### Regional MS4 Permit Reissuance Workshop # 2

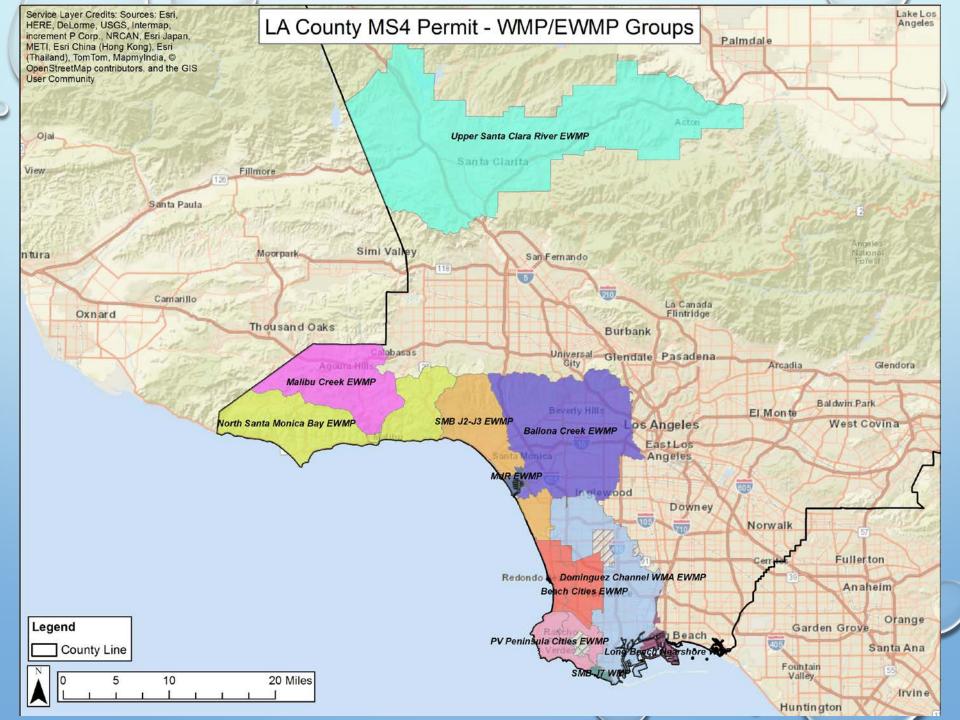
July 12, 2018 Item 13

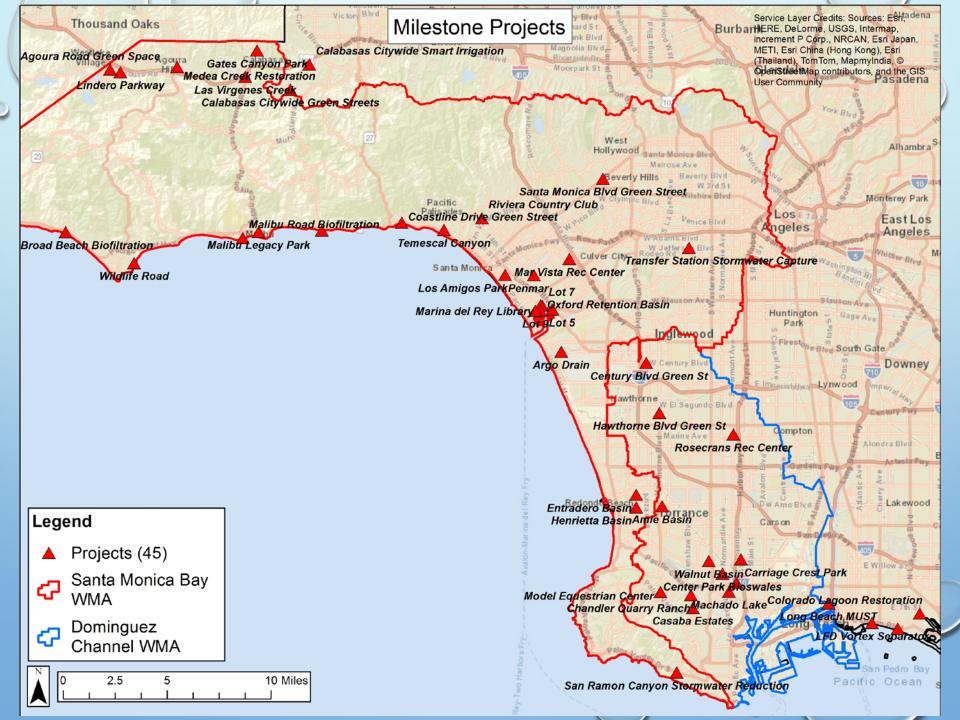
Focus on Upper Santa Clara River (USCR), Santa Monica Bay (SMB), and Dominguez Channel (DC) and Harbors Watersheds

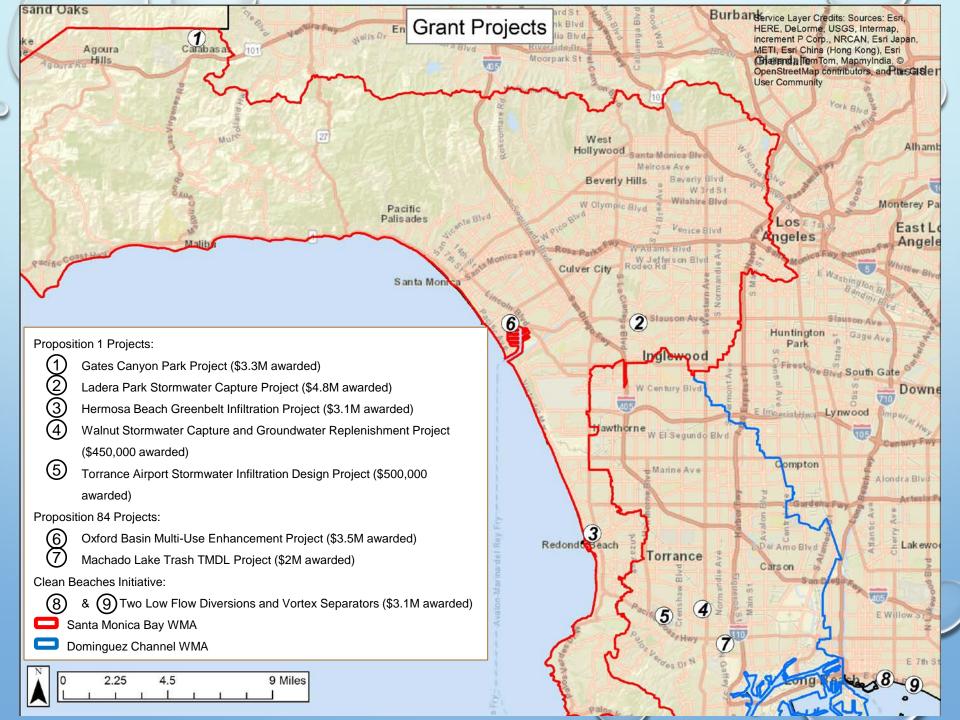


# Today's Workshop

- An overview of trends across the region with a focus on monitoring data and permit implementation updates for the following watersheds:
  - Upper Santa Clara River
  - Santa Monica Bay
  - Dominguez Channel and Harbors
- Overview of the Regional Permit







