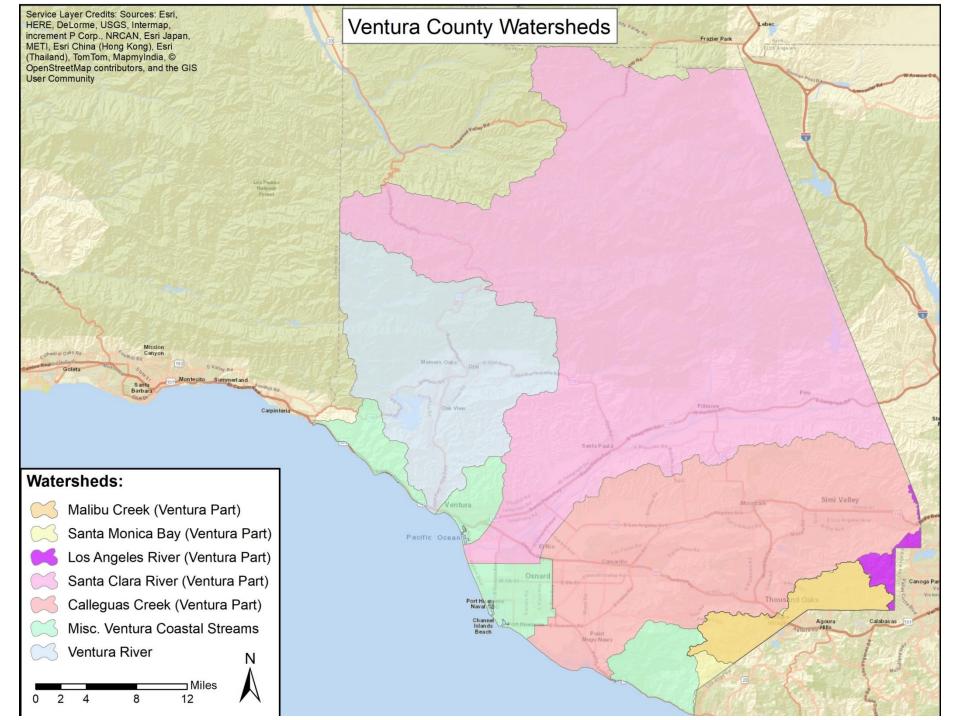
Regional Phase I MS4 Permit Reissuance Workshop # 3

