### North Santa Monica Bay

### Watershed Area Steering Committee (WASC)



#### **Meeting Minutes:**

Thursday, January 30, 2020 10:00am - 12:00pm Agoura Hills/Calabasas Community Center – Agoura Room 27040 Malibu Hills Road, Calabasas, CA 91301

#### **Attendees**

#### Committee Members Present:

Cung Nguyen (LA County Flood Control District)
David Rydman (LA County – Waterworks District)
Tevin Schmitt (Wishtoyo Chumash Foundation)
Kristen James (Resident)
Nathan Hamburger (Aguora Hills)
Alex Farassati (Calabasas)
Joe Ballomo\* (Hidden Hills)

Bruce Hamamoto\* (LA County)
Shea Cunningham (Malibu)
Jessica Arden (Westlake Village)
Richard Ambrose\* (UCLA)
Katy Yaroslavsky (LA County Supervisor District 3)
Dave Roberts\* (LVMWD)

#### Committee Members Not Present:

Doug Marian (California Plumbing & Mechanical Contractors) Chad Christensen (MRCA) Jessica Duboff (LA Area Chamber of Commerce)

\*Committee Member Alternate

See attached sign-in sheet for full list of attendees

#### 1. Welcome and Introductions

Kirk Allen called the meeting to order.

All committee members made self-introductions, and quorum was established.

#### 2. Approval of Meeting Minutes from December 12, 2019

The District provided a copy of the meeting minutes from the previous meeting.

Nathan Hamburger made a motion to approve the meeting minutes. Tevin Schmitt seconded the motion. The Committee voted to approve the meeting minutes from December 12, 2019 (unanimous).

#### 3. Committee Member and District Updates

Kirk Allen provided updates from the District for the first round of call for projects, the progress so far in the Scoring Committee, a new Ex Parte Guidance document, a new COI Q&A guideline document, the progress so far for the development of the Watershed Coordinator RFQ, progress on the development of the Municipal and Regional Transfer Agreements, and the release of a Safe Clean Water (SCW) GIS tool developed by District Consultant Stantec.

a) Public Comment Period

No public comments received.

### North Santa Monica Bay

### Watershed Area Steering Committee (WASC)



#### 4. Discussion Items

a) Ex Parte Communications Disclosure

Jessica Arden has had conversations with Madelyn Glickfeld with how to quantify various benefits for SCW Projects

b) Summary of feasibility studies and scientific studies submitted for North Santa Monica Bay WASC for consideration

Kirk Allen provided a summary of the estimated budget and the projects submitted for the NSMB WASC.

Katy Yaroslavsky inquired why cities had not submitted a project. Jessica Arden and Shea Cunningham noted that the call for projects time window was too short for her city to have their counsel review their projects. Kirk Allen clarified that the Feasibility Guidelines had been available since June 2019 for the call for projects that ended in December 31, 2019; but there will be significantly longer time for the second-round call for projects, which is now open and will close July of this year.

Kristen James and Joe Bellomo inquired for municipality proportional benefit, would the District or Project applicants be evaluating this and would an agreement have to be made between the municipalities to agree to those benefits. Kirk Allen clarified that it is proportional benefit and not necessarily proportional funding, and that the District is currently working on additional guidance documents to help describe that process. Bruce Hamamoto and Kirk Allen clarified that the intent of this requirement is to ensure equity across the watershed.

Jessica Arden and Joe Bellomo noted that for the projects funded by the SCW Program, the Regional Board could potentially consider these projects (that benefit multiple municipalities) as counting towards the EWMP compliance requirements.

David Rydman inquired what kinds of projects and project costs the cities are looking to do within the NSMB WASC, either a single large project over 5 years, or one small project done every year. Joe Bellomo noted that his city has had discussions on the types of projects they will want to bring forward, with projects planned for the second round of call for projects; further noting that his city will be focusing on much larger projects to span across multiple funding years. Kirk Allen clarified that there is also municipal local return that could be potentially used to augment the WASCs projects. Nathan Hamburger agreed with Joe Bellomo that for the cities in the NSMB they are looking for larger projects. Jessica Arden noted that for her city, she would only receive \$250k per year which would not be able to move projects through at that cost.

Katy Yaroslavsky inquired if large partner agencies with larger budgets such as Caltrans could be invited to the WASC meeting to consider funding agreements. Kirk Allen noted that one of the primary goals of the Watershed Coordinator is to help facilitate those types of partnerships for the Watershed Areas. Richard Ambrose noted that the WASC should be considering a strategic plan for the NSMB WASC. Kirk Allen noted that programming the 5-year SIP is critical to that point.

Cung Nguyen noted that one of the issues found in other WASCs is how to get partners to agree to funding and insure that there is certainty in getting project partner funding. Jessica Arden noted that for Measure M, cities will typically front the full cost of the proposed project and the partner share would be paid back over a period of time.

