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PRODUCT: LITHOGEOCHEMISTRY

Summary

The lithochemical database contains information about different elements in rock samples from Sweden. Sampling has mainly taken place in connection with regular fieldwork at SGU. Some analytical values are derived from the literature. The analyses have been performed using various so-called analysis packages and analysis methods. Different laboratories have been used over time. The lithochemical database comprises positional data, short description, and lithochemical analyses of rock samples. The amount of information about the samples, sampling methodology, analysis and sample preparation method, analytical laboratory, and the quantity of analysed elements varies widely.

Data format: ESRI Shape

Coordinate system: SWEREF99TM (EPSG:3006)

Content of delivery

Files/tables included in delivery

File name	Format	Content
bergartskemi-beskrivning	PDF	Short description of the content and structure of the product (in Swedish).
lithochemistry-description	PDF	Short description of the content and structure of the product (in English).
bergartskemi.shp	ESRI Shapefile	Shapefile with information about different elements in rock samples from Sweden (dots). The file contains all elements analysed.
bergartskemi_<element>.shp	ESRI Shape	Shapefile with information about a single element included in a selection of either elements of interest for prospecting or elements with toxic properties for drinking water.
bergartskemi.lyr	ArcGIS layer file	Symbology of ESRI shapefile.

Sampling lineage

Sampling has primarily occurred in areas with an existing road network. In areas without roads, transport has been done by foot, by helicopter, and by boat.

Maintenance

The database is updated if errors are found and when additional data is submitted.

Quality of data

The SGU continuously sends its own standard samples along with regular samples to verify how the analytical quality varies over time. The hired laboratories also use internal and external geostandards to check their quality.

Levels of content reported

Oxides are reported as weight percent. Elements are reported as ppm, except for carbon and sulphur, which are reported as total in percent. Fe₂O₃ is usually reported as total in percent in ICP-MS analyses from early 1990's and onwards.

In distributions using the ESRI shape format NULL values in the database has been substituted with the value -9999 in the numerical field holding analysis results. This should be interpreted as no analysis performed.

Location accuracy

The coordinate system used is SWEREF99TM (EPSG: 3006). Accuracy for coordinates is approximately +/- 10 m for samples analyzed from 2006.

Laboratory accuracy and precision

See method at the respective laboratory that performed the analysis.

<http://www.alsglobal.com/en/Our-Services/Minerals/Geochemistry/Downloads/>

<http://www.actlabs.com/>

<http://acmelab.com/>

Symbology

The symbology file "bergartskemi.lyr" is included in the delivery.

Group layer: Bergartskemi

Layer structure	Comment
All elements and sample sites	Connects to bergartskemi.shp
Selection, elements of interest for prospecting	Group layer
Silver, Ag ppm	Connects to bergartskemi_<element>.shp
Arsenic, As ppm	"
Gold, Au ppm	"
Boron, B ppm	"
Beryllium, Be ppm	"
Bismuth, Bi ppm	"
Cobalt, Co ppm	"
Chromium, Cr ppm	"
Copper, Cu ppm	"
Iron, Fe ₂ O ₃ %	"
Iron, FeO %	"
Iron, Fe ppm	"
Gallium, Ga ppm	"
Germanium, Ge ppm	"
Hafnium, Hf ppm	"
Indium, In ppm	"
Manganese, MnO %	"
Manganese, Mn ppm	"
Molybdenum, Mo ppm	"

Niobium, Nb ppm	''
Nickel, Ni ppm	''
Lead, Pb ppm	''
Platinum group element (PGE total Pt+Pd) ppm	Kopplas till bergartskemi_pge_tot.shp
Rare-earth elements + yttrium (REE total+Y) ppm	Kopplas till bergartskemi_ree_y_tot.shp
Antimony, Sb ppm	Connects to bergartskemi_<element>.shp
Scandium, Sc ppm	''
Tin, Sn ppm	''
Tantalum, Ta ppm	''
Tellurium, Te ppm	''
Vanadium, V ppm	''
Tungsten, W ppm	''
Zinc, Zn ppm	''
Selection, elements with toxic properties for drinking water	Group layer
Arsenic, As ppm	Connects to bergartskemi_<element>.shp
Boron, B ppm	''
Cadmium, Cd ppm	''
Fluorine, F ppm	''
Mercury, Hg ppm	''
Manganese, MnO %	''
Manganese, Mn ppm	''
Nickel, Ni ppm	''
Lead, Pb ppm	''
Antimony, Sb ppm	''
Uranium, U ppm	''

List of product changes

List of changes of the product or product description.

List of product changes

Document version	Approval date	Changes
1.0	2018-01-12	Original version
1.1	2918-06-27	Product description in English added.
1.2	2018-09-03	Numerical values for analysis results added.
1.3	2019-03-06	Selection and symbolization created for elements of interest for exploration and elements with toxic properties for drinking water. Analyses of FeO, Fe and Mn added

Content and structure

Analyses of rock samples

Information about different elements in rock samples from Sweden (dots).

Content of data

Column name	Description of content	Comment
PROV_ID	Sample identification	e.g. CLU140008A
KEM_ID	Analysis number	e.g. 1

