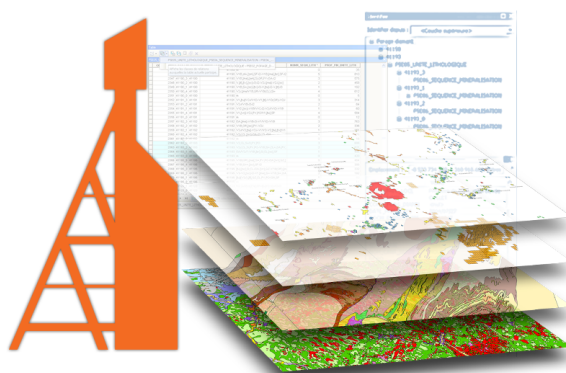


# SAGÉOM

## Metallic deposit

### Data model and domain value

Version 1.0  
June 13, 2018

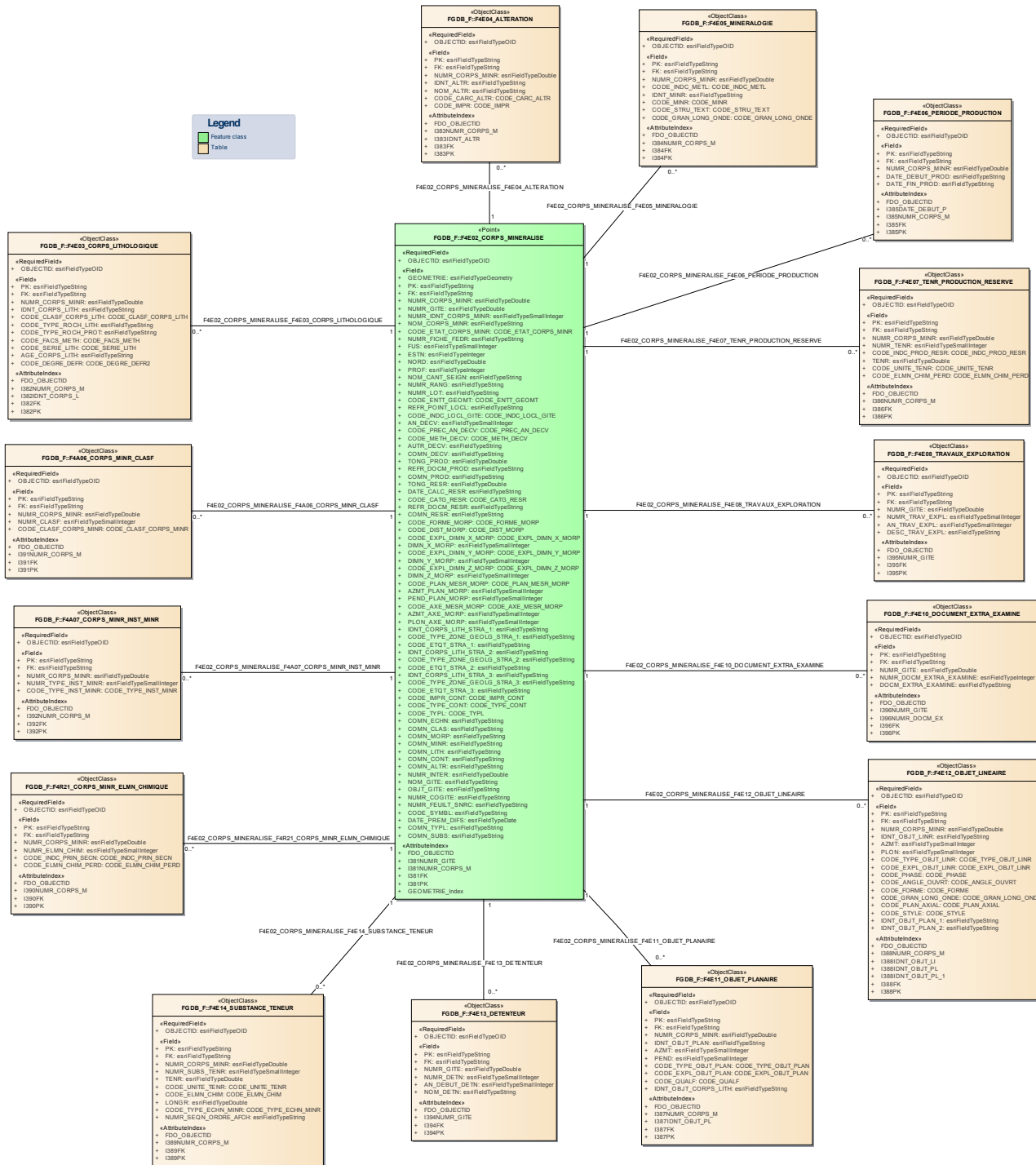


Direction de l'information géologique du Québec  
Ministère de l'Énergie et des Ressources naturelles

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## Data model - Metallic deposit

Metallic substances correspond to showings, mineral deposits or mines whose geochemical contents exceed a threshold defined for one or more metallic elements. It is important that at least one of these elements have a content equal to or greater than the prescribed threshold.



«Domain value - F4E02\_CORPS\_MINERALISE»

Champ: CODE\_AXE\_MESR\_MORP

◆ X = X axis

◆ Y = Y axis

◆ Z = Z axis

«Domain value - F4E02\_CORPS\_MINERALISE»

Champ: CODE\_CATG\_RESR

◆ I = Unknown

◆ P = Probable reserves

◆ R = Resources

◆ V = Proved reserves

## «Domain value - F4E02\_CORPS\_MINERALISE»

Champ: CODE\_DIST\_MORP

◆ A = Disseminated to massive

◆ D = Disseminated

◆ I = Irregular

◆ M = Massive

◆ N = Unknown

◆ O = Nodule

◆ S = Semi-massive

◆ U = Vein

◆ V = Veinlet

◆ XX = ""Fake"" code"

## «Domain value - F4E02\_CORPS\_MINERALISE»

Champ: CODE\_ENTT\_GEOMT

- ◆ AC = Compilation outcrop
- ◆ AG = Géofiche outcrop
- ◆ AN = Anomaly
- ◆ AT2QC = Atlas - All Québec
- ◆ BE = Erratic boulder
- ◆ BEQ = Erratic boulder
- ◆ BOL = Document
- ◆ CA = Outcrop outline
- ◆ CAM = Restrictions to mining
- ◆ CC = Colour map element
- ◆ CE = Exploration target
- ◆ CEPG = Exploration target polygon
- ◆ CEPT = Exploration target dot
- ◆ CGG = General geological contact
- ◆ CM = Mineralized body
- ◆ CO = Geological contact
- ◆ CQ = Contour
- ◆ CS = Ridge and furrow
- ◆ DA = Dating
- ◆ DC = Chronological data

- ◆ DE = Delta
- ◆ DG = Granular deposit
- ◆ DOC = Document
- ◆ DU = User data
- ◆ EF = Shape produced by melt-water
- ◆ EK = Esker
- ◆ EQ = Scarp
- ◆ ER = Rock sample
- ◆ ES = Sediment sample
- ◆ FD = Diamond drilling
- ◆ FG = General fault
- ◆ FM = Overburden drilling
- ◆ FQ = Glacial shape
- ◆ FR = Regional fault
- ◆ GE = Geochronology
- ◆ GM = Metallic deposit
- ◆ GME = Glacial erosional forms
- ◆ GNM = Non-metallic deposit
- ◆ HCL = Map framework & accessories location map
- ◆ HC1A1 = Map framework & accessories CG1 20k SW
- ◆ HC1A2 = Map framework & accessories CG1 20k SE
- ◆ HC1A3 = Map framework & accessories CG1 20k NW

- ◆ HC1A4 = Map framework & accessories CG1 20k NE
- ◆ HC1B = Map framework & accessories CG1 50k
- ◆ HC2A1 = Map framework & accessories CG2 20k SW
- ◆ HC2A2 = Map framework & accessories CG2 20k SE
- ◆ HC2A3 = Map framework & accessories CG2 20k NW
- ◆ HC2A4 = Map framework & accessories CG2 20k NE
- ◆ HC2B = Map framework & accessories CG2 50k
- ◆ HC3A1 = Map framework & accessories CG3 20k SW
- ◆ HC3A2 = Map framework & accessories CG3 20k SE
- ◆ HC3A3 = Map framework & accessories CG3 20k NW
- ◆ HC3A4 = Map framework & accessories CG3 20k NE
- ◆ HC3B = Map framework & accessories CG3 50k
- ◆ HC4A1 = Map framework & accessories CG4 20k SW
- ◆ HC4A2 = Map framework & accessories CG4 20k SE
- ◆ HC4A3 = Map framework & accessories CG4 20k NW
- ◆ HC4A4 = Map framework & accessories CG4 20k NE
- ◆ HC4B = Map framework & accessories CG4 50k
- ◆ HF = Map framework & accessories NTS map-sheet
- ◆ HGG1 = Map framework & accessories geology/gitology 50k
- ◆ HGRA1 = Map framework & access. geochemistry rock 20k SW
- ◆ HGRA2 = Map framework & access. geochemistry rock 20k SE
- ◆ HGRA3 = Map framework & access. geochemistry rock 20k NW
- ◆ HGRA4 = Map framework & access. geochemistry rock 20k NE



- ◆ HGRB = Map framework & accessories rock geochemistry 50k
- ◆ HGS = Map framework & access. sediment geochemistry 50k
- ◆ HG21 = Map framework & access. geology/petrology 250k
- ◆ HI1B = Map framework + accessories PI1 50k
- ◆ HI1C = Map framework + accessories PI1 250k
- ◆ HPICA = Map framework & accessories Picot 250K
- ◆ HPICB = Map framework & accessories Picot 50K
- ◆ HPOMA = Map framework & accessories mineral potential 250k
- ◆ HP1A1 = Map framework & accessories INPUT 20K SW
- ◆ HP1A2 = Map framework & accessories INPUT 20K SE
- ◆ HP1A3 = Map framework & accessories INPUT 20K NW
- ◆ HP1A4 = Map framework & accessories INPUT 20K NE
- ◆ HP1B = Map framework & accessories INPUT 50K
- ◆ HP1C = Map framework & accessories INPUT 250K
- ◆ HP2A1 = Map framework & accessories EM 20k SW
- ◆ HP2A2 = Map framework & accessories EM 20k SE
- ◆ HP2A3 = Map framework & accessories EM 20k NW
- ◆ HP2A4 = Map framework & accessories EM 20k NE
- ◆ HP2B = Map framework & accessories EM 50k
- ◆ HP2C = Map framework & accessories EM 250k
- ◆ HP3A1 = Map framework & accessories MAG 20K SW
- ◆ HP3A2 = Map framework & accessories MAG 20K SE

