

San Bernardino Geologic Labels

ptype	name	source_ptype	source_name	source_age
af	Artificial Fill	Qaf	Artificial fill	late Holocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qc	Very young colluvial deposits	late Holocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qdg	Disturbed ground	late Holocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qoc	Old colluvial deposits	late to middle Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qos	Old surficial deposits	late to middle Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qs	Very young surficial deposits	late Holocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qs1	Very young surficial deposits, Unit 1	late Holocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qt	Very young talus deposits	late Holocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qvor	Very old regolith	middle to early Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qvos	Very old surficial deposits	middle to early Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qvosw	Very old slope-wash deposits	middle to early Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qyc	Young colluvial deposits	Holocene and late Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qys	Young surficial deposits	Holocene and late Pleistocene

ptype	name	source_ptype	source_name	source_age
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qysw	Young slope-wash deposits	Holocene and late Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qyt	Young talus deposits	Holocene and late Pleistocene
Qls	Landslide Deposits; may include debris flows and older landslides	Qls	Very young landslide deposits	late Holocene
Qls	Landslide Deposits; may include debris flows and older landslides	Qols	Old landslide deposits	late to middle Pleistocene
Qls	Landslide Deposits; may include debris flows and older landslides	Qvols	Very old landslide deposits	middle to early Pleistocene
Qls	Landslide Deposits; may include debris flows and older landslides	Qyls	Young landslide deposits	Holocene and late Pleistocene
Qw	Alluvial Wash Deposits	Qsw	Very young slope-wash deposits	late Holocene
Qw	Alluvial Wash Deposits	Qw	Very young wash deposits	late Holocene
Qw	Alluvial Wash Deposits	Qw1	Very young wash deposits, Unit 1	late Holocene
Qw	Alluvial Wash Deposits	Qw2	Very young wash deposits, Unit 2	late Holocene
Qw	Alluvial Wash Deposits	Qw3	Very young wash deposits, Unit 3	late Holocene
Qf	Alluvial Fan Deposits	Qf	Very young alluvial-fan deposits	late Holocene
Qf	Alluvial Fan Deposits	Qf1	Very young alluvial-fan deposits, Unit 1	late Holocene
Qf	Alluvial Fan Deposits	Qf2	Very young alluvial-fan deposits, Unit 2	late Holocene
Qf	Young Alluvial Fan Deposits	Qyf4	Young alluvial-fan deposits, Unit 4	late Holocene
Qf	Young Alluvial Fan Deposits	Qyf5	Young alluvial-fan deposits, Unit 5	late Holocene
Qa	Alluvial Valley Deposits	Qa	Very young axial-channel deposits	late Holocene
Qa	Alluvial Valley Deposits	Qa1	Very young axial-channel deposits, Unit 1	late Holocene
Qa	Young Alluvial Valley Deposits	Qya4	Young axial-channel deposits, Unit 4	late Holocene
Qa	Young Alluvial Valley Deposits	Qya5	Young axial-channel deposits, Unit 5	late Holocene
Ql	Lacustrine, Playa and Estuarine (Paralic) Deposits	Ql	Very young lacustrine deposits	late Holocene
Ql	Lacustrine, Playa and Estuarine (Paralic) Deposits	Qpl	Very young playa deposits	late Holocene
Ql	Lacustrine, Playa and Estuarine (Paralic) Deposits	Qpl1	Very young playa deposits, Unit 1	late Holocene
Ql	Lacustrine, Playa and Estuarine (Paralic) Deposits	Qypl	Young playa deposits	Holocene and late Pleistocene
Qe	Eolian and Dune Deposits	Qe	Very young eolian deposits	late Holocene
Qyw	Young Alluvial Wash Deposits	Qyw	Young wash deposits	Holocene and late Pleistocene