Column name	Description of content	Comment
ALT_ID	Alternative id number	e.g. CLU140008
EXT_ID	External id number (non SGU sample)	e.g. Bh.nr.35
N	N-S coordinate	SWEREF99TM (EPSG:3006)
E	E-W coordinate	SWEREF99TM (EPSG:3006)
BART	Rock code according to SGU	e.g. 1033
BART_TX	Rock name	e.g. Diorite
T_BART	Rock code according to SGU	e.g. 1022
T_BART_TX	Rock name	e.g. Gabbro
STRAT_P	Stratigraphic position, numerical value	e.g. 130
STRAT_P_TX	Stratigraphic position, text	e.g. Intrusive rock GSDG c. 1,88-1,86 Ga
BART_KEMI	Additional specialized rock classification based on the analysis. Specify interpretation and classification from the current analysis. Additional published interpretation reference	e.g. arkose, trachybasalt (hawaiite), ultramafic cumulate, mineralisation, PGE anomalous
BART_ANM	Rock, text. Short description of the sampled rock with possible structures seen at the outcrop	e.g. ca 1,9, 4087, vulc (2), Dacite?, migmatite
STRAT_ANM	Stratigraphic position, additional information for age/unit that provides context or concerns uncertainty	e.g. TMB, Senorogen, 154, ÖS-ådergnejs (1600-1700 Ma)
LAB	Name of laboratory that performed the analysis	e.g. ALS
STUFF_DAT	Date when sample was collected	e.g. 2014-06-27
ANALYS_DAT	Date when sample was analysed	e.g. 2014-08-27
MALFAT	Type of grinding vessel	e.g. LM 5 (Cr, Fe, Mn)
KARTUNDER	What type of method used to determine coordinates	e.g. GPS (eller karta)
GEOLOG	Name code for geologist (SGU)	e.g. CLU
REF_DOCNO	Georegister reference document nr. (SGU)	e.g. 0
REFERENCE	Source reference	e.g. SGU K 12
STUFF_ANM	Remarks concerning the sample, purpose of sampling, technical information, borehole number, depth of sampling position in borehole, small sample, weathered rock sample	e.g. proj 80005/1106301, Dating sample, Banmossen, bh 91001, 14m
ANALYSPKT	The laboratory analysis package used	e.g. ICP-ES, ICP-MS, Leco
SIO2_D	<, > (above and below detection limit, resp.)	
SIO2_TXT	Analytical value for element SIO2 in %	Value in text format
SIO2_NUM	Analytical value for element SIO2 in %	
SIO2_MET	Analytical method	Value in numerical format. Value -9999 represents NULL, no analysis performed.
AL2O3_D	<, > (above and below detection limit, resp.)	
AL2O3_[TXT,NUM]	Analytical value for element AL2O3 in %	See example for first element SIO2.
AL2O3_MET	Analytical method	
FE2O3_D	<, > (above and below detection limit, resp.)	
FE2O3_[TXT,NUM]	Analytical value for element FE2O3 in %	See example for first element SIO2.
FE2O3_MET	Analytical method	
CAO_D	<, > (above and below detection limit, resp.)	
CAO_[TXT,NUM]	Analytical value for element CAO in %	See example for first element SIO2.
CAO_MET	Analytical method	
MGO_D	<, > (above and below detection limit, resp.)	
MGO_[TXT,NUM]	Analytical value for element MGO in %	See example for first element SIO2.
MGO_MET	Analytical method	

Column name	Description of content	Comment
NA2O_D	<, > (above and below detection limit, resp.)	
NA2O_[TXT,NUM]	Analytical value for element NA2O in %	See example for first element SIO2.
NA2O_MET	Analytical method	
K2O_D	<, > (above and below detection limit, resp.)	
K2O_[TXT,NUM]	Analytical value for element K2O in %	See example for first element SIO2.
K2O_MET	Analytical method	
CR2O3_D	<, > (above and below detection limit, resp.)	
CR2O3_[TXT,NUM]	Analytical value for element CR2O3 in %	See example for first element SIO2.
CR2O3_MET	Analytical method	
TIO2_D	<, > (above and below detection limit, resp.)	
TIO2_[TXT,NUM]	Analytical value for element TIO2 in %	See example for first element SIO2.
TIO2_MET	Analytical method	
MNO_D	<, > (above and below detection limit, resp.)	
MNO_[TXT,NUM]	Analytical value for element MNO in %	See example for first element SIO2.
MNO_MET	Analytical method	
P2O5_D	<, > (above and below detection limit, resp.)	
P2O5_[TXT,NUM]	Analytical value for element P2O5 in %	See example for first element SIO2.
P2O5_MET	Analytical method	
SRO_D	<, > (above and below detection limit, resp.)	
SRO_[TXT,NUM]	Analytical value for element SRO in %	See example for first element SIO2.
SRO_MET	Analytical method	
BAO_D	<, > (above and below detection limit, resp.)	
BAO_[TXT,NUM]	Analytical value for element BAO in %	See example for first element SIO2.
BAO_MET	Analytical method	
C_TOT_D	<, > (above and below detection limit, resp.)	
C_TOT_[TXT,NUM]	Analytical value for element C total in %	See example for first element SIO2.
C_TOT_MET	Analytical method	
S_TOT_D	<, > (above and below detection limit, resp.)	
S_TOT_[TXT,NUM]	Analytical value for element S total in %	See example for first element SIO2.
S_TOT_MET	Analytical method	
LOI_D	<, > (above and below detection limit, resp.)	
LOI_[TXT,NUM]	Analytical value for LOI in %	See example for first element SIO2.
LOI_MET	Analytical method	
AG_D	<, > (above and below detection limit, resp.)	
AG_[TXT,NUM]	Analytical value for element AG in ppm	See example for first element SIO2.
AG_MET	Analytical method	
AS_D	<, > (above and below detection limit, resp.)	
AS_[TXT,NUM]	Analytical value for element AS in ppm	See example for first element SIO2.
AS_MET	Analytical method	
AU_D	<, > (above and below detection limit, resp.)	
AU_[TXT,NUM]	Analytical value for element AU in ppm	See example for first element SIO2.
AU_MET	Analytical method	
B_D	<, > (above and below detection limit, resp.)	
B_[TXT,NUM]	Analytical value for element B in ppm	See example for first element SIO2.
B_MET	Analytical method	
BA_D	<, > (above and below detection limit, resp.)	
BA_[TXT,NUM]	Analytical value for element BA in ppm	See example for first element SIO2.
BA_MET	Analytical method	
BE_D	<, > (above and below detection limit, resp.)	