- ◆ HP3A3 = Map framework & access. MAG 20K NW
- ◆ HP3A4 = Map framework & access. MAG 20K NE
- ◆ HP3B = Map framework & accessories MAG 50K
- ◆ HP3C = Map framework & accessories MAG 250K
- ◆ HP4A1 = Map framework & access. magnetic gradient 20k SW
- ◆ HP4A2 = Map framework & access. magnetic gradient 20k SE
- ◆ HP4A3 = Map framework & access. magnetic gradient 20k NW
- ◆ HP4A4 = Map framework & access. magnetic gradient 20k NE
- ◆ HP4B = Map framework & access. magnetic gradient 50k
- ◆ HP4C = Map framework & access. magnetic gradient 250k
- ◆ HQ1A1 = Map framework + accessories GQ1 20k SW
- ◆ HQ1A2 = Map framework + accessories GQ1 20k SE
- ◆ HQ1A3 = Map framework + accessories GQ1 20k NW
- ◆ HQ1A4 = Map framework + accessories GQ1 20k NE
- ◆ HQ1B = Map framework + accessories GQ1 50k
- ◆ HRC = Map framework & accessories conductivity
- ◆ HRG = Map framework & access. magnetic field gradient
- ◆ HRM = Map framework & accessories magnetic field
- ◆ HT1A1 = Map framework + accessories TG1 20k SW
- ◆ HT1A2 = Map framework + accessories TG1 20k SE
- ◆ HT1A3 = Map framework + accessories TG1 20k NW
- ◆ HT1A4 = Map framework + accessories TG1 20k NE

◆ HT1B = Map framework + accessories TG1 50k

◆ HY = Hydrography

◆ IG = Isograd

◆ IM = Mining installation

◆ IR = Raster image

◆ ISV = Isoline

◆ LA = Old geomining survey

◆ LG = Geomining survey

◆ LI = Lineament

◆ LZ = Pseudo-boundary of the geological zone

◆ MA = Atlas

◆ MDS = Surficial landform

◆ MDSLGL = Surficial landform line

◆ MDSPG = Surficial landform polygon

◆ MDSPT = Surficial landform dot

◆ MEG = Erosion glaciaire mark

◆ MP = Mines and projects

◆ OR = Orography

◆ PEM = Mining property

◆ PI = Construction materials and industrial stone

◆ PIC = Picot symbol

◆ PL = Local geophysics

◆ PLA = Placer

- ◆ PM = Planimetric
- ◆ PO = Granular observation
- ◆ POM = Mineral potential
- ◆ PP = Paleogeographic position
- ◆ PR = Regional fold
- ◆ PRG = General fold
- ◆ PRO = Field project
- ◆ PU = Hydrogeology puit
- ◆ RC = Conductivity
- ◆ RG = Magnetic field vertical gradient
- ◆ RM = Magnetic field
- ◆ SG = Glacial striation
- ◆ SGE = Outstanding geological sites
- ◆ SGEO = Geological subdivision
- ◆ SGRPG = Granular site Polygon
- ◆ SGRPT = Granular site Dot
- ◆ SLIN = Linear structure folds
- ◆ SNRC = Layer SNRC
- ◆ SO = Peat observation point
- ◆ SOQ = Quaternary observation site
- ◆ SP = Paleontological site
- ◆ SPLA = Planar structure

- ◆ SS = Stratigraphic site
- ◆ TM = Mineral titles
- ◆ TMD = Mining Title on demand
- ◆ TOPO = Topology
- ◆ TRB = Peat bog
- ◆ TSLG = Count suppression LG
- ◆ TSPG = Count suppression Polygon
- ◆ TSPT = Count suppression Dot
- ◆ XX = ""Fake"" code"
- ◆ ZA = Outcrop area
- ◆ ZD = Scuffed zone
- ◆ ZF = Favorable area
- ◆ ZG = Geological zone
- ◆ ZGG = General geological zone
- ◆ ZGP = Geological zone centroid
- ◆ ZGPT = Geo zone dot
- ◆ ZL = Alteration zone
- ◆ ZLG = Zone LG
- ◆ ZM = Mineralized zone
- ◆ ZMS = Morpho-sedimentological zone
- ◆ ZQ = Morphosedimentological zone
- ◆ ZQP = Morphosedimentological zone centroid

◆ ZS = Sensitive area

«Domain value - F4E02\_CORPS\_MINERALISE»

Champ: CODE\_ETAT\_CORPS\_MINR

◆ G = Deposit with estimated tonnage

◆ I = Showing, no work

◆ MA = Active mine

◆ MF = Closed mine

◆ P = Worked deposit

## «Domain value - F4E02\_CORPS\_MINERALISE»

Champ: CODE\_EXPL\_DIMN\_X\_MORP

◆ # = Measurement of axis is unknown

◆ < = Measurement is less than that specified

◆ = = Measurement is equal to that specified

◆ > = Measurement is greater than that specified

◆ ? = Specified measurement is imprecise



## «Domain value - F4E02\_CORPS\_MINERALISE»

Champ: **CODE\_EXPL\_DIMN\_Y\_MORP**

◆ # = Measurement of axis is unknown

◆ < = Measurement is less than that specified

◆ = = Measurement is equal to that specified

◆ > = Measurement is greater than that specified

◆ ? = Specified measurement is imprecise

## «Domain value - F4E02\_CORPS\_MINERALISE»

Champ: CODE\_EXPL\_DIMN\_Z\_MORP

◆ # = Measurement of axis is unknown

◆ < = Measurement is less than that specified

◆ = = Measurement is equal to that specified

◆ > = Measurement is greater than that specified

◆ ? = Specified measurement is imprecise

## «Domain value - F4E02\_CORPS\_MINERALISE»

Champ: **CODE\_FORME\_MORP**

◆ AI = Irregular cluster

◆ AR = Regular cluster

◆ CI = Irregular conical

◆ CR = Regular conical

◆ IN = Unknown

◆ LI = Irregular lenticular

◆ LR = Regular lenticular

◆ TI = Irregular tabular

◆ TR = Regular tabular

◆ UI = Irregular cylindrical

◆ UR = Regular cylindrical

◆ XX = ""Fake"" code"

## «Domain value - F4E02\_CORPS\_MINERALISE»

Champ: **CODE\_IMPR\_CONT**

◆ AB = Absent

◆ IN = Indeterminate

◆ MI = Minor

◆ MJ = Major

◆ MO = Moderate

◆ NA = Not applicable

◆ VA = Variable

◆ XX = ""Fake"" code"

«Domain value - F4E02\_CORPS\_MINERALISE»

Champ: CODE\_INDC\_LOCL\_GITE

◆ N = No

◆ O = Point locating deposit

## «Domain value - F4E02\_CORPS\_MINERALISE»

Champ: CODE\_METH\_DECV

◆ C = Drilling/trenching geochemical target

◆ G = Drilling/trenching geological target

◆ I = Unknown

◆ P = Drilling/trenching, geophysical target

◆ S = Surface prospecting

◆ T = Mapping

«Domain value - F4E02\_CORPS\_MINERALISE»

Champ: CODE\_PLAN\_MESR\_MORP

XY = XY plane

YZ = YZ plane

ZX = ZX plane

«Domain value - F4E02\_CORPS\_MINERALISE»

Champ: CODE\_PREC\_AN\_DECV

◆ I = Uncertain

◆ P = Accurate



## «Domain value - F4E02\_CORPS\_MINERALISE»

Champ: **CODE\_TYPE\_CONT**

◆ C = Cleavage, schistosity

◆ F = In fault or shear

◆ I = Indeterminate

◆ L = Listed in lithology

◆ O = Stratification (deposit concordant with)

◆ P = In fold

◆ T = In fracture

◆ V = Vein

◆ X = Other

◆ Z = Not applicable

## «Domain value - F4E02\_CORPS\_MINERALISE»

### Champ: CODE\_TYPL

- ◆ 100 = Placer uranium, gold
- ◆ 1000 = Pb-Zn deposits (Mississippi Valley type)
- ◆ 110 = Paleoplacer uranium, gold
- ◆ 1100 = Ultramafic-hosted asbestos
- ◆ 111 = U-Au pyritic quartz pebble congl. and quartzites
- ◆ 112 = Auriferous hematitic conglom. and sandstones
- ◆ 120 = Placer gold, platinum
- ◆ 1200 = Volcanic-associated uranium
- ◆ 130 = Black sand
- ◆ 1300 = Vein uranium
- ◆ 1310 = Vein uranium
- ◆ 1320 = Vein uranium
- ◆ 1400 = Arsenide vein silver, uranium
- ◆ 1410 = Arsenide silver-cobalt veins
- ◆ 1420 = Arsenide vein uranium-silver
- ◆ 1500 = Lode gold
- ◆ 1510 = Epithermal gold deposits
- ◆ 1511 = Acid-type epithermal auriferous deposits
- ◆ 1512 = Neutral-type epithermal auriferous deposits
- ◆ 1513 = Submarine epithermal gold deposits

- ◆ 1514 = Carlin-type deposit
- ◆ 1520 = Orogenic auriferous veins
- ◆ 1521 = Orogenic auriferous veins with QZ-CB matrix
- ◆ 1530 = Auriferous deposits in iron-bearing formations
- ◆ 1540 = Disseminated and replacement gold deposits
- ◆ 1600 = Silver-Lead-Zinc veins
- ◆ 1610 = Silver-Lead-Zinc veins
- ◆ 1700 = Veins copper
- ◆ 1800 = Vein-stockwork tin, tungsten
- ◆ 1900 = Deposits associated with porphyry intrusions
- ◆ 1910 = Cu-Au-Mo deposits ass. with porphyry intrusions
- ◆ 1920 = Alkaline porphyry copper, gold
- ◆ 1930 = Copper porphyries
- ◆ 1940 = Mo-W deposits assoc. with porphyry intrusions
- ◆ 1950 = Tin granites
- ◆ 200 = Stratiform phosphate (phosphorite) deposits
- ◆ 2000 = Skarn and manto deposits
- ◆ 2010 = Skarn Zinc-lead-silver
- ◆ 2020 = Skarn copper
- ◆ 2021 = Cu skarns not assoc. with porphyry Cu deposits
- ◆ 2022 = Cu skarns assoc. with porphyry Cu deposits
- ◆ 2030 = Skarn gold

- ◆ 2040 = Skarn iron
- ◆ 2041 = Skarn iron-Contact metasomatic
- ◆ 2042 = Skarn iron-Stratiform in metamorphic terrane
- ◆ 2050 = Skarn tungsten
- ◆ 2060 = Zinc-lead-silver mantos
- ◆ 2070 = Cupriferous mantos
- ◆ 2100 = Granitic pegmatites
- ◆ 2200 = Kiruna/olympic dam-type Fe-Cu-U-Au-Ag
- ◆ 2210 =  $\pm\text{Au} \pm\text{Cu} \pm\text{U}$  deposits associated with albitization
- ◆ 2300 = Hyperalkaline rock-associated rare metals
- ◆ 2400 = Carbonatite-associated deposits
- ◆ 2500 = Primary diamond deposits
- ◆ 2510 = Kimberlite-hosted diamond
- ◆ 2520 = Lamproite-hosted diamond
- ◆ 2600 = Iron and Titanium deposits in mafic intrusions
- ◆ 2610 = Iron and Titanium deposits in anorthosites
- ◆ 2620 = Iron and Titanium deposits in gabbros and anorthos
- ◆ 2700 = Magmatic or hydrothermal Ni-Cu-PGE
- ◆ 2710 = Magmatic Ni-Cu
- ◆ 2711 = Magmatic Ni-Cu associated with astroblemes
- ◆ 2712 = Magmatic Ni-Cu associated with rifts & contin.bslt
- ◆ 2713 = Magmatic Ni-Cu associated with komatites
- ◆ 2714 = Magmatic Ni-Cu assoc. anorthosites-troct.