### North Santa Monica Bay

### Watershed Area Steering Committee (WASC)



c) Presentations

i) Enhanced Watershed Management Program (EWMP) for North Santa Monica Bay Coastal Watersheds

David Rydman inquired if Bruce Hamamoto would be considering EWMP priority projects for the County's proposed SCW projects. Shea Cunningham noted that pushing forward EWMP priority projects is the plan of her city. Katy Yaroslavsky inquired what level of coordination the District will provide to ensure the EWMP priorities are accomplished. Kirk Allen clarified that it is the NSMB WASC sets priorities and watershed goals. Bruce Hamamoto noted that the County is working to ensure that the Unincorporated County SCW proposed projects are in line with the EWMP goals. Kirk Allen also clarified that all projects that are proposed through the SCW Program have to be within an existing Water Quality Plan, such as the EWMP documents.

ii) Enhanced Watershed Management Program (EWMP) for Malibu Creek Watershed Presented by the Malibu Creek Watershed EWMP Group

No Comments Received

iii) Viewridge Road Stormwater Improvements Project – presentation will cover how the Project will treat urban runoff and stormwater runoff by means of bio-filtration, improving water quality discharge into Topanga Creek and Santa Monica Bay

Tevin Schmitt inquired what plantings were being used for the project. Alberto Grajeda noted that he would work with his landscape engineer to get the planting plan.

Kirsten James requested further clarification on the benefits provided to the entire Watershed and if the project is also part of the EWMP. Alberto Grajeda noted that the project is part of the EWMP priorities list, and that the project would provide water quality benefits as well as recreational opportunities in the creek by removal of pollutants. Bruce Hamamoto also clarified that the NSMB watershed is a unique watershed in that there are over a dozen sub-watersheds within the NSMB watershed. This particular watershed will benefit, and the County plans to propose additional projects to benefit other areas of the watershed.

Richard Ambrose inquired if there would be additional opportunities to provide comments on this project. Kirk Allen noted that this was only the first presentation for this project, that there is a web submission for WASC members to view more detailed information about the submittal, but that in future meetings additional questions or recommendations could be considered for the project during the development of the SIP.

Katy Yaroslavsky and Richard Ambrose inquired what level of modifications the WASC is able to propose to a submitted project. Kirk Allen noted that it is the eventual goal of the WASC meetings to have additional time to vet and deliver projects through the program, but with this first year's time constraints, the vetting and comment period are expedited. Kirk Allen and Cung Nguyen also clarified that during the development of the SIP would offer additional opportunities to have discussion on this project.

iv) Regional Scientific Study to Support Protection of Human Health through Targeted Reduction of Bacteriological Pollution (Richard Watson & Associates)

Comments held for time.

#### North Santa Monica Bay

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#### 5. Public Comment Period

Public Comments – inquired if the WASC would be open to a presentation on various technologies available for future projects. Kirk Allen noted the suggestion would be discussed with the chairs of the committee.

#### 6. Voting Items

a) Send completed feasibility study to Scoring Committee for scoring

Katy Yaroslavsky inquired how the score of 60 was achieved for the Viewridge project. Kirk Allen noted that the Project Scoring Module estimates an initial score for projects and that a validated score from scoring committee is still necessary.

Jessica Arden inquired if there are adjustments that can still be made to the project. Kirk Allen noted that the score is just one part of a project's evaluation, but there will definitely be time to ask additional questions and provide recommendations to the project applicants.

Joe Bellomo inquired if all County projects have made it past the 60-point threshold. Bruce Hamamoto and Kirk Allen noted that to date all County Projects have passed the validation process conducted by the Scoring Committee.

Tevin Schmitt made a motion to proceed sending the feasibility study to the SC for scoring. Jessica Arden seconded the motion. The Committee voted to approve sending the feasibility study to the SC for scoring. (unanimous).

#### 7. Items for next agenda

Tevin Schmitt requested additional information on the Viewridge project be added to the next agenda. Kirk Allen noted that the Website does have this project available for additional details, but that the WASC meeting can schedule additional presentations for the Viewridge Project. Bruce Hamamoto noted that his group will be available at the next meeting to answer any questions on the Viewridge project.

Richard Ambrose requested additional clarification on Ex Parte communication. Kirk Allen noted that disclosing outside discussions will be part of the next agenda.

#### 8. Adjournment

Kirk Allen thanked the committee members and public for their time and participation and adjourned the meeting.

# North Santa Monica Bay Watershed Area Steering Committee Meeting COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Cung Nguyen	FCD	CUNGUYEN@dpw.lacounty.gov	Р	
Carolina Hernandez	FCD	CHERNANDEZ@dpw.lacounty.gov	А	
Dave Rydman	Los Angeles County-Waterworks District	drydman@dpw.lacounty.gov	Р	Be
Greg Even	Los Angeles County-Waterworks District	GEVEN@dpw.lacounty.gov	А	
Chad Christensen	Mountains Recreation and Conservation Authority	chad.christensen@mrca.ca.gov	Р	
Sarah Rascon	Mountains Recreation and Conservation Authority	sarah.rascon@mrca.ca.gov	А	
David Pedersen	Las Virgenes Municipal Water District	dpedersen@lvmwd.com	Р	
Dave Roberts	Las Virgenes Municipal Water District	droberts@lvmwd.com	А	
Madelyn Glickfeld	Institute of the Environment and Sustainability UCLA	madelyn.glickfeld@ioes.ucla.edu	Р	
Richard Ambrose	UCLA Fielding School of Public Health	rambrose@ucla.edu	А	MAHARE
Doug Marian	California Plumbing and Mechanical Contractors	d.marian@uaplumber78.com	Р	
Jessica Duboff	LA Area Chamber of Commerce	Jessica.Duboff@gmail.com	Р	
Kendal Asuncion	LA Area Chamber of Commerce	kasuncion@lachamber.com	А	
Tevin Schmitt	Wishtoyo Chumash Foundation Ventura County	tschmitt@wishtoyo.org	Р	In It
Kirsten James	Resident	kirstenjames@gmail.com	Р	

