

CAPISTRANO BAY DISTRICT
AGENDA REPORT
October 30, 2012

New Business

ITEM L.1

Presentation on Beach Sand and Rocks Processes

At the August Board meeting the Directors approved the action to have Mr. Dave Skelly, a coastal and oceanographic engineer, attend our September meeting and provide some insight and explanation regarding our loss of sand and accumulation of rocks on the beach.

David Skelly Background:

EDUCATION

B.A., Applied Mechanics and Engineering Sciences, 1975, University of California
M.S., Oceanography, 1979, University of California, Scripps Institution of Oceanography.

REGISTRATION

Registered Civil Engineer: California R.C.E. 47857

Registered Civil Engineer: Oregon P.E.70939

Registered Civil Engineer: Hawaii P.E. 9877

ACADEMIC HONORS

Graduated Magna Cum Laude, Revelle College, 1975.

Regents of University of California Fellow, Scripps Institution of Oceanography, 1975-1976.

Mr. Skelly is Vice President and Principal Engineer for GeoSoils, Inc. (GSI). He has worked with GSI for the last decade on numerous land development projects throughout California. Mr. Skelly has over 30 years experience in coastal engineering. Prior to joining the GSI team, he worked as a research engineer at the Center for Coastal Studies at Scripps Institution of Oceanography for 17 years. During his tenure at Scripps, Mr. Skelly worked on coastal erosion problems throughout the world. He has written numerous technical reports and published papers on these projects. He was a co-author of a major Coast of California Storm and Tidal Wave Study report. He has extensive experience with coastal processes in San Diego County. Mr. Skelly also performs wave shoring and uprush analysis for coastal development, and analyzes coastal processes, wave forces, water elevation, longshore transport of sand, and coastal erosion.

Mr. Skelly has extensive experience in producing environmental documentation concerning coastal projects on the federal, state, and local level. Mr. Skelly has contributed to several recent and on-going EIR/EIS investigations. Mr. Skelly was a sub-consultant to Science Applications International Corporation (SAIC) for the beach nourishment project at Imperial Beach, the Navy Homeporting Project, and the San Dieguito Lagoon restoration project. Mr. Skelly is responsible for the impacts of the project on coastal processes, which includes the beach nourishment phase of the project. Mr. Skelly has extensive experience in shoreline erosion, bluff erosion, soils engineering, and the design, permitting, and construction of

shore protection devices. Projects include levee engineering and design in San Francisco Bay, seawall and marina engineering in Baja California Sur, coastal boardwalk design and protection in Pacifica, and seawall projects throughout southern California. Mr. Skelly has served as an expert witness for coastal processes litigation

Capistrano Bay Community... Power Point Presentation

- I. Coastal Processes at Capo
 - a. Waves
 - b. Water Levels (Tides, El Ninos, Sea Level Rise)
 - c. Sand & Cobble Movement
- II. FEMA Base Flood Elevation (BFE) & Dana Point FP3 Elevation
- III. Permitting Local and State
- IV. Q & A