

Table 7.--Partial mineralogy of 10 samples as determined by X-ray diffraction

65-179

ROCK SAMPLE		Clay (percent of whole sample)	Relative pro- portions of various clays	Percent quartz	Relative pro- portions of various minerals
Y1A	Upper Topanga Formation from sole of landslide	15 - 50	M = I > K	25 - 30	Q >> P > Fk
3Ya	Unit B, from deformed siltstone sequence	20 - 50	M ≥ I >> C	21	Q ≥ P > Cr > Fk?
Y3b	Unit B volcanics, ash matrix of tuff breccia	15 - 40	M	None	Ca >> P > St?
Y3b-1	Unit B or Monterey Shale from gouge at base of landslide	25 - 60	M ≥ I >> C	12	Q ≥ P >> Fk?
AK-24	Terrace deposit (Qt <sub>1</sub> ), fine-grained portion	15 - 40	I > M > K	48	Q >> P > Fk?
AK-42a	Matrix of well-sorted marine gravel from terrace deposit (Qt <sub>1</sub> )	10	M >> I > K?	38	Q ≥ P > Fk
AK-42b	Mudflow or flood-plain deposit on terrace (Qt <sub>1</sub> )	10	M >>> C?	60 ± 5	Q > P ≥ Fk
AK-42c	Matrix of fine-grained terrace deposit (Qt <sub>1</sub> )	10	M >> K	58 ± 5	Q > Fk > P
AK-46a	Matrix of terrace deposit (Qt <sub>1</sub> )	20 - 40	M >> I > C	35	Q >> P ≥ Fk
AK-46b	Moderate brown-colored silt from terrace deposits (Qt <sub>1</sub> )	15 - 35	M >> C = K?	37 - 40	Q > Fk > P
Cw-138	Olive foraminiferal mudstone, unit m-7, trench 3	60	I/M > M > K >> C	10	Ca = Cr = Q
CW-135	Black plastic mudstone, unit m-6, trench 3	50	M > I/M = C	15	Q = F > Do
	Clay pellets from unit Tb, trench D	60	M	trace	Cr
	Yellow-green bentonite, unit m-7, trench 3	90	M	trace	F
CC 54E	Clay-calcite veinlet from unit Sd, trench 3	40	M	0	C

Symbols: M-montmorillonite; K-kaolinite; I-illite; C-chlorite; I/M-illite/mica; Q-quartz, F-feldspar; Fk-potash feldspar; P-plagioclase feldspar; Ca-calcite; Do-dolomite; Cr-cristobalite; St-stilbite; Fk?-questionable mineral identification; > -greater than, >> -much greater than; >>> -very much greater than; = -approximately equal.