Column name	Description of content	Comment
BE_[TXT,NUM]	Analytical value for element BE in ppm	See example for first element SIO2.
BE_MET	Analytical method	
BI_D	<, > (above and below detection limit, resp.)	
BI_[TXT,NUM]	Analytical value for element BI in ppm	See example for first element SIO2.
BI_MET	Analytical method	
CD_D	<, > (above and below detection limit, resp.)	
CD_[TXT,NUM]	Analytical value for element CD in ppm	See example for first element SIO2.
CD_MET	Analytical method	
CE_D	<, > (above and below detection limit, resp.)	
CE_[TXT,NUM]	Analytical value for element CE in ppm	See example for first element SIO2.
CE_MET	Analytical method	
CO_D	<, > (above and below detection limit, resp.)	
CO_[TXT,NUM]	Analytical value for element CO in ppm	See example for first element SIO2.
CO_MET	Analytical method	
CR_D	<, > (above and below detection limit, resp.)	
CR_[TXT,NUM]	Analytical value for element CR in ppm	See example for first element SIO2.
CR_MET	Analytical method	
CS_D	<, > (above and below detection limit, resp.)	
CS_[TXT,NUM]	Analytical value for element CS in ppm	See example for first element SIO2.
CS_MET	Analytical method	
CU_D	<, > (above and below detection limit, resp.)	
CU_[TXT,NUM]	Analytical value for element CU in ppm	See example for first element SIO2.
CU_MET	Analytical method	
DY_D	<, > (above and below detection limit, resp.)	
DY_[TXT,NUM]	Analytical value for element DY in ppm	See example for first element SIO2.
DY_MET	Analytical method	
ER_D	<, > (above and below detection limit, resp.)	
ER_[TXT,NUM]	Analytical value for element ER in ppm	See example for first element SIO2.
ER_MET	Analytical method	
EU_D	<, > (above and below detection limit, resp.)	
EU_[TXT,NUM]	Analytical value for element EU in ppm	See example for first element SIO2.
EU_MET	Analytical method	
F_D	<, > (above and below detection limit, resp.)	
F_[TXT,NUM]	Analytical value for element F in ppm	See example for first element SIO2.
F_MET	Analytical method	
GA_D	<, > (above and below detection limit, resp.)	
GA_[TXT,NUM]	Analytical value for element GA in ppm	See example for first element SIO2.
GA_MET	Analytical method	
GD_D	<, > (above and below detection limit, resp.)	
GD_[TXT,NUM]	Analytical value for element GD in ppm	See example for first element SIO2.
GD_MET	Analytical method	
GE_D	<, > (above and below detection limit, resp.)	
GE_[TXT,NUM]	Analytical value for element GE in ppm	See example for first element SIO2.
GE_MET	Analytical method	
HF_D	<, > (above and below detection limit, resp.)	
HF_[TXT,NUM]	Analytical value for element HF in ppm	See example for first element SIO2.
HF_MET	Analytical method	
HG_D	<, > (above and below detection limit, resp.)	
HG_[TXT,NUM]	Analytical value for element HG in ppm	See example for first element SIO2.

Column name	Description of content	Comment
HG_MET	Analytical method	
HO_D	<, > (above and below detection limit, resp.)	
HO_[TXT,NUM]	Analytical value for element HO in ppm	See example for first element SIO2.
HO_MET	Analytical method	
IN_D	<, > (above and below detection limit, resp.)	
IN_[TXT,NUM]	Analytical value for element IN in ppm	See example for first element SIO2.
IN_MET	Analytical method	
LA_D	<, > (above and below detection limit, resp.)	
LA_[TXT,NUM]	Analytical value for element LA in ppm	See example for first element SIO2.
LA_MET	Analytical method	
LI_D	<, > (above and below detection limit, resp.)	
LI_[TXT,NUM]	Analytical value for element LI in ppm	See example for first element SIO2.
LI_MET	Analytical method	
LU_D	<, > (above and below detection limit, resp.)	
LU_[TXT,NUM]	Analytical value for element LU in ppm	See example for first element SIO2.
LU_MET	Analytical method	
MO_D	<, > (above and below detection limit, resp.)	
MO_[TXT,NUM]	Analytical value for element MO in ppm	See example for first element SIO2.
MO_MET	Analytical method	
NB_D	<, > (above and below detection limit, resp.)	
NB_[TXT,NUM]	Analytical value for element NB in ppm	See example for first element SIO2.
NB_MET	Analytical method	
ND_D	<, > (above and below detection limit, resp.)	
ND_[TXT,NUM]	Analytical value for element ND in ppm	See example for first element SIO2.
ND_MET	Analytical method	
NI_D	<, > (above and below detection limit, resp.)	
NI_[TXT,NUM]	Analytical value for element NI in ppm	See example for first element SIO2.
NI_MET	Analytical method	
PB_D	<, > (above and below detection limit, resp.)	
PB_[TXT,NUM]	Analytical value for element PB in ppm	See example for first element SIO2.
PB_MET	Analytical method	
PD_D	<, > (above and below detection limit, resp.)	
PD_[TXT,NUM]	Analytical value for element PD in ppm	See example for first element SIO2.
PD_MET	Analytical method	
PR_D	<, > (above and below detection limit, resp.)	
PR_[TXT,NUM]	Analytical value for element PR in ppm	See example for first element SIO2.
PR_MET	Analytical method	
PT_D	<, > (above and below detection limit, resp.)	
PT_[TXT,NUM]	Analytical value for element PT in ppm	See example for first element SIO2.
PT_MET	Analytical method	
RB_D	<, > (above and below detection limit, resp.)	
RB_[TXT,NUM]	Analytical value for element RB in ppm	See example for first element SIO2.
RB_MET	Analytical method	
RE_D	<, > (above and below detection limit, resp.)	
RE_[TXT,NUM]	Analytical value for element RE in ppm	See example for first element SIO2.
RE_MET	Analytical method	
SB_D	<, > (above and below detection limit, resp.)	
SB_[TXT,NUM]	Analytical value for element SB in ppm	See example for first element SIO2.
SB_MET	Analytical method	

Column name	Description of content	Comment
SC_D	<, > (above and below detection limit, resp.)	
SC_[TXT,NUM]	Analytical value for element SC in ppm	See example for first element SIO2.
SC_MET	Analytical method	
SE_D	<, > (above and below detection limit, resp.)	
SE_[TXT,NUM]	Analytical value for element SE in ppm	See example for first element SIO2.
SE_MET	Analytical method	
SM_D	<, > (above and below detection limit, resp.)	
SM_[TXT,NUM]	Analytical value for element SM in ppm	See example for first element SIO2.
SM_MET	Analytical method	
SN_D	<, > (above and below detection limit, resp.)	
SN_[TXT,NUM]	Analytical value for element SN in ppm	See example for first element SIO2.
SN_MET	Analytical method	
SR_D	<, > (above and below detection limit, resp.)	
SR_[TXT,NUM]	Analytical value for element SR in ppm	See example for first element SIO2.
SR_MET	Analytical method	
TA_D	<, > (above and below detection limit, resp.)	
TA_[TXT,NUM]	Analytical value for element TA in ppm	See example for first element SIO2.
TA_MET	Analytical method	
TB_D	<, > (above and below detection limit, resp.)	
TB_[TXT,NUM]	Analytical value for element TB in ppm	See example for first element SIO2.
TB_MET	Analytical method	
TE_D	<, > (above and below detection limit, resp.)	
TE_[TXT,NUM]	Analytical value for element TE in ppm	See example for first element SIO2.
TE_MET	Analytical method	
TH_D	<, > (above and below detection limit, resp.)	
TH_[TXT,NUM]	Analytical value for element TH in ppm	See example for first element SIO2.
TH_MET	Analytical method	
TL_D	<, > (above and below detection limit, resp.)	
TL_[TXT,NUM]	Analytical value for element TL in ppm	See example for first element SIO2.
TL_MET	Analytical method	
TM_D	<, > (above and below detection limit, resp.)	
TM_[TXT,NUM]	Analytical value for element TM in ppm	See example for first element SIO2.
TM_MET	Analytical method	
U_D	<, > (above and below detection limit, resp.)	
U_[TXT,NUM]	Analytical value for element U in ppm	See example for first element SIO2.
U_MET	Analytical method	
V_D	<, > (above and below detection limit, resp.)	
V_[TXT,NUM]	Analytical value for element V in ppm	See example for first element SIO2.
V_MET	Analytical method	
W_D	<, > (above and below detection limit, resp.)	
W_[TXT,NUM]	Analytical value for element W in ppm	See example for first element SIO2.
W_MET	Analytical method	
Y_D	<, > (above and below detection limit, resp.)	
Y_[TXT,NUM]	Analytical value for element Y in ppm	See example for first element SIO2.
Y_MET	Analytical method	
YB_D	<, > (above and below detection limit, resp.)	
YB_[TXT,NUM]	Analytical value for element YB in ppm	See example for first element SIO2.
YB_MET	Analytical method	
ZN_D	<, > (above and below detection limit, resp.)	