ptype	name	source_ptype	source_name	source_age
Qyw	Young Alluvial Wash Deposits	Qyw1	Young wash deposits, Unit 1	early Holocene and late Pleistocene
Qyw	Young Alluvial Wash Deposits	Qyw2	Young wash deposits, Unit 2	early Holocene
Qyw	Young Alluvial Wash Deposits	Qyw3	Young wash deposits, Unit 3	early Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyf	Young alluvial-fan deposits	Holocene and late Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyf1	Young alluvial-fan deposits, Unit 1	early Holocene and late Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyf2	Young alluvial-fan deposits, Unit 2	early Holocene
Qyf	Young Alluvial Fan Deposits	Qyf3	Young alluvial-fan deposits, Unit 3	middle Holocene
Qya	Young Alluvial Valley Deposits	Qya	Young axial-channel deposits	Holocene and late Pleistocene
Qya	Young Alluvial Valley Deposits	Qya1	Young axial-channel deposits, Unit 1	Early Holocene and Late Pleistocene
Qya	Young Alluvial Valley Deposits	Qya2	Young axial-channel deposits, Unit 2	early Holocene
Qya	Young Alluvial Valley Deposits	Qya3	Young axial-channel deposits, Unit 3	middle Holocene
Qye	Young Eolian and Dune Deposits	Qye	Young eolian deposits	Holocene and late Pleistocene
Qye	Young Eolian and Dune Deposits	Qyed1	Young eolian deposits (dune sand), Unit 1	Holocene and late Pleistocene
Qye	Young Eolian and Dune Deposits	Qyes1	Young eolian deposits (sheet sand), Unit 1	Holocene and late Pleistocene
Qof	Old Alluvial Fan Deposits	Qof	Old alluvial-fan deposits	late to middle Pleistocene
Qof	Old Alluvial Fan Deposits	Qof1	Old alluvial-fan deposits, Unit 1	middle Pleistocene
Qof	Old Alluvial Fan Deposits	Qof2	Old alluvial-fan deposits, Unit 2	late to middle Pleistocene
Qof	Old Alluvial Fan Deposits	Qof3	Old alluvial-fan deposits, Unit 3	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa	Old axial-channel deposits	late Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa1	Old axial-channel deposits, Unit 1	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa2	Old axial-channel deposits, Unit 2	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa3	Old axial-channel deposits, Unit 3	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qolb	Old lacustrine deposits (bar)	late to middle Pleistocene

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Qoe	Old Eolian and Dune Deposits	Qoe	Old eolian deposits	late to middle Pleistocene
Qoe	Old Eolian and Dune Deposits	Qoed3	Old eolian deposits (dune sand), Unit 3	late to middle Pleistocene
Qoe	Old Eolian and Dune Deposits	Qoes3	Old eolian deposits (sheet sand), Unit 3	late to middle Pleistocene
Qvof	Very Old Alluvial Fan Deposits	Qvof	Very old alluvial-fan deposits	middle to early Pleistocene
Qvof	Very Old Alluvial Fan Deposits	Qvof1	Very old alluvial-fan deposits, Unit 1	early Pleistocene
Qvof	Very Old Alluvial Fan Deposits	Qvof2	Very old alluvial-fan deposits, Unit 2	early Pleistocene
Qvof	Very Old Alluvial Fan Deposits	Qvof3	Very old alluvial-fan deposits, Unit 3	middle to early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa	Very old axial-channel deposits	middle to early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa1	Very old axial-channel deposits, Unit 1	early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa2	Very old axial-channel deposits, Unit 2	early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa3	Very old axial-channel deposits, Unit 3	middle to early Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qb	Sedimentary breccia of Meisling (1984)	Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qh	Harold Formation, sandstone and conglomeratic sandstone	Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qsh	Shoemaker Gravel	Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qstcq	San Timoteo Beds, quartz-bearing conglomerate	Pleistocene and Pliocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qstr	San Timoteo Beds, Reche Canyon Member, arkosic sandstone	Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qstu	San Timoteo Beds, upper member, sandstone	Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	QTfz	Crushed rock in fault zones	Quaternary and Tertiary
Qss	Coarse-grained formations of Pleistocene age and younger	QTjh	Juniper Hills Formation, undifferentiated	Pleistocene and Pliocene
Qss	Coarse-grained formations of Pleistocene age and younger	QTjha	Juniper Hills Formation, arkosic sandstone unit	Pleistocene and Pliocene
Qss	Coarse-grained formations of Pleistocene age and younger	QTjhb	Juniper Hills Formation, arkosic breccia	Pleistocene and Pliocene

