

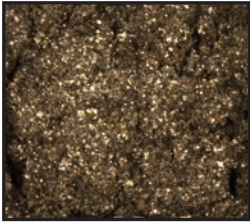
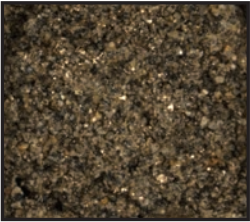
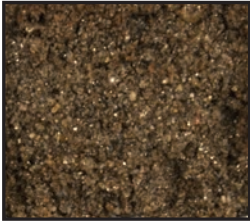

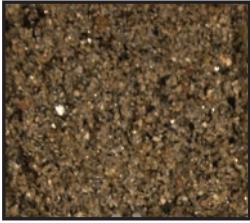

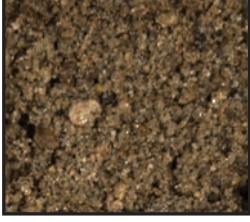
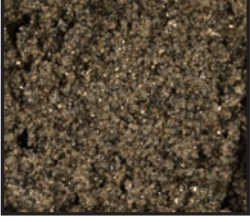

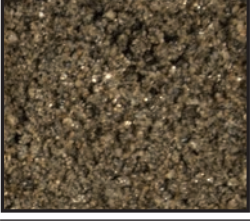


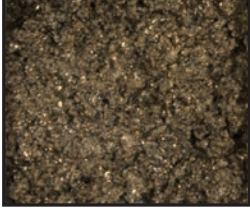
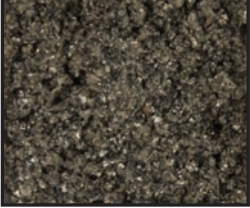
Depth (feet) and description	Depth (feet) and description
 <p>10: Sand (S); fine to medium sand with trace coarse sand; well to very well sorted; angular to subangular; light olive brown (2.5Y 5/3); <i>very micaceous (phlogopite); quartz dominant with minor feldspar and trace mafics.</i></p>	 <p>80: Sand (S); medium to very coarse sand with trace granules to small pebbles; well to very well sorted; angular to subangular; light olive brown (2.5Y 5/3); <i>very micaceous (phlogopite); mafic rich; weathered diorite.</i></p>
 <p>20: Sandy gravel (sG); granules to medium pebbles with medium to very coarse sand; very poorly sorted; angular to subrounded; light olive brown (2.5Y 5/3); <i>micaceous (phlogopite).</i></p>	 <p>85: No shaker sample collected; <i>core 1, no recovery.</i></p>
 <p>30: Gravelly sand (gS); medium to very coarse sand with granules to medium pebbles; very poorly sorted; subangular to rounded; light olive brown (2.5Y 5/3); <i>micaceous (phlogopite).</i></p>	 <p>90: Sand (S); medium to very coarse sand with trace granules to small pebbles; well to very well sorted; angular to subangular; light olive brown (2.5Y 5/3); <i>very micaceous (phlogopite); mafic rich; weathered diorite.</i></p>
 <p>40: Slightly gravelly sand ((g)S); medium to very coarse sand with granules to small pebbles; poorly sorted; angular to subrounded; light olive brown (2.5Y 5/3); <i>micaceous; minor mafics.</i></p>	 <p>100: Sand (S); medium to very coarse sand with trace granules to medium pebbles; well to very well sorted; angular to subrounded; dark grayish brown (2.5Y 4/2); <i>very micaceous (phlogopite); mafic rich; weathered diorite.</i></p>
 <p>50: Sand (S); medium to very coarse sand with trace granules; well to very well sorted; angular to subrounded; grayish brown (2.5Y 5/2); <i>micaceous; mafic rich.</i></p>	 <p>110: Slightly gravelly sand ((g)S); fine to very coarse sand with granules to medium pebbles and trace silt; very poorly sorted; subangular to rounded; olive (5Y 4/3); <i>micaceous (phlogopite); mafic rich; weathered diorite.</i></p>
 <p>60: Sand (S); medium to very coarse sand with trace granules to small pebbles; well to very well sorted; angular to subangular; grayish brown (2.5Y 5/2); <i>very micaceous (phlogopite); mafic rich; weathered diorite.</i></p>	 <p>120: Slightly gravelly sand ((g)S); fine to very coarse sand with granules; poorly to moderately sorted; angular to subrounded; olive gray (5Y 5/2); <i>micaceous (phlogopite/biotite); mafic rich; weathered diorite.</i></p>
 <p>70: Slightly gravelly silty sand ((g)mS); medium to very coarse sand with silt and granules to small pebbles; very poorly sorted; angular to subangular; light olive brown (2.5Y 5/3); <i>very micaceous (phlogopite); mafic rich; weathered diorite.</i></p>	 <p>130: Sandy gravel (sG); granules to small pebbles with medium to very coarse sand; very poorly sorted; very angular; salt and pepper; <i>micaceous; mafic rich; weathered diorite bedrock.</i></p>