#### Stormwater Retention & TLR by WMP/EWMP Group since Effective Date of 2012 Permit

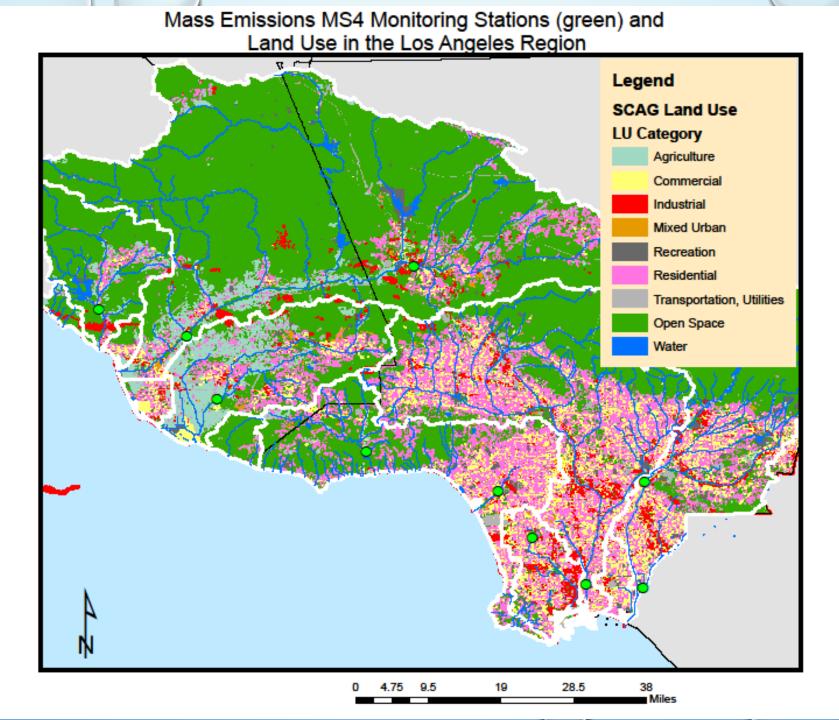
WMP/EWMP Group	Milestone	BMP Capacity or TLR required for Compliance with Near-term Milestones (TLR / acre-feet)	Total BMP Retention Capacity or TLR Achieved since 2012 (TLR /acre-feet)
Upper Santa Clara River EWMP Group	2029 - Final Bacteria TMDL	602.7	17.66
North Santa Monica Bay Coastal Watersheds EWMP Group	2017 - Final Malibu Creek Nutrients TMDL 2018 - 50% Reduction Wet Weather Bacteria TMDL	0% TLR of TN/TP 0% TLR of FC	0.21
Malibu Creek Watershed EWMP Group	2017 - Final Malibu Creek Nutrient TMDL	12.02	0.08
Santa Monica Bay J2&J3 EWMP Group	2018 - 50% Reduction Wet Weather Bacteria TMDL	1732.60	153.38
Marina del Rey Watershed EWMP Group	2016 - 50% Reduction MdR Back Basins Toxics TMDL	189	0.96
Ballona Creek Watershed EWMP Group	2019 - 75% Reduction Metals TMDL	1657.26	13.04
Beach Cities Watershed EWMP Group	2018 - 50% Reduction Wet Weather Bacteria TMDL	13% TLR of FC	14.4% TLR of FC
Palos Verdes Peninsula EWMP Group	2018 - 50% Reduction Wet Weather Bacteria TMDL 2018 - Machado Lake Nutrient TMDL	0% TL of FC 67.3-80.7% TLR of TP	7.5% TLR of FC 68.1% TLR of TP
Dominguez Channel EWMP Group	2026 - 50% reduction DC and Harbors Toxics TMDL	349.8	192.78
Santa Monica Bay J7 WMP Group	2018 - 50% Reduction Wet Weather Bacteria TMDL	0	0.95
Nearshore Watersheds (City of Long Beach)	2024 - 20% Pollutant Load Reduction	14.3	0.066



# **Region-Wide Monitoring Data**

Mass Emissions Stations (Receiving Water)