ptype	name	source_ptype	source_name	source_age
Qss	Coarse-grained formations of Pleistocene age and younger	QTjhcs	Juniper Hills Formation, conglomeratic sandstone unit	Pleistocene and Pliocene
Qss	Coarse-grained formations of Pleistocene age and younger	QTjhr	Juniper Hills Formation, red arkose unit	Pleistocene and Pliocene
Qss	Coarse-grained formations of Pleistocene age and younger	QTjhbs	Juniper Hills Formation, sedimentary breccia unit	Pleistocene and Pliocene
Qss	Coarse-grained formations of Pleistocene age and younger	QTjhv	Juniper Hills Formation, volcanic clast unit, conglomerate	Pleistocene and Pliocene
Qss	Coarse-grained formations of Pleistocene age and younger	QTsb	Conglomerate, conglomeratic arkose, and clayey arkose	early Pleistocene and late Miocene
Qsh	Fine-grained formations of Pleistocene age and younger	QTjhc	Juniper Hills Formation, clay-shale unit	Pleistocene and Pliocene
Qsh	Fine-grained formations of Pleistocene age and younger	QTjhf	Juniper Hills Formation, fine-grained unit	Pleistocene and Pliocene
Qsh	Fine-grained formations of Pleistocene age and younger	QTjhp	Juniper Hills Formation, playa deposit unit, clayey siltstone and claystone	Pleistocene and Pliocene
Qsh	Fine-grained formations of Pleistocene age and younger	QTjhs	Juniper Hills Formation, siltstone unit	Pleistocene and Pliocene
Qsh	Fine-grained formations of Pleistocene age and younger	QTpp	Phelan Peak deposits of Weldon (1984), undifferentiated siltstone, claystone	Pleistocene and Pliocene
Qsh	Fine-grained formations of Pleistocene age and younger	QTpp3	Phelan Peak deposits of Weldon (1984), claystone and siltstone	Pleistocene and Pliocene
Tss	Coarse-grained Tertiary age formations	Kcd	Sedimentary rocks of Cosy Dell area, arkosic sandstone and siltstone	Cretaceous
Tss	Coarse-grained Tertiary age formations	Kcdc	Sedimentary rocks of Cosy Dell area, conglomerate	Cretaceous
Tss	Coarse-grained Tertiary age formations	Tav	Anaverde Formation, undifferentiated	Pliocene
Tss	Coarse-grained Tertiary age formations	Tavb	Anaverde Formation, pale tan arkose unit	Pliocene
Tss	Coarse-grained Tertiary age formations	Tavr	Anaverde Formation, red arkose unit	Pliocene
Tss	Coarse-grained Tertiary age formations	Tavw	Anaverde Formation, white arkose unit	Pliocene
Tss	Coarse-grained Tertiary age formations	Tcc	Conglomerate of Crestline	Pliocene
Tss	Coarse-grained Tertiary age formations	Tcd	Conglomerate and sandstone, San Sevaine Canyon area	Pliocene and Miocene
Tss	Coarse-grained Tertiary age formations	Tcf	Conglomerate of Fredalba	Pliocene
Tss	Coarse-grained Tertiary age formations	Tcr	Crowder Formation, arkosic sandstone, conglomerate	Miocene
Tss	Coarse-grained Tertiary age formations	Tcr1	Crowder Formation, arkosic sandstone	Miocene
Tss	Coarse-grained Tertiary age formations	Tcr2	Crowder Formation, lithic arkose, badlands	Miocene

