

## San Gabriel Hydrologic Unit Geologic Label

ptype	name	source_ptype	source_name	source_age
af	Artificial Fill	af	artificial fill	late Holocene
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	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	Qsw	Very young slope-wash deposits	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	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	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	Qyc?	Young colluvial deposits, uncertain	Holocene and late Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qypt	Young peat deposits	Holocene
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

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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	Landslide deposits	Holocene and Pleistocene
Qls	Landslide Deposits; may include debris flows and older landslides	Qls?	Landslide deposits	Holocene and Pleistocene
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
Qls	Landslide Deposits; may include debris flows and older landslides	Qyls?	Young landslide deposits, uncertain	Holocene and late Pleistocene
Qb	Beach Deposits	Qb	Beach deposits	late Holocene
Qw	Alluvial Wash Deposits	Qw	Active channel and wash deposits	late Holocene
Qw	Alluvial Wash Deposits	Qw1	Very young wash deposits, Unit 1	Holocene
Qw	Alluvial Wash Deposits	Qw2	Very young wash deposits, Unit 2	late Holocene
Qf	Alluvial Fan Deposits	Qf	Alluvial fan deposits	late Holocene
Qf	Alluvial Fan Deposits	Qf1	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	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
Ql	Lacustrine, Playa and Estuarine (Paralic) Deposits	Ql	Very young lacustrine deposits	late Holocene
Ql	Lacustrine, Playa and Estuarine (Paralic) Deposits	Qpe	Paralic estuarine deposits	late Holocene
Qyw	Young Alluvial Wash Deposits	Qyw	Young wash deposits	Holocene and late Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyf	Young alluvial fan deposits, undivided	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	Holocene to late Pleistocene

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Qyf	Young Alluvial Fan Deposits	Qyfa	Young alluvial fan and valley deposits, sand	Holocene and late Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyfc	Young alluvial fan and valley deposits, clay	Holocene and late Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyfs	Young alluvial fan and valley deposits, silt	Holocene and late Pleistocene
Qya	Young Alluvial Valley Deposits	Qya	Young alluvial flood-plain deposits	Holocene and late Pleistocene
Qya	Young Alluvial Valley Deposits	Qya1	Young alluvium, unit 1	late Pleistocene
Qya	Young Alluvial Valley Deposits	Qya2	Young alluvium, unit 2	late Pleistocene
Qyl	Young Lacustrine, Playa and Estuarine (Paralic) Deposits	Qype	Young paralic estuarine deposits	Holocene and late Pleistocene
Qof	Old Alluvial Fan Deposits	Qof	Old alluvial fan deposits, undivided	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 Pleistocene
Qof	Old Alluvial Fan Deposits	Qof3	Old alluvial fan deposits, unit 3	late Pleistocene
Qof	Old Alluvial Fan Deposits	Qof4	Old alluvial fan deposits, unit 4	late Pleistocene
Qof	Old Alluvial Fan Deposits	Qofa	Old alluvial fan and valley deposits, sand	late to middle Pleistocene
Qof	Old Alluvial Fan Deposits	Qofc	Old alluvial fan and valley deposits, clay	late to middle Pleistocene
Qof	Old Alluvial Fan Deposits	Qofs	Old alluvial fan and valley deposits, silt	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa	Old alluvial flood-plain deposits, undivided	late Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa1	Old alluvium, unit 1	middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa2	Old alluvium, unit 2	late Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa3	Old alluvium, unit 3	late Pleistocene
Qot	Old Terrace Deposits	Qm1	Marine terrace deposits	Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop	Old paralic deposits, undivided	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qopa	Old paralic deposits, sand	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qopc	Old paralic deposits, clay	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qops	Old paralic deposits, silt	late to middle Pleistocene
Qvof	Very Old Alluvial Fan Deposits	Qvof	Very old alluvial-fan deposits	middle to early Pleistocene