- 2715 = Magmatic Ni-Cu assoc. ultra-mafic intrusions
- 2715a = Magmatic Ni-Cu assoc. ultra-maf. intr.(aphyr)
- 2715b = Magmatic Ni-Cu assoc. ultra-maf. intr.(glomero)
- 2716 = Magmatic Ni-Cu assoc. basalts
- 2720 = Magmatic PGE
- 2721 = Magmatic SF EGP, stratiform (reef), stratoid
- 2722 = Magmatic SF EGP, alloys, arsen. unstrat.
- 2723 = Magmatic PGE chromite, stratiform
- 2724 = Magmatic PGE chromite associated with ophiolites
- 2730 = Hydrothermal Ni-Cu
- 2731 = Hydrothermal Ni-Cu associated with komatites
- 2732 = Hydrothermal Ni-Cu assoc. ultra-mafic intrusions
- 2733 = Hydrothermal Ni-Cu assoc. anorthosites-troct.
- 2734 = Hydrothermal Ni-Cu associated with ophiolites
- 2735 = Hydrothermal Ni-Cu associated with gneiss
- 2736 = Hydrothermal Ni-Cu associated with volcanic rocks
- 2737 = Hydrothermal Ni-Cu associated with sedim. rocks
- 2800 = Mafic/ultramafic-hosted chromite
- 2810 = Stratiform chromite deposits
- 2820 = Podiform chromite deposits
- 2900 = Magmatic apatite dep. in lay. maf. int.
- 300 = Ferriferous sedimentary rocks

- ◆ 310 = Lake Superior type iron formations
- ◆ 320 = Algoma type iron formations
- ◆ 330 = Ironstone
- ◆ 400 = Residually enriched deposits
- ◆ 410 = Enriched iron-formation
- ◆ 420 = Supergene basemetals and precious metals
- ◆ 421 = Supergene Z.dev.over massive sulphide dep.
- ◆ 422 = Oxid. z. dev. up. parts of vein, sh/f. & rep.dep.
- ◆ 423 = Supergene ox.&sulph. Zones formed over porphyry
- ◆ 430 = Residual carbonatite-associated deposits
- ◆ 500 = Evaporite
- ◆ 600 = Deposits of exhalative sulphides
- ◆ 610 = Sedimentary exhalative sulphides (Sedex)
- ◆ 620 = Ni ( $\pm$ Zn $\pm$ PGE $\pm$ Mo) sulfides in sed. rocks
- ◆ 630 = Volcanic-associated massive sulphide base metals
- ◆ 631 = Besshi-type VMS
- ◆ 632 = Cyprus-type VMS
- ◆ 633 = Kuroko-type VMS
- ◆ 634 = Matabi-type VMS
- ◆ 635 = Noranda-type VMS
- ◆ 640 = Sulfides Au associated with volcanic rocks
- ◆ 641 = Massive Au sulfides associated with volcanic rocks

642 = Dissem. Au sulfides associated with volc. rock

643 = SF-QZ veins, Au synvolc. associated with volc.

700 = Unconformity - associated uranium

800 = Stratabound clastic-hosted U, Pb, Cu

810 = Uranium deposits in sedimentary rocks

811 = Uranium deposits in stoneware

812 = Uranium deposits in mudstones and siltites

813 = Uranium deposits in carbonates

820 = Sandstone lead

830 = Sediment-hosted stratiform copper

831 = Kupferschiefer

832 = Redbed-type Cu deposits

833 = Cu deposits in carbonates

900 = Volcanic redbed copper

9999 = Type of deposits indeterminate

## «Domain value - F4E03\_CORPS\_LITHOLOGIQUE»

Champ: CODE\_CLASF\_CORPS\_LITH

- ◆ A = Cluster
- ◆ B = Block
- ◆ C = Layer (band,bed)
- ◆ D = Dyke
- ◆ E = Gore
- ◆ F = Fragment
- ◆ G = Pod
- ◆ H = Sill
- ◆ I = Lens
- ◆ J = Nodule
- ◆ K = Concretion
- ◆ L = Lithology
- ◆ M = Mineral (crystal)
- ◆ N = Level (horizon)
- ◆ O = Augen
- ◆ P = Phenocryst
- ◆ Q = Pillow
- ◆ R = Band, ribbon
- ◆ S = Flow
- ◆ T = Streak



◆ U = Veinlet

◆ V = Vein

◆ W = Matrix

◆ X = Other

◆ Y = Weathered crust

◆ Z = Lamina

◆ 2 = Erratic boulder

◆ 9 = Mobilizate

## «Domain value - F4E03\_CORPS\_LITHOLOGIQUE»

Champ: CODE\_DEGRE\_DEFR2

1 = Undeformed

2 = Low

3 = Medium

4 = Intense

5 = Very intense

## «Domain value - F4E03\_CORPS\_LITHOLOGIQUE»

### Champ: CODE\_FACS\_METH

- ◆ AB = Amphibolite
- ◆ AI = Lower amphibolite
- ◆ AIM = Lower to middle amphibolite
- ◆ AM = Medium amphibolite
- ◆ AMS = Medium to upper amphibolite
- ◆ AS = Upper amphibolite
- ◆ ASG = Upper amphibolite to granulite
- ◆ EG = Eclogite
- ◆ FS = Subgreenschist
- ◆ GL = Granulite
- ◆ PP = Prehnite - pumpellyite
- ◆ SV = Greenschist

«Domain value - F4E03\_CORPS\_LITHOLOGIQUE»

Champ: CODE\_SERIE\_LITH

◆ A = Alkaline series

◆ C = Calc-alkali series

◆ K = Komatiitic series

◆ P = Peralkaline series

◆ T = Tholeiitic series

## «Domain value - F4E04\_ALTERATION»

Champ: CODE\_CARC\_ALTR

- ◆ C = Cryptic
- ◆ D = Diffused
- ◆ F = In fracture or vein
- ◆ I = Indeterminate
- ◆ L = Local
- ◆ M = Complex
- ◆ P = In primary porosity
- ◆ R = In secondary porosity
- ◆ S = Simple
- ◆ T = Selective
- ◆ V = Visible
- ◆ X = Other
- ◆ Z = Zoned

## «Domain value - F4E04\_ALTERATION»

Champ: CODE\_IMPR

AB = Absent

IN = Indeterminate

MI = Minor

MJ = Major

MO = Moderate

NA = Not applicable

VA = Variable

## «Domain value - F4E05\_MINERALOGIE»

Champ: CODE\_BIOTO\_TOURB

◆ BDM = Undetermined

◆ BER = Undetermined

◆ BUT = Undetermined

◆ DEP = Undetermined

◆ LAG = Undetermined

◆ LAN = Undetermined

◆ MAR = Undetermined

◆ PAL = Undetermined

◆ PLI = Undetermined

◆ PLT = Undetermined

◆ PPA = Undetermined

◆ TAP = Undetermined

## «Domain value - F4E05\_MINERALOGIE»

### Champ: CODE\_GRAN\_LONG\_ONDE

◆ A = 0.001 to 0.01 mm

◆ B = 0.01 to 0.05 mm

◆ C = 0.05 to 0.1 mm

◆ D = 0.1 to 0.2 mm

◆ E = 0.2 to 0.5 mm

◆ F = 0.5 to 1.0 mm

◆ G = 1 to 2 mm

◆ H = 2 to 5 mm

◆ J = 0.5 to 1 cm

◆ K = 1 to 3 cm

◆ L = 3 to 10 cm

◆ M = 10 to 30 cm

◆ N = 30 to 100 cm

◆ P = 1 m

◆ Q = 1 to 2 m

◆ R = 2 to 4 m

◆ S = 4 to 6 m

◆ T = 6 to 10 m

◆ U = 10 m

◆ V = 10 to 20 cm



◆ W = 20 to 50 m

◆ X = Others

◆ Y = 50 to 100 m

◆ Z = 100 m

◆ 1 = Less than 0.001 mm

◆ 2 = Less than 0.01 mm

◆ 3 = 0.01 to 0.2 mm

◆ 4 = Less than 0.2 mm

◆ 5 = 0.2 to 1.0 mm

◆ 6 = 1 to 5 mm

◆ 7 = 0.5 to 3 cm

◆ 8 = > 3 cm

«Domain value - F4E05\_MINERALOGIE»

Champ: CODE\_INDC\_METL

◆ N = No

◆ O = Yes

## «Domain value - F4E05\_MINERALOGIE»

### Champ: CODE\_MINR

- ◆ AA = Andesine
- ◆ AB = Albite
- ◆ AC = Actinolite
- ◆ AD = Andalusite
- ◆ AE = Agate
- ◆ AF = Fluorapatite
- ◆ AG = Augite
- ◆ Ag = Silver
- ◆ AH = Amethyst
- ◆ AI = Amazonite
- ◆ AK = Ankerite
- ◆ AL = Allanite
- ◆ AM = Amphibole
- ◆ AN = Anorthite
- ◆ AO = Asbestos
- ◆ AP = Apatite
- ◆ AQ = Emerald
- ◆ AR = Picrolite
- ◆ AS = Arsenopyrite
- ◆ AT = Anthophyllite

◆ AU = Autunite

◆ Au = Gold

◆ AV = Acanthite

◆ AX = Axinite

◆ AY = Anhydrite

◆ AZ = Azurite

◆ BA = Bastnaesite

◆ BC = Brucite

◆ BD = Boltwoodite

◆ BE = Brannerite

◆ BF = Betafite

◆ BG = Boulangerite

◆ BH = Brochantite

◆ BI = Birnessite

◆ Bi = Bismuth

◆ BL = Beryl

◆ BM = Bismuthinite

◆ BN = Bornite

◆ BO = Biotite

◆ BP = Aikinite

◆ BR = Barytine

◆ BS = Bismutite

◆ BT = Bytownite

◆ BU = Britholite

◆ BV = Bravoite

◆ BY = Baddeleyite

◆ CA = Calaverite

◆ CB = Carbonate

◆ CC = Calcite

◆ CD = Cordierite

◆ Cd = Cadmium

◆ CE = Cobaltite

◆ Ce<sub>2</sub>O<sub>3</sub> = Cerium

◆ CF = Cubanite

◆ CG = Cummingtonite

◆ CH = Chert

◆ CI = Cleavelandite

◆ CJ = Cattierite

◆ CK = Cryptomelane

◆ CL = Chlorite

◆ CM = Chromite

◆ CN = Corundum

◆ CO = Chloanthite

◆ Co = Cobalt

◆ CP = Chalcopyrite

💎 CQ = Chalcedony

💎 CR = Chloritoid

💎 CS = Chrysotile

💎 CT = Chalcocite

💎 CU = Cuprite

💎 Cu = Copper

💎 CV = Covellite

💎 CW = Cancrinite

💎 CX = Clinopyroxene

💎 CY = Chrysocolla

💎 CZ = Clinozoisite

💎 DD = Diamond

💎 DG = Digenite

💎 DH = Maghemite

💎 DI = Braggite

💎 DJ = Djurleite

💎 DL = Devilline

💎 DM = Dolomite

💎 DN = Chamosite

💎 DP = Diopside

💎 DS = Dravite

💎 DT = Danaite

◆ DW = Sklodowskite

◆ DY = Soddyite

◆ Dy<sub>2</sub>O<sub>3</sub> = Dysprosium

◆ EA = Emerald

◆ EC = Aeschynite - (Y)