### North Santa Monica Bay Watershed Area Steering Committee Meeting COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Fran Diamond	Resident	mediafranh2o@gmail.com	A	į
Nathan Hamburger	Aguora Hills	Nhamburger@ci.agoura-hills.ca.us	Р	LA M
Louis Celaya	Aguora Hills	Lcelaya@ci.agoura-hills.ca.us	А	
Alex Farassati	Calabasas	afarassati@cityofcalabasas.com	P	distant.
Alba Lemus	Calabasas	alemus@cityofcalabasas.com	А	
Kerry Kallman	Hidden Hills	kerry@hiddenhillscity.org	Р	
Joe Bellomo	Hidden Hills	jbellomo@willdan.com	А	)
Katy Yaroslavsky	LA County Supervisor District 3	kyaroslavsky@bos.lacounty.gov	Р	1/2/en
Virdiana Velez	LA County Supervisor District 3	vvelez@bos.lacounty.gov	А	
Paul Alva	Los Angeles County	PALVA@dpw.lacounty.gov	Р	
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Bruce Hamamoto	Los Angeles County	BHAMAMO@dpw.lacounty.gov	А	BA
Shea Cunningham	Malibu	scunningham@malibucity.org	P	
Mark Johnson	Malibu	mjohnson@malibucity.org	А	
Jessica Arden	Westlake Village	jessica@wlv.org	Р	

# North Santa Monica Bay Watershed Area Steering Committee Meeting COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Phillipe Eskandar	Westlake Village	philippe@wlv.org	А	
Allen Ma -	LA Consty	ama@pw-lacounty.gv.	A	_
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### North Santa Monica Bay Watershed Area Steering Committee Meeting PUBLIC SIGN-IN



First Name	Last Name	Municipality/Organization	Email Address
JOSIE	GUTTERLEZ	LACDPW	jautieroedpw. Jawaty. gov
Jon	Aselson	Stanfec	journan oselson @ Startes.com
Michael	OMARY	APD Cleanus textech	inforaclean watertechnologies.net
Geremen A	Amenu	LACFCD	Lamenu & pw. jacounty for
Alberto Gratecta	Grajeda	LADPW	algrajeda a se lucant, ya
Richard was	Water	RWA	rwatson @ twa planning on
Chris A	Minton	LWA	chrismelwa.com
Kirslen	James	Resident	
Annelisa	Moe	Heal the Bay	amoe@kealthebay.org
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490494			

<sup>\*</sup>Signing or completing this form is voluntary for members of the public

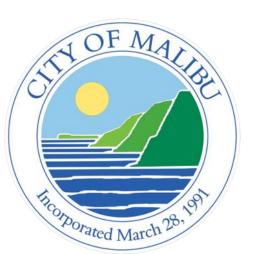


Safe Clean Water Program
North Santa Monica Bay
Steering Committee

January 30, 2020







# NORTH SANTA MONICA BAY COASTAL WATERSHEDS ENHANCED WATERSHED MANAGEMENT PROGRAM

# MUNICIPAL SEPARATE STORM SEWER (MS4) PERMIT

Porter-Cologne Act Federal Clean Water Act **State Water Resources** Control Board Regional Board 2012 Los Angeles County MS4 Permit **County of LA** 