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Tss	Coarse-grained Tertiary age formations	Tcr3	Crowder Formation, arkosic sandstone, conglomerate	Miocene
Tss	Coarse-grained Tertiary age formations	Tcr5	Crowder Formation, pebbly arkose and conglomerate	Miocene
Tss	Coarse-grained Tertiary age formations	Tcu	Conglomerate and arkose, undifferentiated	Pliocene
Tss	Coarse-grained Tertiary age formations	Tcv1	Cajon Valley Formation, arkosic conglomerate and conglomeratic sandstone	Miocene
Tss	Coarse-grained Tertiary age formations	Tcv2	Cajon Valley Formation, conglomerate and conglomeratic sandstone	Miocene
Tss	Coarse-grained Tertiary age formations	Tcv3	Cajon Valley Formation, arkosic conglomerate and conglomeratic sandstone	Miocene
Tss	Coarse-grained Tertiary age formations	Tcv4	Cajon Valley Formation, arkosic conglomerate and conglomeratic sandstone	Miocene
Tss	Coarse-grained Tertiary age formations	Tcv5	Cajon Valley Formation, conglomerate and conglomeratic sandstone	Miocene
Tss	Coarse-grained Tertiary age formations	Tcv5a	Cajon Valley Formation, conglomerate and conglomeratic sandstone	Miocene
Tss	Coarse-grained Tertiary age formations	Tcv6	Cajon Valley Formation, conglomeratic sandstone and sandstone	Miocene
Tss	Coarse-grained Tertiary age formations	Tdc	Duarte conglomerate of Shelton (1946)	Pliocene and Miocene
Tss	Coarse-grained Tertiary age formations	Tflc	Fernando Formation, conglomerate	Pliocene
Tss	Coarse-grained Tertiary age formations	Tfu	Fernando Formation, upper member, sandstone and conglomerate	Pliocene
Tss	Coarse-grained Tertiary age formations	Tfuc	Fernando Formation, conglomerate	Pliocene
Tss	Coarse-grained Tertiary age formations	Tma	Mill Creek Formation of Gibson (1971), arkose unit	Miocene
Tss	Coarse-grained Tertiary age formations	Tmcp	Mill Creek Formation of Gibson (1971), Pelona schist-bearing conglomerate unit	Miocene
Tss	Coarse-grained Tertiary age formations	Tmcv	Mill Creek Formation of Gibson (1971), sandstone and pebble sandstone	Miocene
Tss	Coarse-grained Tertiary age formations	Tms	Mill Creek Formation of Gibson (1971), sandstone unit	Miocene
Tss	Coarse-grained Tertiary age formations	Tpbb	Punchbowl Formation, breccia unit, megabreccia	early Pliocene and late Miocene
Tss	Coarse-grained Tertiary age formations	Tpbd	Punchbowl Formation, diorite clast unit, arkosic sandstone and pebble sandstone	early Pliocene and late Miocene
Tss	Coarse-grained Tertiary age formations	Tpbv	Punchbowl Formation, volcanic clast member, arkosic sandstone, and limestone	early Pliocene and late Miocene

ptype	name	source_ptype	source_name	source_age
Tss	Coarse-grained Tertiary age formations	Tpls	Puente Formation, Soquel and La Vida Members, sandstone and siltstone	Miocene
Tss	Coarse-grained Tertiary age formations	Tpp2	Phelan Peak deposits of Weldon (1984), conglomerate and sandstone	Pliocene
Tss	Coarse-grained Tertiary age formations	Tpsc	Puente Formation, Sycamore Canyon Member, sandstone and conglomerate	early Pliocene and Miocene
Tss	Coarse-grained Tertiary age formations	Tpscc	Puente Formation, Sycamore Canyon Member, conglomerate	early Pliocene and Miocene
Tss	Coarse-grained Tertiary age formations	Tpsq	Puente Formation, Soquel Member, sandstone and silt	Miocene
Tss	Coarse-grained Tertiary age formations	Tpsqc	Puente Formation, Soquel Member, conglomerate	Miocene
Tss	Coarse-grained Tertiary age formations	Tsf	San Francisquito Formation, sandstone and conglomerate	Paleocene
Tss	Coarse-grained Tertiary age formations	Tsfb	San Francisquito Formation, basal boulder conglomerate	Paleocene
Tss	Coarse-grained Tertiary age formations	Tsfc	San Francisquito Formation, conglomerate unit	Paleocene
Tss	Coarse-grained Tertiary age formations	Tsg	Conglomerate, sandstone, and arkose	Miocene
Tss	Coarse-grained Tertiary age formations	Tss	Santa Ana Sandstone	Pliocene and Miocene
Tss	Coarse-grained Tertiary age formations	Tstl	San Timoteo Beds, lower member, sandstone	Pliocene
Tss	Coarse-grained Tertiary age formations	Tsx	Mixed marine and nonmarine sedimentary rocks	Tertiary
Tss	Coarse-grained Tertiary age formations	Tt	Topanga Group, marine sandstone, siltstone, and shale	middle Miocene
Tss	Coarse-grained Tertiary age formations	Ttbp	Topanga Group, Buzzard Peak Conglomerate	middle Miocene
Tss	Coarse-grained Tertiary age formations	Tv	Vaqueros Formation, sandstone	Miocene and Oligocene
Tss	Coarse-grained Tertiary age formations	Tvc	Conglomerate and sandstone, San Sevaine Canyon area	Miocene
Tss	Coarse-grained Tertiary age formations	Tw	Formation of Warm Springs Canyon, sandstone and conglomerate	Miocene
Tsh	Fine-grained Tertiary age formations	Tavc	Anaverde Formation, clay-shale unit	Pliocene
Tsh	Fine-grained Tertiary age formations	Tcr4	Crowder Formation, medium to fine arkosic sandstone, silt and clay	Miocene
Tsh	Fine-grained Tertiary age formations	Tfl	Fernando Formation, siltstone, sandstone, and conglomerate	Pliocene
Tsh	Fine-grained Tertiary age formations	Tmm	Mill Creek Formation of Gibson (1971), mudstone unit	Miocene