◆ EG = Enargite

◆ EL = Celestite

◆ EM = Electrum

◆ EP = Epidote

◆ ER = Erythrite

◆ Er<sub>2</sub>O<sub>3</sub> = Erbium

◆ ES = Enstatite

◆ EU = Eudialyte

◆ Eu<sub>2</sub>O<sub>3</sub> = Europium

◆ EX = Euxenite - (Y)

◆ EY = Aegyrine

◆ FA = Fayalite

◆ FB = Fibrolite

◆ FC = Fuchsite

◆ FD = Feldspathoid

◆ Fe = Iron

◆ FF = Safflorite

◆ FG = Freibergite

◆ FK = Potassium feldspar

◆ FL = Fluorite

◆ FM = Ferrimolybdate

◆ FN = Black feldspar

◆ FO = Forsterite

◆ FP = Feldspar

◆ FR = Franklinite

◆ FS = Fergusonite

◆ FT = Ferghanite

◆ FV = Green/brown feldspar

◆ GA = Almandine garnet

◆ Ga<sub>2</sub>O<sub>3</sub> = Gallium

◆ GB = Gummite

◆ GC = Glaucophane

◆ GD = Andradite

◆ Gd<sub>2</sub>O<sub>3</sub> = Gadolinium

◆ GE = Gypsum

◆ GF = Greenalite

◆ GG = Grossular garnet

◆ GH = Gahnite

◆ GI = Gunningite

◆ GK = Greenockite



◆ GL = Galena

◆ GM = Manganiferous garnet

◆ GN = Grunerite

◆ GO = Goethite

◆ GP = Graphite

◆ GR = Garnet

◆ GS = Spessartine

◆ GT = Gedrite

◆ GU = Uvarovite

◆ GV = Glauconite

◆ GY = Pyrope garnet

◆ HB = Hornblende

◆ HC = Hercynite

◆ HD = Stilbite

◆ HE = Hemimorphite

◆ HfO2 = Hafnium

◆ HG = Hedenbergite

◆ HK = Holmquistite

◆ HL = Halite

◆ HM = Hematite

◆ HN = Hydromagnesite

◆ HO = Clinohypersthene

◆ Ho<sub>2</sub>O<sub>3</sub> = Holmium

◆ HP = Hypersthene

◆ HR = Chondrodite

◆ HREO = Heavy rare earth

◆ HS = Specularite

◆ HT = Hydrocerussite

◆ HU = Thucholite

◆ HZ = Haezlewoodite

◆ IC = Magnesiochromite

◆ ID = Idaite

◆ IF = Issoferroplatinum

◆ IG = Iddingsite

◆ II = Peristerite

◆ IM = Ilmenite

◆ IR = Iriginite

◆ JA = Jadeite

◆ JP = Jasper

◆ JS = Jarosite

◆ KA = Akermanite

◆ KC = Sylvite

◆ KK = Klockmannite

◆ KL = Kaolinite

◆ KM = Kermesite

◆ KN = Kyanite

◆ KP = Korerupine

◆ KR = Krennerite

◆ KS = Kasolite

◆ La<sub>2</sub>O<sub>3</sub> = Lanthanum

◆ LB = Labradorite

◆ LC = Leucite

◆ LD = Lepidocrocite

◆ LE = Lessingite

◆ LG = Löllingite

◆ LI = Laurite

◆ LM = Limonite

◆ LN = Linnaeite

◆ LP = Lepidolite

◆ LR = Anglesite

◆ LREO = Light rare earth

◆ LS = Lawsonite

◆ LU = Laumontite

◆ Lu<sub>2</sub>O<sub>3</sub> = Lutetium

◆ LX = Leucoxene

◆ MA = Clay minerals

◆ MB = Molybdate

◆ MC = Malachite

◆ MD = Decorative minerals

◆ ME = Melilite

◆ MF = Mafic minerals

◆ MG = Magnetite

◆ MH = Martite

◆ MI = Mica

◆ MK = Merenskyite

◆ ML = Microcline

◆ MM = Manganite

◆ MN = Magnesite

◆ MO = Molybdenite

◆ Mo = Molybdenum

◆ MP = Mesoperthite

◆ MR = Radioactive minerals

◆ MS = Marcasite

◆ MT = Mariposite

◆ MU = Minnesotaite

◆ MV = Muscovite

◆ MW = Melonite

◆ MX = Heavy minerals

◆ MY = Yttrium (minerals)

◆ MZ = Monazite

◆ NA = Gersdorffite

◆ NaCl = Salt

◆ NB = Columbite/niobite

◆ Nb = Niobium

◆ Nb<sub>2</sub>O<sub>5</sub> = Niobium

◆ NC = Gaspeite

◆ Nd<sub>2</sub>O<sub>3</sub> = Néodymium

◆ NE = Meneghinite

◆ NF = Awaruite

◆ NG = Annabergite

◆ NH = Nephrite

◆ Ni = Nickel

◆ NM = Titanomagnetite

◆ NN = Stannite

◆ NP = Nepheline

◆ NS = Millerite

◆ NT = Anatase

◆ OA = Aragonite

◆ OC = Ochre

◆ OF = Iron oxide

◆ OG = Oligoclase

◆ OH = Basaltic hornblende (brown hornblende)

◆ OI = Niocalite

◆ OL = Ottrelite

◆ OM = Monticellite

◆ ON = Stibiconite

◆ OO = Cooperite

◆ OP = Opaque minerals

◆ OR = Orthoclase

◆ OS = Cervantite

◆ OT = Tetraferroplatinum

◆ OV = Olivine

◆ OX = Orthopyroxene

◆ OY = Aegyrine-augite

◆ PA = Phenacite/phenakite

◆ PB = Pitchblende

◆ Pb = Lead

◆ PC = Pistacite

◆ PD = Pentlandite

◆ Pd = Palladium

◆ PE = Paragonite

◆ PF = Periclase

◆ PG = Plagioclase

◆ PH = Phlogopite

◆ PI = Cosalite

◆ PJ = Posnjakite

◆ PK = Perovskite

◆ PL = Pyrophyllite

◆ PM = Pyrochlore

◆ PN = Prehnite

◆ PO = Pyrrhotine

◆ PP = Pumpellyite

◆ PQ = Petalite

◆ PR = Perthite

◆ Pr<sub>2</sub>O<sub>3</sub> = Praseodymium

◆ PS = Pyrolusite

◆ PT = Penninite

◆ Pt = Platine

◆ PU = Phosphuranylite

◆ PX = Pyroxene

◆ PY = Pyrite

◆ PZ = Petzite

◆ P<sub>2</sub>O<sub>5</sub> = Apatite

◆ QB = Blue quartz

◆ QZ = Quartz

◆ RB = Riebeckite

◆ RC = Roscoelite

◆ RD = Rhodochrosite

◆ RE = Rare earth minerals

◆ RL = Rutile

◆ RM = Romanechite

◆ RN = Rhodonite

◆ RU = Ruby

◆ RZ = Rozenite

◆ S = Sulfur

◆ SA = Sanidine

◆ SB = Stibnite

◆ SC = Scapolite

◆ Sc<sub>2</sub>O<sub>3</sub> = Scandium

◆ SD = Siderite

◆ SE = Stilpnomelane

◆ Se = Selenium

◆ SF = Sulphides

◆ SG = Selenite

◆ SH = Sapphirine

◆ SI = Siderotil

◆ Si = Silicon

◆ SiO<sub>2</sub> = Silica



◆ SK = Samarskite

◆ SL = Spinel

◆ SM = Sillimanite

◆ Sm<sub>2</sub>O<sub>3</sub> = Samarium

◆ SN = Sphene/titanite

◆ SO = Spodumene

◆ SP = Sphalerite

◆ SR = Sericite

◆ SS = Sodalite

◆ ST = Serpentine

◆ SU = Staurolite

◆ SV = Sylvanite

◆ SW = Scheelite

◆ SX = Strontianite

◆ SY = Starkeyite

◆ SZ = Szomolnokite

◆ TA = Zinc tourmaline

◆ Ta = Tantalum

◆ Ta<sub>2</sub>O<sub>5</sub> = Tantalum

◆ TB = Tellurobismuthite

◆ Tb<sub>2</sub>O<sub>3</sub> = Terbium

◆ TC = Talc

◆ TD = Tetradymite

◆ TE = Tenorite

◆ Te = Tellurium

◆ TF = Schorlite/schorl

◆ TG = Dravite

◆ TH = Tetrahedrite

◆ ThO<sub>2</sub> = Thorium

◆ TI = Thorite

◆ TiO<sub>2</sub> = Ilmenite

◆ TL = Tourmaline

◆ TM = Tremolite

◆ Tm<sub>2</sub>O<sub>3</sub> = Thulium

◆ TN = Tantalite

◆ TO = Columbotantalite

◆ TP = Altaite

◆ TR = Thorianite

◆ Tr = Rare earth

◆ TREO = Rare earth

◆ TS = Steatite

◆ TT = Tennantite

◆ TU = Torbernite

◆ TW = Smaltite

◆ TX = Xenotime-(Y)

- ◆ TZ = Topaz
- ◆ UB = Coffinite
- ◆ UC = Clarkeite
- ◆ UD = Gudmundite
- ◆ UH = Uranothorianite
- ◆ UI = Uranopilite
- ◆ UL = Samarskite - (Y)
- ◆ UN = Nickeline
- ◆ UO2 = Uranium
- ◆ UP = Uranophane
- ◆ UR = Uraninite
- ◆ US = Ulvöspinel
- ◆ UT = Uranothorite
- ◆ U3O8 = Uranium
- ◆ V = Vanadium
- ◆ VA = Valentinite
- ◆ VD = Arfvedsonite
- ◆ VL = Valleriite
- ◆ VO = Violarite
- ◆ VR = Vermiculite
- ◆ VS = Senarmontite
- ◆ VV = Vesuvianite

◆ V2O5 = Vanadium

◆ WD = Cerussite

◆ WF = Wolframite

◆ WH = Meymacite

◆ WL = Wollastonite

◆ WM = Willemite

◆ WN = Wulfenite

◆ WO = Bournonite

◆ WS = Wilsonite

◆ WT = Witherite

◆ XA = Charbon

◆ XB = Bioclast

◆ XC = Cement

◆ XD = Peloid

◆ XE = Pisolite

◆ XG = Organic matter

◆ XH = Hydrocarbon

◆ XI = Intraclast

◆ XL = Binding agent, matrix

◆ XM = Matrix

◆ XN = Anthraxolite

◆ XO = Oolite

◆ XP = Pellets

◆ XR = Lithoclast

◆ XT = Oncolite

◆ XU = Spicule

◆ XX = Others

◆ Y = Yttrium

◆ YA = Conulariid

◆ YB = Brachiopod

◆ Yb2O3 = Ytterbium

◆ YC = Cephalopod

◆ YD = Echinoderm

◆ YE = Sponge

◆ YF = Ichnofossil (trace fossil)