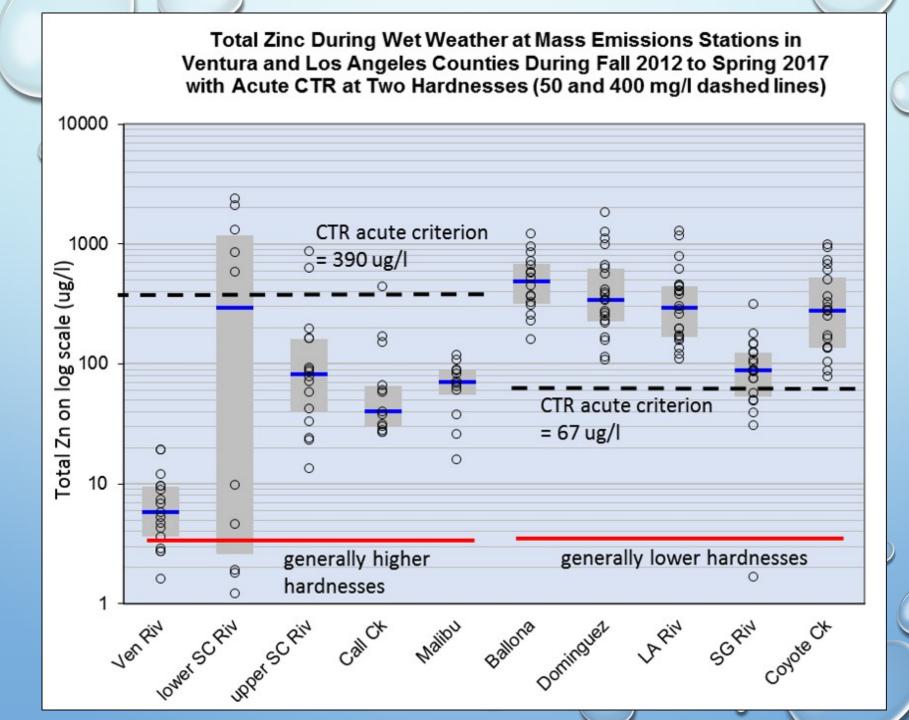


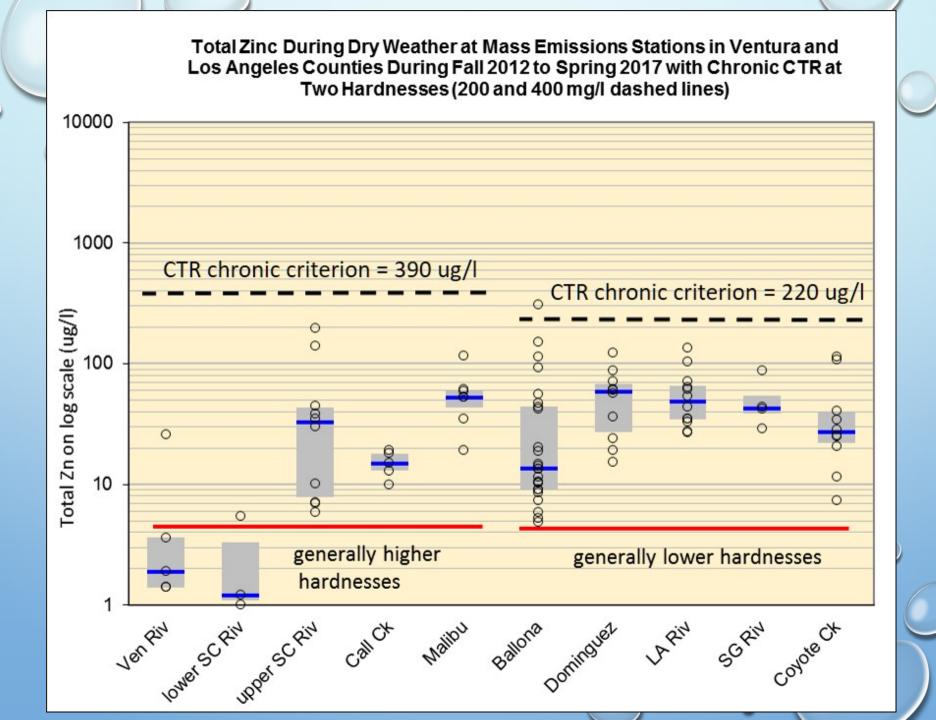




#### Total Zinc in the Region During Wet and Dry Weather









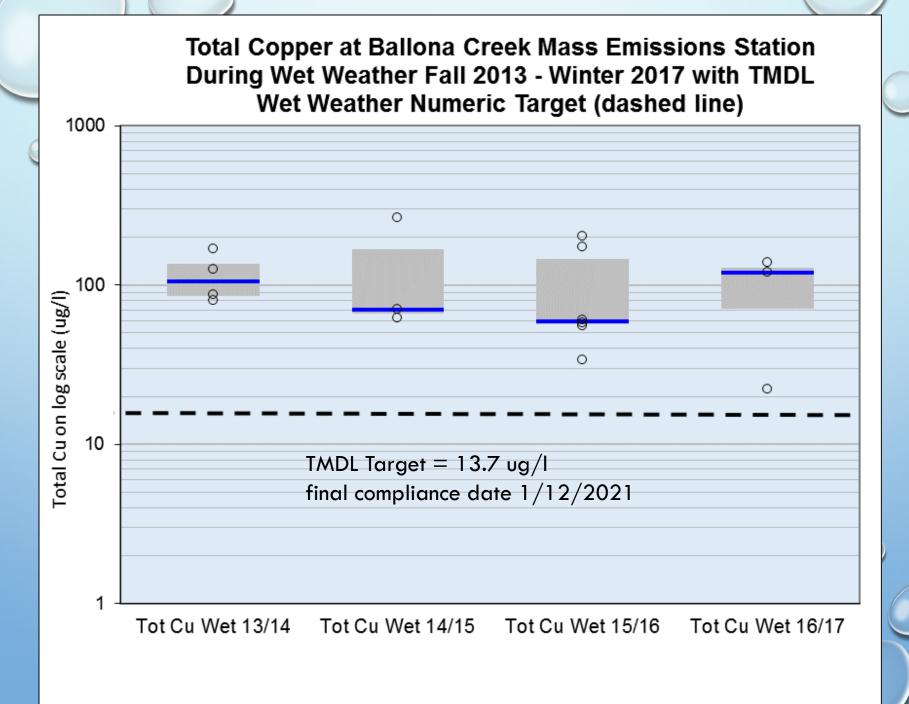
#### Pollutant Concentrations at Mass Emissions Stations During Wet and Dry Weather

