

Bacteria TMDLs in San Diego

Chollas TMDLs Annual Stakeholder Meeting

July 23, 2012

Clem Brown - City of San Diego
Transportation & Storm Water Department



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SAN DIEGO

Bacteria TMDL



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- **Adopted in February 2011 despite objections**
- **Must achieve recreational water standards:**
 - Swimming
 - Fishing
 - Wading
 - Etc.



Outline



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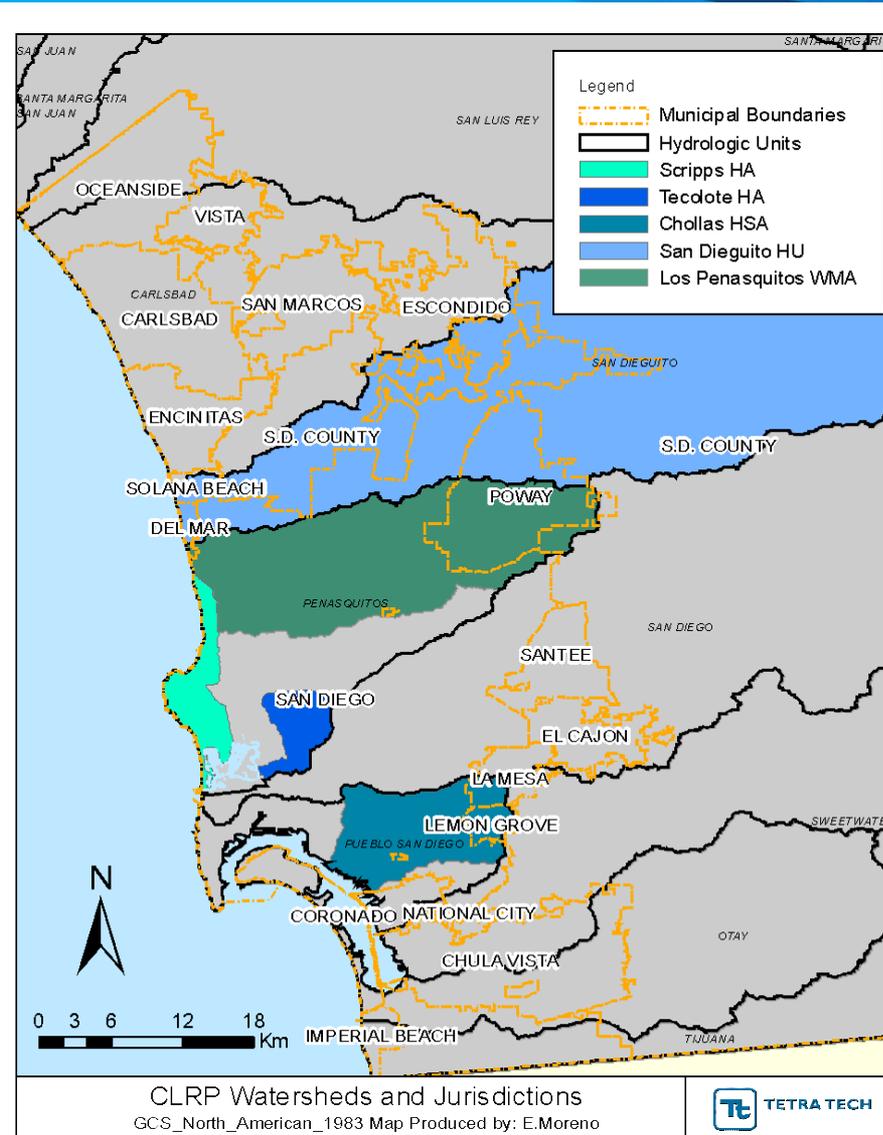
- **Watersheds, Stakeholders and Challenges**
- **Cost-effective Planning and Compliance**
- **Goals**
- **Strategic Planning**



Bacteria TMDL Watersheds



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TMDL Response – Characterization & Prioritization

- Understand the problem
- Collect preliminary data
- Characterize and prioritize



TMDL Response – Resources & Opportunities



- **Opportunities and impacts**
 - Beneficial uses
 - Water supply
 - Water reuse
 - Impact on water quality
- **Major Options**
 - Increased groundwater infiltration
 - Surface storage available for reuse

2007 San Diego Integrated Regional Water Management Plan

Part 1 of 2



The logo for 'SAN DIEGO Integrated Regional Water Management' features a stylized blue wave icon above the text 'SAN DIEGO' in a bold, sans-serif font, with 'Integrated Regional Water Management' in a smaller font below it.