◆ YG = Graptolite

◆ YH = Archaeocyatha

◆ YI = Stromatoporoid

◆ YJ = Euryptéride

◆ YK = Fish

◆ YL = Trilobite

◆ YM = Salterella

◆ YN = Plant

◆ YO = Ostracod

◆ YP = Pelecypod

◆ YR = Crinoid

◆ YS = Stromatoids

◆ YT = Gastropod

◆ YU = Algae

◆ YW = Radiolaria

◆ YX = Corals

◆ YY = Unidentified fossil

◆ YZ = Bryozoan

◆ Y2O3 = Yttrium

◆ ZA = Sapphire

◆ ZB = Chabazite/chabazite

◆ ZC = Zircon

◆ ZH = Hydrozincite

◆ ZL = Zeolite

◆ ZN = Zincite

◆ ZO = Smithsonite

◆ ZP = Pollucite

◆ ZrO2 = Zirconium

◆ ZS = Zoisite

◆ ZT = Thomsonite

◆ ZU = Cyrtolite

## «Domain value - F4E05\_MINERALOGIE»

### Champ: CODE\_STRU\_TEXT

◆ AA = Outcrop characterized by folding

◆ AB = Amoeboidal

◆ AC = Acicular

◆ AD = Adcumulate

◆ AE = Altered

◆ AF = Lengthened

◆ AG = Amalgamated beds

◆ AI = Irregular cluster

◆ AJ = Flattened

◆ AM = Amygdaloidal

◆ AN = Anastomosing

◆ AO = Rounded cluster (spherulitic)

◆ AP = Aphanitic

◆ AR = Anti-rapakivi

◆ AS = Dendritic

◆ AT = Agmatitic

◆ AU = Autoclastic

◆ AY = Apophysis

◆ A1 = Grain very round

◆ A2 = Round grain

- ◆ A3 = Grain subarrondi
- ◆ A4 = Very angular grain
- ◆ A5 = Angular grain
- ◆ A6 = Subanguleux grain
- ◆ BA = Bedded
- ◆ BB = Isolated mini-pillow breccia
- ◆ BC = Isolated ordinary pillow breccia
- ◆ BE = Bird's eye
- ◆ BF = Isolated mega-pillow breccia
- ◆ BG = Loosely packed pillow breccia
- ◆ BH = Disintegrated/broken pillow breccia
- ◆ BI = Wedge
- ◆ BJ = Bioturbation
- ◆ BK = Fragmented pillow breccia
- ◆ BL = Blocks (with)
- ◆ BM = Cementation bands
- ◆ BN = Intrusion breccia
- ◆ BO = Boudinage
- ◆ BP = Pyroclastic breccia
- ◆ BQ = Flow breccia/lava breccia
- ◆ BR = Breccia/brecciated
- ◆ BS = Basal



◆ BT = Tectonic breccia

◆ BU = Flow boundary

◆ BV = Botryoidal

◆ BY = Crushing

◆ B0 = Bouma sequence (presence)

◆ B1 = Bouma sequence (presence of 1 division)

◆ B2 = Bouma sequence (presence of 2 divisions)

◆ B3 = Bouma sequence (presence of 3 divisions)

◆ B4 = Bouma sequence (presence of 4 divisions)

◆ B5 = Bouma sequence (complete sequence)

◆ CA = Pebbles (4-64 mm)

◆ CB = Convolute

◆ CC = Concretion/nodule

◆ CD = Erosion channel

◆ CE = Ash

◆ CF = Fragmented pillows

◆ CG = Channeled

◆ CH = Channel

◆ CI = Isolated pillows

◆ CJ = Pillows in contact

◆ CK = Massive flow

◆ CL = Flow

◆ CM = Cumulite

- ◆ CN = Groove
- ◆ CO = Pillows/pillowed
- ◆ CP = Cryptalgal
- ◆ CQ = Cataclastic
- ◆ CR = Crystalloblastic
- ◆ CS = Sheared
- ◆ CT = Crescumulate
- ◆ CU = Cumulate
- ◆ CV = Volcanic centre
- ◆ CW = Mass. coar. flow and/or coar. basal parts of flow
- ◆ CX = Crystals
- ◆ CY = Cyclicity
- ◆ CZ = Massive flow with pillowed top
- ◆ C1 = Conglomerate bloc (> 256 mm)
- ◆ DB = Diablastic
- ◆ DC = Jointed
- ◆ DD = Unconformity
- ◆ DE = Flow direction
- ◆ DF = Dykes in layers
- ◆ DG = Disaggregated/broken
- ◆ DH = Diffuse
- ◆ DI = Disseminated

- ◆ DK = Drusy
- ◆ DN = Feeder (feeder dyke)
- ◆ DO = Discontinuous
- ◆ DQ = Diabasic
- ◆ DR = Current direction
- ◆ DS = Dishes-and-pillars
- ◆ DT = Dendritic
- ◆ DU = Dunes
- ◆ DW = Durchbewegung
- ◆ EC = Load cast
- ◆ ED = Shard
- ◆ EE = Echelon
- ◆ EF = Collapse structure
- ◆ EI = Impact mark
- ◆ EL = Groove cast
- ◆ EM = Crustification
- ◆ EN = Enclave
- ◆ EO = Flow structure
- ◆ EP = Epiclastic
- ◆ EQ = Equigranular
- ◆ ER = Growth
- ◆ ES = Festoons

- ◆ ET = Piercement
- ◆ EX = Extrusive
- ◆ FA = Fractured
- ◆ FB = Fibroblastic
- ◆ FC = Radial fractures in pillows
- ◆ FD = Desiccation crack
- ◆ FE = Flame
- ◆ FF = Fossiliferous
- ◆ FG = Fragmented
- ◆ FH = Cogenetic (synvolcanic) sills
- ◆ FI = Fibrous
- ◆ FJ = Intraformational fault
- ◆ FK = Polymictic/polygenic flattened fragments
- ◆ FL = Fluidal structure
- ◆ FM = Cooling crack
- ◆ FN = Vein type
- ◆ FO = Foliated
- ◆ FP = Flattened pillows
- ◆ FQ = Monomictic/monogenic flattened fragments
- ◆ FR = Pencil structure
- ◆ FS = Flaser
- ◆ FT = Flute cast
- ◆ FU = Polymictic/polygenic elongated fragments

- ◆ FV = Synvolcanic fault
- ◆ FW = Monomictic/monogenic elongated fragments
- ◆ FX = Overload deformed flute
- ◆ FZ = Fragmented flow
- ◆ GA = Cobbles 64-256mm
- ◆ GB = Glomeroblastic
- ◆ GC = Glomeroclastic
- ◆ GD = Straight gneiss
- ◆ GE = Geode
- ◆ GF = Fine grained (rocks codes V,I,M,T = 0,1 to 1 mm)
- ◆ GG = Coarse grained (rocks codes V,I,M,T = 5 mm to 3cm)
- ◆ GH = Glomeroporphyric
- ◆ GI = Reverse graded bedding
- ◆ GJ = Reverse graded bedding followed by normal
- ◆ GK = Regular graded bedding followed by reverse
- ◆ GL = Gradual
- ◆ GM = Medium grained (rocks codes V,I,M,T = 1 mm to 5mm)
- ◆ GN = Regular graded bedding
- ◆ GO = Very coarse grained (rocks codes V,I,M,T > 3 cm)
- ◆ GP = Graphic
- ◆ GQ = Granoclastic
- ◆ GR = Granoblastic

- ◆ GS = Gneissic
- ◆ GT = Very fine grained (rocks codes V,I,M,T=,01 to,1mm)
- ◆ GU = 2-4mm granules (with)
- ◆ GV = Griffon
- ◆ GW = Densimetric gradation
- ◆ GX = Glomerocrystalline
- ◆ GY = Granophyric
- ◆ G0 = Conglomerate galet (64-256 mm)
- ◆ G1 = Conglomerate cobbles (64-256 mm)
- ◆ G2 = Silt (0,0039 - 0,0625 mm)
- ◆ G3 = Very fine sandstone (0,06-0,13)
- ◆ G4 = Fine sandstone (0,13-0,25 mm)
- ◆ G5 = Average sandstone (0,25-0,5 mm)
- ◆ G6 = Coarse sandstone (0,5-1 mm)
- ◆ G7 = Very coarse sandstone (1-2 mm)
- ◆ G8 = Conglomerate granulates (2-4 mm)
- ◆ G9 = Conglomerate pebbles (4-64 mm)
- ◆ HA = Harrisitic
- ◆ HB = Heteroblastic
- ◆ HC = Holocrystalline
- ◆ HD = Hypidiomorphic
- ◆ HE = Helicitic

- ◆ HG = Heterogranular
- ◆ HH = Holohyaline
- ◆ HJ = Homogenous
- ◆ HK = Heterogeneous
- ◆ HL = Hololeucocratic
- ◆ HM = Holomelanocratic
- ◆ HP = Hyalopilitic
- ◆ HQ = Homeoblastic
- ◆ HR = Reworked hyaloclastites
- ◆ HT = Homotactic
- ◆ HU = Heteradcumulate
- ◆ HX = Hypocrystalline
- ◆ HY = Hyaloclastites
- ◆ IC = Iridescence
- ◆ ID = Idiomorphic
- ◆ IG = Intergranular
- ◆ IL = Isolated
- ◆ IM = Pebble imbrication
- ◆ IP = Impregnation
- ◆ IQ = Pisolithic
- ◆ IR = Intraformational
- ◆ IS = Intersertal
- ◆ IT = Intraclasts (with)

- ◆ IU = Intrusive/injection
- ◆ JC = Columnar joints
- ◆ KO = Coronitic
- ◆ KR = Karstic
- ◆ LA = Laminar/laminated
- ◆ LB = Lobe
- ◆ LC = Convolute laminations
- ◆ LD = Lenticular bed
- ◆ LE = Lenticular
- ◆ LF = Lepidoblastic
- ◆ LG = Thick bed (> 25 cm)
- ◆ LI = Lapilli
- ◆ LJ = Liesegang rings
- ◆ LK = Blocky lava
- ◆ LL = Lenticular undulating laminations
- ◆ LM = Thin bed (1-10cm)
- ◆ LN = Medium thickness bed (10-25cm)
- ◆ LO = Undulating laminations
- ◆ LP = Parallel laminations
- ◆ LQ = Oblique laminations
- ◆ LR = Loosely packed
- ◆ LS = Flaser lamination



