Staff Recommendations for State Water Board Ocean Protection Funds

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BACKGROUND

- Public concern about beach closure
- Current US EPA approved methods – next day results
- AB 639 develop Rapid Indicators
- SWRCB Clean Beach Initiative
 (CBI) Rapid Indicators a priority

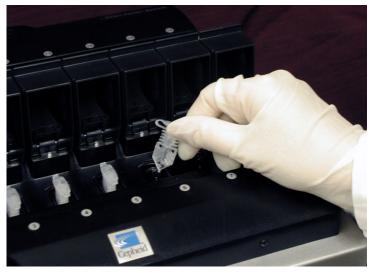
RAPID DIAGNOSTOC METHODS FOR MEASURING BATERIA INDICATORS

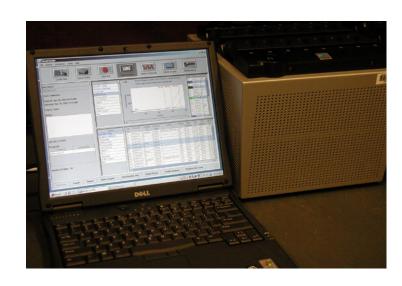
- State Board contracted with the Southern California Coastal Water Research Project (SCCWRP)
- •Collaboration with local, state, federal and private partners
- •Promising Technologies!

Quantitative Polymerase Chain Reaction (Q PCR)





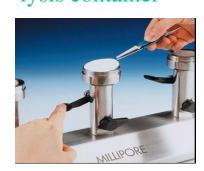


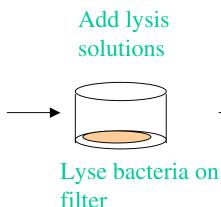


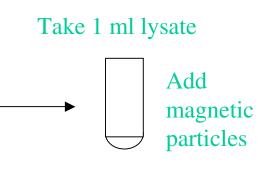
Transcription Mediated Amplification (TMA) Assay