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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
Qvoa	Very Old Alluvial Valley Deposits	Qvoa	Very old alluvium, undivided	middle to early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa1	Very old alluvium, unit 1	early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa2	Very old alluvium, unit 2	early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa3	Very old axial-channel deposits, Unit 3	middle to early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa4	Very old axial-channel deposits, Unit 4	middle to early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa5	Very old axial-channel deposits, Unit 5	middle to early 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	Qsp	San Pedro Formation, marine sandstone	Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qsp2	San Pedro Formation, sandstone and conglomerate	Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qsp4	San Pedro Formation, sandstone and conglomerate	Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	QTfz	Crushed rock in fault zones	Quaternary and Tertiary
Qsh	Fine-grained formations of Pleistocene age and younger	Qlh	La Habra Formation, mudstone, sandstone, and conglomerate	Pleistocene
Qsh	Fine-grained formations of Pleistocene age and younger	Qch	Coyote Hills Formation, 60% mudstone, 40% sandstone	Pleistocene
Qsh	Fine-grained formations of Pleistocene age and younger	Qsp1	San Pedro Formation, siltstone and clay	Pleistocene
Qsh	Fine-grained formations of Pleistocene age and younger	Qsp3	San Pedro Formation, siltstone and clay	Pleistocene
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	Tcga	Conglomerate of Arlington Mountain	Paleogene
Tss	Coarse-grained Tertiary age formations	Tch	Sandstone and conglomerate in southeastern Chino Hills	early Pliocene and Miocene

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Tss	Coarse-grained Tertiary age formations	Tdc	Duarte conglomerate of Shelton (1946)	Pliocene and Miocene
Tss	Coarse-grained Tertiary age formations	Tfl?	Fernando Formation, lower member, silty sandstone and siltstone, conglomerate	Pliocene
Tss	Coarse-grained Tertiary age formations	Tflc	Fernando Formation, conglomerate	Pliocene
Tss	Coarse-grained Tertiary age formations	Tfu	Fernando Formation, upper member	Pliocene
Tss	Coarse-grained Tertiary age formations	Tfuc	Fernando Formation, conglomerate	Pliocene
Tss	Coarse-grained Tertiary age formations	Tfuf	Fernando Formation, fossiliferous sandstone	Pliocene
Tss	Coarse-grained Tertiary age formations	Tpbd	Punchbowl Formation, diorite clast unit, arkosic sandstone and pebble sandstone	late Miocene
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	Tps	Puente Formation, Soquel Member	late Miocene
Tss	Coarse-grained Tertiary age formations	Tpsc	Puente Formation, Sycamore Canyon Member	early Pliocene and Miocene
Tss	Coarse-grained Tertiary age formations	Tpsc	Puente Formation, Sycamore Canyon Member	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	Tpss	Puente Formation, sandstone	late Miocene
Tss	Coarse-grained Tertiary age formations	Tpyc	Puente Formation, Yorba Member, conglomerate	Miocene
Tss	Coarse-grained Tertiary age formations	Ts	Sespe Formation, non-marine conglomerate, sandstone	early Miocene, Oligocene, and late Eocene
Tss	Coarse-grained Tertiary age formations	Tsa	Santiago Formation, sandstone and conglomerate	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tsf	San Francisquito Formation, sandstone and conglomerate	Paleocene
Tss	Coarse-grained Tertiary age formations	Tsi	Silverado Formation, sandstone, siltstone, and conglomerate	Paleocene
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	Ttcg	Topanga Group, conglomerate	middle Miocene
Tss	Coarse-grained Tertiary age formations	Ttss	Topanga Canyon Formation, sandstone	middle Miocene

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Tss	Coarse-grained Tertiary age formations	Tv	Vaqueros Formation, sandstone	early Miocene, Oligocene, and late Eocene
Tss	Coarse-grained Tertiary age formations	Tvs	Vaqueros and Sespe Formations, undifferentiated	early Miocene, Oligocene, and late Eocene
Tsh	Fine-grained Tertiary age formations	Tfl	Fernando Formation, lower member	Pliocene
Tsh	Fine-grained Tertiary age formations	Tp	Puente Formation, marine siltstone, shale, and sandstone	early Pliocene and Miocene
Tsh	Fine-grained Tertiary age formations	Tpds	Puente Formation, diatomaceous shale	late Miocene
Tsh	Fine-grained Tertiary age formations	Tplv	Puente Formation, La Vida Member	late Miocene
Tsh	Fine-grained Tertiary age formations	Tpp1	Phelan Peak deposits of Weldon (1984), claystone and siltstone	Pliocene
Tsh	Fine-grained Tertiary age formations	Tpsh	Puente Formation, La Vida Member, shale	Miocene
Tsh	Fine-grained Tertiary age formations	Tpsl	Puente Formation, siltstone and very fine sandstone	late Miocene
Tsh	Fine-grained Tertiary age formations	Tpy	Puente Formation, Yorba Member	late Miocene
Tsh	Fine-grained Tertiary age formations	Tsfs	San Francisquito Formation, shale unit	Paleocene
Tsh	Fine-grained Tertiary age formations	Ttsl	Topanga Canyon Formation, siltstone, sandstone and siliceous shale	middle Miocene
Tv	Tertiary age formations of volcanic origin	Tad	Andesite dikes	Miocene
Tv	Tertiary age formations of volcanic origin	Tb	Basalt dikes	Miocene
Tv	Tertiary age formations of volcanic origin	Td	Dikes of basaltic composition	middle to late Tertiary
Tv	Tertiary age formations of volcanic origin	Td1	Dikes of basaltic composition	middle to late Tertiary
Tv	Tertiary age formations of volcanic origin	Td2	Dikes of basaltic composition	middle to late Tertiary
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

