

San Diego Geologic Labels

ptype	name	source_ptype	source_name	source_age
af	Artificial Fill	af	Artificial fill	late Holocene
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
Qls	Landslide Deposits; may include debris flows and older landslides	Qls	Landslide deposits, undivided	Holocene and Pleistocene
Qls	Landslide Deposits; may include debris flows and older landslides	Qls and fault zone	Landslide deposits, undivided, and fault zone	Holocene and Pleistocene
Qb	Beach Deposits	Qmb	Marine beach deposits	late Holocene
Qw	Alluvial Wash Deposits	Qw	Wash deposits	late Holocene
Ql	Lacustrine, Playa and Estuarine (Paralic) Deposits	Qpe	Paralic estuarine deposits	late Holocene
Qya	Young Alluvial Valley Deposits	Qya	Young alluvial flood-plain deposits	Holocene and late Pleistocene
Qya	Young Alluvial Valley Deposits	Qya and fault zone	Young alluvial flood-plain deposits and fault zone	Holocene and late Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa	Old alluvial flood-plain deposits, undivided	late to middle 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	Qop2-4	Old paralic deposits, Units 2-4, undivided	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop6	Old paralic deposits, Unit 6	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop6 and fault zone	Old paralic deposits, Unit 6 and fault zone	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop7	Old paralic deposits, Unit 7	late to middle Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa	Very old alluvial deposits	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop	Very old paralic deposits, undivided	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop1	Very old paralic deposits, Unit 1	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop10	Very old paralic deposits, Unit 10	middle to early Pleistocene

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Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop10 and fault zone	Very old paralic deposits, Unit 10 and fault zone	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop10a	Very old paralic deposits, Unit 10a	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop11	Very old paralic deposits, Unit 11	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop11 and fault zone	Very old paralic deposits, Unit 11 and fault zone	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop11a	Very old paralic deposits, Unit 11a	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop12	Very old paralic deposits, Unit 12	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop13	Very old paralic deposits, Unit 13	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop2	Very old paralic deposits, Unit 2	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop3	Very old paralic deposits, Unit 3	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop4	Very old paralic deposits, Unit 4	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop5	Very old paralic deposits, Unit 5	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop6	Very old paralic deposits, Unit 6	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop7	Very old paralic deposits, Unit 7	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop8	Very old paralic deposits, Unit 8	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop8a	Very old paralic deposits, Unit 8a	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop9	Very old paralic deposits, Unit 9	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop9a	Very old paralic deposits, Unit 9a	middle to early Pleistocene
Tss	Coarse-grained Tertiary age formations	Td+Tf	Delmar and Friars Formations, undivided	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tf	Friars Formation, nonmarine and lagoonal sandstone and claystone	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tmsc	Mount Soledad Formation, cobble conglomerate	middle Eocene

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Tss	Coarse-grained Tertiary age formations	Tmss	Mount Soledad Formation, sandstone	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tmv	Mission Valley Formation, marine and nonmarine sandstone	middle Eocene
Tss	Coarse-grained Tertiary age formations	To	Otay Formation, arkosic sandstone	late Oligocene
Tss	Coarse-grained Tertiary age formations	Tp	Pomerado Conglomerate	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tpm	Pomerado Conglomerate, Miramar Sandstone Member	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tsc	Scripps Formation, sandstone with conglomerate interbeds	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tsc and fault zone	Scripps Formation and fault zone	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tscu	Scripps Formation, tongue in Carroll Canyon	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tsd	San Diego Formation, undivided	early Pleistocene and late Pliocene
Tss	Coarse-grained Tertiary age formations	Tsd and fault zone	San Diego Formation, undivided, and fault zone	early Pleistocene and late Pliocene
Tss	Coarse-grained Tertiary age formations	Tsdcg	San Diego Formation, pebble and cobble conglomerate	early Pleistocene and late Pliocene
Tss	Coarse-grained Tertiary age formations	Tsdss	San Diego Formation, fossiliferous marine sandstone	early Pleistocene and late Pliocene
Tss	Coarse-grained Tertiary age formations	Tst	Stadium Conglomerate	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tt	Torrey Sandstone	middle Eocene
Tsh	Fine-grained Tertiary age formations	Ta	Ardath Shale	middle Eocene
Tsh	Fine-grained Tertiary age formations	Ta and fault zone	Ardath Shale and fault zone	middle Eocene
Tsh	Fine-grained Tertiary age formations	Td	Delmar Formation, sandy claystone interbedded with sandstone	middle Eocene
Tv	Tertiary age formations of volcanic origin	Tba	Basaltic-andesite dike	Miocene
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kcc	Cabrillo Formation, cobble conglomerate facies	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kcs	Cabrillo Formation, sandstone facies	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kcs and fault zone	Cabrillo Formation, sandstone facies, and fault zone	Late Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kl	Lusardi Formation	Late Cretaceous
Ksh	Fine-grained Cretaceous age formations of sedimentary origin	Kp	Point Loma Formation	Late Cretaceous

ptype	name	source_ptype	source_name	source_age
Ksh	Fine-grained Cretaceous age formations of sedimentary origin	Kp and fault zone	Point Loma Formation and fault zone	Late Cretaceous
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Mzu	Metasedimentary and metavolcanic rocks, undivided (Note: Label was changed to Kv in places for edge match with El Cajon quadrangle)	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Kd	Diorite, undivided	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgd	Granodiorite, undivided	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgh	Hypabyssal rocks, undivided	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgu	Granodiorite and tonalite, undivided	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kt	Tonalite, undivided	mid-Cretaceous