Filter sample (100 ml) Transfer filter to lysis container





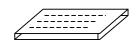








Add rRNA target and amp reagents
to 96 well plate



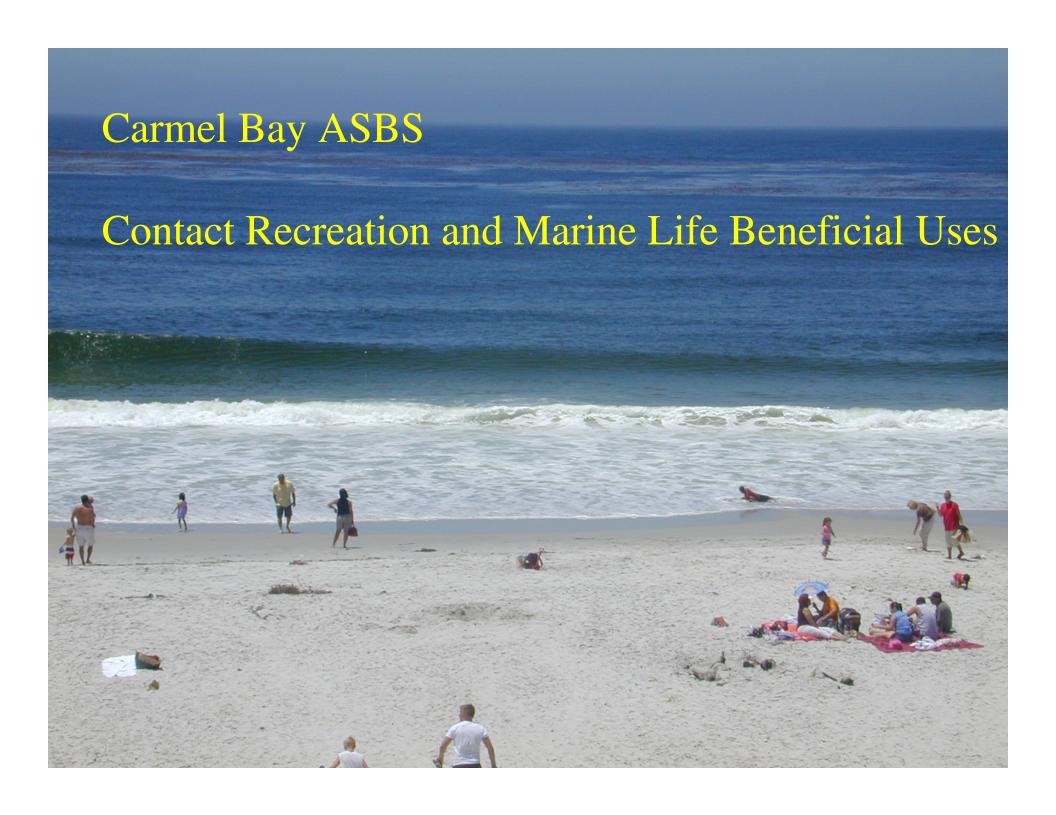


Magnetic separation

Dual Wavelength Fluorimetry

Uses a dual wavelength flourimeter to detect bacteria by radiometric measurement



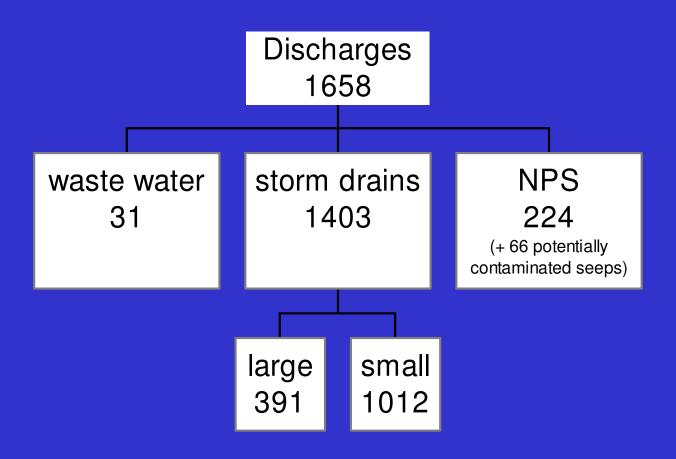




Areas of Special Biological Significance (ASBS)

- 34, designated in the 1970s by the State Water Resources Control Board
- Regulated through the California Ocean Plan
- Ocean Plan: "Waste shall not be discharged to designated Areas of Special Biological Significance..."
- Public Resources Code: ASBS are a subset of State Water Quality Protection Areas

Statewide ASBS/SWQPA Discharges

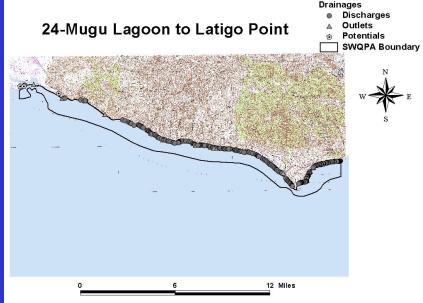




Laguna Point to Latigo Point ASBS, in Malibu

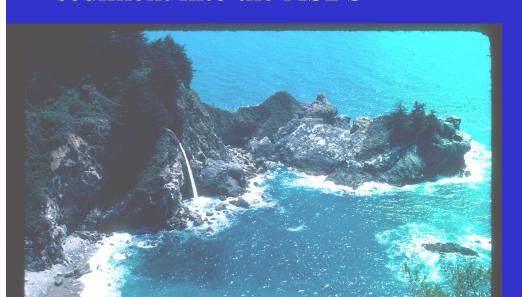
Mystery drain...