Figure 17C. Lithologic descriptions and photographs of **shaker** drill cuttings collected from the borehole at 16 USGS multiple-depth, monitoring-well sites in San Diego County, California, 2003–2017: (A) SDCD; (B) SDSY; **(C) SDLH**; (D) SDAQ; (E) SDGP; (F) SDBP; (G) SDHF; (H) SDEP; (I) SDNB; (J) SDSW; (K) SDMC; (L) SLDL; (M) SDCC; (N) SDOR; (O) SDOT; and (P) SDBW.

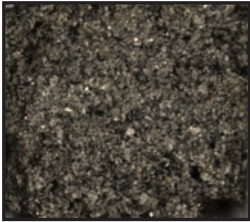
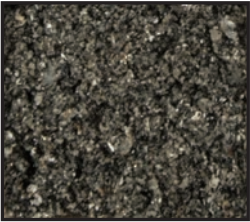
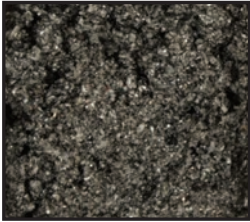
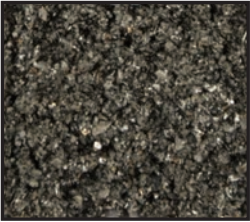
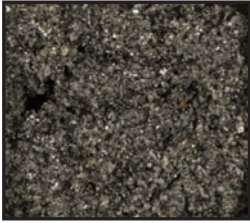

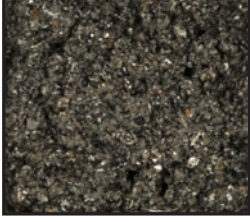

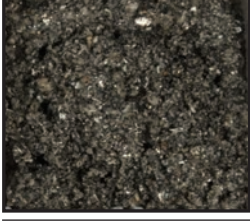
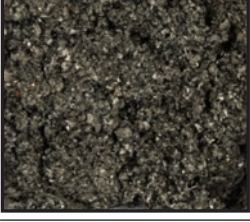



