

Regional Assessment of Human Contamination in Coastal Drainage Systems

Presentation to the SCCWRP Commission

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BIGHT MICROBIOLOGY QUESTIONS

- **How does rapid measurement for Enterococcus perform across beach types and conditions in Southern California?**
- **What percentage of coastal drainage systems have a human source?**

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DESIRED OUTCOMES

- **Successful transfer of source ID technology to end users**
- **Regional assessment of human contamination from coastal drainages**
- **Identification of systems where Quantitative Microbial Risk Assessment studies may be feasible**

APPROACH TO REGIONAL ASSESSMENT

- **Sample at 27 sites**
- **Dry and wet weather**
- **50 samples each condition**

GOOD PARTICIPATION = GOOD COVERAGE

- **Participating Agencies**

- Ventura County Watershed Protection District
- LA County Flood Control District
- Orange County Sanitation District
- Orange County DPW
- City of San Diego
- San Diego County Co-permittees
- City of Oceanside
- City of Encinitas

| County | Number of Sites |
|-------------|-----------------|
| Ventura | 4 |
| Los Angeles | 9 |
| Orange | 7 |
| San Diego | 7 |
| Total | 27 |

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LABORATORY INTERCALIBRATION STUDY

- **Did training stick?**
- **Do labs produce comparable results?**
- **Has become a statewide effort**

CURRENT STATUS OF PROJECT

- **Training complete**
- **Sampling initiated in 3 counties**
- **Interlaboratory calibration study planned for October**