- ◆ LT = Laths
- ◆ LU = Labradorescence
- ◆ LV = Lava/lava flow
- ◆ LX = Leucocratic
- ◆ MA = Massive
- ◆ MB = Microbreccia
- ◆ MC = Megapillows
- ◆ MD = Molar-shaped pillows
- ◆ ME = Metamorphosed
- ◆ MF = Mesocumulate
- ◆ MG = Mégacristique
- ◆ MH = Mortar (in)
- ◆ MI = Microlitic
- ◆ MJ = Spotted
- ◆ MK = Mesocratic
- ◆ ML = Miarolitic
- ◆ MM = Monomictic/monogenic
- ◆ MN = Mylonitic
- ◆ MO = Mosaic
- ◆ MP = Megaporphyritic
- ◆ MR = Microporphyric
- ◆ MS = Melanosome

◆ MT = Micritic

◆ MU = Mini pillows

◆ MX = Melanocratic

◆ MY = Myrmekitic

◆ MZ = Mobilizate

◆ NB = Nebulitic

◆ NC = Pillow lava with saussuritized cores

◆ NE = Nematoblastic

◆ NF = Newly formed

◆ NL = Neoblastique

◆ NM = Massive flow with saussuritized cores

◆ NO = Nodular

◆ NR = Pencil gneiss

◆ NS = Neosome

◆ NY = Core

◆ OC = Ocellar

◆ OE = Augen

◆ OI = Oikocryst (with)

◆ OL = Colloform

◆ OO = Oolitic

◆ OP = Ophitic

◆ OR = Orbicular

◆ OU = Orthocumulate

◆ OY = Pseudoporphyrific

◆ PA = Panidiomorphic

◆ PB = Poikiloblastic

◆ PC = Poikilitic

◆ PD = Peloids

◆ PE = Erosional paleosurface

◆ PF = Protoclastic

◆ PG = Pegmatitic

◆ PH = Phaneritic

◆ PI = Phenocrystic

◆ PJ = Porphyroclastic

◆ PK = Pebble stringers

◆ PL = Pellets

◆ PM = Polymictic/polygenic

◆ PN = Pumice

◆ PO = Porphyritic

◆ PP = Porphyry

◆ PQ = Porphyroblastic

◆ PR = Pyroclastic

◆ PS = Paleosome

◆ PT = Perlitic

◆ PU = Plutonic

◆ PV = Interference pattern

◆ PW = Comb

◆ PX = Prismatic

◆ PY = Cockade

◆ PZ = Ptygmatic folds

◆ QA = Disordered sequence of beds of variable thickness

◆ QB = Disordered sequence of beds of constant thickness

◆ QC = Regular rhythm of beds of variable thickness

◆ QD = Regular rhythm of beds of constant thickness

◆ QE = Irregular rhythm of beds of variable thickness

◆ QF = Irregular rhythm of beds of constant thickness

◆ QG = Complete cycles

◆ QH = Incomplete cycles

◆ RA = Concentric banding

◆ RB = Framboidal

◆ RC = Ripple marks

◆ RE = Reticulate

◆ RF = Reniform

◆ RG = Regolit/regolith

◆ RI = Rip-up clast(s)

◆ RK = Rapakivi

◆ RL = Replacement

◆ RM = Rill mark(s)

◆ RN = Reworked

◆ RO = Raft

◆ RP = Ripple marks

◆ RQ = Ribbon quartz

◆ RS = Symmetric banding

◆ RT = Tectonic banding

◆ RU = Banded

◆ RX = Porous

◆ SB = Water escape structure

◆ SC = Schistose

◆ SD = Saccharoidal

◆ SE = Erosion surface

◆ SF = Trough cross-bedding

◆ SG = Streaky

◆ SH = Schlieren

◆ SI = Striation

◆ SJ = Strata-bound

◆ SK = Stromatic

◆ SL = Slump

◆ SM = Top

◆ SN = Oblique planar stratification/lamination

◆ SO = Subophitic

- ◆ SP = Spherulitic
- ◆ SQ = Oblique tangential stratification/lamination
- ◆ SR = Scoriaceous
- ◆ SS = Stringer
- ◆ ST = Stratified
- ◆ SU = Stromatolitic
- ◆ SV = Shatter cone
- ◆ SX = Spinifex
- ◆ SY = Stylolites
- ◆ SZ = Spherical
- ◆ TA = Tabular
- ◆ TB = Turbidite
- ◆ TC = Cherty tuff
- ◆ TD = Ash tuff
- ◆ TE = Tectonic
- ◆ TF = Trace fossils
- ◆ TG = Graphitic tuff
- ◆ TH = Hyalotuff
- ◆ TI = Lithic tuff
- ◆ TJ = Texture primary
- ◆ TL = Lapilli tuff
- ◆ TM = Block tuff

- ◆ TO = Lapillistone
- ◆ TP = Chilled zone
- ◆ TR = Trachytic/trachytoidal
- ◆ TS = Welded tuff
- ◆ TT = Talus
- ◆ TU = Undefined tuff
- ◆ TX = Crystal tuff
- ◆ TY = Lapilli tuff and block
- ◆ TZ = Block and lapilli tuff
- ◆ T1 = Grain sorted very well
- ◆ T2 = Well sorted grain
- ◆ T3 = Grain sorted moderately well
- ◆ T4 = Moderately sorted grain
- ◆ T5 = Badly sorted grain
- ◆ T6 = Grain very badly sorted
- ◆ VA = Variolitic
- ◆ VC = Volcaniclastites
- ◆ VD = Vein in col (saddle reef)
- ◆ VE = Vesicular
- ◆ VG = Granulometric gradation
- ◆ VH = Vein in scale (ladder vein)
- ◆ VI = Vitreous

◆ VL = Vein shearing

◆ VN = Veined

◆ VO = Volcanic

◆ VP = Volcanic centre/proximal facies

◆ VT = Vein in tension/extension

◆ WK = Stockwerk

◆ XB = Xenoblastic

◆ XM = Xenomorphic

◆ XP = Elongated pillows

◆ XX = Others

◆ YH = Heteroclastic tectonite

◆ YL = L-tectonite

◆ YM = Homoclastic tectonite

◆ YS = S-tectonite

◆ YZ = L/S-tectonite

◆ ZC = Contact zone

◆ ZD = Deformation zone

◆ ZM = Mineralized zone

◆ ZR = Rusty zone

◆ ZS = Shear zone

◆ ZU = Gossan

◆ 0A = Interdigitation with A

◆ 0B = Interdigitation with B



0C = Interdigitation with C

0D = Interdigitation with D

0E = Interdigitation with E

0F = Interdigitation with F

0G = Interdigitation with G

0H = Interdigitation with H

0I = Interdigitation with I

0J = Interdigitation with J

1A = Overlying A

1B = Overlying B

1C = Overlying C

1D = Overlying D

1E = Overlying E

1F = Overlying F

1G = Overlying G

1H = Overlying H

1I = Overlying I

1J = Overlying J

2A = Underlying A

2B = Underlying B

2C = Underlying C

2D = Underlying D

◆ 2E = Underlying E

◆ 2F = Underlying F

◆ 2G = Underlying G

◆ 2H = Underlying H

◆ 2I = Underlying I

◆ 2J = Underlying J

◆ 3A = In sharp contact with A

◆ 3B = In sharp contact with B

◆ 3C = In sharp contact with C

◆ 3D = In sharp contact with D

◆ 3E = In sharp contact with E

◆ 3F = In sharp contact with F

◆ 3G = In sharp contact with G

◆ 3H = In sharp contact with H

◆ 3I = In sharp contact with I

◆ 3J = In sharp contact with J

◆ 4A = In diffused contact with A

◆ 4B = In diffused contact with B

◆ 4C = In diffused contact with C

◆ 4D = In diffused contact with D

◆ 4E = In diffused contact with E

◆ 4F = In diffused contact with F

◆ 4G = In diffused contact with G

◆ 4H = In diffused contact with H

◆ 4I = In diffused contact with I

◆ 4J = In diffused contact with J

◆ 5A = In trans. contact with A

◆ 5B = In trans. contact with B

◆ 5C = In trans. contact with C

◆ 5D = In trans. contact with D

◆ 5E = In trans. contact with E

◆ 5F = In trans. contact with F

◆ 5G = In trans. contact with G

◆ 5H = In trans. contact with H

◆ 5I = In trans. contact with I

◆ 5J = In trans. contact with J

◆ 6A = In discor. contact with A

◆ 6B = In discor. contact with B

◆ 6C = In discor. contact with C

◆ 6D = In discor. contact with D

◆ 6E = In discor. contact with E

◆ 6F = In discor. contact with F

◆ 6G = In discor. contact with G

◆ 6H = In discor. contact with H

◆ 6I = In discor. contact with I

6J = In discor. contact with J

7A = Intrusive in A

7B = Intrusive in B

7C = Intrusive in C

7D = Intrusive in D

7E = Intrusive in E

7F = Intrusive in F

7G = Intrusive in G

7H = Intrusive in H

7I = Intrusive in I

7J = Intrusive in J

8A = As enclave in A

8B = As enclave in B

8C = As enclave in C

8D = As enclave in D

8E = As enclave in E

8F = As enclave in F

8G = As enclave in G

8H = As enclave in H

8I = As enclave in I

8J = As enclave in J

9A = Other with A

9B = Other with B

9C = Other with C

9D = Other with D

9E = Other with E

9F = Other with F

9G = Other with G

9H = Other with H

9I = Other with I

9J = Other with J

«Domain value - F4A06\_CORPS\_MINR\_CLASF»

Champ: CODE\_CLASF\_CORPS\_MINR

◆ A = Cluster

◆ C = Layer

◆ L = Lithology

◆ N = Level

◆ R = Band, ribbon

◆ Z = Lamina

## «Domain value - F4A07\_CORPS\_MINR\_INST\_MINR»

### Champ: CODE\_TYPE\_INST\_MINR

- ◆ BR = Tailings pond
- ◆ CC = Quarry
- ◆ CG = Aggregate quarry
- ◆ CO = Open stope
- ◆ DB = Tailings pond dyke
- ◆ GF = Adit
- ◆ GL = Geallery
- ◆ HS = Waste dump
- ◆ MO = Opencast mine
- ◆ PI = Inclined shaft
- ◆ PO = Projected underground opening
- ◆ PV = Vertical shaft
- ◆ RP = Ramp
- ◆ UT = Treatment plant

«Domain value - F4E07\_TENR\_PRODUCTION\_RESERVE»

