



***Groundwater Funding Programs Overview  
Los Angeles Regional Water Quality Control Board  
Groundwater Workshop  
October 2018***

**Joe Karkoski, Assistant Deputy Director  
State Water Resources Control Board  
Division of Financial Assistance**

# PRESENTATION TOPICS

- **Proposition 1 Groundwater Grant Program**
  - Program Overview
  - Round 1 Funding Amounts and Projects
  - Round 2 Overview and Tentative Schedule
- **Proposition 68 Treatment and Remediation**
- **Site Cleanup Subaccount Program**

# Proposition 1 Groundwater Grant Program (GWGP)



- Program Overview
  - Funding Available
    - \$670 million for grants
    - \$144 million set-aside for disadvantaged communities (DACs)
      - At least \$72 million to severely DACs
    - Minimum local cost share (“match funds”) of 50%
    - Reduced match for DACs
  - Eligible Applicants - Public agencies, non-profit organizations, public utilities, tribes, and mutual water companies

# Proposition 1 GWGP

- Eligible Project Types
  - Projects must prevent or clean up contamination of groundwater that serves or has served as a source of drinking water including, but not limited to:
    - Wellhead treatment
    - Installation of extraction wells combined with treatment systems
    - Centralized groundwater treatment systems
    - Groundwater recharge to prevent/reduce contamination of wells
    - Groundwater injection to prevent seawater intrusion
  - Projects must be considered high priority per applicable regulatory agencies.
  - Can only fund costs not already required of a responsible party.

# Proposition 1 GWGP

- Memorandum of Understanding (MOU)
  - Some Grant Agreements will require the development of an MOU.
    - The MOU will identify the forum and processes for discussion and resolution of issues related to funded projects and lays the groundwork for the Technical Advisory Committee.
- Technical Advisory Committee (TAC)
  - TAC consists of regulatory agencies that will provide oversight, technical review and comments on deliverables associated with funded projects – at a minimum Division of Financial Assistance, Division of Drinking Water, and the Regional Water Quality Control Board.

# Proposition 1 GWGP

- Why an MOU and TAC? Key issues not addressed through “normal” regulatory/ funding processes
  - Active Division of Financial Assistance oversight generally ends after construction is completed
  - Some projects may have regulatory oversight by one agency, but not other interested agencies (e.g., DDW issues a permit, but not the RB)