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Tsh	Fine-grained Tertiary age formations	Tp	Puente Formation, marine siltstone, shale, and sandstone	Early Pliocene and Miocene
Tsh	Fine-grained Tertiary age formations	Tplv	Puente, Formation, La Vida Member, siltstone	Miocene
Tsh	Fine-grained Tertiary age formations	Tpp1	Phelan Peak deposits of Weldon (1984), claystone and siltstone	Pliocene
Tsh	Fine-grained Tertiary age formations	Tpy	Puente Formation, Yorba Member, siltstone	Miocene
Tsh	Fine-grained Tertiary age formations	Tsfl	San Francisquito Formation, limestone lenses	Paleocene
Tsh	Fine-grained Tertiary age formations	Tsfs	San Francisquito Formation, shale unit	Paleocene
Tv	Tertiary age formations of volcanic origin	Tad	Andesite dikes	Miocene
Tv	Tertiary age formations of volcanic origin	Tal	Andesite dike rocks	Miocene
Tv	Tertiary age formations of volcanic origin	Tb	Basalt dikes	Miocene
Tv	Tertiary age formations of volcanic origin	Td	Dacite dikes	Oligocene
Tv	Tertiary age formations of volcanic origin	Tg	Glendora Volcanics, rhyolite, basalt flows, undifferentiated	Miocene
Tv	Tertiary age formations of volcanic origin	Tga	Glendora Volcanics, andesite flows	Miocene
Tv	Tertiary age formations of volcanic origin	Tgb	Glendora Volcanics, basalt flows	Miocene
Tv	Tertiary age formations of volcanic origin	Tgbt	Glendora Volcanics, tuff and pillow lava	Miocene
Tv	Tertiary age formations of volcanic origin	Tgc	Glendora Volcanics, volcanic conglomerate	Miocene
Tv	Tertiary age formations of volcanic origin	Tgf	Glendora Volcanics, fine-grained andesite	Miocene
Tv	Tertiary age formations of volcanic origin	Tgi	Glendora Volcanics, andesite dikes	Miocene
Tv	Tertiary age formations of volcanic origin	Tgj	Glendora Volcanics, tuff breccia	Miocene
Tv	Tertiary age formations of volcanic origin	Tgr	Glendora Volcanics, rhyolite and dacite flows	Miocene
Tv	Tertiary age formations of volcanic origin	Tgrb	Glendora Volcanics, rhyolite and dacite breccia	Miocene
Tv	Tertiary age formations of volcanic origin	Tmd	Mountain Meadows Dacite	Oligocene
Tv	Tertiary age formations of volcanic origin	Tr	Rhyolite porphyry dikes	Oligocene
Tv	Tertiary age formations of volcanic origin	Tvt	Vasquez Formation, tuffaceous rocks and tuff breccia	early Miocene to late Oligocene
Tv	Tertiary age formations of volcanic origin	Tvv	Vasquez Formation, andesite to basalt, volcanic breccia	early Miocene to late Oligocene
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Cbk	Bonanza King Formation, dolomite and limestone marble	Cambrian
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Cc	Carrara Formation, calcite marble, phyllite, and schist	Cambrian
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	CPrcc	Shay Mountain metamorphic complex of MacColl (1964), biotite schist of Cox Creek	Cambrian and Late Proterozoic

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pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	CPrgsq	Shay Mountain metamorphic complex of MacColl (1964), mixed gneiss, schist quartzite	Cambrian and Late Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	CPrlsm	Shay Mountain metamorphic complex of MacColl (1964), quartzite of Little Shay Mountain	Cambrian and Late Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	CPrqc	Shay Mountain metamorphic complex of MacColl (1964), quartzite and cataclastic rocks	Cambrian and Late Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	CPrsm	Shay Mountain metamorphic complex of MacColl (1964), gneiss	Cambrian and Late Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Cwc	Wood Canyon Formation, quartzite, phyllite, and schist	Cambrian
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Cz	Zabriskie Quartzite	Cambrian
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	dgm	Diorite gneiss and migmatite	Unknown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Ds	Sultan Limestone	Devonian
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	gg	Gneissic granitoid rocks and gneiss	Unknown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	gn	Mixed metamorphic rocks of Ord Mountains area	Unknown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	gnb	Gneiss of Blue Cut area	Unknown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	gnm	Cataclastic gneiss	Unknown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Jcr	Cataclastic rocks	Jurassic