Column name	Description of content	Comment
ZN_[TXT,NUM]	Analytical value for element ZN in ppm	See example for first element SIO2.
ZN_MET	Analytical method	
ZR_D	<, > (above and below detection limit, resp.)	
ZR_[TXT,NUM]	Analytical value for element ZR in ppm	See example for first element SIO2.
ZR_MET	Analytical method	

Lexicon code values

Values for rock type = BERGART

BERGART	BERGART_TXT
5	Bedrock, unspecified
10	Crystalline bedrock, normal quality
11	Porphyry, porphyrite
13	Diabase, hyperite, basalt
14	Leptite (see also Hälleflinta)
15	Granite, granodiorite, tonalite
16	Gneiss, mica-poor
18	Gabbro, diorite, amphibolite
19	Hälleflinta (see also Leptite)
20	Crystalline bedrock, of lesser quality
21	Mica-rich gneiss
25	Marble, dolomite (urkalksten)
27	OTHER
30	Younger sedimentary rocks
34	Chert
40	Intermediate plutonic rock
41	Intermediate volcanic rock
45	Ore
100	Acidic igneous rock
200	Intermediate composition igneous rock
300	Basic rock
400	Ultrabasic igneous rock
500	Ultramafic igneous rock
1000	Intrusive rock
1001	Lamprophyre
1002	Alnöite
1003	Kimberlite
1004	Ultramafic rock
1006	Dunite/peridotite
1007	Dunite
1008	Peridotite
1011	Pyroxenite/hornblendite
1012	Pyroxenite

BERGART	BERGART_TXT
1013	Hornblendite
1014	Picrite
1015	Mafite
1020	Gabbroid
1022	Gabbro
1023	Leucogabbro
1024	Norite
1025	Gabbronorite
1026	Troctolite
1027	Diabase
1029	Leucodiabase
1030	Dioritoid
1032	Porphyrite
1033	Diorite
1034	Monzonorite
1035	Monzodiorite/quartz monzodiorite
1036	Monzodiorite
1037	Quartz monzodiorite
1038	Quartz diorite
1039	Anorthosite
1040	Felsic intrusive rock
1042	Porphyry
1043	Syenitoid
1044	Monzonite/quartz monzonite
1045	Monzonite
1046	Quartz monzonite
1047	Syenite/quartz syenite
1048	Syenite
1049	Quartz syenite
1050	Nepheline syenite
1051	Granitoid
1053	Tonalite
1054	Tonalite-granodiorite

BERGART	BERGART_TXT
1055	Trondhjemit
1056	Granodiorite
1057	Granodiorite-granite
1058	Granite
1059	Leucogranite
1060	Granophyre
1061	Pegmatite
1062	Aplite
1080	Nepheline diorite
1097	Granite porphyry
1098	Pegmatite-granite
1100	Alkali feldspar granite
1101	Carbonatite
1102	Lherzolite
1103	Harzburgite
1104	Wehrlite
1105	Monzogabbro
1106	Quartz gabbro
1107	Quartz anorthosite
1108	Intermediate composition intrusive rock
1109	Quartzolite
1110	Intrusive breccia
1120	Syenogranite
1121	Monzogranite
2000	Metamorphic intrusive rock
2005	Metaultramafite
2009	Serpentinite
2010	Soapstone
2016	Metamafite
2017	Amphibolite
2018	Greenstone
2019	Greenschist
2021	Metagabbroid
2023	Metagabbro
2025	Metaanorthosite
2028	Metadiabase
2031	Metadioritoid
2034	Metadiorite
2041	Felsic metaintrusive rock
2050	Granitic gneiss I
2052	Gneissic granitoid
2054	Tonalitic gneiss
2057	Granodioritic gneiss

BERGART	BERGART_TXT
2059	Gneissic granite
2061	Metapegmatite
2101	Meta-quartz diorite
2102	Charnockite
2103	Meta-quartz gabbro
2104	Intermediate metaintrusive rock
2105	Metasyenitoid
2106	Metasyenite
2107	Metamonzonite
3000	Volcanic rock
3063	Ultramafite
3065	Komatiite
3066	Mafite
3071	Basaltic komatiite
3072	Basalt
3073	Basaltic andesite
3074	Andesite
3076	Felsic volcanic rock
3080	Latite
3082	Trachyte
3084	Dacite/ryolite
3086	Dacite
3088	Rhyolite
3090	Quartz latite
3091	Foid trachyte
3092	Foid latite
3093	Phonolite
3094	Tephritic phonolite
3095	Phonolitic basanite
3096	Phonolitic tephrite
3097	Basanite
3098	Tephrite
3099	Fonolitisk foidit
3100	Tephritic foidite
3101	Foidite
3102	Trachybasalt
3103	Trachyandesite
3104	Trachydacite
3105	Intermediate composition volcanic rock
3106	Quartz trachyte
4000	Metavolcanic rock
4064	Metaultramafite
4067	Metamafite

