

Stormwater Quality Monitoring



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Stormwater Monitoring

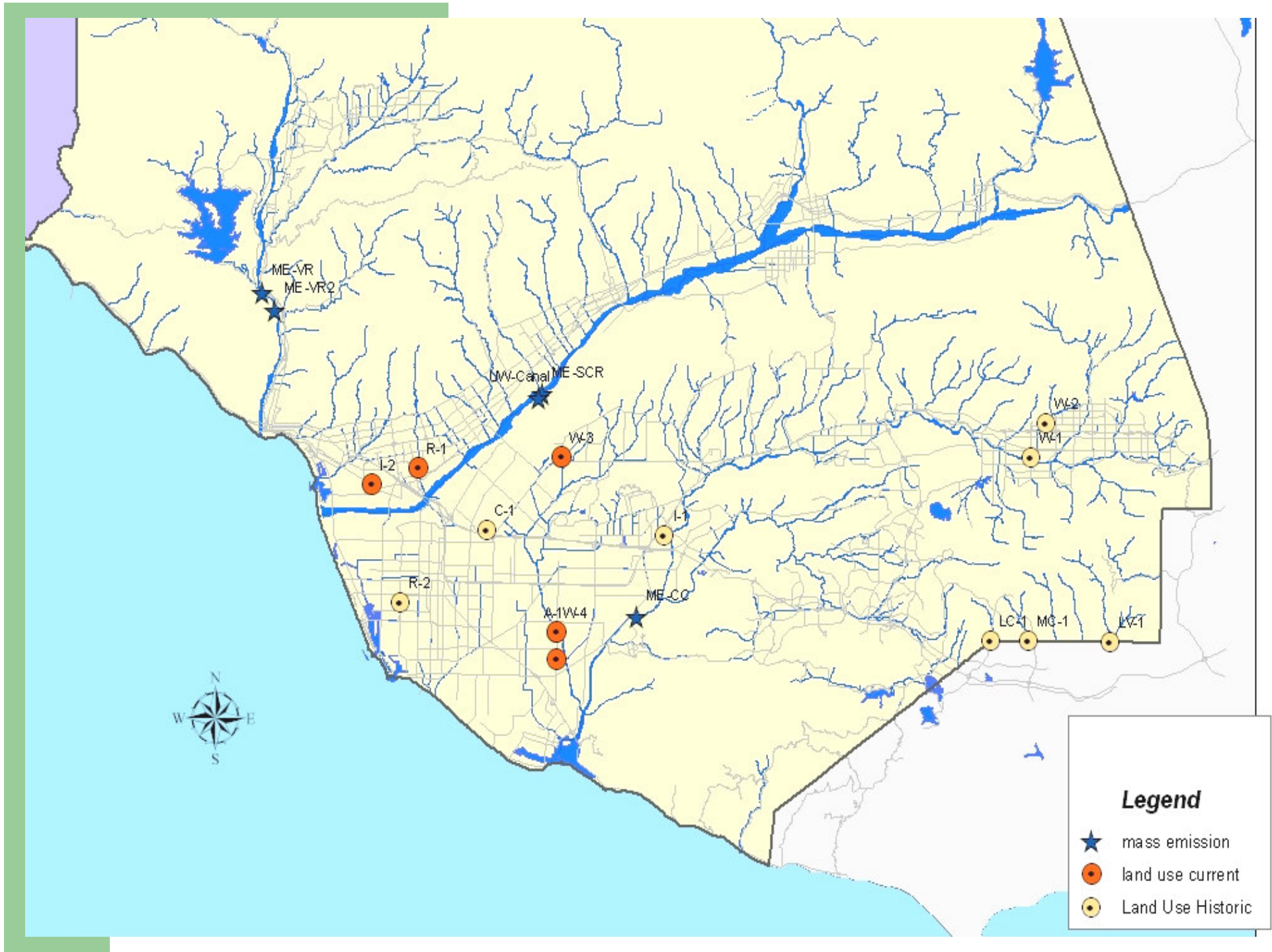
- Current Monitoring Program
- Future Opportunities
- Changes with Draft Permit
- Model MS4 Stormwater Monitoring Plan

Current Program Monitoring

- Began 1993 as part of comprehensive program,
- Revised in 2001 with new permit.
- Dedicated staff and equipment.
- Mass emissions at three major watersheds
 - Four wet events
 - Two dry
- Receiving water monitoring to establish water quality baseline.

Current Program Monitoring

- Land Use Monitoring
 - Urban runoff discharge characterization.
 - Catchments selected as representative of different land uses in Ventura County
- Sophisticated Database
- Trend Analysis for Pollutants of Concern



Future Program Opportunities

- Build upon and complement past monitoring.
- Integrate with TMDL and other regional monitoring efforts - Avoid Redundancy
- Use computer modeling and statistics to increase knowledge and conserve resources.

Ventura's Monitoring Goal

- To assess impacts and trends of urban runoff to provide feedback on stormwater program performance and improve water quality.

Changes in Draft Permit

- Many requirements amended
- Integrated Bioassessment with SCCWRP
- TMDL monitoring at major outfalls
 - Resource intensive
 - Questionable value

Stormwater Program Not Supported by Draft Monitoring Requirements

Draft Permit	Proposed Plan
Focus is on TMDL	Assess Program Effectiveness
Static	Progressive
Sample Everywhere	Systematic Refinement

Model Monitoring Program for MS4s in Southern California

- Design Framework for MS4 Monitoring Plan
- Written by Southern California Stormwater Monitoring Coalition, 2004
- Partially funded by SWRCB
- Developed for Southern California region.

Model Monitoring Program's Goal

- To ensure that each stormwater program has the ability to assess and manage its overall performance.

Model Monitoring Program for MS4s in Southern California

- Adaptive Triggers
 - Revise monitoring plan based on results
 - Starting and stopping triggers needed
- Resource Protective
 - Calculated sample sizes
 - Computer modeling in place of sampling
- Regional Consistency

Requested Action

- Integrate with other monitoring efforts
 - TMDLs, SWAMP, SCCWRP, Current program
- Use SMC's Model Monitoring Guidance
 - Focus resources to provide useful information to assess and improve stormwater quality program.