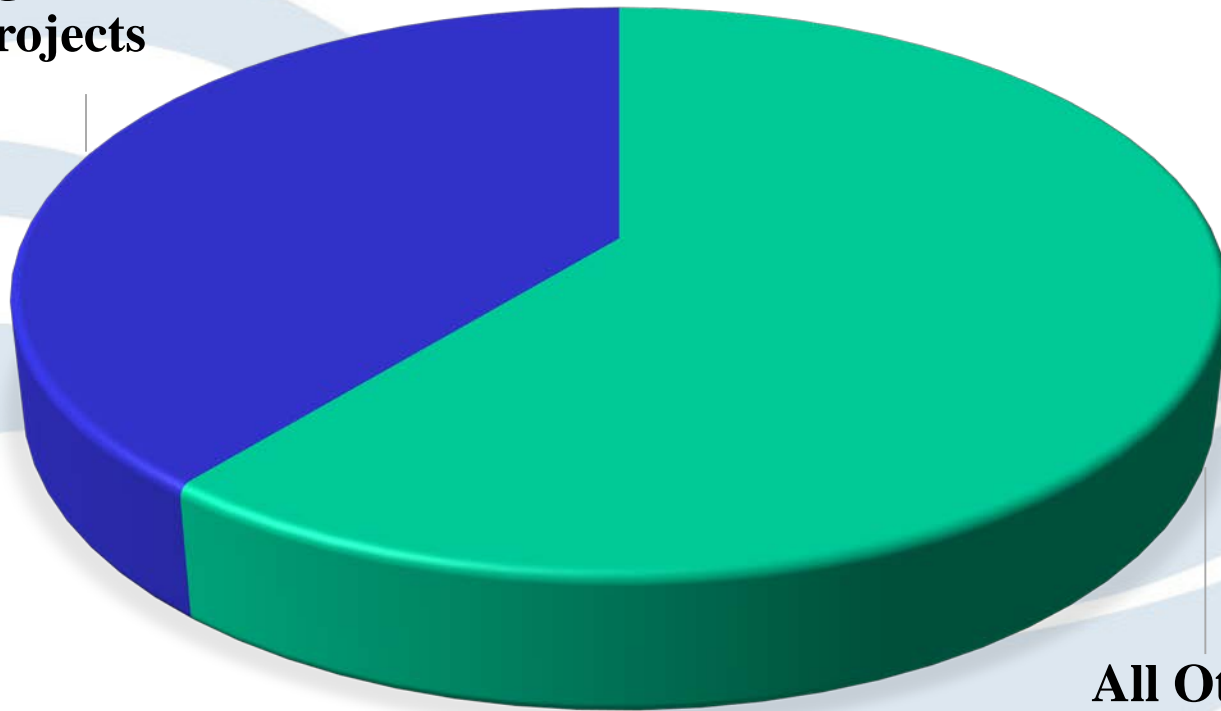
# Proposition 1 GWGP

- Why an MOU and TAC? Key issues not addressed through “normal” regulatory/ funding processes
  - Operation of the facilities can have an impact on nearby cleanup efforts
  - Active engagement is needed over many years to ensure multiple cleanup efforts in groundwater basins are complimentary and performance is optimized