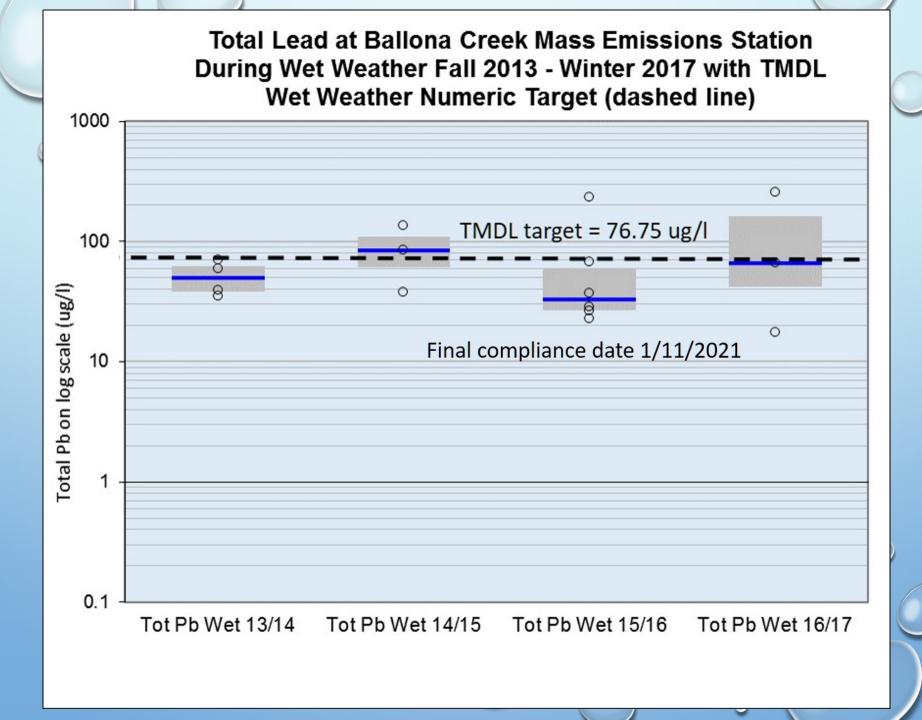
Ballona Creek and Dominguez Channel



#### Results at Ballona Creek Mass Emissions Station Through Time During Wet and Dry Weather

S01 at Sawtelle

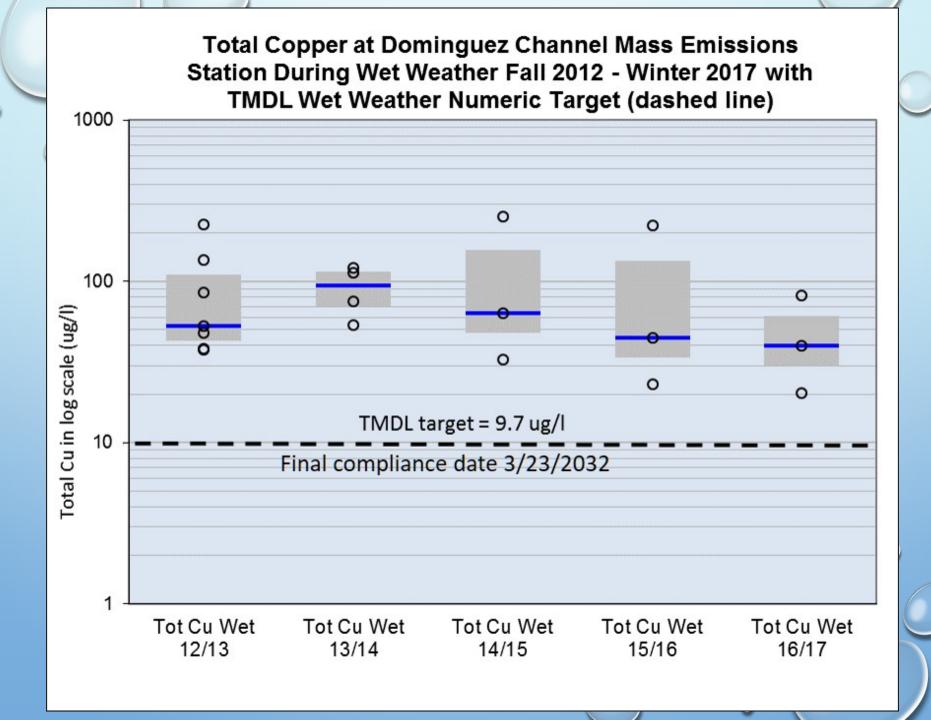




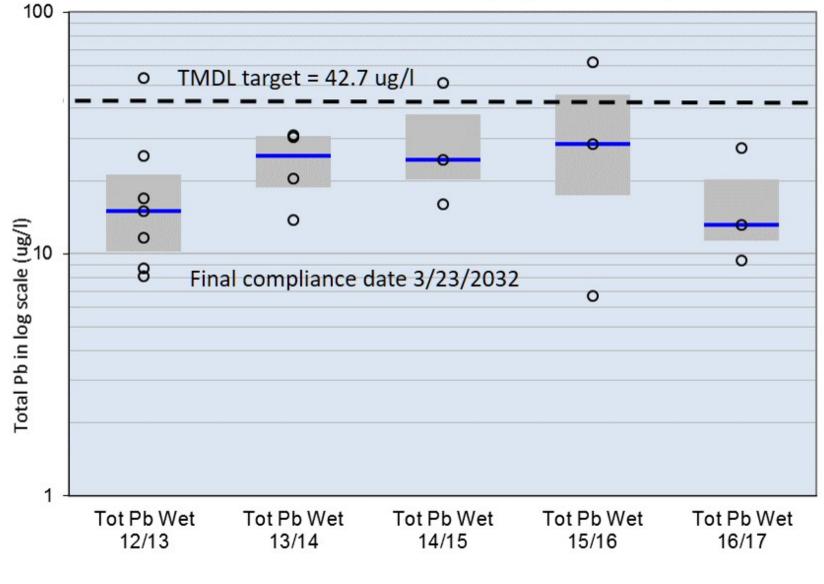


#### Results at Dominguez Channel Mass Emissions Station Through Time During Wet and Dry Weather

S28



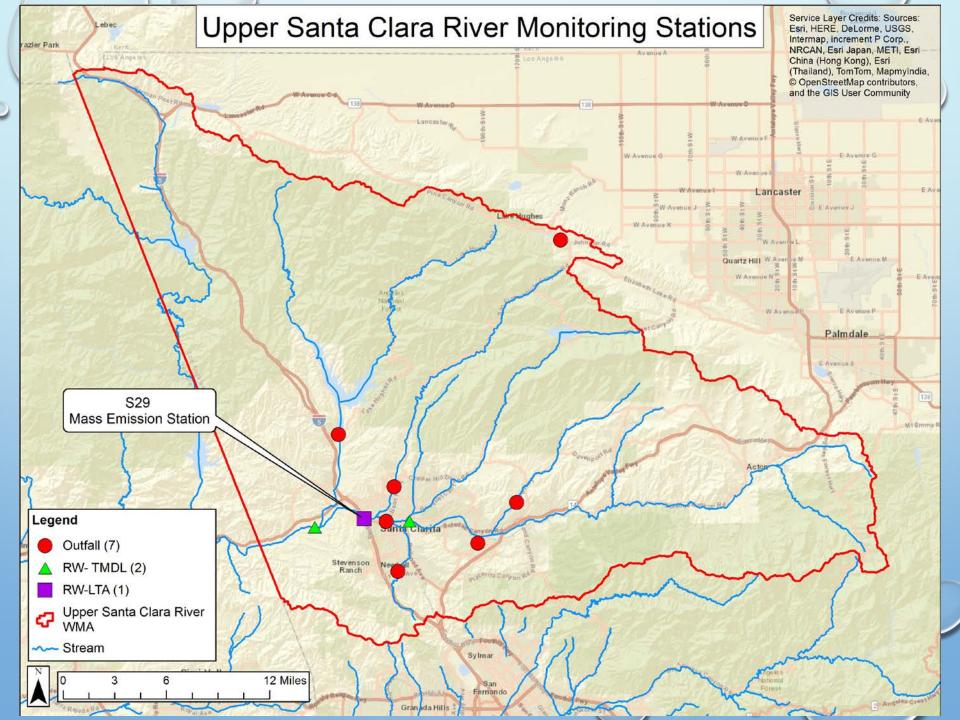
Total Lead at Dominguez Channel Mass Emissions Station During Wet Weather Fall 2012 - Winter 2017 with TMDL Wet Weather Numeric Target (dashed line)