Champ: CODE\_ELMN\_CHIM\_PERD

◆ Ac = Actinium

◆ Ag = Silver

◆ Al = Aluminum

◆ Ar = Argon

◆ As = Arsenic

◆ At = Astatine

◆ Au = Gold

◆ B = Boron

◆ Ba = Barium

◆ Be = Beryllium

◆ Bi = Bismuth

◆ Br = Bromine

◆ C = Carbon

◆ Ca = Calcium

◆ Cd = Cadmium

◆ Ce = Cerium

◆ Cl = Chloride

◆ Co = Cobalt

◆ Cr = Chromium

◆ Cs = Cesium



◆ Cu = Copper

◆ Dy = Dysprosium

◆ EGP = Elements of the platinum group

◆ Er = Erbium

◆ ETR = Rare earth minerals

◆ Eu = Europium

◆ F = Fluorine

◆ Fe = Iron

◆ Fr = Francium

◆ Ga = Gallium

◆ Gd = Gadolinium

◆ Ge = Germanium

◆ He = Helium

◆ Hf = Hafnium

◆ Hg = Mercury

◆ Ho = Holmium

◆ I = Iodine

◆ In = Indium

◆ Ir = Iridium

◆ K = Potassium

◆ Kr = Krypton

◆ La = Lanthanum

◆ Li = Lithium

◆ Lu = Lutetium

◆ Mg = Magnesium

◆ Mn = Manganese

◆ Mo = Molybdenum

◆ N = Nitrogen

◆ Na = Sodium

◆ Nb = Niobium

◆ Nd = Neodymium

◆ Ne = Neon

◆ Ni = Nickel

◆ Np = Neptunium

◆ Os = Osmium

◆ P = Phosphorus

◆ Pb = Lead

◆ Pd = Palladium

◆ Pm = Promethium

◆ Po = Polonium

◆ Pr = Praseodymium

◆ Pt = Platinum

◆ Pu = Plutonium

◆ Ra = Radium

◆ Rb = Rubidium

◆ Re = Rhenium

◆ Rh = Rhodium

◆ Rn = Radon

◆ Ru = Ruthenium

◆ S = Sulfur

◆ Sb = Antimony

◆ Sc = Scandium

◆ Se = Selenium

◆ Si = Silicon

◆ Sm = Samarium

◆ Sn = Tin

◆ Sr = Strontium

◆ Ta = Tantalum

◆ Tb = Terbium

◆ Te = Tellurium

◆ Th = Thorium

◆ Ti = Titanium

◆ Tl = Thallium

◆ Tm = Thulium

◆ U = Uranium

◆ V = Vanadium

◆ W = Tungsten

◆ Xe = Xenon

◆ Y = Yttrium

◆ Yb = Ytterbium

◆ Zn = Zinc

◆ Zr = Zirconium

«Domain value - F4E07\_TENR\_PRODUCTION\_RESERVE»

Champ: CODE\_INDC\_PROD\_RESR

◆ P = Production

◆ R = Reserve

## «Domain value - F4E07\_TENR\_PRODUCTION\_RESERVE»

Champ: CODE\_UNITE\_TENR

◆ % = Weight percent

◆ cct = Hundredth of PCT

◆ cpb = Hundredth of PPB

◆ cpm = Hundredth of PPM

◆ cpt = Hundredth of PPT

◆ dct = Tenth of PCT

◆ dpb = Tenth of PPB

◆ dpm = Tenth of PPM

◆ dpt = Tenth of PPT

◆ g/t = Gram per ton

◆ pcm = Parts per 100 000

◆ pct = Percent

◆ ppb = Parts per billion

◆ ppm = Parts per million

◆ ppt = Parts per billion

«Domain value - F4E12\_OBJET\_LINEAIRE»

Champ: CODE\_ANGLE\_OUVRT

◆ D = Undulating

◆ I = Isoclinal

◆ O = Open

◆ S = Tight

## «Domain value - F4E12\_OBJET\_LINEAIRE»

Champ: CODE\_EXPL\_OBJT\_LINR

◆ C = Calculated

◆ F = Feldspar

◆ I = Mafic minerals

◆ M = Measured

◆ Q = Quartz

◆ X = Other minerals

◆ 1 = Sense in plunge direction

◆ 2 = Sense opposite to plunge direction



## «Domain value - F4E12\_OBJET\_LINEAIRE»

**Champ: CODE\_FORME**

◆ A = Class 1A

◆ B = Class 1B (parallel)

◆ C = Class 1C

◆ F = By flow

◆ I = Intrafolial

◆ K = Conical

◆ P = Ptygmatic

◆ R = Sheath fold

◆ X = Others

◆ 2 = Class 2 (similar)

◆ 3 = Class 3

## «Domain value - F4E12\_OBJET\_LINEAIRE»

### Champ: CODE\_GRAN\_LONG\_ONDE

◆ A = 0.001 to 0.01 mm

◆ B = 0.01 to 0.05 mm

◆ C = 0.05 to 0.1 mm

◆ D = 0.1 to 0.2 mm

◆ E = 0.2 to 0.5 mm

◆ F = 0.5 to 1.0 mm

◆ G = 1 to 2 mm

◆ H = 2 to 5 mm

◆ J = 0.5 to 1 cm

◆ K = 1 to 3 cm

◆ L = 3 to 10 cm

◆ M = 10 to 30 cm

◆ N = 30 to 100 cm

◆ P = 1 m

◆ Q = 1 to 2 m

◆ R = 2 to 4 m

◆ S = 4 to 6 m

◆ T = 6 to 10 m

◆ U = 10 m

◆ V = 10 to 20 cm

◆ W = 20 to 50 m

◆ X = Others

◆ Y = 50 to 100 m

◆ Z = 100 m

◆ 1 = Less than 0.001 mm

◆ 2 = Less than 0.01 mm

◆ 3 = 0.01 to 0.2 mm

◆ 4 = Less than 0.2 mm

◆ 5 = 0.2 to 1.0 mm

◆ 6 = 1 to 5 mm

◆ 7 = 0.5 to 3 cm

◆ 8 = > 3 cm

## «Domain value - F4E12\_OBJET\_LINEAIRE»

Champ: CODE\_PHASE

00 = 0-0 Phase

10 = Phase 1-0

20 = Phase 2-0

21 = Phase 2-1

30 = Phase 3-0

31 = Phase 3-1

32 = Phase 3-2

40 = Phase 4-0

41 = Phase 4-1

42 = Phase 4-2

43 = Phase 4-3

50 = Phase 5-0

51 = Phase 5-1

52 = Phase 5-2

53 = Phase 5-3

54 = Phase 5-4

## «Domain value - F4E12\_OBJET\_LINEAIRE»

### Champ: CODE\_PLAN\_AXIAL

◆ D = Vertical-in upright fold

◆ G = Inclined, Knee fold

◆ H = Horizontal

◆ I = Inclined

◆ J = Inclined, Inclined fold

◆ L = Inclined, Reclined fold

◆ R = Inclined reversed fold

◆ S = Inclined, Overturned fold

◆ V = Vertical-in vertical fold

## «Domain value - F4E12\_OBJET\_LINEAIRE»

### Champ: CODE\_APPEL\_STRA

- ◆ Ama = Massawippi Formation
- ◆ Lbe = Beauport varves
- ◆ Lde = Deschaillons Formation
- ◆ Ldo = Donacona sediment
- ◆ Lgy = Gayhurst Formation
- ◆ Liv = Iroquois-Vermont lake sediment
- ◆ Llh = Châteauguay lake sediment
- ◆ Lms = Missinaibi Formation
- ◆ Lni = Nicolet sand
- ◆ Lpb = Beupré varves
- ◆ Lpv = Pierreville varves
- ◆ Lrp = Ruisseau-Perry formation
- ◆ Lrv = Rivière-aux-Vaches formation
- ◆ Lsf = Saint-François-du-Lac formation
- ◆ Lsl = Saint-Féréol clay
- ◆ Lsm = Saint-Maximx varves
- ◆ Lsp = Saint-Pierre sediment
- ◆ Lvf = Vieilles Forges sands
- ◆ Mic = Île-aux-Coudres formation
- ◆ Mlp = Pérade clay

- ◆ Msl = Lotbinière sands
- ◆ Tag = Ange-Gardien Till
- ◆ Tan = Anticosti island Till
- ◆ Tbe = Bécancour Till
- ◆ Tch = Chaudière Till
- ◆ Tco = Cochrane Till
- ◆ Tdo = Donacona Till
- ◆ Tdr = Drolet lense
- ◆ Tfc = Fort Covington Till
- ◆ Tge = Gentilly Till
- ◆ Tgv = Grand-Volume Till
- ◆ Tjo = Johnville Till
- ◆ Tla = Langis Till
- ◆ Tle = Lennoxville Till
- ◆ Tlv = Lévrard Till
- ◆ Tma = Matawin formation
- ◆ Tml = Malone Till
- ◆ Tmt = Matheson Till
- ◆ Tno = Norbestos Till
- ◆ Tod = Odanak Till
- ◆ Tpf = Pointe-Fortune Till
- ◆ Tpm = Petit-Matane Till

◆ Tqu = Québec till

◆ Tri = Rigaud Till

◆ Trj = Rivière Jupiter Till

◆ Trp = Rivière-à-la-Patate Till

◆ Tsj = Saint-Jacques Till

◆ Tsm = Pointe-Saint-Nicolas Till

◆ Tsp = Baie-Saint-Paul Till

◆ Tta = Tamagodi Till

◆ Ttm = Thetford Mines Till



## «Domain value - F4E12\_OBJET\_LINEAIRE»

Champ: CODE\_STYLE

◆ C = Boxed

◆ E = Fan-shaped

◆ F = Faulted fold

◆ I = Isoclinal

◆ J = Conjugate kinks

◆ K = Kinks

◆ M = M-shaped

◆ S = S-shaped

◆ V = Chevron

◆ W = W-shaped

◆ X = Others

◆ Y = Symmetric

◆ Z = Z-shaped

## «Domain value - F4E12\_OBJET\_LINEAIRE»

### Champ: CODE\_TYPE\_OBJT\_LINR

- ◆ A = Axial plane
- ◆ B = Boudin axis
- ◆ C = Crenulation
- ◆ E = Stretching lineation
- ◆ F = Fault striation
- ◆ G = Glacial striation, unknown direction
- ◆ H = Sedimentary lineation (sole mark)
- ◆ J = Columnar jointing axis
- ◆ L = Mullion axis
- ◆ M = Primary mineral lineation (magmatic)
- ◆ N = Secondary mineral lineation (tectono-metamorphic)
- ◆ P = Glacial striation, known direction
- ◆ Q = Quartz rods
- ◆ S = Sedimentary lineation
- ◆ T = Interlayer striation
- ◆ U = Sedimentary lineation (internal structure)
- ◆ X = Others
- ◆ Y = Smear
- ◆ 1 = Intersection
- ◆ 2 = Hinge

