additional lab sea notes

5/10/08 UNIT DESCRIPTIONS WFZ, BC seg, Hansen Canyon North TRENCH

Hansen Can Main fault (North trench)

South Trench

Unit Number	Location hor./vert. (m)	Matrix grain size	% gravel	Largest clast (mm)	Sorting	Dry color	Dry[a] consistence	Wet[b] consistence	Lower[c] boundary	Soil[d] development	Genesis	Comments: <0.2 cm	0.2-2 cm	2-4 cm	>4 cm
1	16.5/7.9	silt loam	60%	80;	massive	7.5yr 4/2	lo + so	ss; ps	a-c; s-w	A-hor; upper-sec	Mudflow (fire-related?)	40%	40%	40%	20%
pebbly Debrisflow		(sl. sandy)		20-40 common	matrix supp.	wet 7.5yr 3/2 moist				(Same color as unit)		angular to subangular, clasts, non-calcareous matrix			
												w/occ. s-rnd cgs			
2	15.50/7.68	loam-sa.loam	75%	120-140;	v.poor	7.5YR 4/4 dry	so	so-ss; ps	a; i (tectonic)	none	fault-scarp colluvium	25%	20%	30%	50% - clast supported matrix supp near w/ stringers
				50-70 ave	clast; matrix	7.5YR 3/3 moist						weak downslope clay + imbrication, weak carbonate in matrix some thin coats on clas			
3a	19.60/7.32	loam-silt loam	50%	200-240;	poor	10YR 5/3 dry	so	ss; ps-p	c; s	A horizon on 3	debris flow - organic-rich soil inc	50%	25%	25%	50%
pebble-cobble debris flow				50-80 ave	clast supported	10YR 4/4 moist						ang-s.ang; occasional s.rnd (<5%); non calc. to v. weak			
3b	21.05/6.89	si loam	70%	80-100;	poor	10YR 7/6 dry	so-sh	ss; p	c; s	none - carb-rich matrix from source	debris flow	30%	10%	30%	30%
				30-60 ave	matrix supp	10YR 5/8 moist						calc. matrix; ang-sub ang. <5% s.rnd			
4	20.98/6.30	si loam	50%	150-200	poor matrix supp	10YR 7/6 dry	so-sh	so-ss; ps-p	NA	none-carb-rich matrix from source	debris flow	50%	30%	30%	40%
				50-70 ave		10YR 5/6 m						calc. matrix; ang-sub ang; <5% s.rnd			
1				500mm	poor/ massive matrix supp.				a-c/s-w	A-hz	Debris flow dep.	Collection of large boulders exposed in S trench - suspended in pebble-rich matrix			
				20-40 common											
2				240; 40-60 ave.	poor/ no bedding	clast & matrix supp.			a-c/s-w	—	colluvium (scarp)	pebble & cobble rich, sandy matrix			
3A				300/80-100 common	poor matrix sup.				a-g/s-w	A-hz. on 3	Debris flow - organics-rich soil	Some very large clasts (boulders); collection of cobbles 100-200mm localized in footwall (rn-mark 19-15.5 [4z])			
3B				200/50-80	poor matrix sup.				c/s-w	—	Debris flow dep.	v. cobble rich - sandy matrix			
4				230/30-50	poor mostly matrix v. weak bedding				ac	—	Debris flow dep.	very pebble rich, very few cobbles; sandy matrix			

Hansen Canyon North Trench, Unit/Soil Descriptions

[a] dry consistence: lo—loose, so—soft, sh—slightly hard, h—hard, vh—very hard, eh—extremely hard
[b] wet consistence: so--nonsticky, ss--slightly sticky, s—sticky, vs—very sticky; po--nonplastic, ps—slightly plastic, p—plastic, vp—very plastic
[c] lower boundary: distinctness; a—abrupt (1 mm-2.5 cm), c—clear (2.5-6 cm), g—gradual (6-12.5 cm), d—diffus (>12.5 cm); topography; s—smooth, w—wavy, i—irregular
[d] maximum soil development in unit at this location; roman numerals are stage of carbonate morphology