Upper Santa Clara River, Santa Monica Bay (including subwatersheds: Malibu Creek, Ballona Creek, Marina del Rey), and Dominguez Channel (including Machado Lake subwatershed)





#### TMDLs with Past Interim and Final Compliance Dates in the Upper Santa Clara River Watershed

TOTAL MAXIMUM DAILY LOADS (TMDL)	Compliance Dates: Through 2017
Santa Clara River Nitrogen Compounds TMDL	Final — 12/28/2012
Upper Santa Clara River Chloride TMDL	Final — 12/28/2012
Lake Elizabeth Trash TMDL	Final - 3/6/2016
Santa Clara River Indicator Bacteria TMDL	Interim - 3/21/2016
(Wet and Dry Weather)	

#### Santa Clara River Nitrogen Compounds TMDL

<u>Ammonia</u>

0 Exceedances in 15 Outfall Samples

Nitrate + Nitrite

0 Exceedances in 14 Outfall Samples

#### Upper Santa Clara River Chloride TMDL

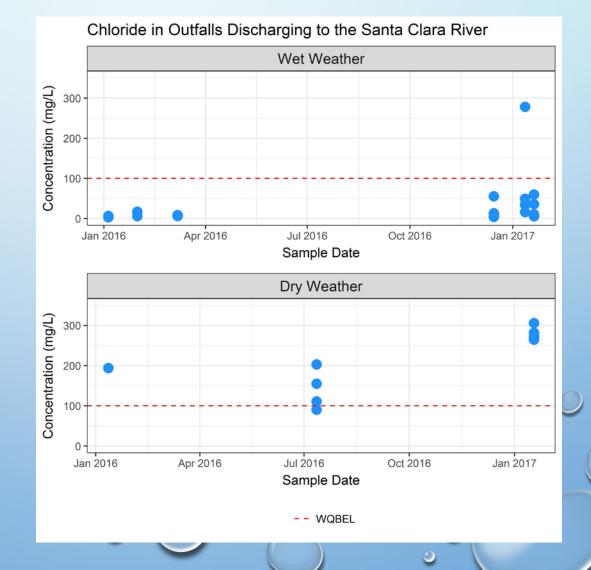
#### **Outfall Results**

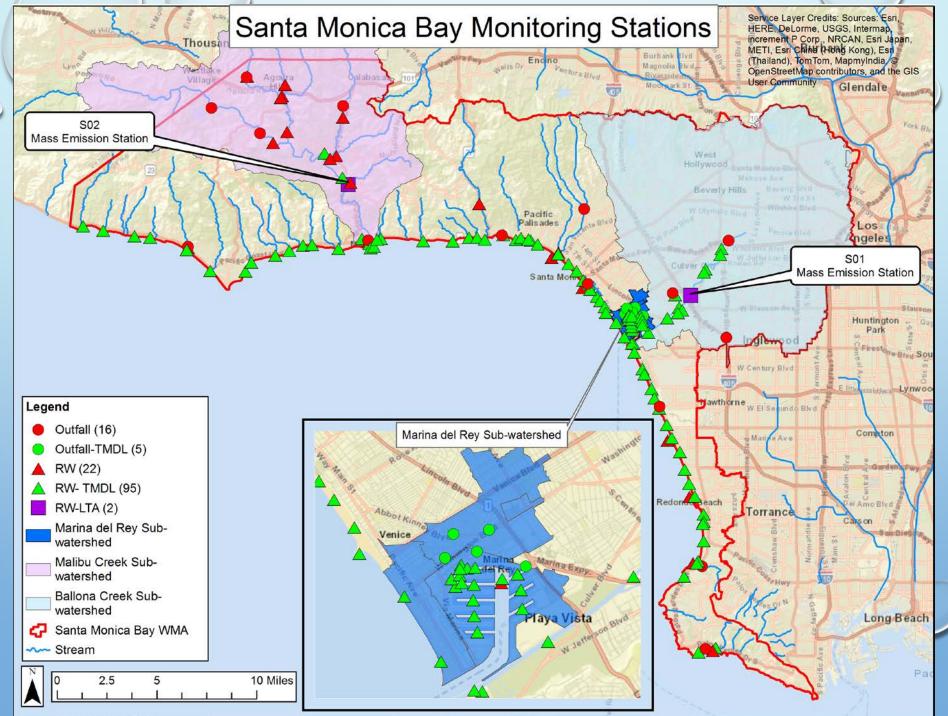
Wet Weather

1 Exceedance in 19 Samples

Dry Weather

9 Exceedances in 10 Samples





# TMDLs with Past Interim and Final Compliance Dates in the Santa Monica Bay Watershed

TOTAL MAXIMUM DAILY LOADS (TMDL)	Compliance Dates: Through 2017
Santa Monica Bay Beaches Bacteria TMDL (Summer and Winter Dry Weather Only)	Final - 12/28/2012
Santa Monica Bay Beaches Bacteria TMDL	Interim - 25% Reduction by
(Wet Weather Only)	7/15/2013
Santa Monica Bay Nearshore and Offshore	Interim – 40% Reduction by
Debris TMDL	3/20/2017
Santa Monica Bay TMDL for DDTs and PCBs	Compliance Schedule defined
(USEPA Promulgated)	by Approved WMP/EWMP