Dry weather flows



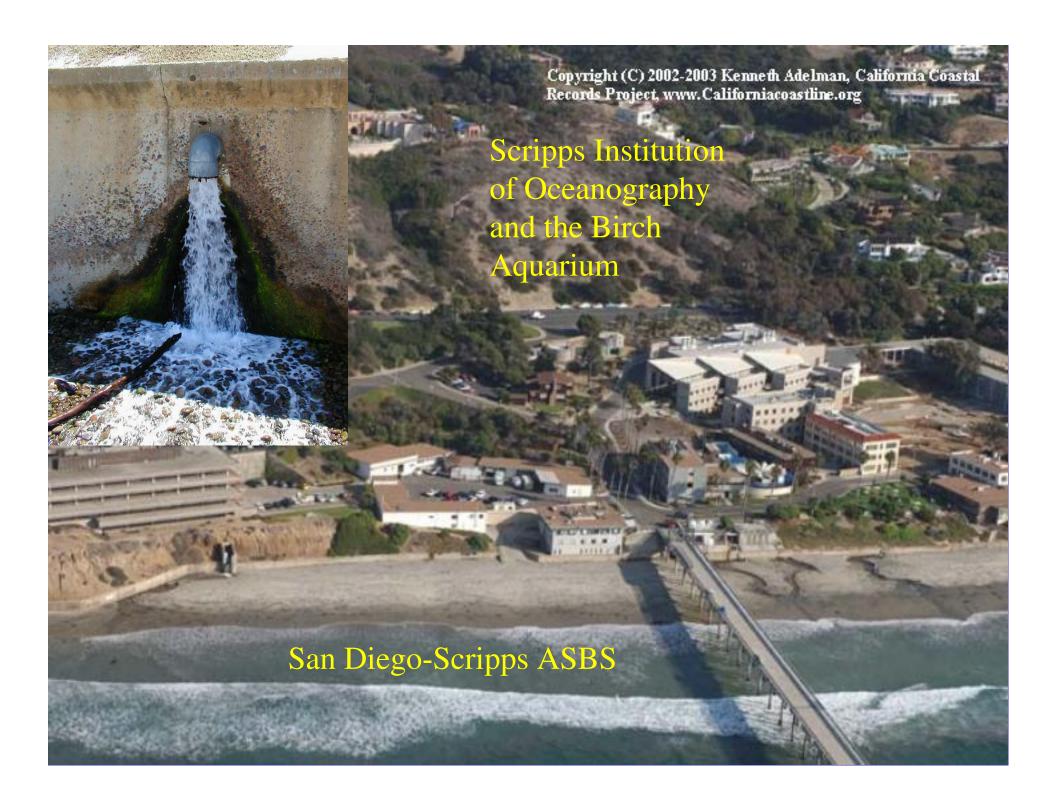
McWay Falls Julia Pfeiffer Burns ASBS

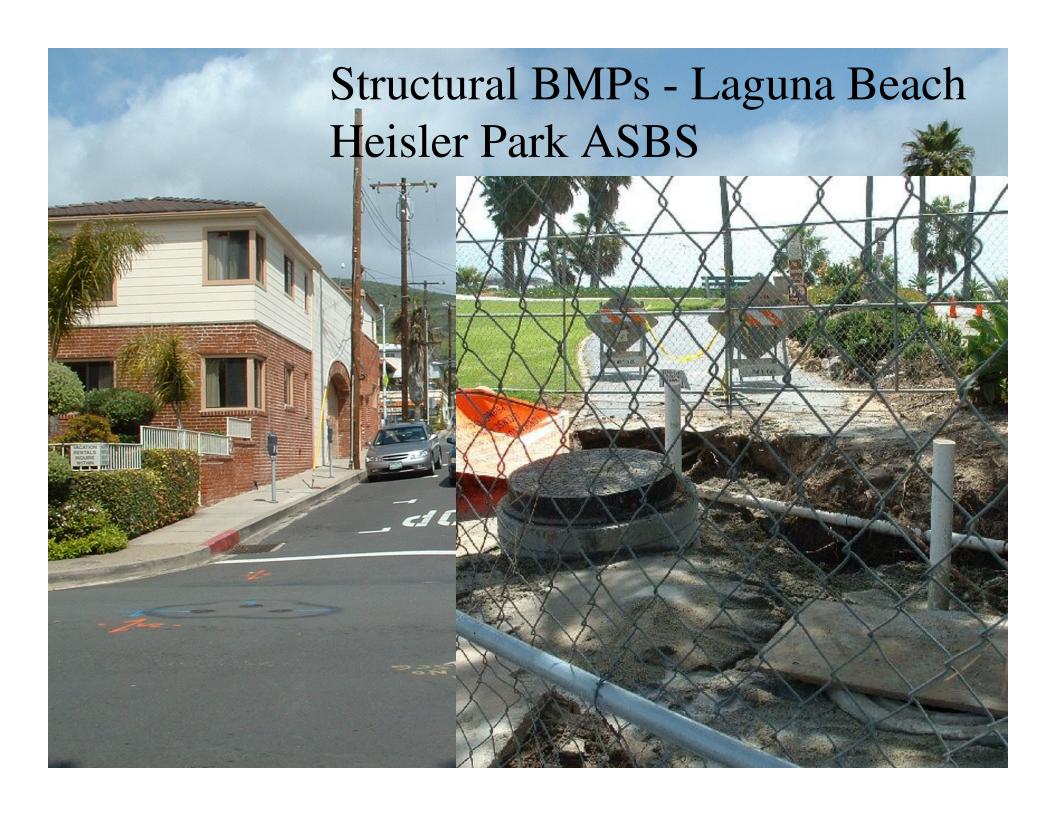
Before 1983, when road clearing operations dumped sediment into the ASBS