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Tv	Tertiary age formations of volcanic origin	Tvem	El Modeno Volcanics, undifferentiated	middle Miocene
Tv	Tertiary age formations of volcanic origin	Tvema	El Modeno Volcanics, andesite	middle Miocene
Tv	Tertiary age formations of volcanic origin	Tvemb	El Modeno Volcanics, basalt	middle Miocene
Tv	Tertiary age formations of volcanic origin	Tvent	El Modeno Volcanics, tuff and breccia	middle Miocene
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kl	Ladd Formation, undifferentiated	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Klbc	Ladd Formation, Baker Canyon Conglomerate	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Klhsc	Ladd Formation, Holz Sandstone and Conglomerate	Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Ktr	Trabuco Formation, nonmarine conglomerate, sandstone, and siltstone	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Ktrl	Trabuco Formation, lower unit, fanglomerate	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Ktru	Trabuco Formation, upper unit, conglomerate	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kwl	Williams and Ladd Formations, undifferentiated	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kwps	Williams Formation, Pleasant Sandstone Member	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kwps?	Williams Formation, conglomeratic sandstone, uncertain	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kwsr	Williams Formation, Shultz Ranch Member, sandstone and conglomerate	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kwsr?	Williams Formation, Shultz Ranch Member, sandstone and conglomerate, uncertain	Late Cretaceous
Ksh	Fine-grained Cretaceous age formations of sedimentary origin	Kc	Carbonate-silicate rock	Cretaceous
Ksh	Fine-grained Cretaceous age formations of sedimentary origin	Klhs	Ladd Formation, Holz Shale	Cretaceous
Kv	Cretaceous age formations of volcanic origin	Kvsp	Santiago Peak Volcanics	Cretaceous
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	dgn	Diorite gneiss	pre-Cretaceous
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	f	Franciscan rocks	Mesozoic

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pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	ggn	Gneiss rocks, granodiorite gneiss	Cretaceous
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Jbc	Bedford Canyon Formation, undifferentiated	Jurassic
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	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	m2	Mylonite, Vincent Thrust	Uncertain
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	m3	Black Belt Mylonite, metamorphic	Uncertain
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	m4b	High-grade metamorphic	Uncertain
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	mg	Granitic-metamorphic complex	Precambrian

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pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	mgf	Interlayered gneiss and schist	Precambrian
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	mm	Mixed metamorphic rocks	Unkown
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	mp	Metasedimentary rock	Precambrian
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	ms	Metasedimentary quartzite, phyllite and schist	Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	ms?	Metasedimentary quartzite, phyllite and schist	Paleozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	msl	Siliceous metamorphic rocks	Precambrian
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	MzPzm	Mixed granitic and metasedimentary rocks, and gneiss	Mesozoic and Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Pgn	Gneiss, quartz feldspar layers	Proterzoic, Precambrian
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Pmgn	Mendenhall Gneiss	Proterozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Prgd	Foliated to gneissic granodiorite	Proterozoic

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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	Prm	Granulitic gneiss, mylonite, and cataclasite, retrograde	Proterozoic
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