# TMDLs with Past Interim and Final Compliance Dates in the Malibu Creek Subwatershed

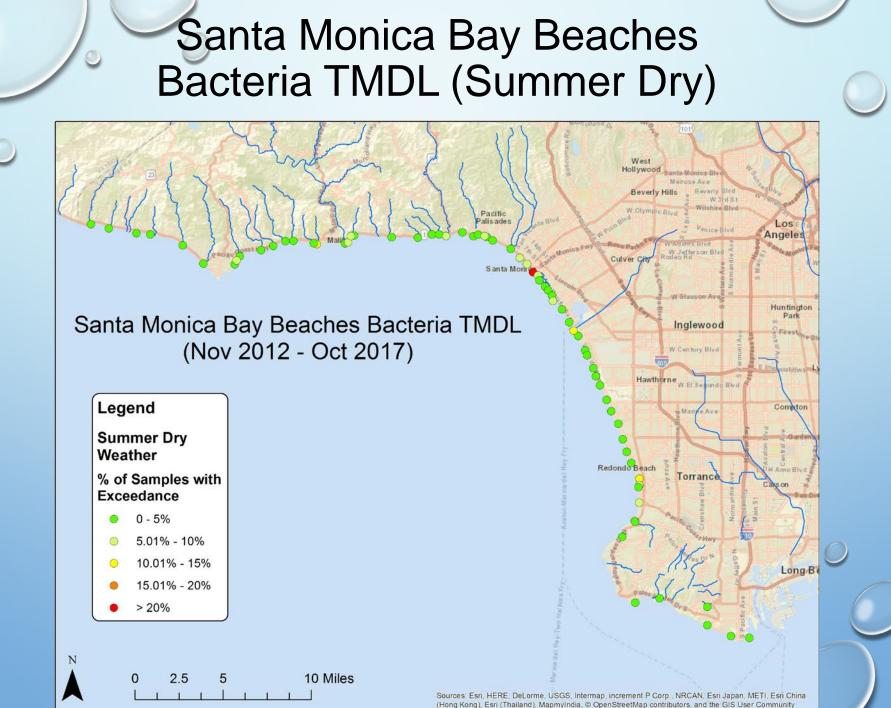
TOTAL MAXIMUM DAILY LOADS (TMDL)	Compliance Dates: Through 2017
Malibu Creek and Lagoon Bacteria TMDL (Summer and Winter Dry Weather Only)	Final - 12/28/2012
Malibu Creek Watershed Trash TMDL	<b>Final - 7/7/2017</b>
Malibu Creek Watershed Nutrients TMDL (USEPA Promulgated)	Final - 12/28/2017

# TMDLs with Past Interim and Final Compliance Dates in the Ballona Creek Subwatershed

TOTAL MAXIMUM DAILY LOADS (TMDL)	Compliance Dates:
	Through 2017
Ballona Creek, Ballona Estuary, and Sepulveda	Final - 4/27/2013
Channel Bacteria TMDL (Dry Weather Only)	
Ballona Creek Trash TMDL	Final - 9/30/2015
Ballona Creek Metals TMDL (Dry Weather Only)	Final - 1/11/2016
Ballona Creek Metals TMDL (Wet Weather Only)	Interim – 50% by 1/11/2016
Ballona Creek Estuary Toxic Pollutants TMDL	Interim - 75% by 1/11/2017
Ballona Creek Wetlands TMDL for Sediment and	Compliance Schedule defined
Invasive Exotic Vegetation (USEPA Promulgated)	by Approved WMP/EWMP

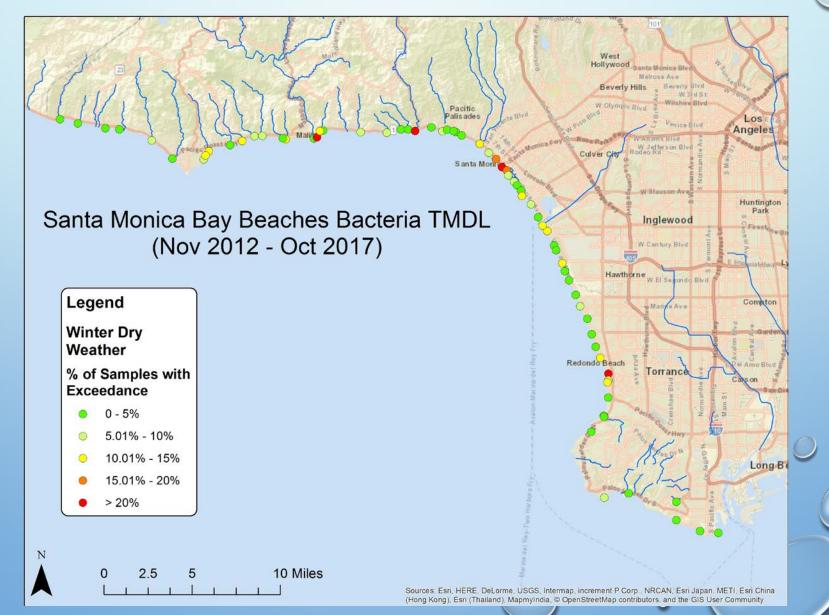
# TMDLs with Past Interim and Final Compliance Dates in the Marina del Rey Subwatershed

TOTAL MAXIMUM DAILY LOADS (TMDL)	Compliance Dates: Through 2017
Marina del Rey Harbor Mothers' Beach and Back	
Basins Bacteria TMDL	Final — 12/28/2012
(Summer and Winter Dry Weather Only)	
Marina del Rey Harbor Toxics Pollutants TMDL	Final - 3/22/2016

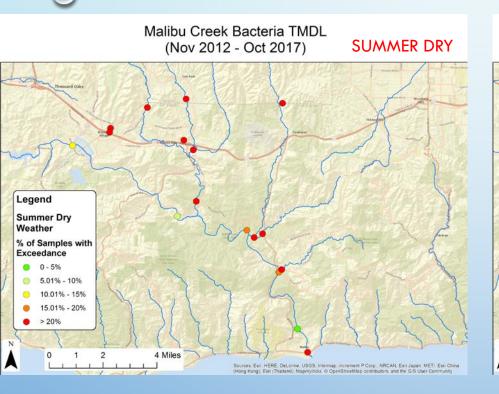


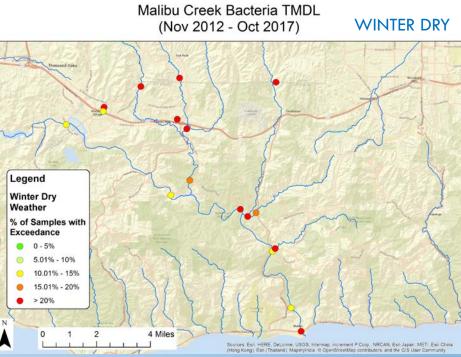
nd), MapmyIndia, © OpenStreetMap contribu