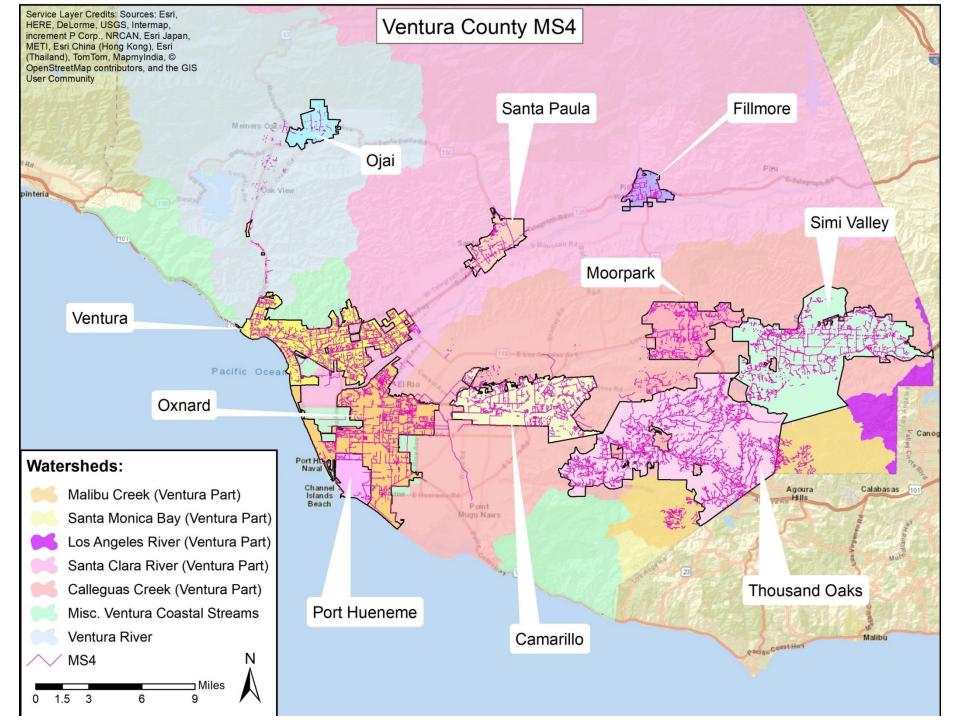
Focus on Ventura County

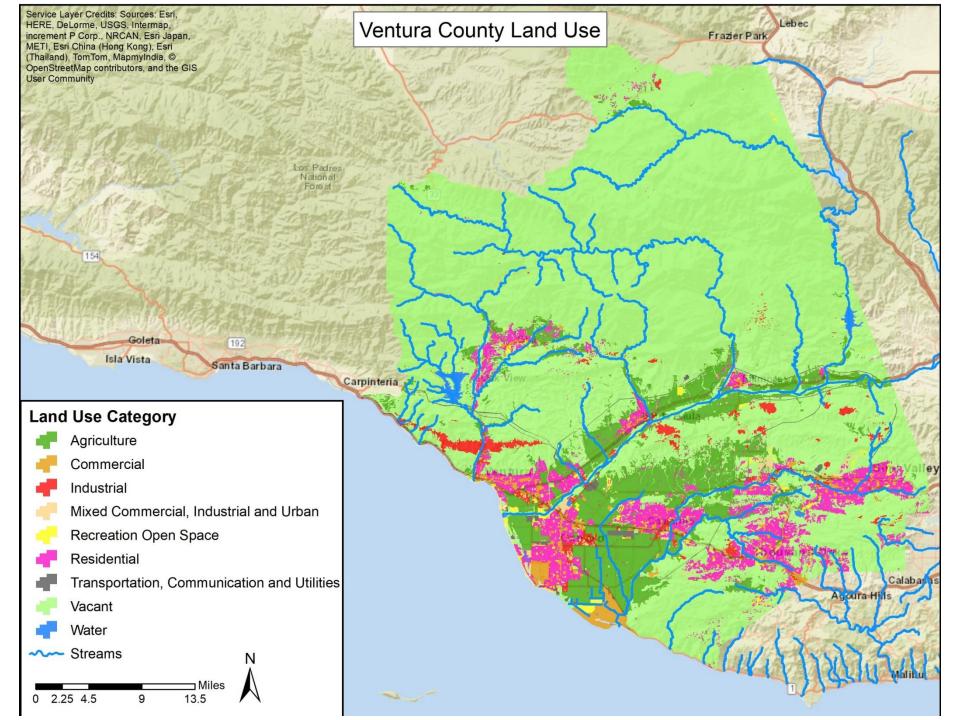
Item 17 September 13, 2018

Ventura County MS4 Permit

- * The Board adopted Order No. R4-2010-0108 on July 8, 2010.
- Principal Permittee: Ventura County Watershed
 Protection District
- * 11 Co-Permittees:
 - * County of Ventura
 - Cities of Camarillo, Fillmore, Moorpark, Ojai, Oxnard, Port Hueneme, Ventura, Santa Paula, Simi Valley, and Thousand Oaks



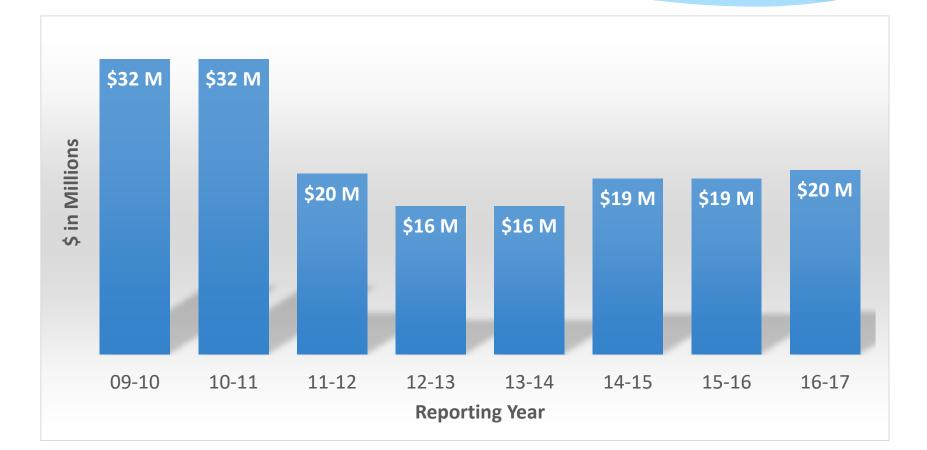




Program Elements

- * Non-Stormwater Discharge Prohibition
- * Receiving Water Limitations
- * TMDL Provisions
- * 6 Minimum Control Measures (MCMs)
- Monitoring and Reporting Program (MRP)

Ventura County MS4 Permit Implementation Costs



Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Grant Projects

ebec

(4)

8 Agourt

Calabasas

Frazier Park

Watersheds:

- Malibu Creek (Ventura Part)
- Santa Monica Bay (Ventura Part)
- Los Angeles River (Ventura Part)
- Santa Clara River (Ventura Part)
- Calleguas Creek (Ventura Part)
- Misc. Ventura Coastal Streams
 - Ventura River

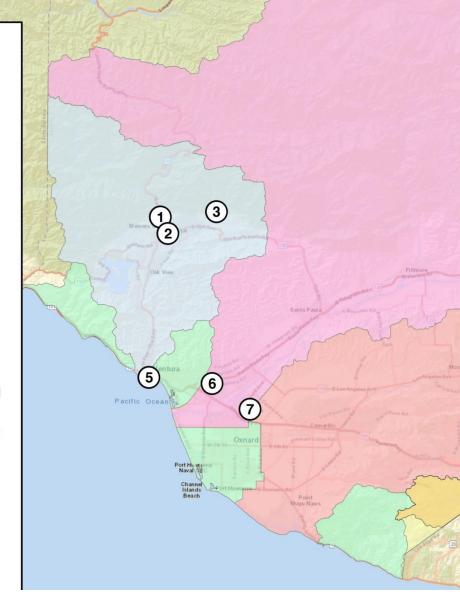
Grants Projects:

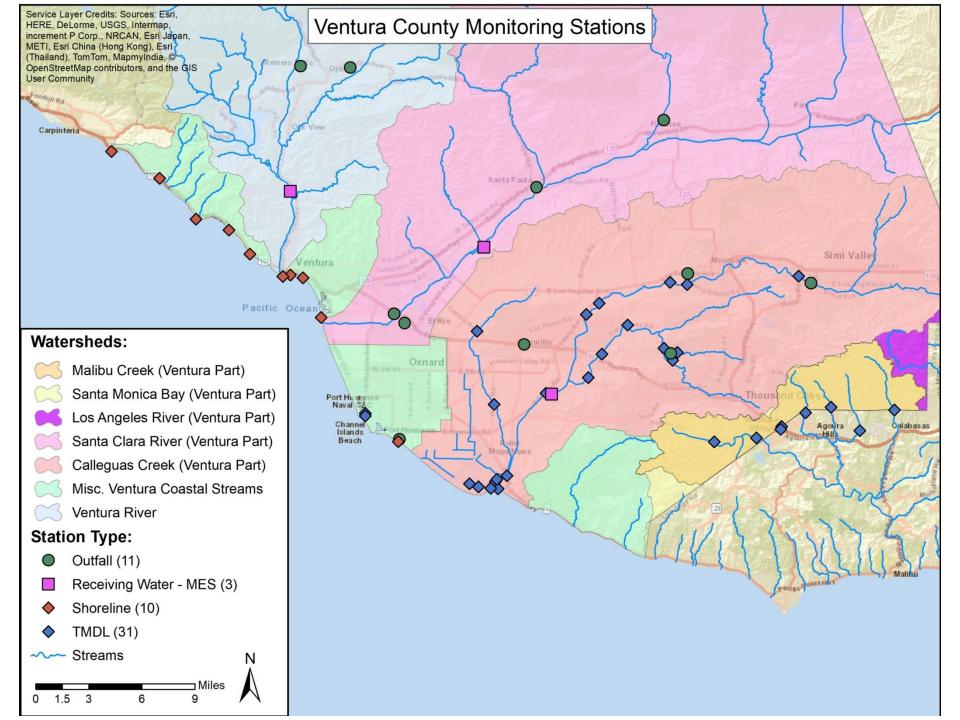
- 1 Ojai Wetland Restoration (\$985,000)
- 2 Happy Valley Bioswale (\$815,651)
- 3 San Antonio Creek Spreading Grounds (\$1,831,994)
- 4 Piru Stormwater Capture (\$455,837)
- Promenade Park LFD California St. and Figueroa St (\$838,802)
- 6 County Government Center Parking Lot (\$1,495,294)
- 7 El Rio Retrofit (\$948,501)

8

8) Oak Park Green Streets (\$1,397,990)