BERGART	BERGART_TXT
4068	Amphibolite
4069	Greenstone
4070	Greenschist
4073	Metabasalt
4075	Metaandesite
4077	Felsic metavolcanic rock
4079	Metalatite/-trachyte
4081	Metalatite
4083	Metatrachyte
4085	Metadacite/-rhyolite
4087	Metadacite
4089	Metarhyolite
4091	Meta-quartz quartz latite
4092	Intermediate metavolcanic rock
4093	Metabasalt/-andesite
4094	Metaandesite/-dacite
5000	Magmatic rock, unspecified
5078	Orthogneiss
5090	Amphibolite
5091	Eclogite
5092	Greenschist
5093	Greenstone
5094	Metabasite
5095	Porphyry
5096	Porphyrite
5102	Mafic rock
5103	Felsic rock
5104	Intermediate rock
5105	Hybride rock
6000	Sedimentary rock
6001	Conglomerate
6002	Quartzite conglomerate
6003	Polymict conglomerate
6004	Serpentinite conglomerate
6005	Breccia
6006	Tillite
6007	Sandstone
6008	Diamictite
6009	Arenite
6011	Quartz arenite
6013	Arkosic arenite
6015	Arkose
6017	Lithic arenite

BERGART	BERGART_TXT
6018	Wacke, greywacke
6020	Quartz wacke
6021	Feldspathic greywacke
6022	Lithic wacke
6029	Calcite-bearing sandstone
6030	Calcite-bearing siltstone
6031	Argillite
6033	Siltstone
6034	Mudstone
6035	Shale
6037	Proximal turbidite
6038	Turbidite normally banked
6039	Distal turbidite
6040	Slaty siltstone
6043	Carbonate-rich rock
6045	Limestone
6046	Silt-rich limestone
6047	Dolomite
6049	Magnesite
6051	Chemical sedimentary rocks
6052	Chert, siliceous
6053	Jasper, jaspilite
6057	Monomict conglomerate
6058	Feldspar-rich sandstone
6059	Alum shale
6060	Marlstone
6061	Sand
6062	Silt
6063	Claystone
6064	Clay
6065	Marl
6066	Anthraconite
6067	Reef limestone
6068	Algal mound-limestone
6069	Calcirodite
6070	Calcarenite
6071	Calcilutite
6072	Biosparite
6073	Oosparite
6074	Pelsparite
6075	Intrasparite
6076	Biolithite
6077	Biomictite

BERGART	BERGART_TXT
6078	Oomicrite
6079	Pelmicrite
6080	Intramicroite
6081	Dismicroite
6082	Evaporite
6083	Sediment
6084	Boulder
6085	Cobble
6086	Gravel
6087	Subarkose
6088	Sublithic arenite
6089	Encrinite
6090	Stromatoporoid limestone
6091	Algal limestone
6092	Pisolite
6093	Cataclastic sedimentary rock
6094	Calcareous sedimentary rock
7000	Metasedimentary rock
7001	Metaconglomerate
7008	Metasandstone
7010	Metaarenite
7012	Quartzite
7014	Feldspar quartzite
7015	Mica quartzite
7016	Metaarkose
7019	Metagreywacke
7023	Psammitic phyllite
7024	Calc-phyllite
7025	Calc-metagreywacke
7026	Psammitic schist
7027	Feather amphibolite
7028	Psammitic paragneiss
7029	Psammitic mica schist
7030	Calcite-bearing schist
7031	Calcite-bearing mica schist
7032	Metaargillite
7035	Schist
7036	Slate
7037	Black shale
7038	Pelitic phyllite
7039	Grafitic phyllite
7040	Pelitic schist
7041	Grafitic schist

BERGART	BERGART_TXT
7042	Pelitic paragneiss
7044	Marble
7045	Pelitic mica schist
7046	Calcite marble
7048	Dolomite marble
7050	Magnesite marble
7056	Paragneiss
7059	Feldspar-rich metasandstone
7060	Phyllite
7070	Mica schist
7075	Grafitic mica schist
8000	Metamorphic rock, unspecified
8001	Blastomylonite
8002	Fault breccia
8003	Cataclasite
8004	Mylonite
8005	Phyllonite
8006	Pseudotachylite
8007	Granulite
8008	Schist/gneiss
8009	Quartz-feldspar schist/gneiss
8010	Schist
8011	Gneiss
8012	Dioritic gneiss
8013	Granitic gneiss
8014	Granodioritic gneiss
8015	Tonalitic gneiss
8016	Supracrustal rock
8017	Quartz-feldspar supracrustal rock
8018	Hornfels
8019	Calc-silicate/skarn
8020	Hydrothermal dyke or segregation
8021	Quartz dominated hydrothermal dyke or segregation
8022	Carbonate dominated hydrothermal dyke or segregation
8023	Metasomatic rock
8024	Albite altered rock
8025	Andalusite-quartz rock
8026	Antophyllite-quartz rock
8027	Argillitized rock
8028	Cordierite-quartz rock
8029	Epidote altered rock
8030	Carbonate altered rock

BERGART	BERGART_TXT
8031	Chlorite schist
8032	Chlorite quartzite
8033	Propylitized rock
8034	Sericite schist
8035	Sericite quartzite
8036	Silicified rock
8037	Flint
8038	Calcareous metasediment
8040	Granofels
8051	Soapstone
8052	Amphibolite
8053	Eclogite
8054	Oxidised rock (red coloured)
8055	Quartz cemented fault breccia
8056	Epidote dominated hydrothermal dyke or segregation
8060	Mafic granulite
8061	Felsic granulite
8064	Tourmalite
8100	Schist
8101	Gneiss
8102	Granofels
8103	Phyllite
8104	Slate
8105	Mica schist
8106	Greenschist
8107	Greenstone
8108	Amphibolite
8109	Serpentinite
8110	Soapstone
8111	Quartzite
8112	Calc-silicate rock
8113	Skarn
8114	Migmatite
9000	Mineral deposit
9001	Base metals
9002	Cu
9003	Cu-Fe
9004	Cu-Zn-Fe
9005	Cu-Zn-Pb-Fe
9006	Zn-Pb-Fe
9007	Zn-Fe
9008	Pb-(Zn)

BERGART	BERGART_TXT
9009	Fe-sulphides
9010	Fe (pyrite, pyrrhotite)
9011	Fe (pyrite)
9012	Fe (pyrrhotite)
9013	Fe-oxides
9014	Fe (skarn)
9015	Fe (quartz-banded iron ore)
9016	Fe (Mn) (skarn)
9017	Fe (P) (apatite iron ore)
9018	Fe-oxides-(Cu-Fe-sulphides)
9019	Fe-Ti-(V)-oxides
9020	Mn-mineralisation
9021	Mo-W-Sn-mineralisation
9022	Mo-(Fe)
9023	Mo-Cu-Fe
9024	Mo-W-Fe-(Cu, F)
9025	Sn-W-(F)
9026	W
9027	Nb-REE-(P, Fe, U)
9028	Ni-Cu-Zn-Fe-mineralisation
9029	Ni-Cu
9030	Ni-Cu-PGE
9031	Ni-Cu-Zn-Fe-mineralisation
9032	U-oxides
9033	Precious metals
9034	Au-(Ag)
9035	Au-As-(Ag)
9036	Andalusite
9037	Apatite
9038	Asbestos
9039	Baryte
9040	Diatomite (kieselguhr)
9041	Fluorspar
9042	Feldspar
9043	Mica
9044	Graphite
9045	Kaolin
9046	Quartz
9047	Kyanite
9048	Lithium mineral
9049	Magnesite
9050	Olivine
9051	Sillimanite

