

CAPISTRANO BAY DISTRICT
AGENDA REPORT
January 28, 2025

New Business

ITEM 11c

Addition to the MHTL Survey Program

The District has an opportunity to expand on the Mean High Tide Line data collection by creating an expanded beach profile survey. Currently we measure sand elevation from the back beach (by the homes) out to the water line and create a profile of how much the beach slopes down to the waterline. An expanded survey would take that profile further out into the water to a depth of about 35-40 feet to give a more comprehensive picture of the sand in the near-shore zone where it can't be seen. The usefulness here is that we get a better understanding of how much sand would actually need to be pumped onto our beach to keep it replenished. The District has one proposal at \$55K/year from Coastal Frontiers Engineering. We asked for a bid from Guida Surveying (they do our MHTL surveys) but they are not equipped to run measurements in the nearshore zone from a boat.

This extra surveying may not be necessary as the City of San Clemente conducts a similar survey at 12 transects from DP Harbor to Cotton's Point. Although, while they skip over our beach, they do run survey transects at the County Park Beach just to our north, and at Poche, just to our south. Dave Skelly feels this existing alignment of survey points provides enough data to permit a reasonable extrapolation for measuring the nearshore bottom along our section of beach.

To add one more thought here, we and the cities of Dana Point and San Clemente are also working with SANDAG to develop a beach nourishment plan that would take in the beaches from the Harbor south to Cotton's Point, similar to what San Clemente is already working on. So, it doesn't seem to make much sense to pay for expensive work that is being done by others.

Refer to the diagram on the following page for a visual on how the additional scope of the beach survey is set up.

Beach Profile Surveys