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pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Jsc	Fine-grained rocks of Silver Canyon, metamorphosed mylonite or cataclastic rocks	Jurassic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	KgPz	Intermixed Paleozoic (?) schist and Cretaceous granitic rocks	Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Kpa	Pelona Schist, amphibolite-grade unit	Mesozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Kpb	Pelona Schist, biotite-quartz schist unit	Mesozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Kpg	Pelona Schist, greenstone unit	Mesozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Kpm	Pelona Schist, marble unit	Mesozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Kpq	Pelona Schist, quartzite unit	Mesozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	KPrm	Mylonitic orthogneiss related to Vincent Thrust Fault	Cretaceous and Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Kps	Pelona Schist, muscovite schist unit	Mesozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Kpu	Pelona Schist, undifferentiated	Mesozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	KPzsg	Schist, gneiss, monzogranite, and granodiorite	Cretaceous and Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	KPzst	Schist, gneiss, and tonalite	Cretaceous and Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Mm	Monte Cristo Limestone	Mississippian

ptype	name	source_ptype	source_name	source_age
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	mm	Mixed metamorphic rocks of Ord Mountains area, marble	Unknown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	mmc	Mixed metamorphic rocks of Ord Mountains area, marble and calc-silicates	Unknown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	mms	Mixed metamorphic rocks of Ord Mountains area, marble and schist	Unknown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	mq	Mixed metamorphic rocks of Ord Mountains area, quartzite	Unknown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	ms	Mixed metamorphic rocks of Ord Mountains area, schist dominant	Unknown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	mx	Mixed metamorphic rocks of Ord Mountains area, mixed	Unknown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Mzpr	Gneiss of Pinyon Ridge	Mesozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	MzPrb	Mixed metamorphic and granitic rocks of Big Dalton Canyon	Mesozoic and Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	MzPrd	Gneiss of Devil Canyon	Mesozoic and Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	MzPrl	Mixed granitic rocks, quartzite, and schist of Lizard Springs	Mesozoic and Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	MzPrm	Mixed granitic and metamorphic rocks	Mesozoic and Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	MzPzm	Mixed granitic and metasedimentary rocks, and gneiss	Mesozoic and Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Pbs	Bird Spring Formation	Pennsylvanian

ptype	name	source_ptype	source_name	source_age
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgd	Foliated to gneissic granodiorite	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgm	Medium-grained biotite granite augen gneiss	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgn	Layered gneiss, undifferentiated	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgn1	Layered gneiss	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgn2	Layered gneiss	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgn3	Layered gneiss	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgn4	Layered gneiss	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgn5	Layered gneiss	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgn6	Layered gneiss	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgnd	Dioritic gneiss or amphibolite	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgt	Pelitic gneiss of Troop Peak	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgu	Granulitic gneiss, mylonite, and cataclasite	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Pprm	Granulitic gneiss, mylonite, and cataclasite, retrograde	Proterozoic

ptype	name	source_ptype	source_name	source_age
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prpv	Gneiss of Pleasant View Ridge	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prpva	Gneiss of Pleasant View Ridge	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prsc	Stirling Quartzite, carbonate-rich rocks	Late Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prscq	Stirling Quartzite, carbonate and quartzite member	Late Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prsq	Stirling Quartzite, quartzite member	Late Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prsu	Stirling Quartzite, undifferentiated	Late Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Pza	Amphibolite	Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Pzgs	Metasedimentary schist and gneiss	Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Pzmb	Marble, San Bernardino Mountains	Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Pzmg	Marble, San Gabriel Mountains	Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Pzmp	Marble, Peninsular Ranges	Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Pzqg	Quartzite, San Gabriel Mountains	Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Pzsgp	Biotite schist and gneiss	Paleozoic