3 = Anticlinal hinge

4 = Synclinal hinge

5 = Antiformal hinge

6 = Synformal hinge

7 = Synformal anticline hinge

8 = Antiformal syncline hinge

9 = Conical fold hinge

## «Domain value - F4E11\_OBJET\_PLANAIRE»

Champ: CODE\_EXPL\_OBJT\_PLAN

0 = Surface

1 = Surface

2 = Surface

3 = Surface

4 = Surface

5 = Surface

6 = Surface

7 = Surface

8 = Surface

9 = Surface

## «Domain value - F4E11\_OBJET\_PLANAIRE»

### Champ: CODE\_QUALF

◆ C = In compression

◆ D = Dextral

◆ E = In extension

◆ G = Slide

◆ I = Reverse

◆ L = Normal sinistral

◆ M = Anastomosing

◆ N = Normal

◆ O = Oblique

◆ P = Spaced

◆ R = Crenulation

◆ S = Sinistral

◆ T = Reverse sinistral

◆ U = Continuous

◆ V = Reverse-dextral

◆ X = Normal-dextral

◆ Y = Stylolitic

◆ 0 = > 50

◆ 1 = 0 to 89 degrees

◆ 2 = 90 to 179 degrees

3 = 180 to 269 degrees

4 = 270 to 359 degrees

5 = 1

6 = 2 to 5

7 = 6 to 15

8 = 16 to 25

9 = 26 to 50

## «Domain value - F4E11\_OBJET\_PLANAIRE»

### Champ: CODE\_TYPE\_OBJT\_PLAN

- ◆ A = Axial plane
- ◆ B = Gneissosity of straight gneiss
- ◆ C = Shearing
- ◆ D = Differential lamination (compositional layering)
- ◆ F = Fault
- ◆ G = Gneissosity
- ◆ H = Shear bands
- ◆ I = Banding of unknown origin
- ◆ J = Joint
- ◆ K = Kink bands
- ◆ L = Mineral foliation
- ◆ M = Migmatitic banding
- ◆ N = Primary foliation
- ◆ O = Bedding, stratification
- ◆ P = Primary banding
- ◆ Q = Cleavage
- ◆ R = Minor fault
- ◆ S = Schistosity
- ◆ T = Tectonic banding
- ◆ U = Major fault

◆ V = Vein

◆ W = Mylonitic foliation or banding

◆ X = Others (specify)

◆ Y = Dyke

◆ Z = Zone of en echelon veins

◆ 9 = Kinematic indicators



## «Domain value - F4E14\_SUBSTANCE\_TENEUR»

Champ: CODE\_ELMN\_CHIM

◆ Ac = Actinium

◆ Ag = Silver

◆ Al = Aluminum

◆ Al<sub>2</sub>O<sub>3</sub> = Aluminum oxide

◆ Ar = Argon

◆ As = Arsenic

◆ At = Astatine

◆ Au = Gold

◆ B = Boron

◆ Ba = Barium

◆ BaO = Barium oxide

◆ Be = Beryllium

◆ Bi = Bismuth

◆ Br = Bromine

◆ C org = Organic carbon

◆ C tot = Total carbon

◆ Ca = Calcium

◆ CaO = Calcium oxide

◆ Cd = Cadmium

◆ Ce = Cerium

◆ Cgraph = Graphitic carbon

◆ Cl = Chloride

◆ Co = Cobalt

◆ CO<sub>2</sub> in = Inorganic carbon

◆ Cr = Chromium

◆ Cr<sub>2</sub>O<sub>3</sub> = Chromium oxide

◆ Cs = Cesium

◆ Ct:CO<sub>2</sub> = Total carbon in CO<sub>2</sub>

◆ Cu = Copper

◆ Dy = Dysprosium

◆ EGP = Elements of the platinum group

◆ Er = Erbium

◆ ETR = Rare earth minerals

◆ Eu = Europium

◆ F = Fluoride

◆ Fe = Iron

◆ Fe sol = Soluble iron

◆ FeO = Ferrous-iron oxide

◆ Fe<sub>2</sub>O<sub>3</sub>t = Total iron oxide

◆ Fe<sub>2</sub>O<sub>3</sub>v = Ferric-iron oxide

◆ Fr = Francium

◆ Ga = Gallium

◆ Gd = Gadolinium

◆ Ge = Germanium

◆ He = Helium

◆ Hf = Hafnium

◆ Hg = Mercury

◆ Ho = Holmium

◆  $\text{H}_2\text{O}^+$  =  $\text{H}_2\text{O}^+$

◆  $\text{H}_2\text{O}^-$  =  $\text{H}_2\text{O}^-$

◆ I = Iodine

◆ In = Indium

◆ Ir = Iridium

◆ K = Potassium

◆ Kr = Krypton

◆  $\text{K}_2\text{O}$  = Potassium oxide

◆ La = Lanthanum

◆ Li = Lithium

◆  $\text{Li}_2\text{O}$  = Lithium oxide

◆ Lu = Lutetium

◆ Mg = Magnesium

◆  $\text{MgO}$  = Magnesium oxide

◆ Mn = Manganese

◆  $\text{MnO}$  = Manganese oxide

◆ Mo = Molybdenum

◆  $\text{MoS}_2$  = Molybdenite

◆  $\text{N}$  = Nitrogen

◆  $\text{Na}$  = Sodium

◆  $\text{Na}_2\text{O}$  = Sodium oxide

◆  $\text{Nb}$  = Niobium

◆  $\text{Nb}_2\text{O}_5$  = Niobium oxide

◆  $\text{Nd}$  = Neodymium

◆  $\text{Ne}$  = Neon

◆  $\text{Ni}$  = Nickel

◆  $\text{Np}$  = Neptunium

◆  $\text{Os}$  = Osmium

◆  $\text{P}$  = Phosphorus

◆  $\text{PAF}$  = Loss on ignition

◆  $\text{PAF}_2$  = Loss on ignition ( $\text{FeO}$  and  $\text{Fe}_2\text{O}_3$ )

◆  $\text{Pb}$  = Lead

◆  $\text{Pd}$  = Palladium

◆  $\text{Pm}$  = Promethium

◆  $\text{Po}$  = Polonium

◆  $\text{Pr}$  = Praseodymium

◆  $\text{Pt}$  = Platinum

◆  $\text{Pu}$  = Plutonium

◆  $\text{P}_2\text{O}_5$  = Phosphorus oxide

◆ Ra = Radium

◆ Rb = Rubidium

◆ Re = Rhenium

◆ Rh = Rhodium

◆ Rn = Radon

◆ Ru = Ruthenium

◆ S = Sulfur

◆ Sb = Antimony

◆ Sc = Scandium

◆ Se = Selenium

◆ Si = Silicon

◆ SiO<sub>2</sub> = Silica

◆ Sm = Samarium

◆ Sn = Tin

◆ Sr = Strontium

◆ SrO = Strontium oxide

◆ Ta = Tantalum

◆ Ta<sub>2</sub>O<sub>3</sub> = Tantalum oxide

◆ Ta<sub>2</sub>O<sub>5</sub> = Tantalum pentoxide

◆ Tb = Terbium

◆ Te = Tellurium

◆ Th = Thorium

◆  $\text{ThO}_2$  = Thorium oxyde

◆  $\text{Ti}$  = Titanium

◆  $\text{TiO}_2$  = Titanium oxide

◆  $\text{Tl}$  = Thallium

◆  $\text{Tm}$  = Thulium

◆  $\text{Tr}_2\text{O}_3$  = Rare earth

◆  $\text{U}$  = Uranium

◆  $\text{V}$  = Vanadium

◆  $\text{V}_2\text{O}_5$  = Vanadium oxide

◆  $\text{W}$  = Tungsten

◆  $\text{Xe}$  = Xenon

◆  $\text{Y}$  = Yttrium

◆  $\text{Yb}$  = Ytterbium

◆  $\text{Y}_2\text{O}_3$  = Yttrium oxide

◆  $\text{Zn}$  = Zinc

◆  $\text{Zr}$  = Zirconium

◆  $\text{ZrO}_2$  = Zirconium oxide

## «Domain value - F4E14\_SUBSTANCE\_TENEUR»

Champ: CODE\_TYPE\_ECHN\_MINR

◆ A = Agglomeration of several values

◆ C = Reserve calculation

◆ D = Diamond drilling

◆ G = Selected sample

◆ L = Hand-sorted sample

◆ M = Overburden drilling

◆ P = Production

◆ R = Channel-chip sample

◆ T = Trenches

◆ V = Bulk

◆ X = ""Fake"" code"

## «Domain value - F4E14\_SUBSTANCE\_TENEUR»

Champ: CODE\_UNITE\_TENR

◆ % = Weight percent

◆ cct = Hundredth of PCT

◆ cpb = Hundredth of PPB

◆ cpm = Hundredth of PPM

◆ cpt = Hundredth of PPT

◆ dct = Tenth of PCT

◆ dpb = Tenth of PPB

◆ dpm = Tenth of PPM

◆ dpt = Tenth of PPT

◆ g/t = Gram per ton

◆ pcm = Parts per 100 000

◆ pct = Percent

◆ ppb = Parts per billion

◆ ppm = Parts per million

◆ ppt = Parts per billion



## «Domain value - F4R21\_CORPS\_MINR\_ELMN\_CHIMIQUE»

Champ: CODE\_ELMN\_CHIM\_PERD

◆ Ac = Actinium

◆ Ag = Silver

◆ Al = Aluminum

◆ Ar = Argon

◆ As = Arsenic

◆ At = Astatine

◆ Au = Gold

◆ B = Boron

◆ Ba = Barium

◆ Be = Beryllium

◆ Bi = Bismuth

◆ Br = Bromine

◆ C = Carbon

◆ Ca = Calcium

◆ Cd = Cadmium

◆ Ce = Cerium

◆ Cl = Chloride

◆ Co = Cobalt

◆ Cr = Chromium

◆ Cs = Cesium

◆ Cu = Copper

◆ Dy = Dysprosium

◆ EGP = Elements of the platinum group

◆ Er = Erbium

◆ ETR = Rare earth minerals

◆ Eu = Europium

◆ F = Fluorine

◆ Fe = Iron

◆ Fr = Francium

◆ Ga = Gallium

◆ Gd = Gadolinium

◆ Ge = Germanium

◆ He = Helium

◆ Hf = Hafnium

◆ Hg = Mercury

◆ Ho = Holmium

◆ I = Iodine

◆ In = Indium

◆ Ir = Iridium

◆ K = Potassium

◆ Kr = Krypton

◆ La = Lanthanum

◆ Li = Lithium

◆ Lu = Lutetium

◆ Mg = Magnesium

◆ Mn = Manganese

◆ Mo = Molybdenum

◆ N = Nitrogen

◆ Na = Sodium

◆ Nb = Niobium

◆ Nd = Neodymium

◆ Ne = Neon

◆ Ni = Nickel

◆ Np = Neptunium

◆ Os = Osmium

◆ P = Phosphorus

◆ Pb = Lead

◆ Pd = Palladium

◆ Pm = Promethium

◆ Po = Polonium

◆ Pr = Praseodymium

◆ Pt = Platinum

◆ Pu = Plutonium

◆ Ra = Radium

◆ Rb = Rubidium

◆ Re = Rhenium

◆ Rh = Rhodium

◆ Rn = Radon

◆ Ru = Ruthenium

◆ S = Sulfur

◆ Sb = Antimony

◆ Sc = Scandium

◆ Se = Selenium

◆ Si = Silicon

◆ Sm = Samarium

◆ Sn = Tin

◆ Sr = Strontium

◆ Ta = Tantalum

◆ Tb = Terbium

◆ Te = Tellurium

◆ Th = Thorium

◆ Ti = Titanium

◆ Tl = Thallium

◆ Tm = Thulium

◆ U = Uranium

◆ V = Vanadium

◆ W = Tungsten

◆ Xe = Xenon

◆ Y = Yttrium

◆ Yb = Ytterbium

◆ Zn = Zinc

◆ Zr = Zirconium

«Domain value - F4R21\_CORPS\_MINR\_ELMN\_CHIMIQUE»

Champ: CODE\_INDC\_PRIN\_SECN

◆ P = Principal

◆ S = Secondary