**LA County Flood Control District** 

84 Incorporated Cities

# LOS ANGELES COUNTY MS4 PERMIT-2012

### **Most Stringent in the State**

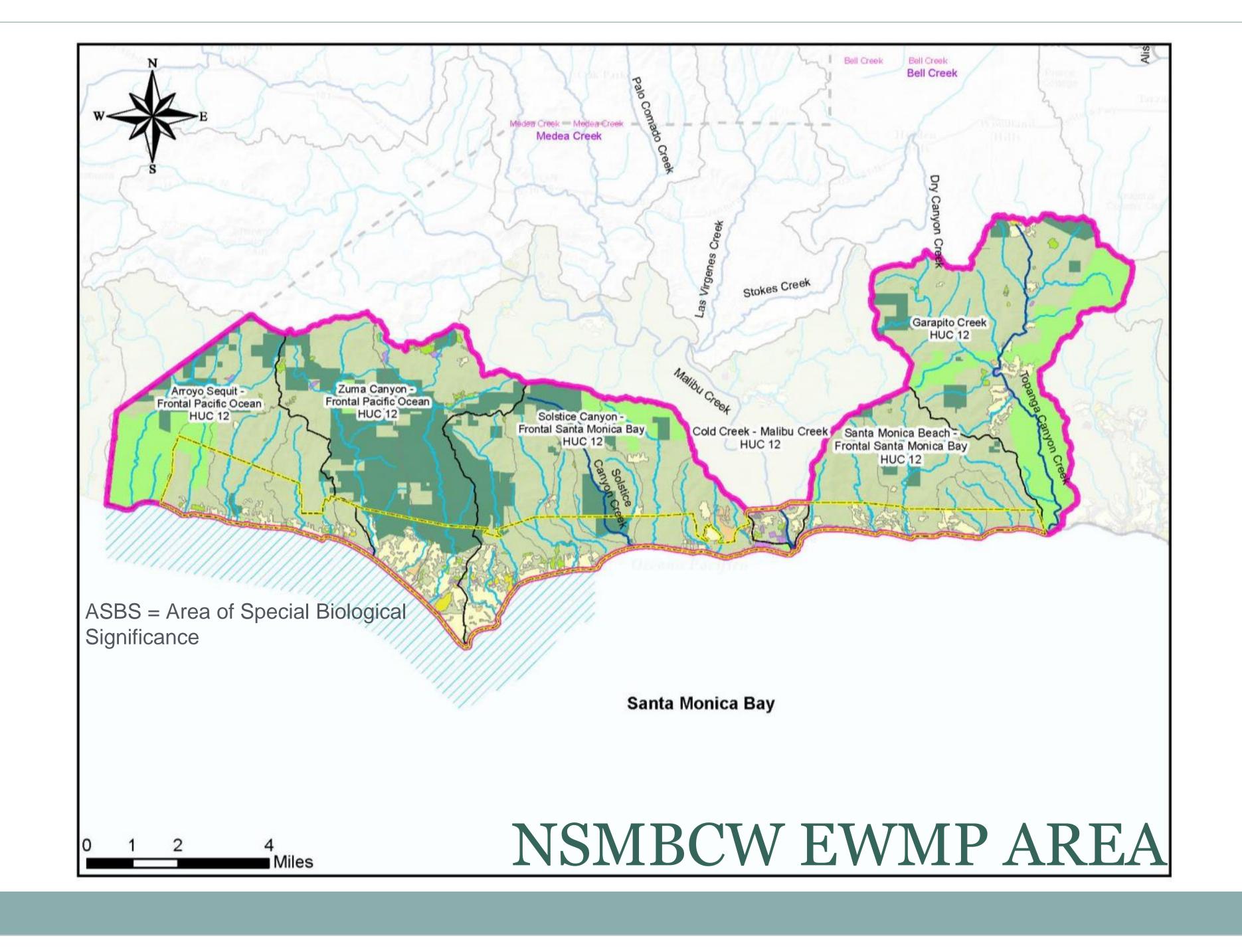
# Total Maximum Daily Loads (TMDLs): at least 33

For trash, bacteria, metals, nutrients, legacy pollutants, etc.

### **Compliance through:**

- 1. Numeric Limits
- 2. Watershed Management Program (WMP)
- 3. Enhanced Watershed Management Program (EWMP)





# ENHANCED WATERSHED MANAGEMENT PROGRAM

- Stormwater permit compliance partnership
  - o MS4 Permit Administration
  - Public Information and Participation
  - Water quality monitoring and reporting
  - Stormwater treatment projects