BERGART	BERGART_TXT
9052	Talc
9053	Wollastonite
9054	Coal
9055	Salt
9056	Gemstone
9057	Chrome mineralisation (oxides)
9058	Mg-mineral (silicates)
9060	Cu-Zn
9061	Ni-Cu(-Co)
9062	Ni-Cu(-Co), Cr
9063	Zn
9064	Zn-Pb
9065	Zn-Pb(-Ag)
9066	Ag
9067	Cu-Zn(-Pb)
9068	Pb-Zn
9069	Fe-Ti
9070	Ni-Fe-sulphides
9071	Co-Fe-sulphides
9072	Co-Ni-Fe-sulphides
9073	Mo
9074	W-Mo
9075	Ni-sulphides
9076	Sb
9077	Fe-Fe(Mn)
9078	Bentonite
9079	Quartz sand
9080	Greisen
9081	Zn-Cu
9082	Cu-Pb
9083	Cu-Ag
9084	Fe-Cu
9085	Fe-Mn
9086	Co-Cu
9087	Feldspar-quartz-mica
9088	Feldspar-quartz
9089	Feldspar-mica
9090	Quartz-mica
9091	Quartz-feldspar-euxenite
9092	Limestone-alum shale
9093	Nb-U-Ta-oxides
9100	Metallic mineral occurrence
9101	Platinum group metal mineralisation

BERGART	BERGART_TXT
9200	Sulphide mineralisation
9201	Cu-mineralisation
9202	Zn-mineralisation
9203	Pb-mineralisation
9204	Fe-sulphide mineralisation
9205	Co-mineralisation
9206	Mo-mineralisation
9207	Ni-mineralisation
9300	Oxide mineralisation
9301	Iron oxide mineralisation
9302	Skarn iron ore
9303	Quartz-banded iron ore
9304	Apatite iron ore
9305	Fe-Ti-oxide mineralisation
9306	Cr-mineralisation
9307	Mn-mineralisation
9308	Nb-mineralisation
9309	Sn-mineralisation
9310	Ti-mineralisation
9311	U-mineralisation
9312	W-mineralisation
9400	Precious metals mineralisation
9401	Ag-mineralisation
9402	Au-mineralisation
9500	Non-metallic mineral occurrence
9501	Diatomite (kieselguhr)
9502	Coal
9503	Salt
9504	Gemstone
11120	Quartz-rich granitoid
11130	Alkaline rock
11145	Syenogranite
11146	Monzogranite
11210	Quartz alkali feldspar syenite
11220	Alkali feldspar syenite
11270	Foid-bearing alkali feldspar syenite
11280	Foid-bearing syenite
11290	Foid-bearing monzonite
11350	Foid-bearing monzodiorite
11360	Foid-bearing diorite
11410	Quartz monzogabbro
11470	Foid-bearing monzogabbro
11480	Foid-bearing gabbro

BERGART	BERGART_TXT
11490	Foid-bearing anorthosite
11500	Foid syenitoid
11510	Foid syenite
11520	Foid monzosyenite
11600	Foid dioritoid
11610	Foid monzodiorite
11620	Foid diorite
11700	Foid gabbroid
11710	Foid monzogabbro
11720	Foid gabbro
11800	Foidolitoid
11810	Foidolite
11830	Melteigite
11840	Ijolite
11850	Urtite
11920	Pyroxene peridotite
11940	Melilitolite
12200	Lamprophyric rock
12230	Lamproite
12310	Sövite
12320	Beforsite
12330	Alvikite
12350	Fenite
12360	Uncompahgrite
21100	Ryolitoid
21110	Alkali feldspar rhyolite
21200	Dacitoid

BERGART	BERGART_TXT
21300	Trachytoid
21310	Quartz alkali feldspar trachyte
21320	Alkali feldspar trachyte
21370	Foid-bearing alkali feldspar trachyte
22100	Andesitoid
22121	Benmoreite
22130	Basaltic andesite
22140	Basaltic trachyandesite
22141	Mugearite
22142	Shoshonite
22200	Boninite
22300	Phonolitoid
23100	Basaltoid
23121	Hawaiite
23122	Potassic trachybasalt
23200	Tephritoid
24100	Picrobasalt
24200	Ultramafic tephritoid
24250	Melanephelinite
24300	Foiditoid
24340	Basanitic foidite
24420	Meimechite
24430	Picrite
24500	Melilitic rock
24510	Melilitite
24520	Olivine melilitite

Values for stratigraphic position = STRATIGRAFISK_POS

STRATIGRAFISK_POS	STRATIGRAFISK_POS_TXT
1	Precambrian >0.54 Ga
10	Archean >2.5 Ga
50	Archean to Paleoproterozoic >1.6 Ga
55	Proterozoic 2.5-0.54 Ga
60	Basalt-andesitformationen (Kovogruppen)
80	Supracrustal rock c. 2.4-1.96 Ga (Karelian)
100	Paleoproterozoic 2.5-1.6 Ga
101	Blekinge coastal (ortho) gneiss
102	Västana formation
104	Supracrustal rock c. 2.5-2.39 Ga
105	Intrusive rock c. 2.44 Ga
106	Supracrustal rock c. 2.39-2.33 Ga
107	Supracrustal rock c. 2.33-2.06 Ga
108	Supracrustal rock c. 2.06-1.96 Ga
110	Supracrustal rock c. 1.96-1.86 Ga (Svecofennian)
120	Intrusive rock GDG/GSDG c. 1.96-1.87 Ga (Early Svecokarelian)
122	Intrusive rock in Skelleftefältet (c. 1.95 Ga)
123	Intrusive rock in Skelleftefältet (c. 1.90 Ga)
124	Calc-alkaline intrusive rock in Skelleftefältet (c. 1.95-1.85 Ga)
126	Calc-alkaline intrusive rock in Skelleftefältet, Jörn G II (c. 1.95-1.85 Ga)
128	Perthite monzonite suite, Jörn G IV (c. 1.88-1.86 Ga)
130	Intrusive rock GSDG c. 1.88-1.86 Ga
136	Intrusive rock of Pingisvaara-type (c. 1.85 Ga)
140	Intrusive rock GP c. 1.83-1.75 Ga
141	Migmatite granite
142	Fellingsbro-type granite
146	Intrusive rock GP c. 1.87-1.82 Ga
148	Calc-alkaline granitoids (c. 1.83-1.82 Ga)
150	Intrusive rock GSDG c. 1.87-1.66 Ga
152	Intrusive rock GSDG c. 1.87-1.82 Ga
153	Intrusive rock GSDG c. 1.81-1.66 Ga
154	Intrusive rock GSDG c. 1.81-1.76 Ga
156	Intrusive rock GSDG c. 1.71-1.66 Ga
158	Intrusive rock GSDG c. 1.87-1.76 Ga
159	Transscandinavian magmatic belt (c. 1.81-1.75 and c. 1.70-1.65 Ga)
160	Sedimentary rock related to the Transscandinavian magmatic belt (ca 1.81-1.65 Ga)
170	Metamorphic rock 1.87-1.84 Ga