ptype	name	source_ptype	source_name	source_age
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	TKtp	Pelona Schist and granodiorite of Telegraph Peak	Oligocene and Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	cgm	Chloritized cataclastic granitic rocks	Unknown
gr	Granitic and other intrusive crystalline rocks of all ages	cru	Crystalline rocks, undifferentiated	Unknown
gr	Granitic and other intrusive crystalline rocks of all ages	grb	Granitic rocks, undifferentiated	Unknown
gr	Granitic and other intrusive crystalline rocks of all ages	grg	Granitic rocks, undifferentiated	Unknown
gr	Granitic and other intrusive crystalline rocks of all ages	Ja	Granodiorite of Arrowhead Peak	Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	Jc	Leucocratic quartz monzonite of Crystal Creek	Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	Jd	Quartz monzodiorite of Dry Canyon	Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	Jgf	Granodiorite and quartz monzonite of Fern Canyon	Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	Jhc	Quartz monzodiorite of Hutak Canyon	Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	Jrr	Biotite quartz monzodiorite of Redonda Ridge	Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	Js	Leucocratic hornblende syenite	Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	JTRgb	Gabbro and pyroxenite	Jurassic and Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	Jwm	Monzodiorite of White Mountain	Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	Kao	Granodiorite of Angeles Oaks	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kaw	Alaskite of western Granite Mountains	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kbf	Monzogranite of Burnt Flats	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kbfg	Box Springs plutonic complex, biotite, granodiorite and tonalite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kbft	Box Springs plutonic complex, biotite-hornblende tonalite	Cretaceous

ptype	name	source_ptype	source_name	source_age
gr	Granitic and other intrusive crystalline rocks of all ages	Kbg	Box Springs plutonic complex, porphyritic granodiorite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kbgt	Box Springs plutonic complex, heterogeneous granodiorite and tonalite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kbhg	Box Springs plutonic complex, heterogeneous porphyritic granodiorite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kbm	Heterogeneous, leucocratic biotite monzogranite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kbp	Monzogranite of Butler Peak	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kbt	Box Springs plutonic complex, biotite tonalite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kcc	Monzogranite of City Creek	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kch	Charnockite, hypersthene-bearing granite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kcm	Tonalite of Circle Mountain	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kcr	Monzogranite of Coxey Road	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kcs	Monzogranite of Cloudburst Summit	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kcsl	Monzogranite of Cloudburst Summit, leucocratic unit	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kd	Diorite, undifferentiated	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kdc	Granodiorite of Dorr Canyon	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kdd	Deer diorite of Alf (1948)	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kdh	Monzogranite of Devils Hole	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kdp	Monzogranite of Deadman Point	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Keh	Tonalite of Elephant Hill	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kg	Granitic dikes	Cretaceous

ptype	name	source_ptype	source_name	source_age
gr	Granitic and other intrusive crystalline rocks of all ages	Kgb	Gabbro, undifferentiated	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgbh	Biotite-hornblende granodiorite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgc	Mylonitized leucogranite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgd	Granodiorite, undifferentiated	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgdb	Biotite granodiorite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgdc	Biotite granodiorite, Cajon area	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgdt	Granodiorite and tonalite, undifferentiated	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgl	Mixed leucocratic and granitic rocks	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgp	Tonalite of Ganesha Park	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgu	Granite, undifferentiated	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kh	Granodiorite of Hanna Flat	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Khc	Granodiorite of Hook Creek	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Khl	Heterogeneous leucocratic granitic rocks	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Khr	Hybrid rocks	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kht	Heterogeneous tonalitic rocks	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	KJc	Quartz monzodiorite of Crestline	Cretaceous and Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	KJdd	Quartz monzonite of Dawn O'Day Canyon	Cretaceous and Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	KJdg	Mixed diorite and gabbro	Cretaceous and Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	KJgm	Mixed granitic rocks, gneiss, and quartzite	Cretaceous and Jurassic

ptype	name	source_ptype	source_name	source_age
gr	Granitic and other intrusive crystalline rocks of all ages	KJhb	Hornblende-biotite granodiorite	Cretaceous and Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	KJhs	Mixed granitic rocks of Hopi Spring	Cretaceous and Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	KJos	Mixed granitic rocks of Oak Spring	Cretaceous and Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	KJqd	Quartz-bearing diorite	Cretaceous and Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	KJsc	Quartz diorite of Sand Canyon	Cretaceous and Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	KJsp	Mixed granitic rocks of South Peak	Cretaceous and Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	KJta	Tonalite of Ord Mountains	Cretaceous and Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	Kk	Monzogranite of Keller Peak	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kkc	Monzogranite of Kinley Creek	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Klg	Leucocratic granite dikes	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Klu	Leucocratic granitic rocks	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Klv	Heterogeneous granitic rocks of La Verne area	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kmbb	Biotite monzogranite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kmc	Monzogranite of Malony Creek	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kmg	Monzogranite and granodiorite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kmgt	Monzogranite and tonalite, undifferentiated	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kml	Mixed mafic and leucocratic granitic rocks	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kmm	Leucocratic muscovite monzogranite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kms	Monzogranite of Muddy Spring	Cretaceous