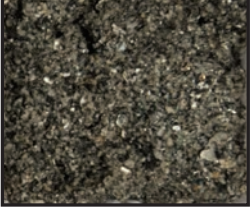
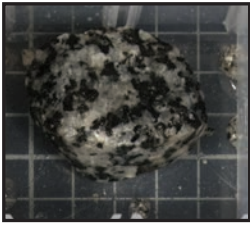
Depth (feet) and description	Depth (feet) and description
 <p>140: Gravelly sand (gS); fine to very coarse sand with granules to small pebbles; very poorly sorted; very angular; salt and pepper; <i>micaceous (biotite)</i>; mafic rich; diorite.</p>	 <p>210: Sand (S); fine to very coarse sand with trace granules to medium pebbles; poorly to moderately sorted; very angular; salt and pepper; <i>micaceous (biotite and phlogopite)</i>; mafic rich; diorite.</p>
 <p>150: Sand (S); fine to very coarse sand with trace granules; poorly to moderately sorted; very angular to rounded; salt and pepper; <i>micaceous (biotite)</i>; diorite.</p>	 <p>220: Slightly gravelly sand ((g)S); fine to very coarse sand with granules to small pebbles; very poorly to poorly sorted; very angular; salt and pepper; <i>micaceous (biotite, phlogopite, and trace chlorite)</i>; mafic rich; diorite.</p>
 <p>160: Sand (S); fine to very coarse sand with trace granules to small pebbles; poorly to moderately sorted; very angular; salt and pepper; <i>micaceous (biotite with trace chlorite)</i>; mafic rich (trace clinopyroxene); diorite.</p>	 <p>230: Slightly gravelly sand ((g)S); fine to very coarse sand with granules to medium pebbles; very poorly to poorly sorted; very angular; salt and pepper; <i>micaceous (biotite and phlogopite)</i>; mafic rich; diorite.</p>
 <p>170: Sand (S); fine to very coarse sand with trace granules to medium pebbles; poorly to moderately sorted; very angular; salt and pepper; <i>micaceous (biotite and phlogopite)</i>; mafic rich; diorite.</p>	 <p>240: Sand (S); fine to very coarse sand with trace granules; poorly to moderately sorted; very angular; salt and pepper; <i>micaceous (biotite and phlogopite)</i>; trace clinopyroxene, garnet, and chlorite mica; mafic rich; diorite.</p>
 <p>180: Sand (S); fine to very coarse sand with trace granules to medium pebbles; poorly to moderately sorted; very angular; salt and pepper; <i>micaceous (biotite and phlogopite)</i>; mafic rich; diorite.</p>	 <p>250: Sand (S); fine to very coarse sand with trace granules; poorly to moderately sorted; very angular; salt and pepper; <i>micaceous (biotite and phlogopite with trace chlorite)</i>; mafic rich; diorite.</p>
 <p>190: Slightly gravelly sand ((g)S); fine to very coarse sand with granules to medium pebbles; very poorly to poorly sorted; very angular; salt and pepper; <i>micaceous (biotite and phlogopite)</i>; mafic rich; diorite.</p>	 <p>260: Sand (S); fine to very coarse sand with trace granules to small pebbles; poorly to moderately sorted; very angular; salt and pepper; <i>micaceous (phlogopite and biotite with trace chlorite)</i>; mafic rich; diorite.</p>
 <p>200: Sand (S); fine to very coarse sand with trace granules to medium pebbles; poorly to moderately sorted; very angular; salt and pepper; <i>micaceous (biotite with phlogopite)</i>; mafic rich; diorite.</p>	 <p>270: Sand (S); fine to very coarse sand with trace granules to medium pebbles; poorly to moderately sorted; very angular; salt and pepper; <i>micaceous (biotite and phlogopite with trace chlorite)</i>; mafic rich; diorite.</p>

Figure 17C. Lithologic descriptions and photographs of **shaker** drill cuttings collected from the borehole at 16 USGS multiple-depth, monitoring-well sites in San Diego County, California, 2003–2017: (A) SDCD; (B) SDSY; **(C) SDLH**; (D) SDAQ; (E) SDGP; (F) SDBP; (G) SDHF; (H) SDEP; (I) SDNB; (J) SDSW; (K) SDMC; (L) SDLD; (M) SDCC; (N) SDOR; (O) SDOT; and (P) SDBW. —Continued.

Depth (feet) and description	
	280: Mesocratic granodiorite-diorite; coarse-grained, equigranular; hypidomorphic with minor euhedral crystals; trace exsolution lamellae/twinning; salt and pepper; <i>hornblende, biotite, orthopyroxene, clinopyroxene, feldspar (orthoclase dominant?), quartz; trace phlogopite, chlorite, garnet, olivine(?), pyrite(?)</i> ; solid rock; core 2.

Depth (feet) and description

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