### Introduction

- TMDLs protect recreational beneficial uses and human health
- Currently employ a reference system/ anti-degradation approach

# Marine Water Quality Objectives Current

Indicator	Geometric Mean*	Single Sample
Total Coliform	1000 cfu/100 ml	10000 cfu/100 ml
if Fecal/Total > 0.1		1000 cfu/100 ml
Fecal Coliform	200 cfu/100 ml	400 cfu/100 ml
Enterococcus	35 cfu/100 ml	104 cfu/100 ml

<sup>\*30-</sup>day rolling geometric mean calculated daily

# Marine Water Quality Objectives Proposed

Indicator	Geometric Mean*	Statistical Threshold Value (STV)
Enterococcus	30 cfu/100 ml	110 cfu/100 ml

<sup>\*</sup>Six week rolling geometric mean calculated weekly

# Ventura County Beaches

### **Existing Impairment:**

### Ventura County Beaches

#### 303 (d) Impaired Waterbody

Ormond Beach

Rincon Beach

Rincon Parkway North

Peninsula Beach

Point Mugu Beach

Port Hueneme Beach Park

San Buenaventura Beach

Surfer's Point at Seaside

#### 303 (d) Non-impaired Waterbody

Promenade Park



### **Existing Data Sources for Beaches**

· VCEHD data

•UCLA study data (Peninsula Beach)

VCWPD rainfall data

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### Data Review:

### Example for discussion only

		Surfer's Point Bacteria Summary November 1998 to October 2017 (Enterococcus)							
	Statistical Threshold Value (STV)			Rolling Geometric Mean (6-week calculated wee (Sunday)			ed weekly		
	Standard (cfu/100 ml)	Overall	Summer/Dry	Winter/Dry	Wet	Standard (cfu/100 ml)	Overall	Summer	Winter
Exceedance Count		56	7	4	45		104	18	86
Sample Count	110 (Proposed)	924	522	245	157	30 (Proposed)	898	536	362
Exceedance Percentage		6.06%	1.34%	1.63%	28.66%		11.58%	3.36%	23.76%

### **Draft Data Review**

(proposed objectives)

Impaired	Not Impaired
Rincon Beach	Ormond Beach
	Rincon Parkway North
	Peninsula Beach
	Point Mugu Beach
	Port Hueneme
	San Buenaventura Beach
	Surfer's Point at Seaside park
	Promenade Beach

*Is there sufficient winter data?* 

## **Options for Beaches**

- TMDLs
  - TMDL public process
  - TMDLs are incorporated into permits
- Findings of non-impairment
  - Re-examine data during next Los Angeles 303(d) listing cycle
- Additional monitoring
  - Changes to 303(d) list
  - Development of TMDLs

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### Ventura Harbor: Ventura Keys

#### Ventura Harbor: Ventura Keys 2014/2016 Integrated Report Assessment for Indicator Bacteria

- Data Submitted by City of Ventura
- Three Ventura Keys sites (K1-K3) and one Ventura Harbor site (M2)
- Samples collected approximately weekly from January 2003 to August 2007



#### Ventura Harbor: Ventura Keys 2014/2016 Integrated Report Assessment for Indicator Bacteria

#### **Findings**

#### Enterococcus

• Single sample: 48/595 exceeded

30-day Geomean: 41/432 exceeded

#### Fecal coliform

Single sample: 38/809 exceeded

• 30-day Geomean: 3 /464 exceeded

#### Total coliform

Single sample: 64/648 exceeded

• 30-day Geomean: 196/464 exceeded

Fecal coliform/Total coliform ratio

Ratio: 14/648 exceeded

#### **Conclusion:**

Impaired by Total Coliform

30-day Geomean = 30-day rolling Geometric Mean



### City of Ventura Data Compared to Proposed Bacteria Provisions

Enterococci Six-week Geomean: (30/100ml)	Total*
# Exceedances	54
# Samples	420
# Exceedances to List According to Listing Policy	73
* Draft for discussion only	

#### 2008 UCLA Contract Sampling

- Bacterial contamination source tracking in Ventura Marina, Ventura Keys and in Arundell Barranca.
- Samples collected monthly from May 2008- April 2009.
  - Nine Ventura Keys sites:
    - D1-D6
    - Sailor
    - Beachmont
    - Marpark
  - One Ventura Harbor site:
    - Mardock



UCLA Data Compared to Proposed Bacteria Provisions- Ventura Keys

Enterococci STV (110/100ml)	Total*
# Exceedances	19
# Samples	78
# Exceedances to List According to Listing Policy	

STV= Statistical Threshold Value-used when insufficient samples available to calculate a geometric mean.

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<sup>\*</sup> Draft for discussion only

UCLA Data Compared to Proposed Bacteria Provisions-Ventura Marina

Enterococci STV (110/100ml)	Total*
# Exceedances	1
# Samples	14
# Exceedances to List According to Listing Policy	5

STV= Statistical Threshold Value-used when insufficient samples available to calculate a geometric mean.

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<sup>\*</sup> Draft for discussion only

### Ventura Harbor: Ventura Keys Data Assessment Conclusions

- Re-Assessment of the City of Ventura data using the Proposed Bacteria Provisions demonstrates no impairment.
  - Data is 10 years old
- Assessment of the UCLA data using the Proposed Bacteria Provisions demonstrates impairment.
  - Data is 10 years old
  - Only one year of data, collected monthly
  - Documentation of data from month to month is inconsistent
- Possible impairment of the Ventura Harbor: Ventura Keys waterbody. More data is needed.

### Summary of Options

- Ventura County Beaches
  - TMDLs,
  - Findings of non-impairment, and/or
  - Additional monitoring
- Ventura Harbor: Ventura Keys
  - No TMDL at this time additional monitoring needed

## Discussion

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#### **Contact Information**

- For Ventura Beaches
  - L.B. Nye
    - Email: LB.Nye@waterboards.ca.gov
    - Phone: (213) 576-6785
  - Man Voong
    - Email: Man.Voong@waterboards.ca.gov
    - Phone: (213) 576-6690
- For Ventura Harbor: Ventura Keys
  - Jenny Newman
    - Email: jenny.newman@waterboards.ca.gov
    - Phone: (213) 576-6691
  - Jessica Pearson
    - Email: Jessica.pearson@waterboards.ca.gov
    - Phone: (213) 576-6786
- Los Angeles Water Board TMDL Webpage:

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https://www.waterboards.ca.gov/losangeles/water\_issues/programs/tmdl/tmdl\_list.php