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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	Pzqg	Quartzite, San Gabriel Mountains	Paleozoic
sp	Serpentinite of all ages	Ks	Serpentinite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	ap	Aplite dike, quartzite feldspar aggregate	Cretaceous and older
gr	Granitic and other intrusive crystalline rocks of all ages	cc	Cataclastic rock	Mesozoic
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	di	Mafic dike rock, dioritic	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	ga	Alaskite	Unknown
gr	Granitic and other intrusive crystalline rocks of all ages	gba	Gabbro- anorthosite	Precambrian
gr	Granitic and other intrusive crystalline rocks of all ages	gr	Granite, leucocratic plutonic rocks, quartz monzonite	early Cretaceous to late Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	grd	Granitic rocks NE of San Gabriel Fault	early Cretaceous to late Jurassic
gr	Granitic and other intrusive crystalline rocks of all ages	grs+m	Granitic rocks with inclusions of metamorphics	Cretaceous and Precambrian
gr	Granitic and other intrusive crystalline rocks of all ages	hdg	Hornblende diorite gabbro	Mesozoic and older
gr	Granitic and other intrusive crystalline rocks of all ages	hdg?	Hornblende diorite gabbro	Mesozoic and older
gr	Granitic and other intrusive crystalline rocks of all ages	hdr	Coarse grained hornblende diorite	Paleozoic
gr	Granitic and other intrusive crystalline rocks of all ages	hdw	Medium grained hornblende diorite	Paleozoic

<b>ptype</b>	<b>name</b>	<b>source_ptype</b>	<b>source_name</b>	<b>source_age</b>
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	JTRgb	Gabbro and pyroxenite	Jurassic and Triassic
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	Kdc	Granodiorite of Dorr Canyon	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Keg	Echo Granite	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	Kgl	Mixed leucocratic and granitic rocks	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kglm	Mixed anorthosite and granite	Cretaceous and Precambrian
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	Kgr	Granitic rocks	Late 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	Klv	Heterogeneous granitic rocks of La Verne area	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	Kpf	Monzogranite of Punchbowl Fault area	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

<b>ptype</b>	<b>name</b>	<b>source_ptype</b>	<b>source_name</b>	<b>source_age</b>
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	Kvspi	Intrusive rocks associated with Santiago Peak Volcanics	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	lgd	Lowe Granodiorite, undivided leucocratic	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	lgdd	Lowe Granodiorite, hornblende-rich gneissoid facies	Mesozoic, Triassic
gr	Granitic and other intrusive crystalline rocks of all ages	lgdh	Lowe Granodiorite, hornblende granodiorite, small phenocrysts	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	lgdp	Lowe Granodiorite, porphyritic	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	mh	Diorite	Precambrian, Paleozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzdbh	Biotite-hornblende diorite	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Mzdhb	Granitic rocks	late Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Mzg	Granitic complex	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	Mzhd	Granitic rocks	late Cretaceous
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	Mzog	Heterogeneous hornblende-biotite orthogneiss	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Pagb	Anorthosite with gabbro	Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Pan	Anorthosite, medium to coarse grain plagioclase rock	Proterozoic

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gr	Granitic and other intrusive crystalline rocks of all ages	Pf gb	Ferro-gabbro	Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Ph gb	Hornblende gabbro	Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Pj gb	Jotunite-norite-gabbro-diorite	Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Pl gb	Leucogabbro	Proterozoic
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	Psy	Syenite	Proterozoic
gr	Granitic and other intrusive crystalline rocks of all ages	qd	Quartz diorite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	qd?	Quartz diorite	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	qd+m3	Quartz diorite and biotite gneiss	Cretaceous and older
gr	Granitic and other intrusive crystalline rocks of all ages	qd+m4a	Quartz diorite and hornblende orthogneiss	Cretaceous and older
gr	Granitic and other intrusive crystalline rocks of all ages	qd2	Quartz diorite and hornblende orthogneiss	Cretaceous and older
gr	Granitic and other intrusive crystalline rocks of all ages	qm	Quartz diorite, massive	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	qm1	Leucocratic quartz monzonite	Paleozoic and Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Qmc	Cataclastic quartz monzonite	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	qmc	Cataclastic quartz monzonite	Paleozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Tgtp	Granodiorite of Telegraph Peak	Oligocene
gr	Granitic and other intrusive crystalline rocks of all ages	Tiemd	Volcanic intrusive rocks associated with El Modeno Volcanics, diabase	middle Miocene
gr	Granitic and other intrusive crystalline rocks of all ages	TRdg	Diorite and gabbro of Bare Mountain	Triassic

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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	TRlg	Mount Lowe Intrusive Suite, undivided	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	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	xqd	Quartz diorite	Cretaceous