### Institutional BMPs

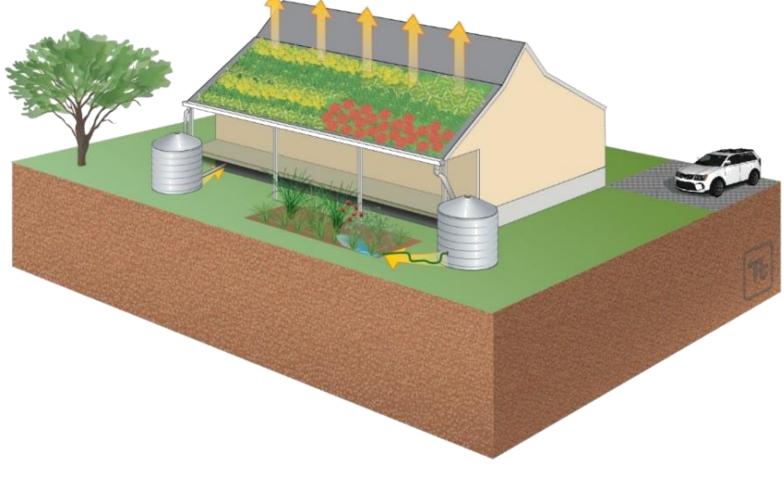


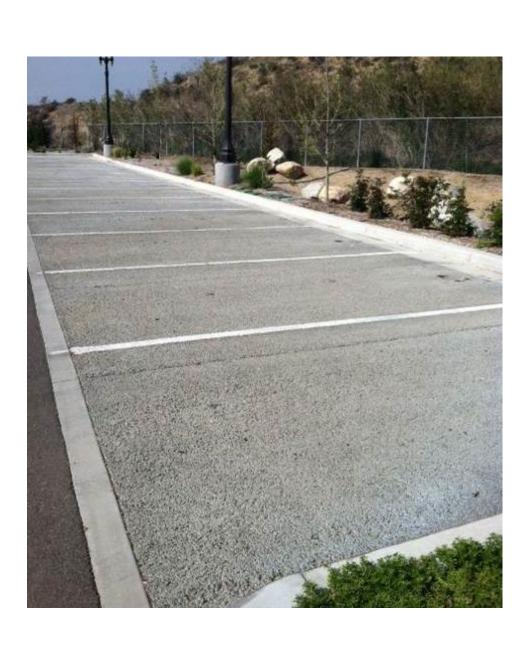




### Low Impact Development







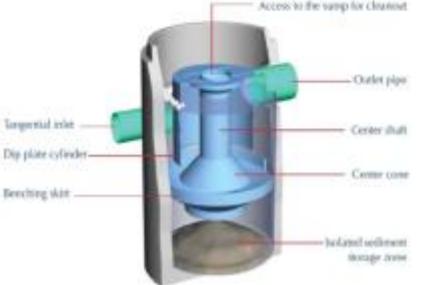
### **Green Streets**





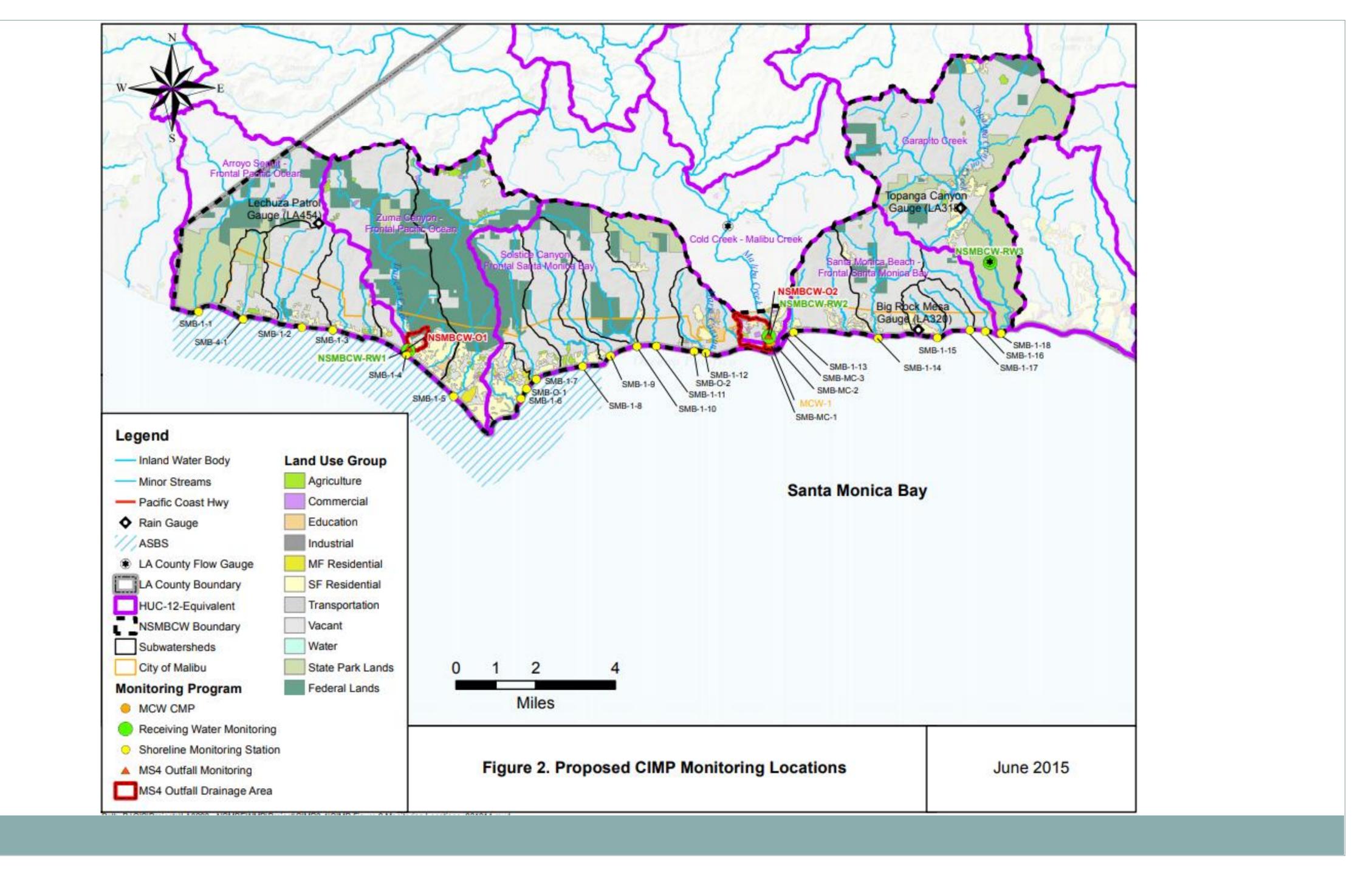
### Regional BMPs





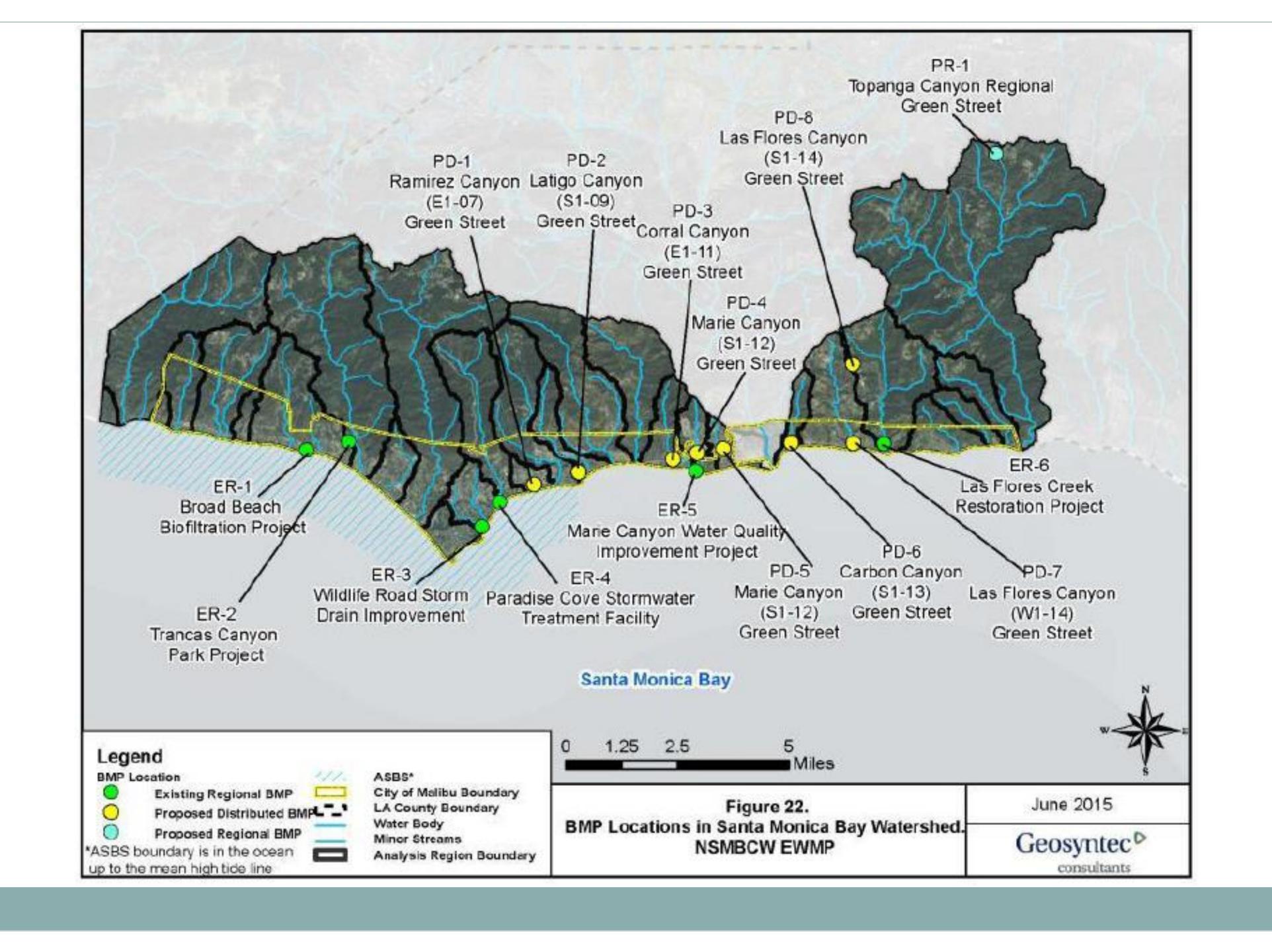






# WATER QUALITY IMPROVEMENT PROJECTS (PRIOR TO EWMP)





# DISTRIBUTED GREEN STREET BMP'S

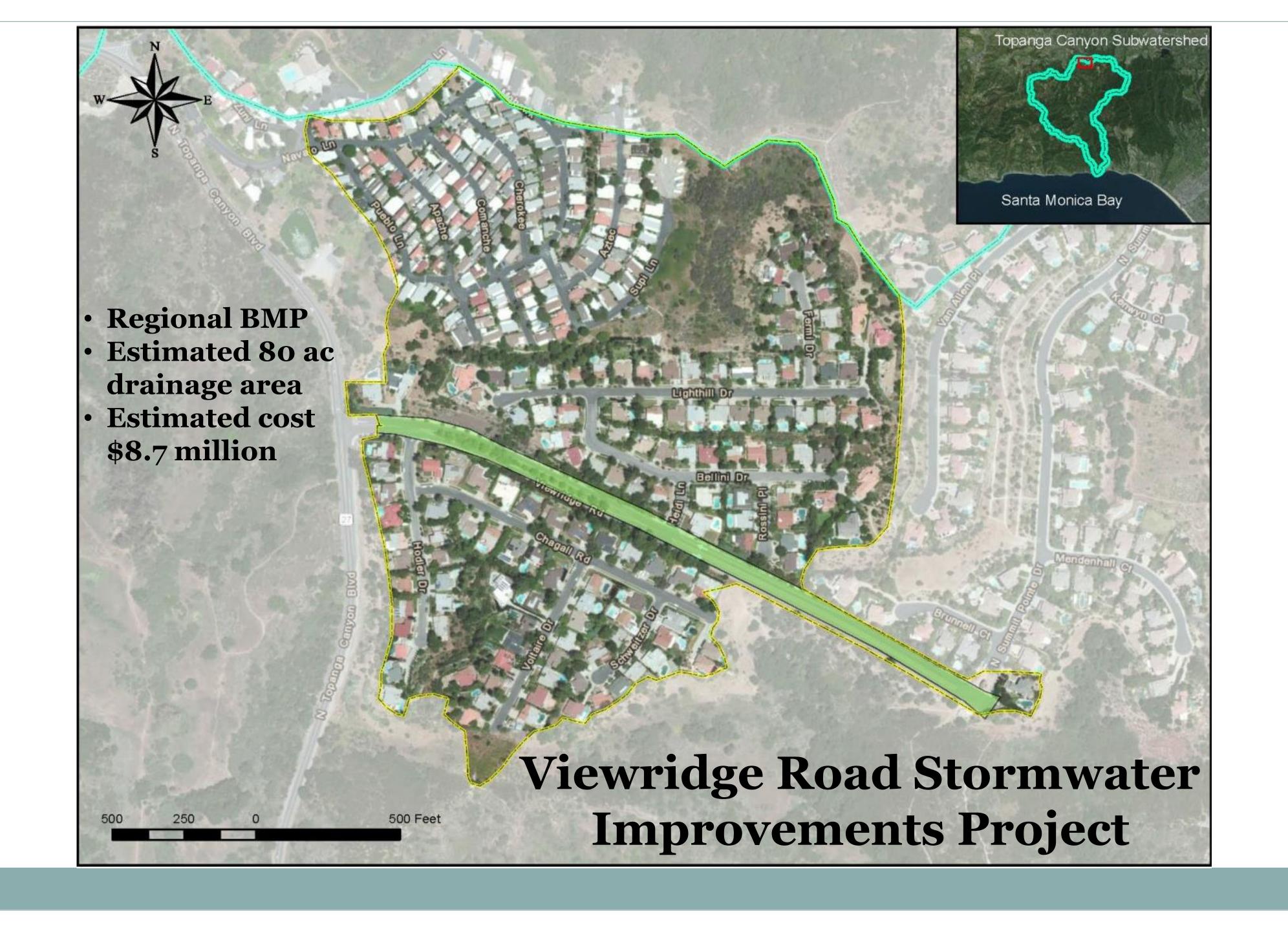