ptype	name	source_ptype	source_name	source_age
gr	Granitic and other intrusive crystalline rocks of all ages	Kmx	Mixed granitic rocks of Heaps Peak	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kpbm	Porphyritic biotite monzogranite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kpf	Monzogranite of Punchbowl Fault area	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kr	Rattlesnake Mountain Pluton of MacColl (1964)	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Krl	Leucocratic rocks of Rattlesnake Mountain Pluton of MacColl (1964)	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Krp	Rattlesnake Mountain Pluton of MacColl (1964)	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Ksa	Quartz diorite of Mount San Antonio	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Ksgr	Tonalite of San Gabriel Reservoir	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kss	Tonalite of San Sevaine Lookout	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kssg	Mixed tonalite of San Sevaine Lookout and gneiss	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kssm	Mylonitized tonalite of San Sevaine Lookout	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kssm1	Mylonitized tonalite of San Sevaine Lookout	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kt	Tonalite, undifferentiated	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	KTRmm	Mixed monzogranite and leucocratic monzonite	Cretaceous and Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	Kwc	Granodiorite of Willow Creek	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kwcy	Monzogranite of Willow Canyon	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Mzc	Diorite of Cram Peak	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzfg	Foliated granitoid rocks	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzga	Orthogneiss of Alger Creek	Mesozoic

San Bernardino Geologic Labels

ptype	name	source_ptype	source_name	source_age
gr	Granitic and other intrusive crystalline rocks of all ages	Mzgd	Gneissic granodiorite of Holcomb Ridge	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzggm	Foliated gabbro, granodiorite, and monzogranite	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzgr	Biotite monzogranite of Big John Peak	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzgu	Granitoid rocks	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzgy	Mesocratic granitoid rocks	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzh	Monzogranite and granodiorite of Holcomb Ridge	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzhg	Heterogeneous granitic rocks, San Gabriel Mountains	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzir	Inclusion-rich granitoid rocks	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzmg	Deformed granitic rocks of Transverse Ranges Province	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzmx	Mixed mafic rocks and monzogranite	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzog	Heterogeneous hornblende-biotite orthogneiss	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzsl	Mixed granitic rocks of Silverwood Lake	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzug	Mesozoic granitic rocks, undivided	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Pra	Anorthosite	Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Prgc	Coarse-grained biotite granite augen gneiss	Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Tdg	Olivine diabase and gabbro	Miocene
gr	Granitic and other intrusive crystalline rocks of all ages	Tgh	Hypabyssal granitic rocks	Oligocene
gr	Granitic and other intrusive crystalline rocks of all ages	Tgry	Granodiorite, Yucaipa area	Oligocene
gr	Granitic and other intrusive crystalline rocks of all ages	Tgtp	Granodiorite of Telegraph Peak	Oligocene

ptype	name	source_ptype	source_name	source_age
gr	Granitic and other intrusive crystalline rocks of all ages	TKmg	Mafic granodiorite	Tertiary
gr	Granitic and other intrusive crystalline rocks of all ages	TRa	Alaskite of Sunset Cove	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRcp	Monzonite of Cedarpines Park	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRdg	Diorite and gabbro of Bare Mountain	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRf	Monzonite of Fawnskin	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRfl	Leucocratic monzonite of Fawnskin	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRfp	Monzonite of Fifteenmile Point	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRh	Monzonite of Hill 4001	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRlb	Mount Lowe Intrusive Suite, equigranular leucocratic biotite quartz monzonite	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRlh	Mount Lowe Intrusive Suite, hornblende-biotite quartz monzonite	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRll	Mount Lowe Intrusive Suite, porphyritic biotite quartz monzonite	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRlm	Fine-grained leucocratic monzonite	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRlq	Mount Lowe Intrusive Suite, porphyritic monzonite and quartz monzodiorite	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRlu	Mount Lowe Intrusive Suite, undifferentiated	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRm	Monzogranite of Manzanita Springs	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRrl	Monzonite of Rabbit Lake	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	TRsp	Quartz monzonite of Strawberry Peak	Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	Ttd	Hypabyssal dikes	Oligocene