# Proposition 1 GWGP

## TOTAL PROJECTS FUNDED STATEWIDE IN ROUND 1

**Region 4  
9 Projects**

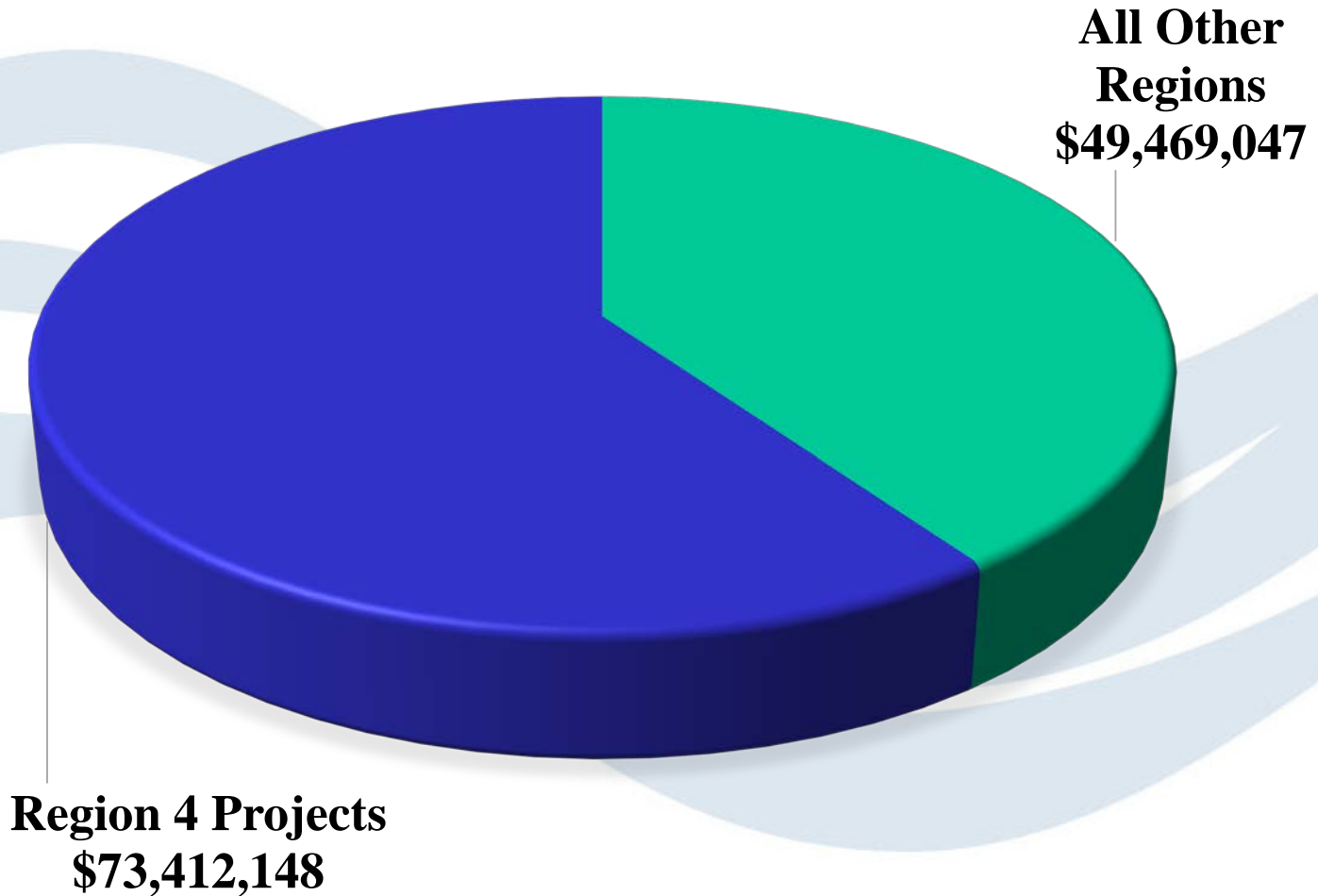


**All Other  
Regions  
14 Projects**



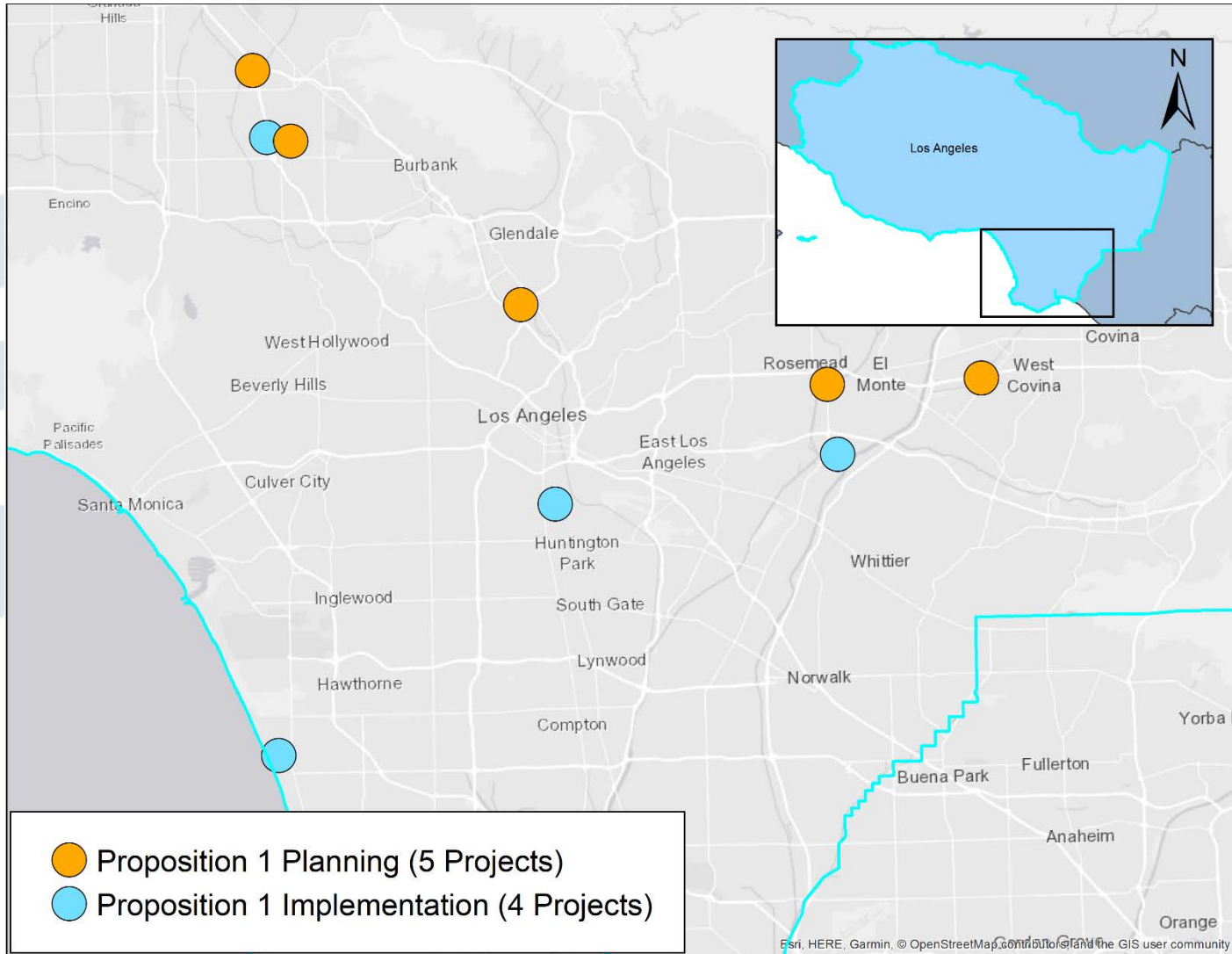
# Proposition 1 GWGP

## TOTAL FUNDING AMOUNTS STATEWIDE IN ROUND 1



# Proposition 1 GWGP

## Round 1 Projects in Region 4



# Proposition 1 GWGP

- Los Angeles Department of Water and Power
  - North Hollywood West Remediation Project
    - Implementation of a Ultraviolet Advance Oxidation Process (UV AOP) treatment facility to cleanup groundwater impacted with 1,4-Dioxane.
    - \$44,545,469 grant with a 50% local funding match
  - North Hollywood Central, Tujunga and Pollock Remedial Investigation and Feasibility Study Projects
    - \$2,000,000 per project to conduct Remedial Investigations and Feasibility Studies of the Rinaldi Toluca, Tujunga, and Pollock Wellfield areas.
    - Evaluate feasible interim response actions for cleanup and remediation of contamination which is impacting the beneficial uses of groundwater.

# Proposition 1 GWGP

- Water Replenishment District of Southern California
  - Los Angeles Forebay Perchlorate and Volatile Organic Compound (VOC) Cleanup Project
    - Ex-situ treatment system to provide cleanup and prevent migration of perchlorate and VOC contamination.
  - \$7,171,088 grant with a 20% local funding match



# Proposition 1 GWGP

- Los Angeles County Flood Control District
  - West Coast Basin Barrier Unit 13 – Manhattan Beach Wells Project
    - Installation of eleven injection wells to inject recycled water and prevent seawater intrusion.
    - \$7,103,433 grant with a 50% local funding match



# Proposition 1 GWGP

- Department of Toxic Substances Control
  - Whittier Narrows Operable Unit (WNOU) Treatment for Drinking Water End Use Project
    - Implementation of an alternate discharge option for the WNOU treatment plant that will allow for increased extraction and treatment resulting in the containment and cleanup of a VOC plume
  - \$7,103,433 grant with a 46% local funding match



# Proposition 1 GWGP

- San Gabriel Water Quality Authority
  - Whitmore Street Groundwater Remediation Facility Expanded Site Investigation Project
    - Site investigation to identify sources of contamination and characterize the extent of VOCs and 1,4 Dioxane contamination in groundwater.
  - \$118,264 grant with a 50% local funding match