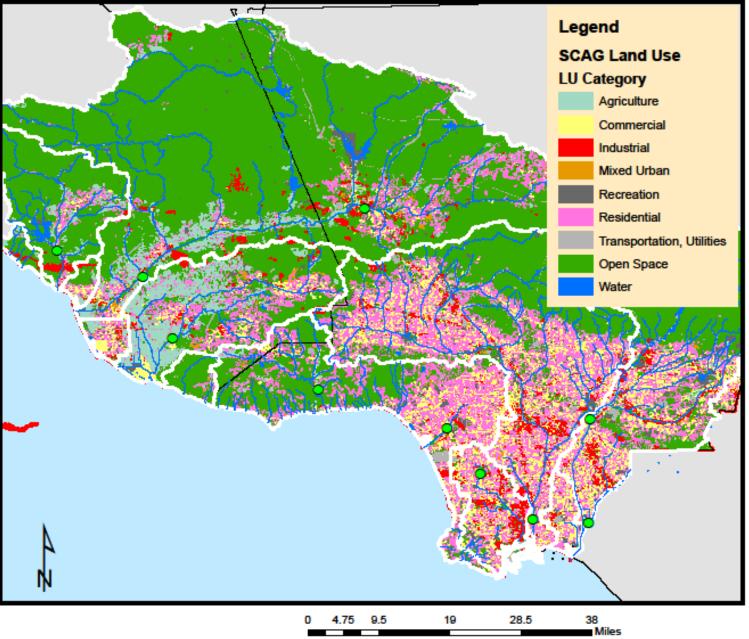
Miles



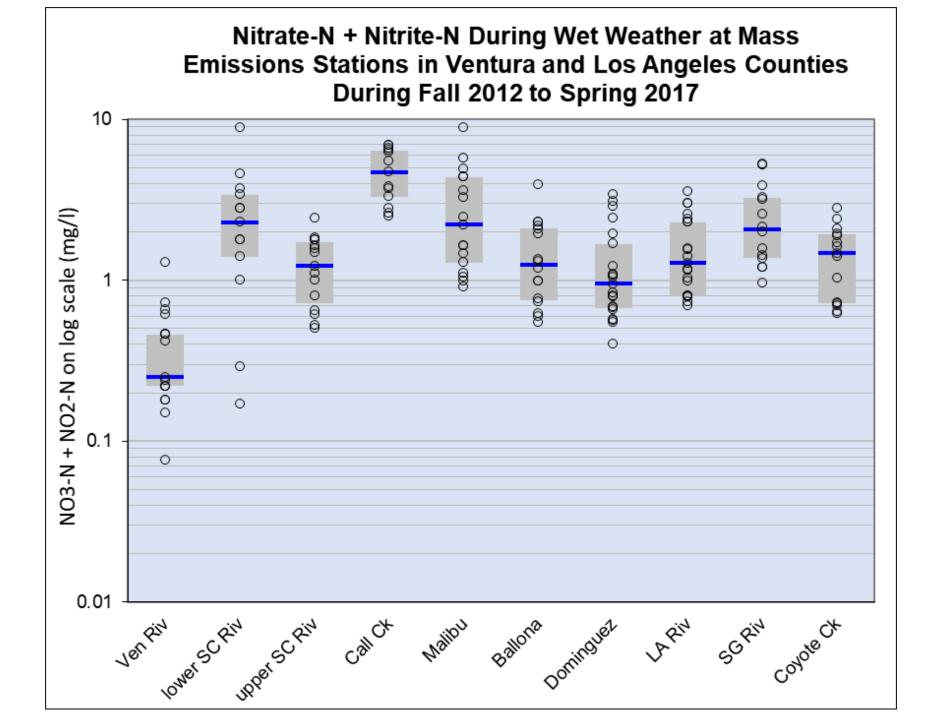


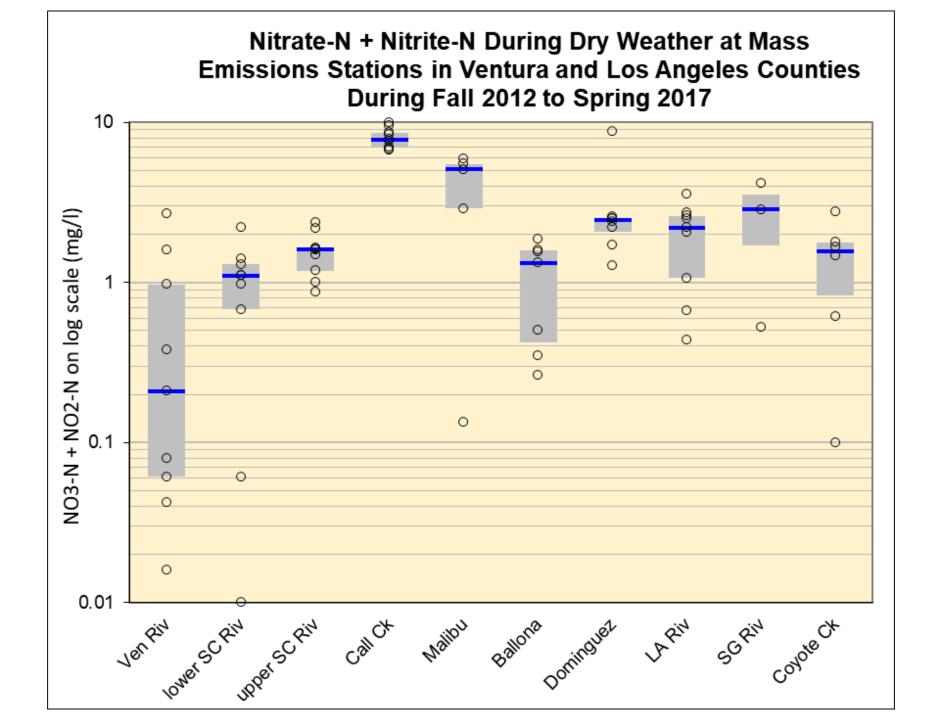
Region-Wide Monitoring Data

Mass Emissions MS4 Monitoring Stations (green) and Land Use in the Los Angeles Region

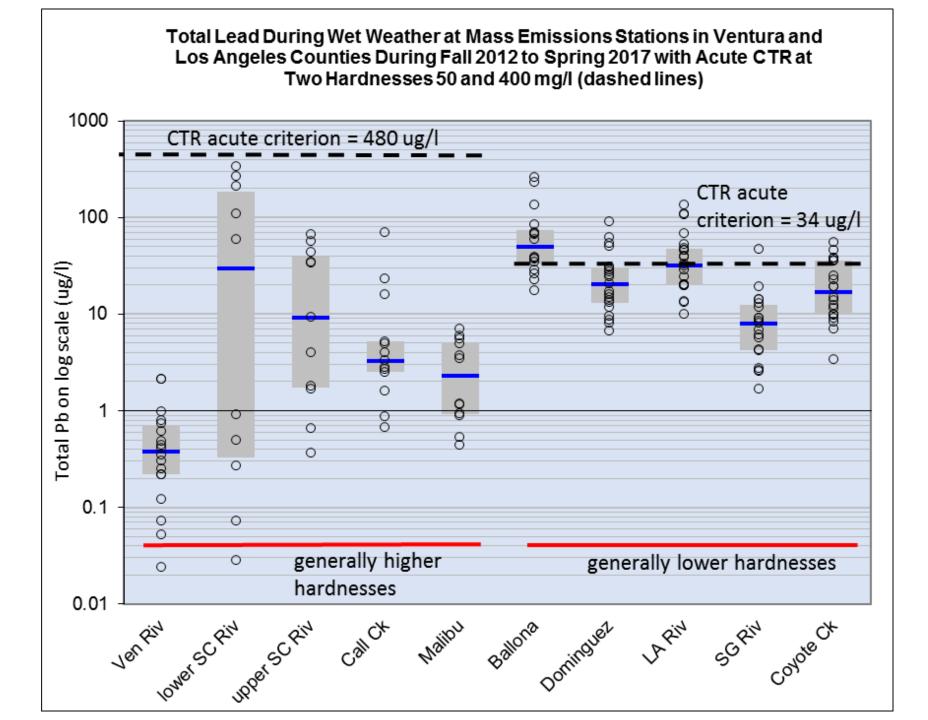


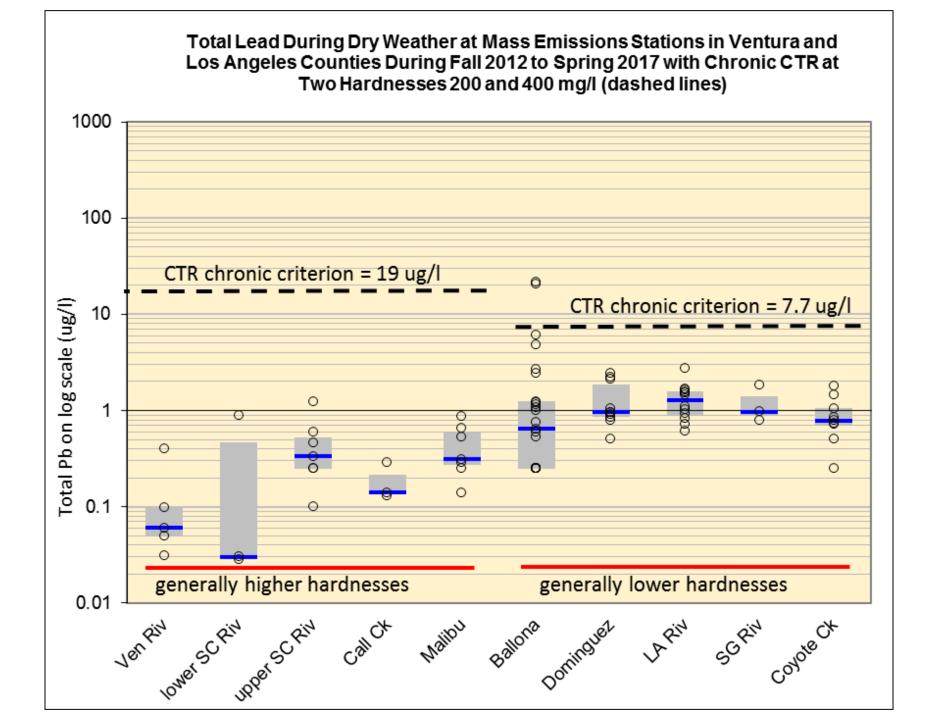
Nitrogen (Nitrate-N + Nitrite-N) in the Region During Wet and Dry Weather