STRATIGRAFISK_POS	STRATIGRAFISK_POS_TXT
199	Stratigraphic position unknown
200	Paleo- and Mesoproterozoic rock west of the Mylonite Zone
210	Supracrustal rock (> 1.6 Ga?)
220	A-group intrusive rock (> 1.6 Ga)
230	Supracrustal rock (c. 1.68-1.60 Ga)
240	B-group intrusive rock (c. 1.68-1.53 Ga)
250	Intrusive rock of supracrustal origin related to B-group
300	Meso- to Neoproterozoic 1.6-0.54 Ga
302	Meso- to Neoproterozoic dyke
310	Rapakivi-intrusive and associated rock (c. 1.58-? Ga)
320	Dyke (c. 1.55 Ga)
330	Intrusive rock (c. 1.40 Ga)
335	Dyke (c. 1.37 Ga)
340	Supracrustal rock > c. 1.27 Ga (Jotnic)
350	Dyke (c. 1.25-1.20 Ga)
360	Syenit (ca 1,25-1,20 Ga)
362	Charnokite (c. 1.2 Ga; AMCG group)
366	Mangerite och jotunite (c. 1.2 Ga; AMCG group)
368	Anorthosite (c. 1.2 Ga; AMCG group)
370	Dyke (c. 1.18 Ga)
380	Dyke (c. 1.0-0.9 Ga)
385	Alkaline dyke
390	Dyke (0.9 or 1.2 Ga)
400	Meso- and Neoproterozoic rock west of the Mylonite Zone
410	C-group magmatic rock (c. 1.51-1.18 Ga)
411	C1-intrusive rock
414	C2-intrusive rock
417	C3-intrusive rock
430	C3-intrusive rock
450	Supracrustal rock 1.13-1.11 Ga
451	Sedimentary rock
454	Volcanic rock
457	Sedimentary rock
460	D-group intrusive rock (c. 1.1-0.9 Ga)
600	Neoproterozoic to Phanerozoic <1.0 Ga
601	Neoproterozoic 1.0-0.54 Ga
602	Riphean 1.60-0.650 Ga
603	Vendian 0.650-0.545 Ga
604	Vendian-Cambrian 0.650-0.495 Ga

STRATIGR AFISK_POS	STRATIGRAFISK_POS_TXT
605	Phanerozoic < 0.545 Ga
606	Palaeozoic 0.545-0.250 Ga
607	Early Palaeozoic 0.545-0.417 Ga
608	Cambrian 0.545-0.495 Ga
609	Early Cambrian 0.545-0.520 Ga
610	Middle Cambrian 0.520-0.500 Ga
611	Late Cambrian 0.500-0.495 Ga
612	Ordovician 0.495-0.440 Ga
613	Oelandian (Early Ordovician)
614	Viru (Middle Ordovician)
615	Harju (Late Ordovician)
616	Silurian 0.440-0.417 Ga
617	Llandovery (Early Silurian) 0.440-0.428 Ga
618	Wenlock (Middle Silurian) 0.428-0.423 Ga
619	Ludlow/Pridoli (Late Silurian) 0.423-0.417 Ga
620	Late Palaeozoic 0.417-0.250 Ga
621	Devonian 0.417-0.354 Ga
622	Carboniferous 0.354-0.292 Ga
623	Permian 0.292-0.250 Ga
624	Early Perm
625	Late Perm
626	Meosozoic 0.250-0.066 Ga
627	Triassic 0.250-0.205 Ga
628	Early Triassic 0.250-0.242 Ga
629	Middle Triassic 0.242-0.227 Ga
630	Late Triassic 0.227-0.205 Ga
631	Jurassic 0.205-0.142 Ga
632	Early Jurassic 0.205-0.180 Ga
633	Middle Jurassic 0.180-0.159 Ga
634	Late Jurassic 0.159-0.142 Ga
635	Cretaceous 0.142-0.066 Ga
636	Early Cretaceous 0.142-0.099 Ga
637	Late Cretaceous 0.099-0.066 Ga
638	Cenozoic < 0.066 Ga
639	Tertiary 0.066-0.002 Ga
640	Paleogene 0,066-0,024 Ga
641	Paleocene (Early Paleogene) 0.066-0.055 Ga
642	Oligocen (Late Paleogene) 0.034-0.024 Ga
643	Neogene 0.024-0.002 Ga
644	Miocene (Early Neogene) 0.024-0.005 Ga
645	Pliocene (Late Neogene) 0.005-0.002 Ga

