

Appendix 4. LITH1–LITH5 (*Lithology Table*) Data Dictionary

Table 4-1 provides the terms used in the LITH1–LITH5 fields of the *Lithology* table and the MAJOR1–3, MINOR1–5, INCIDENTAL, and INDETERMINATE fields of the *SGMC_Geology* feature class. Hierarchical structure from generalized (LITH1) to more specific (LITH2–LITH5).

Table 4-1. LITH1–LITH5 (*Lithology table*) data dictionary.

LITH1	LITH2	LITH3	LITH4	LITH5
Unconsolidated				
Unconsolidated	Coarse-detrital			
Unconsolidated	Coarse-detrital	Boulders		
Unconsolidated	Coarse-detrital	Gravel		
Unconsolidated	Coarse-detrital	Sand		
Unconsolidated	Fine-detrital			
Unconsolidated	Fine-detrital	Clay		
Unconsolidated	Fine-detrital	Silt		
Unconsolidated	Coral			
Unconsolidated	Marl			
Unconsolidated	Peat			
Sedimentary				
Sedimentary	Clastic			
Sedimentary	Clastic	Mixed-clastic		
Sedimentary	Clastic	Mixed-clastic	Conglomerate-mudstone	
Sedimentary	Clastic	Mixed-clastic	Conglomerate-sandstone	
Sedimentary	Clastic	Mixed-clastic	Sandstone-mudstone	
Sedimentary	Clastic	Mixed-clastic	Siltstone-mudstone	
Sedimentary	Clastic	Conglomerate		
Sedimentary	Clastic	Sandstone		
Sedimentary	Clastic	Sandstone	Arenite	
Sedimentary	Clastic	Sandstone	Arenite	Calcarenite
Sedimentary	Clastic	Sandstone	Arkose	
Sedimentary	Clastic	Sandstone	Graywacke	
Sedimentary	Clastic	Siltstone		
Sedimentary	Clastic	Mudstone		
Sedimentary	Clastic	Mudstone	Claystone	
Sedimentary	Clastic	Mudstone	Claystone	Bentonite
Sedimentary	Clastic	Mudstone	Shale	
Sedimentary	Clastic	Mudstone	Shale	Black-shale
Sedimentary	Clastic	Mudstone	Shale	Oil-shale
Sedimentary	Clastic	Mudstone	Shale	Phosphatic-shale
Sedimentary	Clastic	Sedimentary-breccia		
Sedimentary	Carbonate			
Sedimentary	Carbonate	Dolostone		
Sedimentary	Carbonate	Limestone		
Sedimentary	Carbonate	Limestone	Chalk	

Table 4-1. LITH1–LITH5 (*Lithology table*) data dictionary.—Continued

LITH1	LITH2	LITH3	LITH4	LITH5
Sedimentary	Carbonate	Limestone	Coquina	
Sedimentary	Carbonate	Marlstone		
Sedimentary	Chemical			
Sedimentary	Chemical	Banded-iron-formation		
Sedimentary	Chemical	Chert		
Sedimentary	Chemical	Diatomite		
Sedimentary	Chemical	Evaporite		
Sedimentary	Chemical	Evaporite	Anhydrite	
Sedimentary	Chemical	Evaporite	Gypsum	
Sedimentary	Chemical	Evaporite	Salt	
Sedimentary	Chemical	Novaculite		
Sedimentary	Chemical	Phosphorite		
Sedimentary	Coal			
Sedimentary	Coal	Anthracite		
Sedimentary	Coal	Bituminous		
Sedimentary	Coal	Lignite		
Sedimentary	Coal	Sub-bituminous		
Igneous				
Igneous	Plutonic			
Igneous	Plutonic	Granitic		
Igneous	Plutonic	Granitic	Alkali-feldspar-granite	
Igneous	Plutonic	Granitic	Alkali-feldspar-granite	Alkali-granite
Igneous	Plutonic	Granitic	Granite	
Igneous	Plutonic	Granitic	Granite	Monzogranite
Igneous	Plutonic	Granitic	Granite	Syenogranite
Igneous	Plutonic	Granitic	Granodiorite	
Igneous	Plutonic	Granitic	Leucocratic-granitic	
Igneous	Plutonic	Granitic	Leucocratic-granitic	Alaskite
Igneous	Plutonic	Granitic	Leucocratic-granitic	Aplite
Igneous	Plutonic	Granitic	Leucocratic-granitic	Pegmatite
Igneous	Plutonic	Granitic	Tonalite	
Igneous	Plutonic	Granitic	Tonalite	Trondhjemite
Igneous	Plutonic	Charnockite		
Igneous	Plutonic	Syenitic		
Igneous	Plutonic	Syenitic	Alkali-feldspar-syenite	
Igneous	Plutonic	Syenitic	Monzonite	
Igneous	Plutonic	Syenitic	Quartz-alkali-feldspar-syenite	
Igneous	Plutonic	Syenitic	Quartz-monzonite	
Igneous	Plutonic	Syenitic	Quartz-syenite	
Igneous	Plutonic	Syenitic	Syenite	
Igneous	Plutonic	Dioritic		
Igneous	Plutonic	Dioritic	Diorite	

