



Digital Database of Microfossil Localities in Alameda and Contra Costa Counties, California

USGS No.	FIELD No.	OTHER No.	COLLECTOR	DATE RECEIVED	STATE
Mf7866	90-CB-2982		Earl Brabb		CA
LONGITUDE	LATITUDE	UTM X	UTM Y	7.5' QUADRANGLE	
-121.820	37.520	604303.054	4153043.341	La Costa Valley	
<b>LOCATION</b>					
Alameda Co.; sample was taken in the gully of a tributary to Indian Joe Creek					
<b>LITHOLOGIC UNIT</b>		<b>COMMENTS</b>		<b>TECTONIC BLOCK</b>	
Oursan Sandstone (To)		gray mudstone		IX	
<b>FOSSIL GROUPS EXAMINED</b>					
<input checked="" type="checkbox"/> benthic foraminifers <input type="checkbox"/> planktic foraminifers <input type="checkbox"/> nanoplankton <input type="checkbox"/> diatoms <input type="checkbox"/> radiolarians					
<b>ASSOCIATED FOSSILS AND OTHER DEBRIS</b>					
<b>PALEONTOLOGIST</b>		<b>REPORT DATE</b>	<b>SLIDES</b>	<b>RESIDUE</b>	<b>REPOSITORY</b>
Kristin McDougall		1991	1	2	Micropaleo. Coll., USGS, Flagstaff, AZ
<b>PERIOD/EPOCH</b>	<b>STAGE/AGE</b>	<b>ZONE/BIOSTRATIGRAPHIC UNIT</b>		<b>ECOLOGY</b>	
early-middle Miocene	Relizian - Luisian stages			outer neritic (50-150 m)	
<b>AGE COMMENTS</b>					
Species present in this assemblage are similar to the "Claremont Shale" samples Mf7859 through Mf7862, and suggest a middle Miocene age (Relizian or Luisian)					
<b>ECOLOGY COMMENTS</b>					
<b>GENERAL COMMENTS</b>					
<b>REFERENCES</b>					
Graymer, R.W., Jones, D.L., and Brabb, E.E., 1996, Preliminary geological map emphasizing bedrock formations in Alameda County, California; a digital database: U.S. Geological Survey Open-File Report 96-252, 33 pp.					