# Proposition 1 GWGP

- San Gabriel Valley Water Company
  - 1,4-Dioxane and N-Nitrosodimethylamine (NDMA) Ultra Violet (UV) Light Flex Modular Demonstration Test Project
    - Installation of a Trojan UV Flex treatment system and conducting a demonstration test to confirm the system provides effective treatment of 1,4 Dioxane and NDMA contaminated groundwater.
  - \$1,424,958 grant with a 50% local funding match





# Proposition 1 GWGP

- Estimated Timeline for Round 2
  - Full Proposal Invitations: October 2018
  - Full Proposal Closes: January 2019
  - Technical Reviews: Winter 2019
  - Preliminary Awards: Spring 2019
  - Grant Agreements: Late 2019
- Round 2 Concept Proposals Received in Region 4
  - 12 Submitted
  - More than \$300 million in funding requested
- Round 3 planned for 2020

# Proposition 1 GWGP PROGRAM CONTACT

General Information Line: (800) 813-FUND (3863)  
Email: [gwquality.funding@waterboards.ca.gov](mailto:gwquality.funding@waterboards.ca.gov)

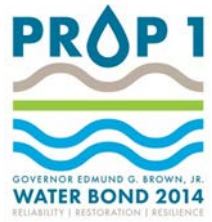
Mr. Robert Reeves, Senior Engineering Geologist  
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Phone: (916) 319-8254

Website:

[https://www.waterboards.ca.gov/water\\_issues/programs/grants\\_loans/proposition1/groundwater\\_sustainability.html](https://www.waterboards.ca.gov/water_issues/programs/grants_loans/proposition1/groundwater_sustainability.html)

# Proposition 1

## Technical Assistance (TA)



- Funding non-profits and universities (solicitation complete) to provide TA to DACs for drinking water, wastewater, groundwater quality, and stormwater needs.
- Intended to help DACs develop projects and pursue Proposition 1 funding.
- Potential assistance types include:
  - Project coordination and development
  - Legal and/or engineering assistance
  - Income surveys
  - Application assistance

# Proposition 1

## TA PROGRAM CONTACT

Ms. Kim Dinh, Senior Engineer  
Email: [Kim.Dinh@waterboards.ca.gov](mailto:Kim.Dinh@waterboards.ca.gov)  
Phone: (916) 341-5729

TA Request Form and Program Information:  
[https://www.waterboards.ca.gov/water\\_issues/programs/grants\\_loans/proposition1/tech\\_asst\\_funding](https://www.waterboards.ca.gov/water_issues/programs/grants_loans/proposition1/tech_asst_funding)

# Proposition 68 Treatment & Remediation Grant Program



- Funding Available
  - \$80 million for treatment and remediation of groundwater that serves as a source of drinking water
- Tentative Schedule
  - Draft Guidelines Winter 2019
  - Final Guidelines Summer 2019
  - Funding Solicitation Summer 2019
  - Grant Awards Fall 2019

# Proposition 68 Treatment and Remediation PROGRAM CONTACT

General Information Line: (800) 813-FUND (3863)  
Email: [gwquality.funding@waterboards.ca.gov](mailto:gwquality.funding@waterboards.ca.gov)

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Phone: (916) 319-8254

Website:  
[https://www.waterboards.ca.gov/water\\_issues/programs/grants\\_loans/propositions/prop68.html](https://www.waterboards.ca.gov/water_issues/programs/grants_loans/propositions/prop68.html)

# Senate Bill 445 Site Cleanup Subaccount Program (SCAP)

- Funding Available
  - Annual appropriation of \$19.5 million
- Eligible Projects
  - ONLY human-made contaminants (i.e., Nitrates, PCE, TCE, DCE, DCA, pesticides, perchlorate, MTBE, hexavalent chromium, etc.)
  - Remediate harm or threat to human health, safety, and the environment from surface or groundwater contamination
  - Regulatory agency has issued a directive, unless infeasible
  - Responsible party lacks financial resources