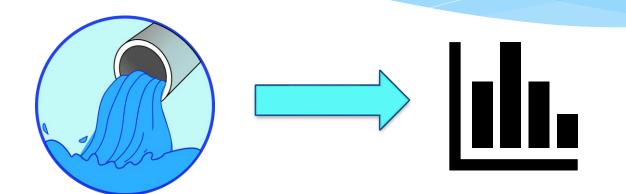
Total Lead in the Region During Wet and Dry Weather





Monitoring Data Analysis

Ventura County

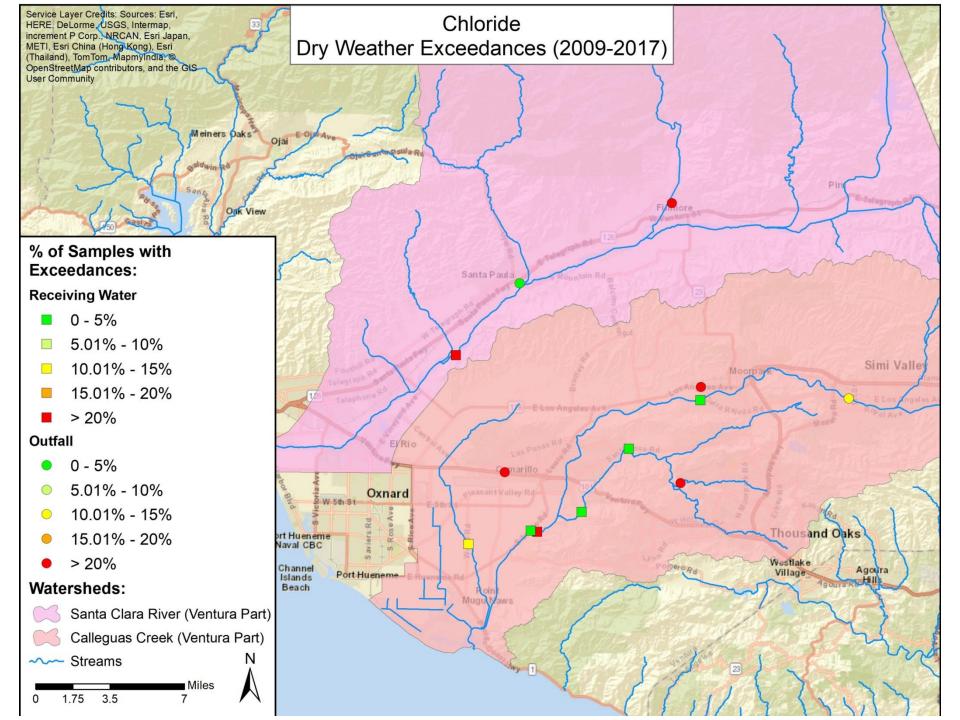


TMDLs in the Ventura County MS4 Permit with Past Interim and Past Final Compliance Dates Through 2017 for the Santa Clara River Watershed, Malibu Creek Sub-watershed, Ventura River Watershed, and Miscellaneous Ventura Coastal Watersheds

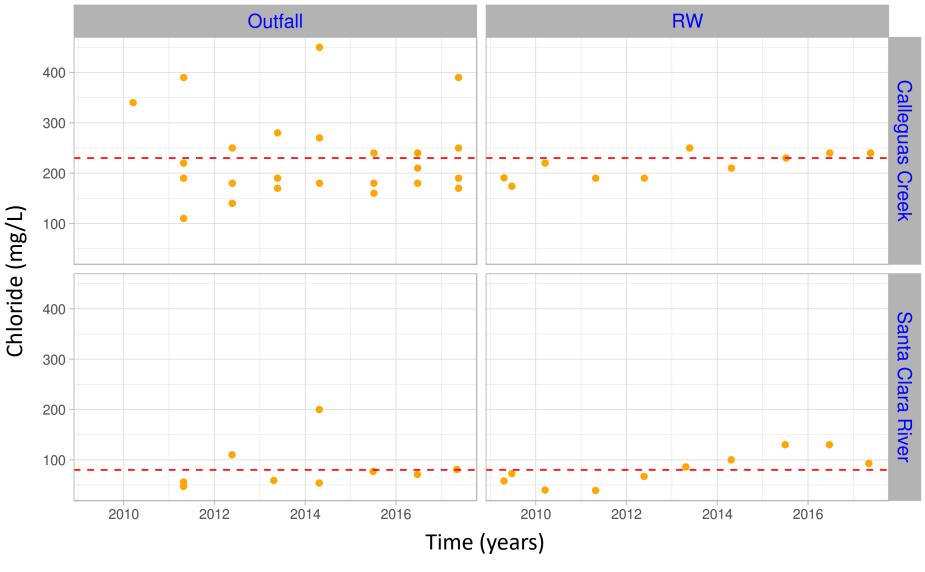
Total Maximum Daily Loads (TMDLs)	Compliance Dates: Through 2017
Santa Clara River Nitrogen Compounds TMDL	Final - 7/8/10
Upper Santa Clara River Chloride TMDL	Final – 5/4/2016
TMDL for Chloride in the Santa Clara River, Reach 3 – USEPA Promulgated	Final - 7/8/10
Malibu Creek and Lagoon Bacteria TMDL	Summer Dry: Final - 1/24/2009 Winter Dry: Final - 1/24/2012 Wet Weather: Final - 1/24/2016
TMDL for Nutrients Malibu Creek Watershed – USEPA Promulgated	Final - 7/8/10
Ventura River Estuary Trash TMDL	Final - 3/6/2016
Harbor Beaches of Ventura County Bacteria TMDL Summer and Winter Dry Weather Only	Summer & Winter Dry: Final - 12/18/2013 Wet Weather: Interim — 7/8/10

