

**Figure 18F**. Lithologic descriptions and photographs of **sieve** drill cuttings collected from the borehole at 16 USGS multiple-depth, monitoring-well sites in San Diego County, California, 1995, 2003–2017: (A) SDCD; (B) SDSY; (C) SDLH; (D) SDAQ; (E) SDCP; *(F) SDBP;* (G) SDHF; (H) SDEP; (I) SDNB; (J) SDSW; (K) SDMC; (L) SDLD; (M) SDCC; (N) SDOR; (O) SDOT; and (P) SDBW.

## Depth interval (feet) and description Depth interval (feet) and description 420-440: Sandy silt (sZ); silt with very 280-300: Silty sand (zS); very fine sand with silt; well sorted; subangular to fine sand; well sorted; dark gray (2.5Y subrounded; dark gray (2.5Y 4/1); 4/1). minor fragments of bivalve shells. 300-320: Silty sand (zS); very fine sand 440-460: Sandy silt (sZ); silt with very with silt; well sorted; subangular to fine sand; well sorted; dark gray (2.5Y subrounded; dark gray (2.5Y 4/1). 4/1). 320-340: Silty sand (zS); very fine sand 460–480: Silty sand (zS); very fine to with silt; well sorted; subangular to medium sand with silt; moderately sorted; subangular to subrounded; dark subrounded; dark gray (2.5Y 4/1). gray (2.5Y 4/1); fragments of bivalve shells. 340–360: Silty sand (zS); very fine sand 480-500: Silty sand (zS); very fine to with silt; well sorted; subangular to fine sand with silt; well sorted; subrounded; dark gray (2.5Y 4/1). subangular to subrounded; very dark gray (2.5Y 3/1); fragments of bivalve shells and gastropods. 500-520: Silty clay (M); clay with silt 360–380: Silty sand (zS); very fine sand with silt; well sorted; subangular to and minor sand; well sorted; very dark subrounded; dark gray (2.5Y 4/1). gray (2.5Y 3/1); fragments of bivalve shells. 380-400: Sandy silt (sZ); silt with very 520-540: Sandy silty clay (sM); clay fine sand; well sorted; dark gray (2.5Y with silt and very fine to fine sand; 4/1); fragments of bivalve shells. moderately sorted; very dark gray (2.5Y 3/1); fragments of bivalve shells. 540-560: Sandy silt (sZ); silt with very 400–420: Silty clay (M); clay with silt; well sorted; dark gray (2.5Y 4/1); fine to fine sand; well sorted; very dark fragments of bivalve shells. gray (2.5Y 3/1); fragments of bivalve shells.

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	Depth interval (feet) and description		Depth interval (feet) and description
Sex Alto	560–580: Sand (S); fine to coarse sand; moderately sorted; subangular to subrounded; dark gray (2.5Y 4/1); <i>fragments of bivalve shells.</i>		700–720: Clayey sand (cS); very fine to medium sand with clay; moderately sorted; subangular to subrounded; brown (7.5YR 4/3).
	580–600: Sand (S); fine to medium sand with minor coarse to very coarse sand; poorly sorted; subangular to subround- ed; dark gray (2.5Y 4/1); <i>fragments of</i> <i>bivalve shells</i> .		720–740: Clayey sand (cS); very fine to fine sand and clay with minor medium to coarse sand; poorly sorted; subangular to subrounded (10Y 5/3).
	600–620: Sand (S); fine to medium sand with minor coarse sand; moderately sorted; subangular to subrounded; grayish brown (2.5Y 5/2); <i>shell</i> <i>fragments.</i>		740–760: Clayey sand (cS); very fine to fine with minor medium to coarse sand and minor clay; poorly sorted; subangular to subrounded; brown (7.5YR 4/3).
	620–640: Clayey sand (cS); fine to medium sand and clay with minor coarse to very coarse sand; poorly sorted; subangular to subrounded; grayish brown (2.5Y 5/2); <i>shell</i> <i>fragments.</i>		760–780: Sand (S); fine to medium sand with minor coarse sand; well sorted; subangular to subrounded; grayish brown (2.5Y 5/2).
	640–660: Silty sand (zS); fine to medium sand and silt with minor coarse sand; moderately sorted; subangular to subrounded; grayish brown (2.5Y 5/2).		780–800: Sand (S); fine to medium sand with minor coarse sand; well sorted; subangular to subrounded; grayish brown (2.5Y 5/2).
	660–680: Silty sand (zS); very fine to medium sand with silt; moderately sorted; subangular to subrounded; grayish brown (2.5Y 5/2).		800–820: Sand (S); fine to medium sand with minor very fine sand; moderately sorted; subangular to subrounded; grayish brown (2.5Y 5/2).
	680–700: Clayey sand (cS); very fine to fine sand and clay with minor medium sand; poorly sorted; subangular to subrounded; brown (7.5YR 4/3).		820–840: Sand (S); fine to medium sand with minor very fine sand; moderately sorted; subangular to subrounded; light olive brown (2.5Y 5/3).
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 Depth interval (feet) and description	 Depth interval (feet) and description
840–860: Clayey sand (cS); very fine to fine sand with clay; well sorted; subangular to subrounded; grayish brown (2.5Y 5/2).	978–998: Sand (S); fine to medium sand with minor very fine to coarse sand; moderately sorted; subangular to subrounded; yellowish brown (10YR 5/4).
860–880: Silty clay (M); clay with silt and minor very fine sand present; moderately sorted; dark grayish brown (2.5Y 4/2).	998–1,018: Sand (S); fine to medium sand with minor coarse sand; moderate- ly sorted; subangular to subrounded; yellowish brown (10YR 5/4).
880–900: Clayey sand (cS); very fine to medium sand and clay; moderately sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2).	1,018–1,038: Sand (S); fine to coarse sand; moderately sorted; subangular to subrounded; yellowish brown (10YR 5/4).
900–920: Silty clay (M); clay with silt; well sorted; dark grayish brown (2.5Y 4/2).	1,038–1,058: Sand (S); fine to medium sand with minor coarse sand; moderate- ly sorted; subangular to subrounded; yellowish brown (10YR 5/4).
920–940: Sandy silty clay (sM); clay with silt and very fine to fine sand; poorly sorted; dark grayish brown (2.5Y 4/2).	1,058–1,078: Sand (S); fine to medium sand with minor coarse to very coarse sand; moderately sorted; subangular to subrounded; yellowish brown (10YR 5/4).
940–960: Sand (S); very fine to medium sand and minor coarse sand; moderately to poorly sorted; subangular to subrounded; dark yellowish brown (10YR 4/4).	1,078–1,098: Slightly gravelly sand ((g)S); fine to very coarse sand and gravel <5mm; poorly sorted; angular to subrounded; yellowish brown (10YR 5/4).
960–978: Slightly gravelly sand ((g)S); fine to coarse sand and gravel <8 mm; poorly sorted; angular to subrounded; yellowish brown (10YR 5/4).	1,098–1,118: Slightly gravelly sand ((g)S); very fine to very coarse sand and gravel <6mm; poorly sorted; angular to subrounded; yellowish brown (10YR 5/4).