- Ramirez Canyon
- Las Flores Canyon
- Latigo Canyon
- Corral Canyon
- Marie Canyon
- Winter Canyon
- Sweetwater Canyon



### GREEN STREETS BENEFITS

- Improves Surface Water Quality
  - Dry Weather
  - Smaller Storm Event Flows
  - Drought tolerant landscape
- Cost Effective
- Reduce Heat Islands





### SAFE CLEAN WATER PROGRAM

- To the extent possible, Feasibility Studies should provide estimates of the benefits provided by each Project.
  - Water Quality Benefits,
  - Water Supply Benefits, and
  - Community Investment Benefits
  - Nature based
  - Local Match

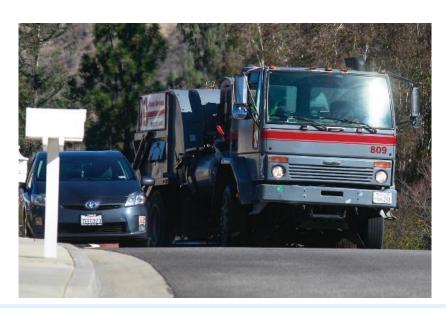


### **Presentation Overview**

- Implementation
- Monitoring and Studies
- Planning
- Future Projects

### Components of Implementation

- Minimum Control Measures
- Low Impact Development
- Green Streets
- Regional Projects
- Creek Restoration
- Trash Capture Devices