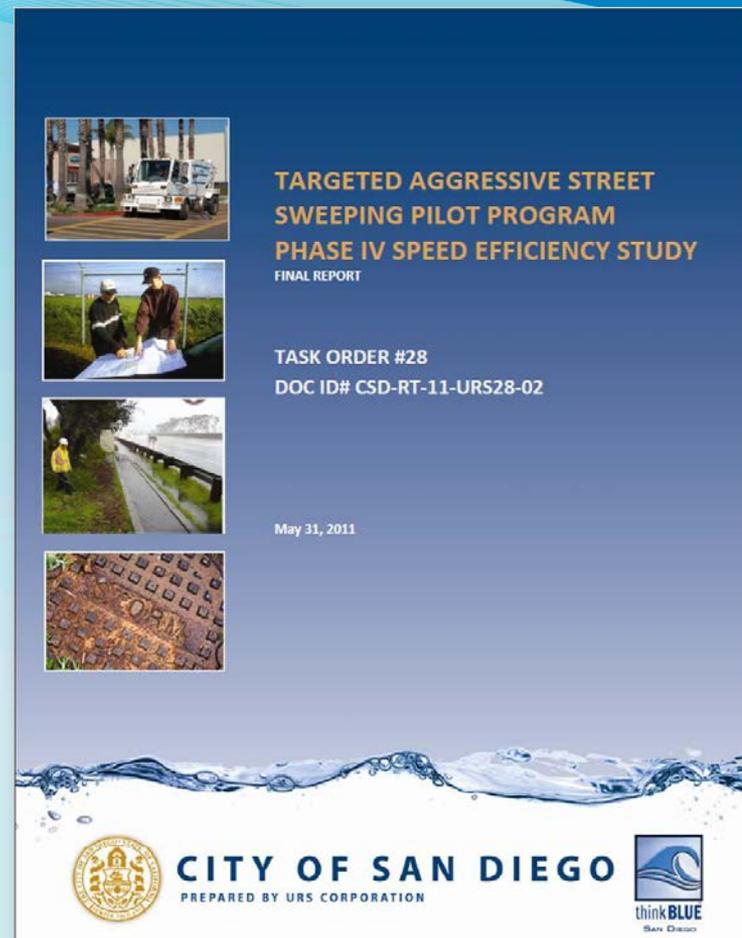
TMDL Response – Nonstructural Solutions



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- Evaluate existing programs and policies
- Propose recommendations
- Quantify potential benefits



**TARGETED AGGRESSIVE STREET SWEEPING PILOT PROGRAM
PHASE IV SPEED EFFICIENCY STUDY
FINAL REPORT**

TASK ORDER #28
DOC ID# CSD-RT-11-URS28-02

May 31, 2011



CITY OF SAN DIEGO
PREPARED BY URS CORPORATION



TMDL Response – Structural Solutions



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- **Small onsite BMPs**
- **Large treatment BMPs**



Source: County of Los Angeles *Low impact Development Standards Manual*



Source: www.dot.ca.gov



Cost-effective Planning



- **Analyze social, environmental, and economic factors**
- **Balance effectiveness with costs**
- **Spend money wisely**
- **Maximum pollutant removal for every \$ spent**



Goals



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- **Understanding of costs**
- **Better information for funding and scheduling**
- **Optimization of investments over time**
- **Iterative and adaptive approach**
- **Greater accuracy**



Strategic Planning



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- **Need for future TMDLs may be eliminated**
- **Efforts can be reported to the regulators as projects are implemented**
- **Meet interim compliance targets and maximize value**



Q&A



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Questions?