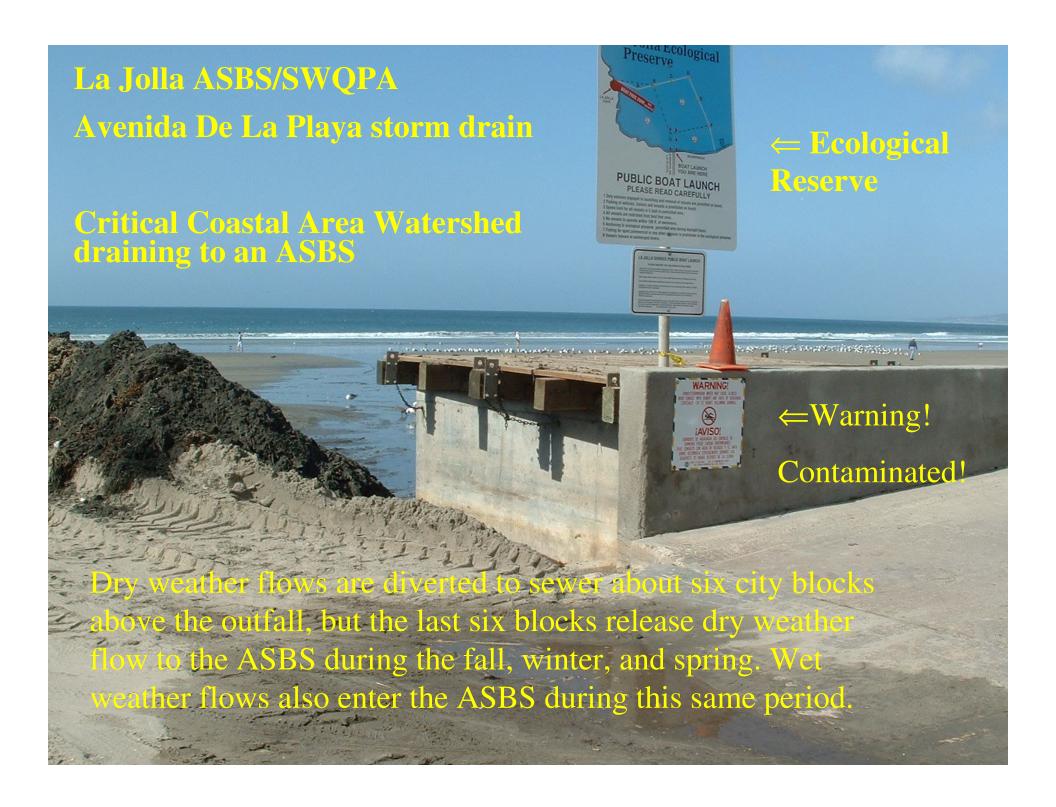


February 2003, the only cove in California with a waterfall is now filled in









State Water Board Timeline: Projected Dates, Consolidated Grants

• Anticipate Adoption of Guidelines: *January 4, 2006*

• Solicit Concept Proposals: *January 5, 2006*

• Concept Proposals Due: February 9, 2006

Full Proposal Invitations: March 2006

• Full Proposals Due: May 2006

Ocean Protection Projects to Ocean
 Protection Council: June 13, 2006

 Recommended Project Lists (in batches) to State Water Board and California Bay-Delta Authority:

• Grant Agreements:

July-November 2006 August 2006-2007

Slide 18 added January 13, 2006