Table 4-1. LITH1–LITH5 (*Lithology table*) data dictionary.—Continued

LITH1	LITH2	LITH3	LITH4	LITH5
Igneous	Plutonic	Dioritic	Monzodiorite	
Igneous	Plutonic	Dioritic	Quartz-monzodiorite	
Igneous	Plutonic	Dioritic	Quartz-diorite	
Igneous	Plutonic	Gabbroic		
Igneous	Plutonic	Gabbroic	Gabbro	
Igneous	Plutonic	Gabbroic	Gabbro	Norite
Igneous	Plutonic	Gabbroic	Gabbro	Troctolite
Igneous	Plutonic	Gabbroic	Quartz-gabbro	
Igneous	Plutonic	Anorthosite		
Igneous	Plutonic	Ultramafic		
Igneous	Plutonic	Ultramafic	Hornblendite	
Igneous	Plutonic	Ultramafic	Peridotite	
Igneous	Plutonic	Ultramafic	Peridotite	Dunite
Igneous	Plutonic	Ultramafic	Peridotite	Kimberlite
Igneous	Plutonic	Ultramafic	Pyroxenite	
Igneous	Plutonic	Foidal-syenitic		
Igneous	Plutonic	Foidal-syenitic	Foid-syenite	
Igneous	Plutonic	Foidal-syenitic	Nepheline-syenite	
Igneous	Plutonic	Intrusive-carbonatite		
Igneous	Hypabyssal			
Igneous	Hypabyssal	Felsic-hypabyssal		
Igneous	Hypabyssal	Felsic-hypabyssal	Hypabyssal-dacite	
Igneous	Hypabyssal	Felsic-hypabyssal	Hypabyssal-felsic-alkaline	
Igneous	Hypabyssal	Felsic-hypabyssal	Hypabyssal-latite	
Igneous	Hypabyssal	Felsic-hypabyssal	Hypabyssal-quartz-latite	
Igneous	Hypabyssal	Felsic-hypabyssal	Hypabyssal-quartz-trachyte	
Igneous	Hypabyssal	Felsic-hypabyssal	Hypabyssal-rhyolite	
Igneous	Hypabyssal	Felsic-hypabyssal	Hypabyssal-trachyte	
Igneous	Hypabyssal	Mafic-hypabyssal		
Igneous	Hypabyssal	Mafic-hypabyssal	Hypabyssal-andesite	
Igneous	Hypabyssal	Mafic-hypabyssal	Hypabyssal-basalt	
Igneous	Hypabyssal	Mafic-hypabyssal	Hypabyssal-basaltic-andesite	
Igneous	Hypabyssal	Mafic-hypabyssal	Hypabyssal-mafic-alkaline	
Igneous	Hypabyssal	Lamprophyre		
Igneous	Volcanic			
Igneous	Volcanic	Alkalic-volcanic		
Igneous	Volcanic	Alkalic-volcanic	Basanite	
Igneous	Volcanic	Alkalic-volcanic	Foidite	
Igneous	Volcanic	Alkalic-volcanic	Phonolite	
Igneous	Volcanic	Felsic-volcanic		
Igneous	Volcanic	Felsic-volcanic	Dacite	
Igneous	Volcanic	Felsic-volcanic	Latite	