TMDLs in the Ventura County MS4 Permit with Past Interim and Past Final Compliance Dates Through 2017 for the Calleguas Creek Watershed

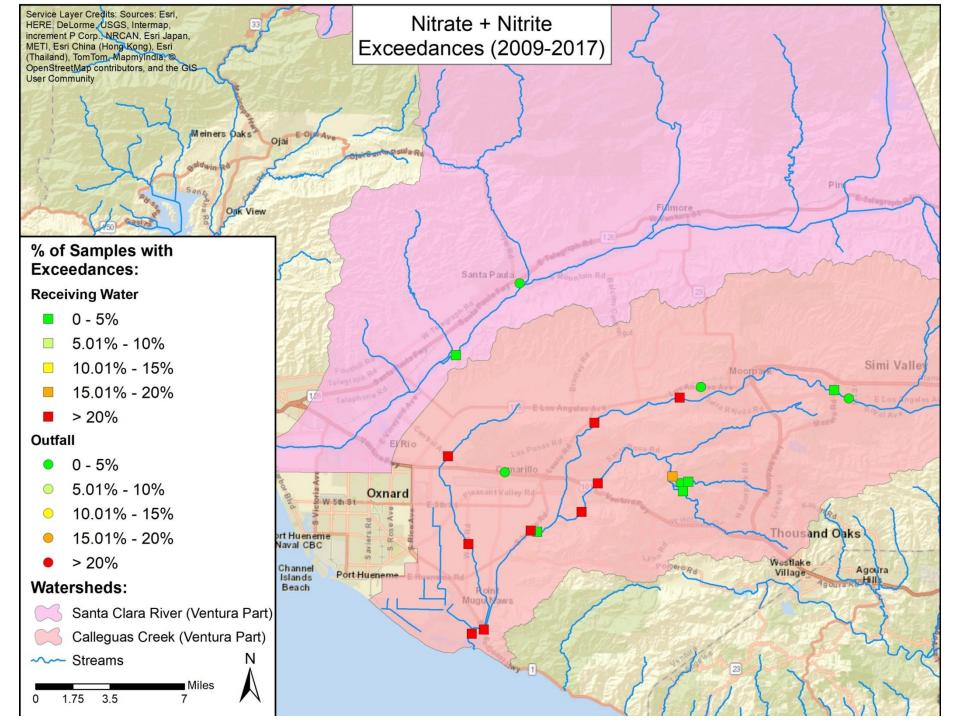
Total Maximum Daily Loads (TMDLs)	Compliance Dates: Through 2017
TMDL for Toxicity, Chlorpyrifos, and Diazinon in the Calleguas Creek, its Tributaries, and Mugu Lagoon	Final - 7/8/10
Calleguas Creek Nitrogen Compounds and Related Effects TMDL	Final - 10/15/2016
Calleguas Creek OC Pesticides and PCBs TMDL	Interim WLA – 7/8/10 Interim Siltation – 3/24/15
Calleguas Creek Watershed Metals and Selenium TMDL	Interim WLA – 7/8/10 25% reduction by 3/26/2012 50% reduction by 3/26/2017
Calleguas Creek Watersheds Salts TMDL	Interim WLA – 7/8/10 20% reduction by 12/2/2011 40% reduction by 12/2/2015
Revolon Slough and Beardsley Wash Trash TMDL	Final - 3/6/2016



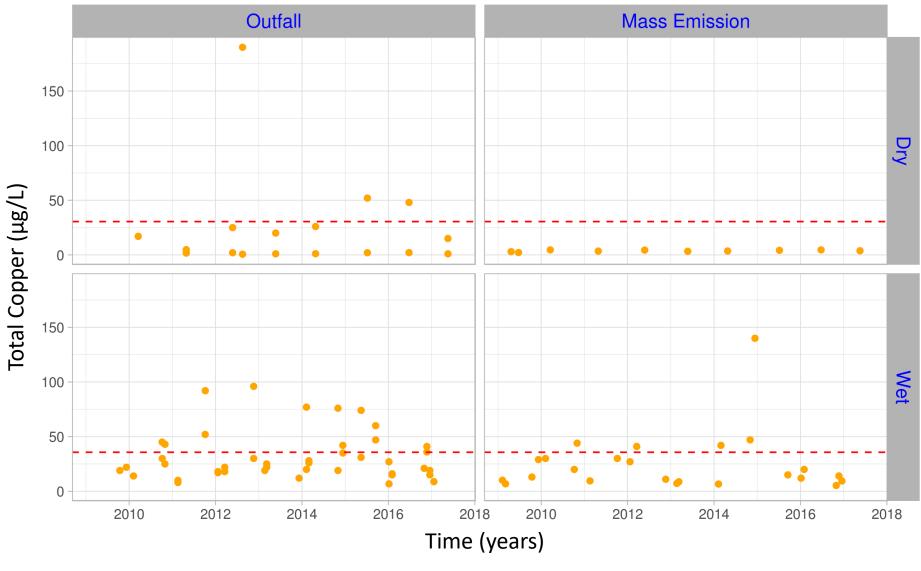
Chloride at Outfall and RW Stations (Dry Weather) Santa Clara River and Calleguas Creek Watersheds