# SCAP Program

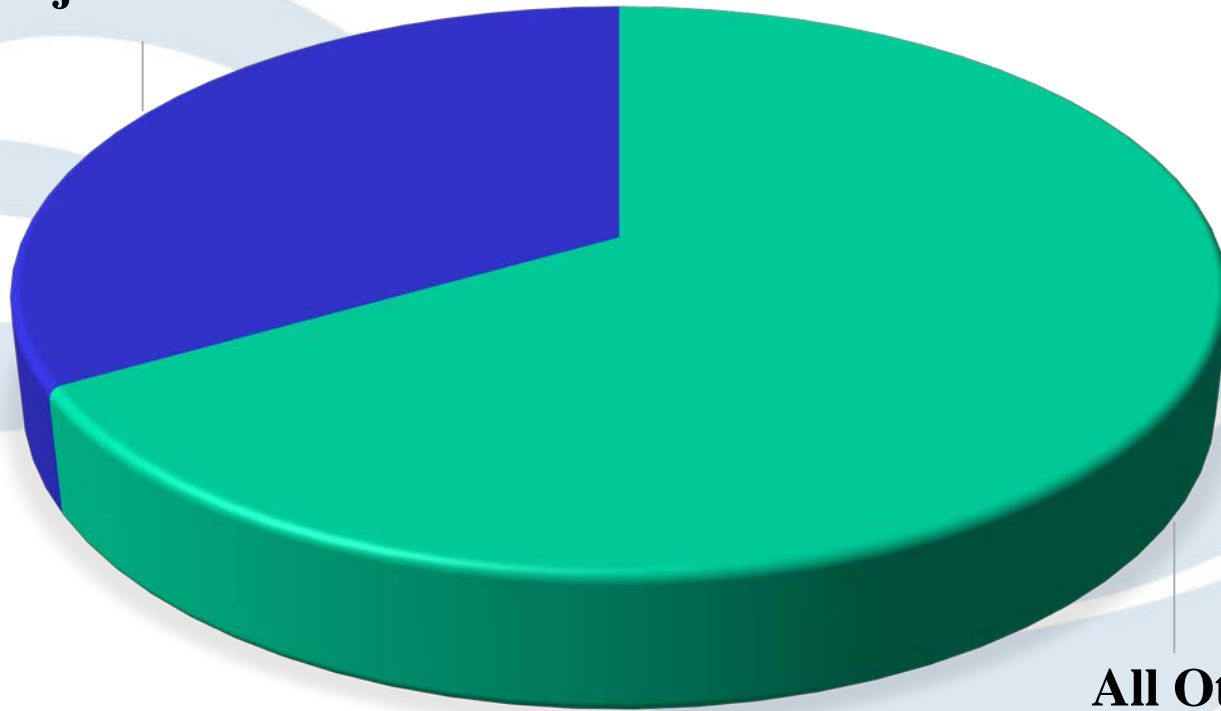
- Priorities based on 5 considerations
  - Significant threat to human health or the environment
  - Disadvantaged or small community impact
  - Cost and environmental benefit of cleanup
  - No other funding source(s) available other than SCAP
  - Other State Water Board considerations
- Timeline
  - Pre-application available
  - Continuous application process
  - Approximately 50 projects approved to date