STRATIGR AFISK_POS	STRATIGRAFISK_POS_TXT
650	Quaternary < 0.002 Ga
660	Cambrian-Ordovician 0.545-0.440 Ga
661	Sinian 0.800-0.545 Ga
662	Sturtian 0.800-0.650 Ga
663	Early Devonian 0.417-0.391 Ga
664	Middle Devonian 0.391-0.370 Ga
665	Late Devonian 0.370-0.354 Ga
666	Early Carboniferous 0.354-0.320 Ga
667	Late Carboniferous 0.320-0.292 Ga
668	Middle Perm
669	Eocene (Middle Paleogene) 0.055-0.034 Ga
670	Pridoli 0.419-0.416 Ga
672	Harju-Llandovery
674	Ludlow 0.423-0.419 Ga
676	Furongian 0.501-0.488 Ga
678	Cisuralian 0.299-0.270 Ga
680	Guadalupian 0.270-0.260 Ga
682	Lopingian 0.260-0.251 Ga
684	Pleistocene 1.8-0.0115 Ma
686	Holocene < 0.0115 Ma
688	Mississippian 0.359-0.318 Ga
690	Pennsylvanian 0.318-0.299 Ga
692	Ediacaran c. 0.630-0.542 Ga
694	Ediacaran-Cambrian c. 0.630-0.495 Ga
700	Paleoproterozoic rock east of the Mylonite Zone and west of the Protogine Zone
710	Supracrustal rock (> c. 1.7 Ga?)
720	Intrusive rock (orthogneiss, c. 1.7-1.6 Ga)
721	Intrusive rock (orthogneiss, c. 1.7-1.6 Ga, probably of Transscandinavian magmatic belt origin)
730	Intrusive rock (c. 1.58-1.47 Ga)
750	Paleo- and Mesoproterozoic rock east of the Mylonite Zone and west of the Protogine Zone
800	Meso- and Neoproterozoic rock east of the Mylonite Zone and west of the Protogine Zone
810	Supracrustal rock c. 1.60 Ga
824	Intrusive rock (c. 1.4 Ga)
850	Paleo- to Mesoproterozoic c. 1.62-1.59 Ga
852	Paleoproterozoic c. 1.66-1.61 Ga
854	Paleoproterozoic c. 1.87-1.66 Ga
856	Paleoproterozoic c. 1.87-1.75 Ga
858	Paleoproterozoic c. 1.88-1.86 Ga

STRATIGR AFISK_POS	STRATIGRAFISK_POS_TXT
860	Paleoproterozoic c. 1.96-1.86 Ga
862	Paleoproterozoic c. 2.4-1.96 Ga
864	Paleoproterozoic c. 2.44 Ga
866	Paleoproterozoic c. 2.5-2.39 Ga
868	Meso- to Neoproterozoic 1.59-0.92 Ga
870	Mesoproterozoic 1.6-1.0 Ga
872	Mesoproterozoic 1.13-1.11 Ga
900	Paleo- to Mesoproterozoic 2.5-1.0 Ga
901	Intrusive rock c. 2.4-1.96 Ga (Karelian)
902	Intrusive rock GDG c. 1.87-1.82 Ga
903	Supracrustal rock 1.86-1.82 Ga
904	Supracrustal rock c. 1.82-1.78 Ga
905	Intrusive rock GDG c. 1.81-1.76 Ga
906	Supracrustal rock c. 1.71-1.69 Ga
907	Intrusive rock GDG c. 1.73-1.66 Ga
908	Intrusive rock GDG c. 1.87-1.66 Ga
909	Intrusive rock GDG c. 1.87-1.76 Ga
910	Intrusive rock GDG c. 1.81-1.66 Ga
911	Supracrustal rock c. 1.66-1.61 Ga
912	Intrusive rock GDG c. 1.62-1.59 Ga

STRATIGR AFISK_POS	STRATIGRAFISK_POS_TXT
913	Intrusive rock c. 1.53-1.45 Ga
914	Intrusive rock c. 1.46-1.29 Ga
915	Intrusive rock c. 1.27-1.20 Ga
916	Intrusive rock c. 1.59-1.20 Ga
917	Intrusive rock c. 1.20-1.17 Ga
918	Intrusive rock c. 1.00-0.92 Ga
919	Intrusive rock c. 1.20-0.92 Ga
920	Intrusive rock c. 1.59-1.53 Ga
921	Intrusive rock c. 1.59-0.92 Ga
922	Terreneuvian 0.542-0.521 Ga
923	Cambrian Serie 2 0.521-0.510 Ga
924	Cambrian Serie 3 0.510-0.499 Ga
925	Precambrian 4.60-0.542 Ga
926	Hadean (informal) 4.60-4.00 Ga
927	Eoarchean 4.00-3.60 Ga
928	Paleoarchean 3.60-3.20 Ga
929	Mesoarchean 3.20-2.80 Ga
930	Neoarchean 2.80-2.50 Ga
931	Neoarchean 1 2.80-2.65 Ga
932	Neoarchean 2 2.65-2.50 Ga

Values for ANALYTICAL METHOD

ANALYTICAL METHOD	METHOD DESCRIPTION
ME-ICP06	WR package ICPAES
C-IR07	Total carbon by Leco furnace
S-IR08	Total sulphur by Leco furnace
ME-MS81	Lithium borat fusion ICPMS
ME-MS42	Up to 34 elements aqua regia ICPMS
OA-GRA05	LOI 1000C
TOT-ICP06	Total calc for ICP06 ICPAES
ME-4ACD81	Base metals 4-acid digest ICPAES
Cu-OG62	Four acid digestion and ICP or AAS finish
ME-MS41	51 anal aqua regia ICPMS
Cu-OG46	Aqua regia digestion and ICP or AAS finish
PGM-ICP23	PtPdAu 30g ICPAES
CRU-QC	Crushing QC test
PUL-QC	Pulverizing QC test
Cl-IC881	KOH fusion and ion chromatography
Pb-OG62	Pb-OG62
Pb-OG46	Pb-OG46
Fe-VOL05	Fe-VOL05
F-IC881	KOH fusion and ion chromatography
Zn-OG62	Zn-OG62
Zn-OG46	Zn-OG46

ANALYTICAL METHOD	METHOD DESCRIPTION
Hg-CV41	Hg-CV41
Au-ICP21	Au-ICP21
ME-MS61	ME-MS61
4A-4B	ACME (LF202 fr 2016) Total Whole Rock Characterization
1DX	ACME (AQ200 fr 2016) Aqua regia digestion - ICP-MS analysis
2A Leco	ACME (TC003 fr 2016) Leco - Total C and S
Ag-OG62	4-acid digest ICPAES
Au-AA25	fire assay and AAS 30g
PGM-MS23	fire assay and ICP-MS finish 30g
Ag-OG46	aqua regia digestion ICPAES
Ag-AA46	aqua regia digestion AAS
ME-ICP41	aqua regia digestion ICPAES
ME-XRF06	Lithium Borate Fusion and XRF
Cu-AA46	aqua regia digestion AAS
Pb-AA46	aqua regia digestion AAS
Zn-AA46	aqua regia digestion AAS
Au-GRA21	Au-GRA21
Ni-OG62	4-acid digest ICPAES
Ag-GRA21	Ag-GRA21
No information	No information. See method for complete sample.