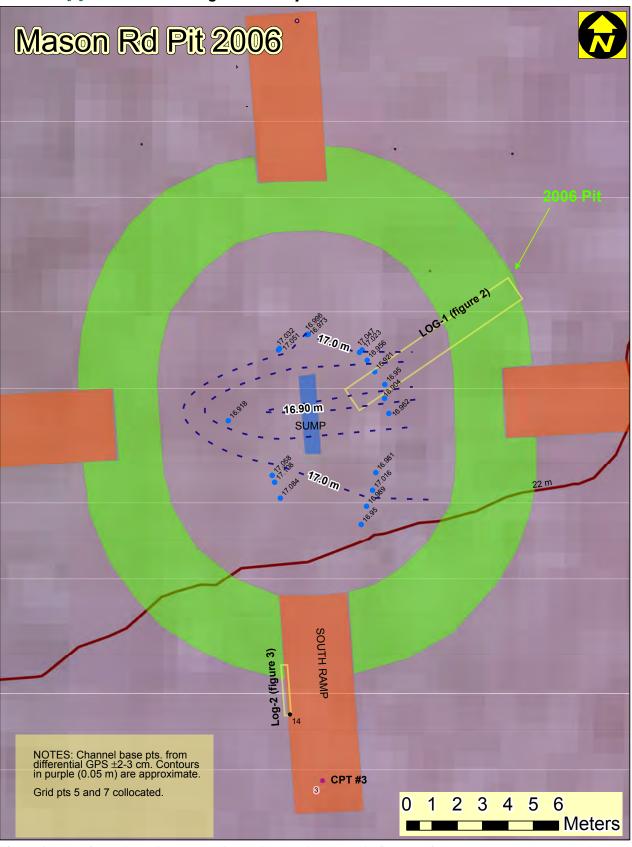
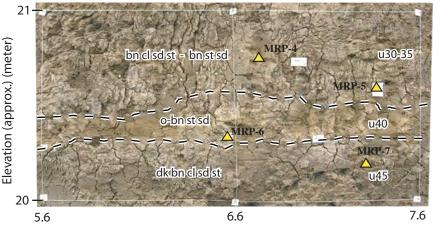


U.S. Department of the Interior U.S. Geological Survev





upper slope, below is a gentler (34°) slope. String grid used to rectify photo mosaic of stratigraphic log shown in figure 2.



Distance (meter)

Figure 3. View westward along Log-2, location shown in figure 1, on east wall of south ramp. For explanation of symbols and abbreviation, see figure 2.

Figure 1. Map of 7-m-deep pit excavated in 2006 at location shown in figure 2 of Sheet 1. Log-1, shown by yellow rectangle above, shows a stratigraphic section (Fig. 2, this sheet) and locations of radiocarbon and OSL samples. Log-2 (figure 3) indicates the locations of additional radicarbon samples. Blue dots are surveyed positions on the channel base (that is, of u75) and blue contours are the interpreted shape of the channel (see figure 2 for description of unit u75). Upper slope (53°) shown in green; access ramps shown in orange.

TABLE 1.Quartz Blue-light OSL Ages for Mason Road Trench.										
 Sample name	% Water content ^a	K (%) ^b	Th (ppm) ^b	U (ppm) ^b	Cosmic dose ^c additions (Gy/ka)	Total Dose Rate (Gy/ka)	Equivalent Dose (Gy)	n ^d	Age (ka) ^e	Nearest calibrat
USGS 110	17 (79)	1.16 ± 0.08	7.13 ± 0.37	2.23 ± 0.17	0.20 ± 0.01	2.46 ± 0.07	9.07 ± 0.10	20 (27)	3.69 ± 0.13	MRP3 (0.3 m belo
USGS 111	18 (64)	1.65 ± 0.05	6.36 ± 0.53	1.46 ± 0.19	0.19 ± 0.01	1.76 ± 0.09	12.9 ± 0.20	18 (30)	7.30 ± 0.40	MRP8 (immediately b
USGS 113	28 (100)	1.12 ± 0.04	6.45 ± 0.17	1.68 ± 0.15	0.19 ± 0.01	1.69 ± 0.04	24.2 ± 0.44	16 (18)	14.3 ± 0.43	none avai

^aField moisture, with figures in parentheses indicating the complete sample saturation percent. USGS-110 calculated using field moisture, others below or in water table.

^bAnalyses obtained using laboratory Gamma Spectrometry (low resolution Nal detector).

^c Cosmic doses and attenuation with depth were calculated using the methods of Prescott and Hutton (1994). See text for details.

^dNumber of replicated equivalent dose (De) estimates used to calculate the mean. Figures in parentheses indicate total number of measurements made including failed runs

with unusable data. ^eDose rate and age for fine-grained 250-180 um quartz sand. Linear and exponential fit used on age, errors to one sigma.

Logs and Data from Trenches Across and Near the Green Valley Fault at the Mason Road Site, Fairfield, Solano County, California, 2006-2009

By

James J. Lienkaemper, Robert R. Sickler, Shannon A. Mahan, Johnathan Brown, Liam M. Reidy, and Mindy A. Kimball 2012



- 22

·21

-20

19

B Blevation (approx.) (meter)

16

ated C14 ages low) 3375 ± 40 yr

below) 7326 ± 60 yr

vailable

This map was printed on an electronic plotter directly from digital files. Dimensional calibration may vary between electronic plotters and between X and Y directions on the same plotter, and paper may change size due to atmospheric conditions; therefore. scale and proportions may not be

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Figure 2. Log-1, stratigraphic section at APPROXIMATE SURFACE ELEVATION location shown in figure 1.Photographic images rectified using string grid shown in figure 4. OSL and radiocarbon samples are further described in table 1 (this sheet) and in the accompanying pamphlet. Mason Road Pit Log-1 of East Wall 2006 EXPLANATION u80 Unit number **A** Radiocarbon sample **Incation** (Rectangle location (Rectangle indicates bulk sample) \bigcirc OSL sample location (Optically Stimulated Luminescence) ABBREVIATIONS o, bn, dk orange, brown, dark CO3 carbonate gc gray clay gravel medium sand silt clay

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