### Santa Monica Bay Beaches Bacteria TMDL (Winter Dry)

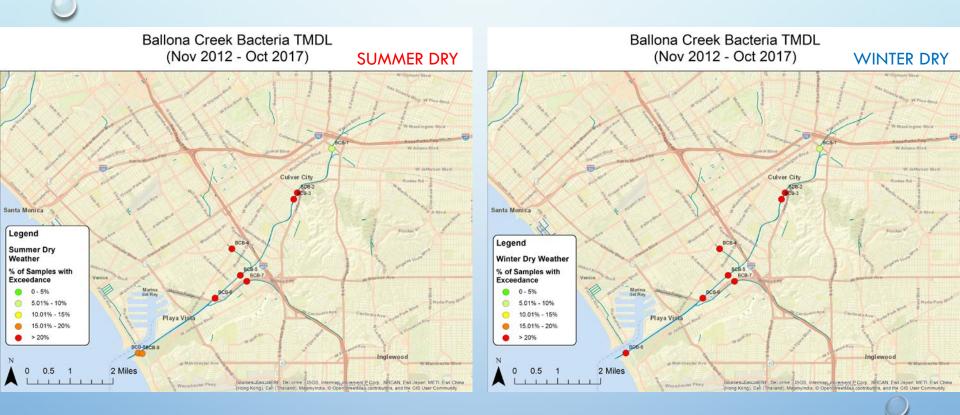


# Malibu Creek Bacteria TMDL

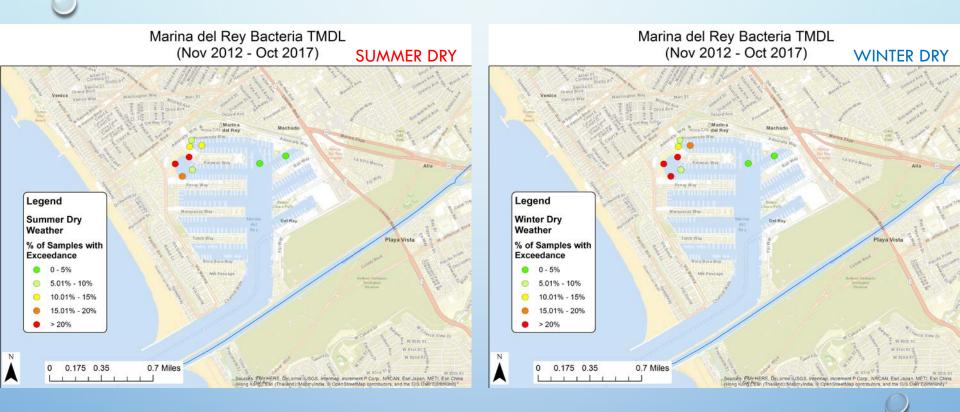




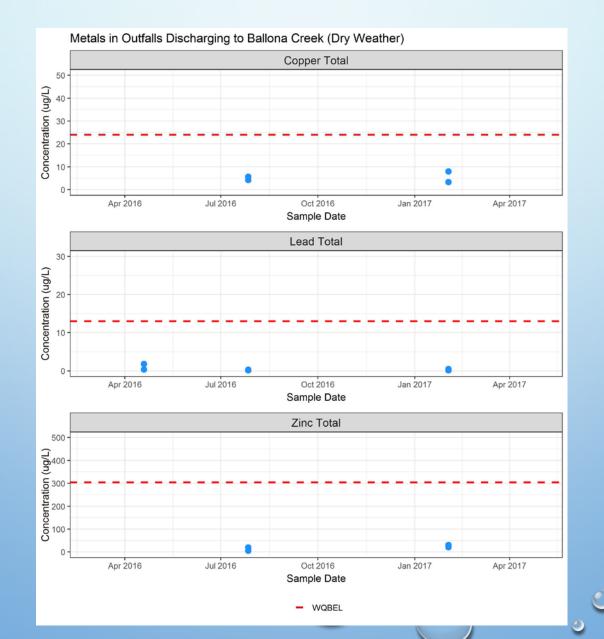
# **Ballona Creek Bacteria TMDL**

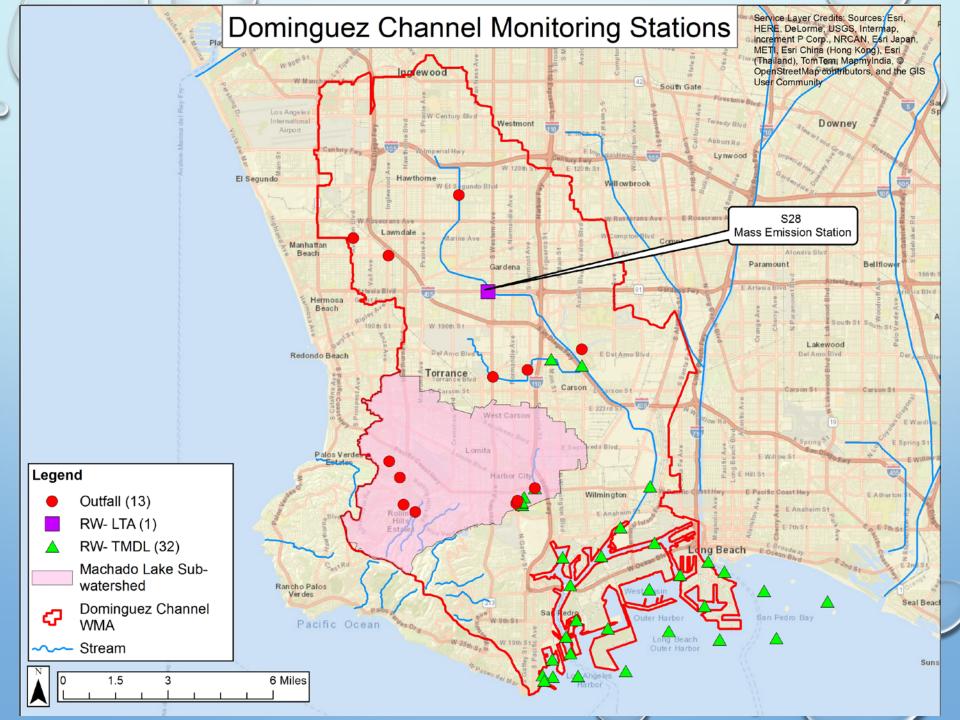


# Marina del Rey Bacteria TMDL



#### Ballona Creek Metals TMDL – Dry Weather



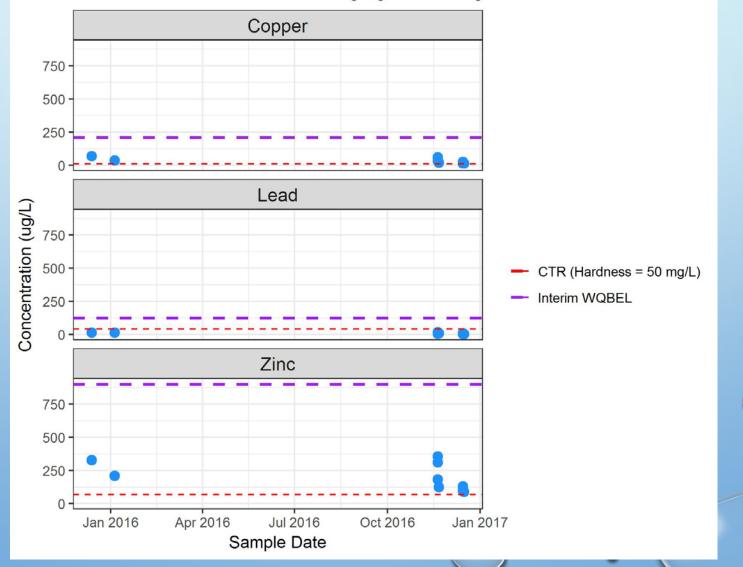


#### TMDLs with Past Interim and/or Final Compliance Dates in the Dominguez Channel Watershed (including Machado Lake Subwatershed)

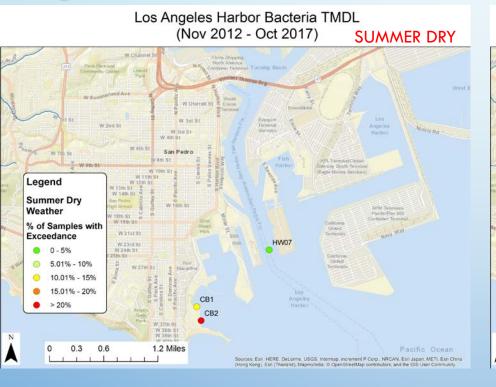
TOTAL MAXIMUM DAILY LOADS (TMDL)	Compliance Dates: Through 2017
Los Angeles Harbor Bacteria TMDL	Final - 12/28/2012
Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants TMDL	Interim - 12/28/2012
Machado Lake Nutrient TMDL	Interim - 3/11/2014
Machado Lake Trash TMDL	Final - 3/6/2016

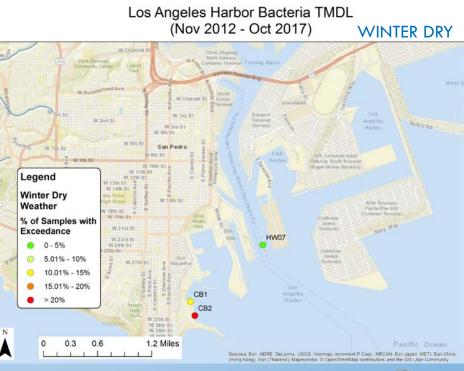
#### Dominguez Channel and Greater Harbor Toxics TMDL - Wet Weather

Total Metals in Outfalls Discharging to Dominguez Channel

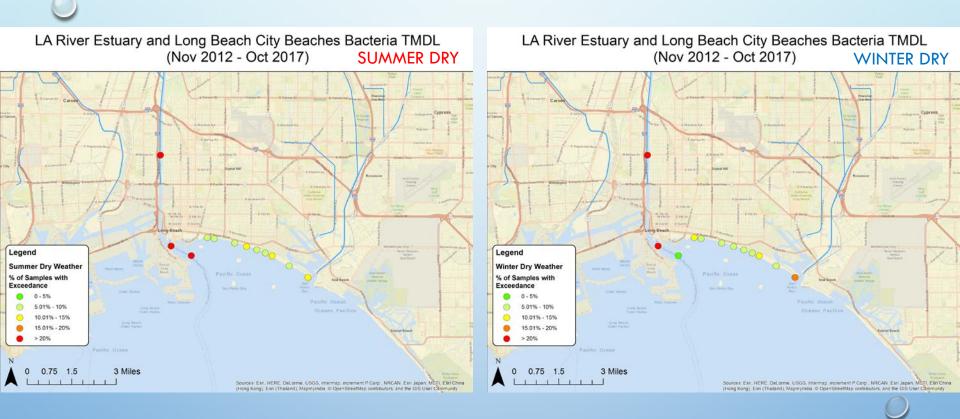


### Los Angeles Harbor Bacteria TMDL





#### LA River Estuary and Long Beach City Beaches Bacteria TMDL



# Regional Phase I MS4 Permit



# **Anticipated Permit Process Timeline**



# Proposed Requirements in the Regional Phase I MS4 Permit

- New/revised TMDLs since the issuance of the previous permits
- State-Wide Trash Amendment provisions
- Provide Ventura County MS4 permittees the option to develop a Watershed Management Program

# Proposed Requirements in the Regional Phase I MS4 Permit

- Submit monitoring data to the California Environmental Data Exchange Network (CEDEN).
- Reporting requirements will clearly define reporting periods.
- Annual Report Form as an Attachment

# **Upcoming Board Workshops**

- September Board Workshop (9/13/18):
  - Monitoring data and permit implementation for Ventura County
  - Regional Permit Overview
- Workshops on Specific Regional Permit Topics: TBD

### Order of Permittee/Stakeholder Presentations

Order	Permittees and Stakeholder Presentations
1	Nearshore Watersheds (City of Long Beach) WMP
2	Beach Cities EWMP Group
3	Palos Verdes Peninsula EWMP Group
4	Dominguez Channel EWMP Group
5	Santa Monica Bay Jurisdiction 2, 3, & 7 WMAs
6	Ballona Creek EWMP Group
7	Marina del Rey EWMP Group
8	North Santa Monica Bay EWMP Group
9	Upper Santa Clara River EWMP Group
10	Malibu Creek EWMP Group
11	Los Angeles County
12	LAWK, NRDC, and HTB
13	Interested Persons