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 Depth interval (leet) and description	 Deptil interval (leet) and description
1,118–1,138: Sand (S); very fine to coarse sand; moderately sorted; subangular to subrounded; yellowish brown (10YR 5/4).	1,258–1,278: Sand (S); fine sand with minor very fine to medium sand; well sorted; subangular to subrounded; dark gray (2.5Y 4/1).
1,138–1,158: Slightly gravelly sand ((g)S); fine to coarse sand and gravel <10mm; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4).	1,278–1,298: Silty sand (zS); very fine to fine sand with silt; moderately sorted; subangular to subrounded; dark gray (2.5Y 4/1).
1,158–1,178: Gravelly sand (gS); fine to very coarse sand and gravel <10mm with minor clay; poorly sorted; angular to subrounded; yellowish brown (10YR 5/4).	1,298–1,318: Silty sand (zS); very fine to coarse sand and silt; poorly sorted; subangular to subrounded; dark gray (2.5Y 4/1).
1,178–1,198: Slightly gravelly sand ((g)S); fine to coarse sand and gravel <10mm with minor clay; poorly sorted; subangular to subrounded; yellowish brown (10YR 5/4).	1,318–1,338: Sand (S); very fine to fine sand; well sorted; subangular to subrounded; dark gray (2.5Y 4/1).
1,198–1,218: Sand (S); fine to medium sand; well sorted; subangular to subrounded; dark gray (2.5Y 4/1).	1,338–1,358: Silty sand (zS); very fine to coarse sands, silt and minor clay; poorly sorted; subangular to subround- ed; dark gray (2.5Y 4/1); <i>minor</i> <i>fragments of shells.</i>
1,218–1,238: Sand (S); fine to medium sand; well sorted; subangular to subrounded; yellowish brown (10YR 5/4).	1,358–1,378: Clayey silty sand (mS); very fine to fine sand with silt and clay; poorly sorted; subangular to subround- ed; dark gray (2.5Y 4/1); <i>minor shell</i> <i>fragments</i> .
1,238–1,258: Sand (S); very fine to fine sand with minor medium sand; well sorted; subangular to subrounded; dark gray (2.5Y 4/1).	1,378–1,398: Sand (S); very fine to fine sand with minor silt; well sorted; subangular to subrounded; dark gray (2.5Y 4/1).

Depth interval (feet) and description

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Depth interval (feet) and description

	1,398–1,418: Sand (S); very fine to fine sand with minor silt; well sorted; subangular to subrounded; dark gray (2.5Y 4/1).
	1,418–1,438: Sand (S); very fine to fine sand with minor silt; well sorted; subangular to subrounded; dark gray (2.5Y 4/1).
	1,438–1,458: Sand (S); very fine to fine sand with medium sand and silt; moderately sorted; subangular to subrounded; dark gray (2.5Y 4/1).
	1,458–1,478: Sand (S); fine to medium sand; moderately sorted; subangular to subrounded; dark gray (2.5Y 4/1).
E.C.	1,478–1,498: Sand (S); very fine to medium sand and minor silt; moderately sorted; subangular to subrounded; dark gray (2.5Y 4/1). 1,498–1,501: <i>Core 1</i> .

Depth interval (feet) and description