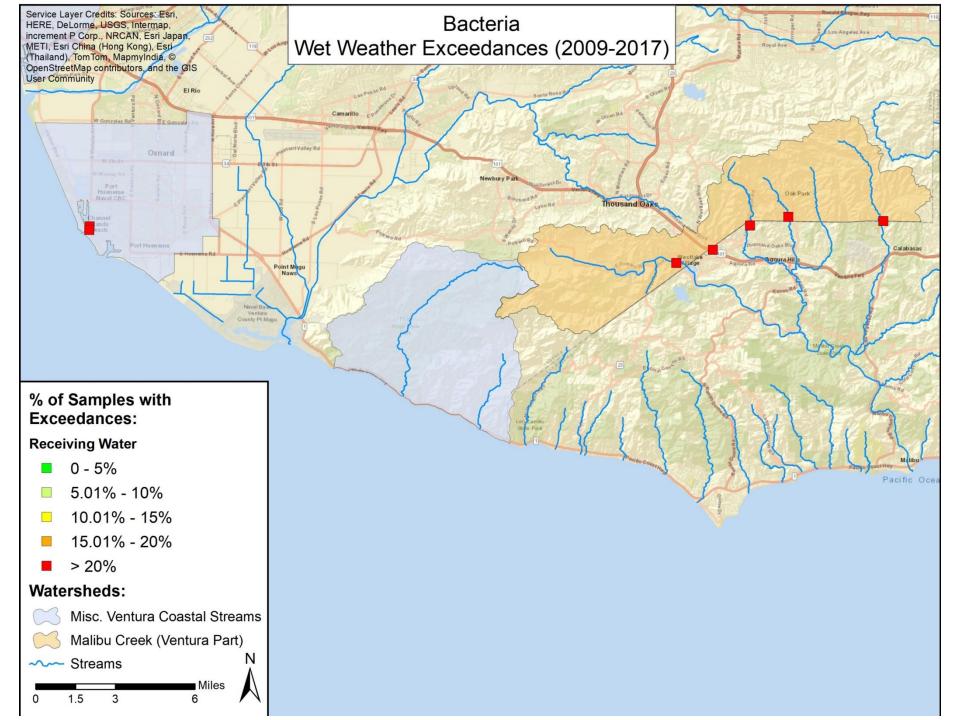
- - Permit Limit

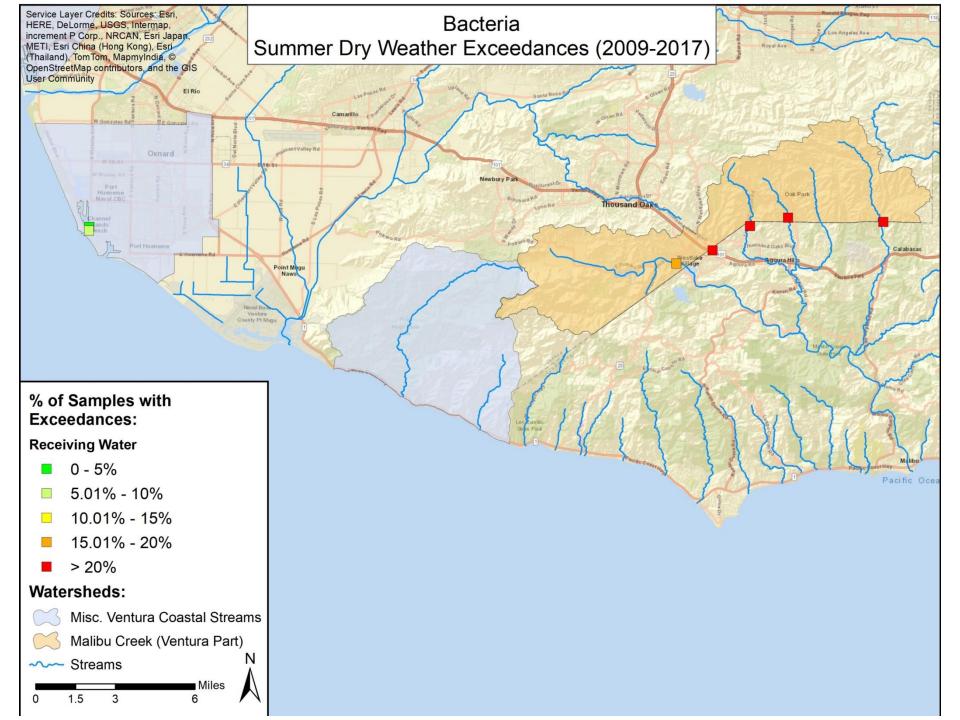


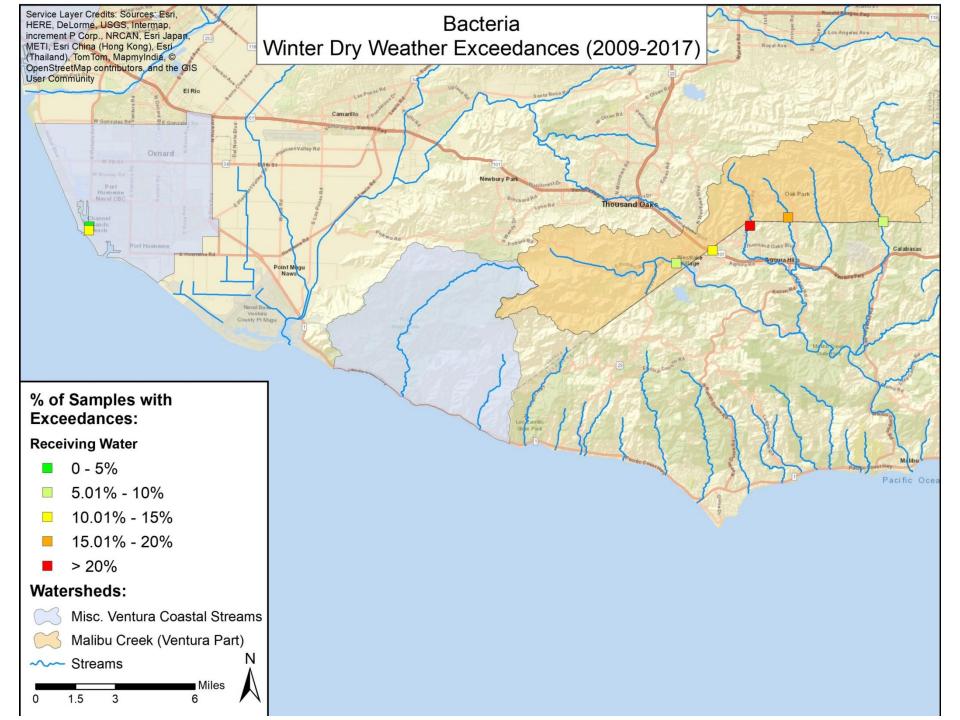
Calleguas Creek Metals TMDL - Total Copper ME and Outfall Stations