# SCAP Program

**TOTAL PROJECTS FUNDED STATEWIDE AS  
OF JUNE 2018**

**Region 4  
18 Projects**

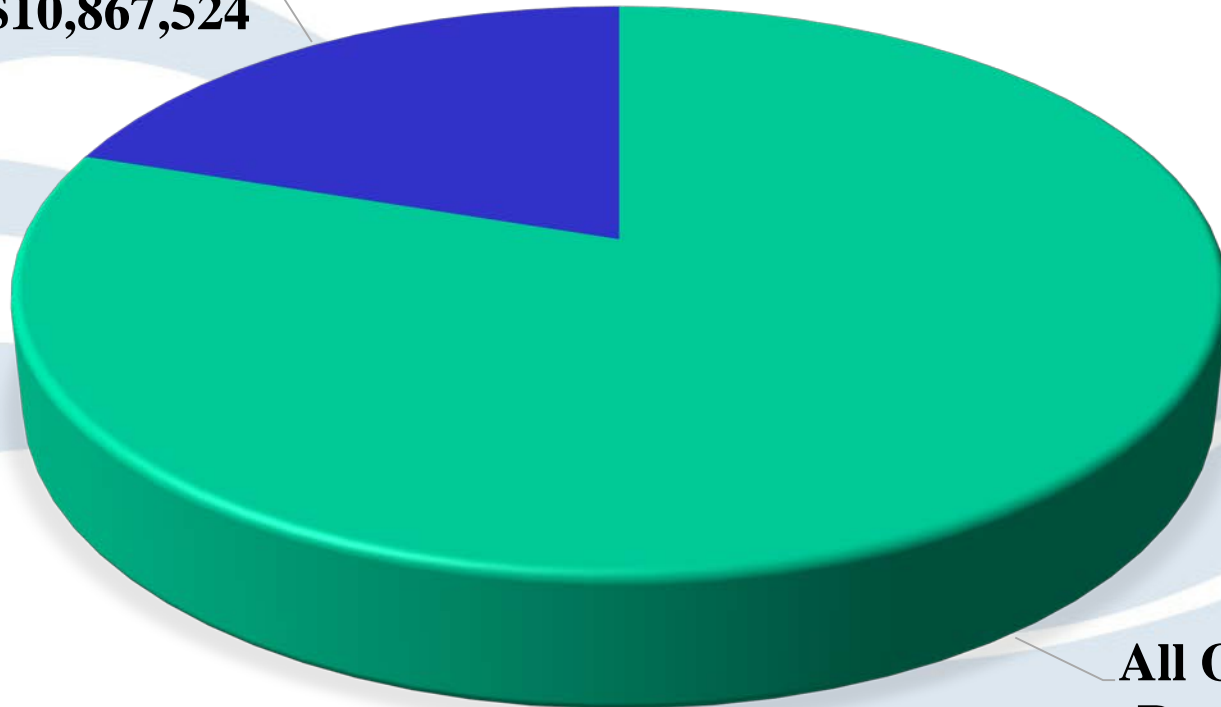


**All Other  
Regions  
36 Projects**

# SCAP Program

**TOTAL FUNDING AMOUNTS STATEWIDE AS  
OF OCTOBER 2018**

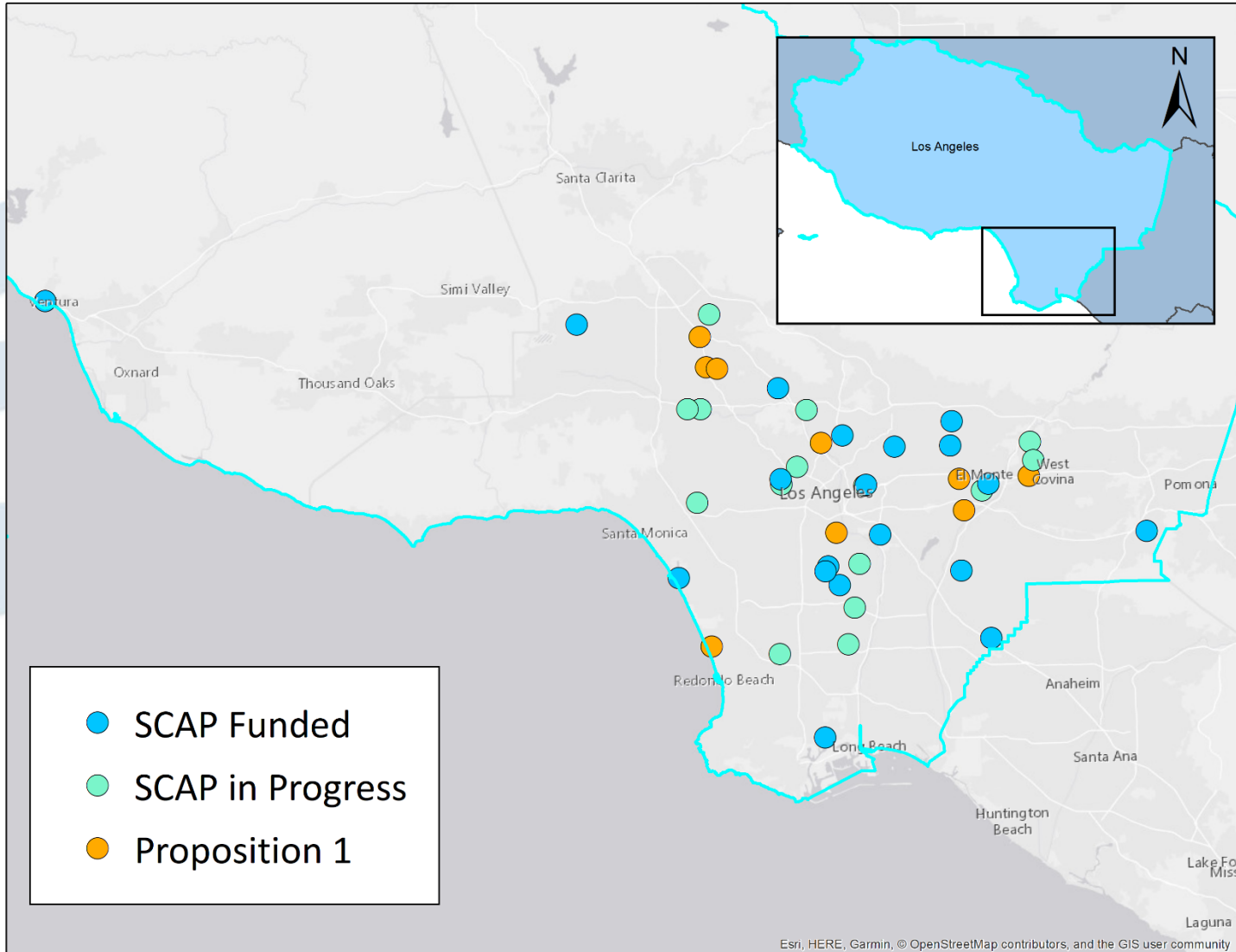
**Region 4 Projects  
\$10,867,524**



**All Other  
Regions  
\$43,901,798**

# SCAP Program

## Round 1 Projects in Region 4



Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

# SCAP Program

- Country Hills Cleaners in Diamond Bar
  - Pilot test to inject chemical reductants to treat tetrachloroethylene (PCE) in groundwater.
  - Regulator is evaluating the results of the pilot test to determine whether it can be implemented across the site.



# SCAP Program

- Throgmorton's Frame Clinic
  - Removal of 19 buried tanks containing paint compounds and solvents, and over-excavation.
  - Site assessment for soil, soil vapor, and groundwater contamination.



# SCAP Program

- Eric Realty La Mirada
  - The site is impacted by chlorinated solvents, primarily PCE and trichloroethylene (TCE), in soil, soil vapor, and groundwater.
  - Funding inspection, repair, and restart of existing Soil Vapor Extraction and Groundwater Treatment Systems.



# GROUNDWATER - SCAP Grants PROGRAM CONTACT

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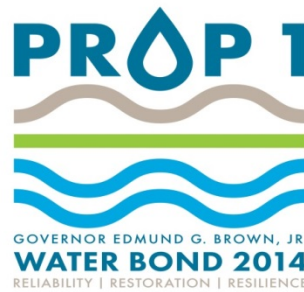
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Website: [http://www.waterboards.ca.gov/water\\_issu  
es/programs/grants\\_loans/scap/](http://www.waterboards.ca.gov/water_issues/programs/grants_loans/scap/)

# Summary

- New Funding has become available to address the State's most challenging groundwater contamination problems
- Close collaboration between the regulatory agencies and local agency partners
- Strong convergence of regulatory, policy, and funding goals and objectives





# State Water Resources Control Board

Division of Financial Assistance  
Groundwater Funding Programs Overview

**Thank you for your time.**

**Any Questions?**