Table 4-1. LITH1–LITH5 (*Lithology* table) data dictionary.—Continued

LITH1	LITH2	LITH3	LITH4	LITH5
Igneous	Volcanic	Felsic-volcanic	Quartz-latite	
Igneous	Volcanic	Felsic-volcanic	Quartz-trachyte	
Igneous	Volcanic	Felsic-volcanic	Rhyolite	
Igneous	Volcanic	Felsic-volcanic	Trachyte	
Igneous	Volcanic	Mafic-volcanic		
Igneous	Volcanic	Mafic-volcanic	Andesite	
Igneous	Volcanic	Mafic-volcanic	Basalt	
Igneous	Volcanic	Mafic-volcanic	Basaltic-andesite	
Igneous	Volcanic	Ultramafic		
Igneous	Volcanic	Ultramafic	Komatiite	
Igneous	Volcanic	Ultramafic	Picrite	
Metamorphic				
Metamorphic	Amphibolite			
Metamorphic	Eclogite			
Metamorphic	Gneiss			
Metamorphic	Gneiss	Biotite-gneiss		
Metamorphic	Gneiss	Calc-silicate-gneiss		
Metamorphic	Gneiss	Hornblende-gneiss		
Metamorphic	Gneiss	Muscovite-gneiss		
Metamorphic	Granoblastic			
Metamorphic	Granoblastic	Granofels		
Metamorphic	Granoblastic	Hornfels		
Metamorphic	Granulite			
Metamorphic	Metaigneous			
Metamorphic	Metaigneous	Greenstone		
Metamorphic	Metaigneous	Metaintrusive		
Metamorphic	Metaigneous	Metaintrusive	Metaanorthosite	
Metamorphic	Metaigneous	Metaintrusive	Metadiabase	
Metamorphic	Metaigneous	Metaintrusive	Metadiorite	
Metamorphic	Metaigneous	Metaintrusive	Metagabbro	
Metamorphic	Metaigneous	Metaintrusive	Metagranite	
Metamorphic	Metaigneous	Metaintrusive	Metatonalite	
Metamorphic	Metaigneous	Metaintrusive	Metatonalite	Metatrandhjemite
Metamorphic	Metaigneous	Metaintrusive	Metaultramafic	
Metamorphic	Metaigneous	Metaintrusive	Metaultramafic	Metadunite
Metamorphic	Metaigneous	Metaintrusive	Metaultramafic	Metaperidotite
Metamorphic	Metaigneous	Metaintrusive	Metaultramafic	Metapyroxenite
Metamorphic	Metaigneous	Metavolcanic		
Metamorphic	Metaigneous	Metavolcanic	Metaandesite	
Metamorphic	Metaigneous	Metavolcanic	Metabasalt	
Metamorphic	Metaigneous	Metavolcanic	Metadacite	
Metamorphic	Metaigneous	Metavolcanic	Metarhyolite	

Table 4-1. LITH1–LITH5 (*Lithology* table) data dictionary.—Continued

LITH1	LITH2	LITH3	LITH4	LITH5
Metamorphic	Metaigneous	Orthogneiss		
Metamorphic	Metaigneous	Serpentine		
Metamorphic	Metasedimentary			
Metamorphic	Metasedimentary	Calc-silicate-rock		
Metamorphic	Metasedimentary	Metacarbonate		
Metamorphic	Metasedimentary	Metacarbonate	Marble	
Metamorphic	Metasedimentary	Metaclastic		
Metamorphic	Metasedimentary	Metaclastic	Argillite	
Metamorphic	Metasedimentary	Metaclastic	Metaconglomerate	
Metamorphic	Metasedimentary	Metaclastic	Metasandstone	
Metamorphic	Metasedimentary	Metaclastic	Metasandstone	Metagraywacke
Metamorphic	Metasedimentary	Metaclastic	Metasiltstone	
Metamorphic	Metasedimentary	Metaclastic	Phyllite	
Metamorphic	Metasedimentary	Metaclastic	Quartzite	
Metamorphic	Metasedimentary	Metaclastic	Slate	
Metamorphic	Metasedimentary	Paragneiss		
Metamorphic	Migmatite			
Metamorphic	Schist			
Metamorphic	Schist	Amphibole-schist		
Metamorphic	Schist	Calc-silicate-schist		
Metamorphic	Schist	Pelitic-schist		
Metamorphic	Schist	Mica-schist		
Metamorphic	Schist	Mica-schist	Biotite-schist	
Metamorphic	Schist	Mica-schist	Muscovite-schist	
Metamorphic	Schist	Quartz-feldspar-schist		
Metamorphic	Hydrothermally-altered			
Metamorphic	Hydrothermally-altered	Skarn		
Metamorphic	Hydrothermally-altered	Spilite		
Tectonite				
Tectonite	Cataclasite			
Tectonite	Mylonite			
Tectonite	Mylonite	Phyllonite		
Tectonite	Melange			
Ice				