– – CTR Limit







Polychlorinated Biphenyls (PCBs)



<u>This Photo</u> by Unknown Author is licensed under <u>CC BY-SA</u>

Method Detection Limits (MDLs)
 Permittees used are too high

Reported MDL	Human Health
(water)	CTR Criteria
0.001 - 3 µg/L	0.00017 µg/L

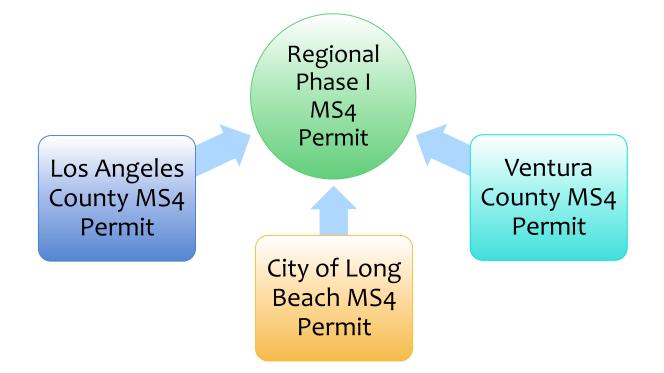
 9 years of available PCBs monitoring data for Calleguas Creek Watershed (142 water samples)

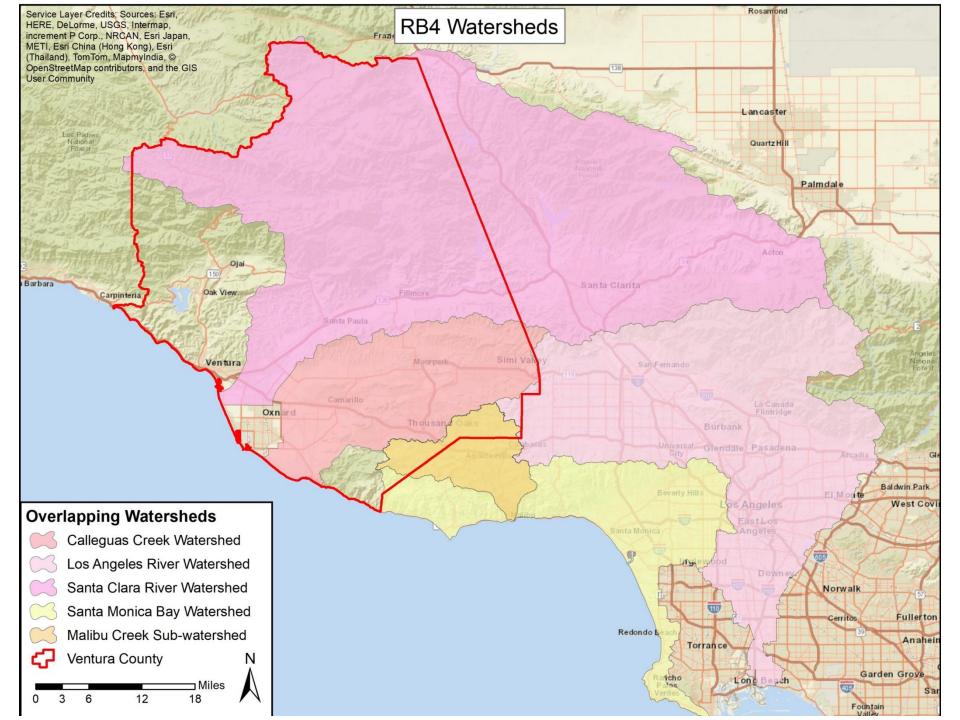
* Compliance Results = Inconclusive

Summary

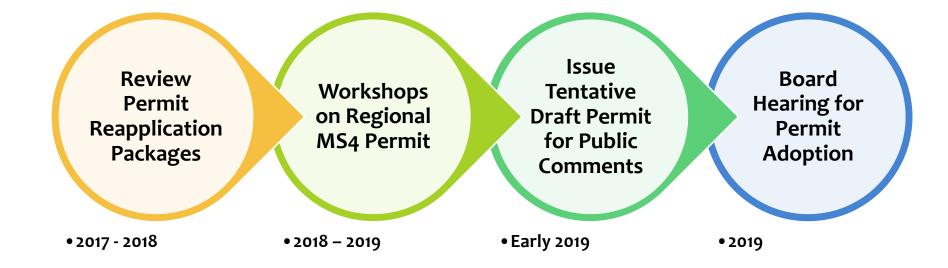


Regional Phase I MS4 Permit





Anticipated Permit Process Timeline



Permittee/Stakeholder Presentations

- * Ventura County MS4 Permittees
- * Environmental Groups
- * Other Interested Persons