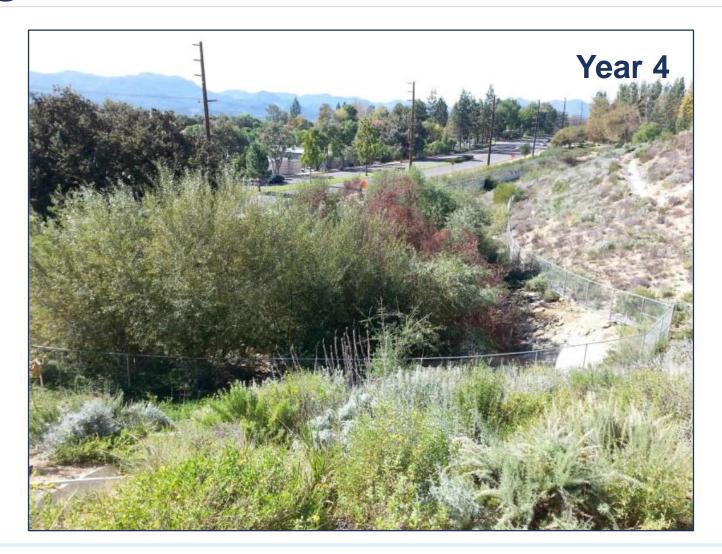


### **Key Minimum Control Measures**

- Targeted Ordinances
  - Water Conservation
  - Food Packing
  - Mobile Commercial Washing Operations
- Utilization of Smart Irrigation
- Community Engagement and Participation



### LID: Westlake Village Regional Park Detention Basin



# **Green Streets: Westlake Village Agoura Road Sidewalk**

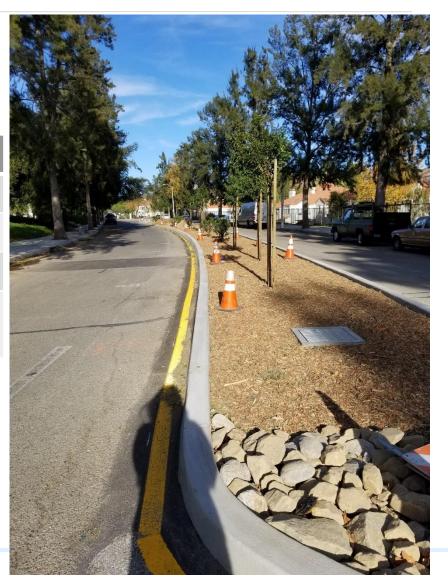


Quick Facts			
Approach	Sidewalk Pervious Pavers		
Completed	2016		
Pollutants: Bacteria, Sediment, and Nutrients			

# **Green Streets: Calabasas Malibu Hills Road**

Quick Facts			
Approach Median Redesign			
Phase I	Completed: 2017		
Phase II Completion: March 20			
Pollutants: Bacteria, Sediment, Nutrients,			

and Trash



### Regional: County and Calabasas **Gates Canyon Park**



**Quick Facts** Design 3.5 Acre Feet Volume Cost \$11M **Funding** Local + Grant Completion Spring 2020

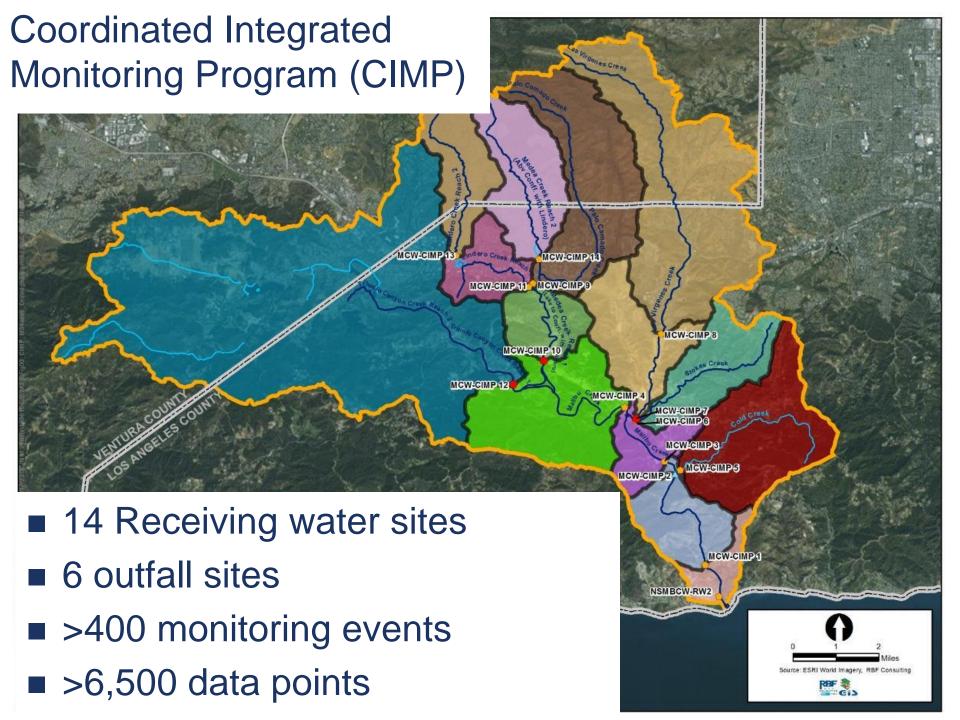
Educational

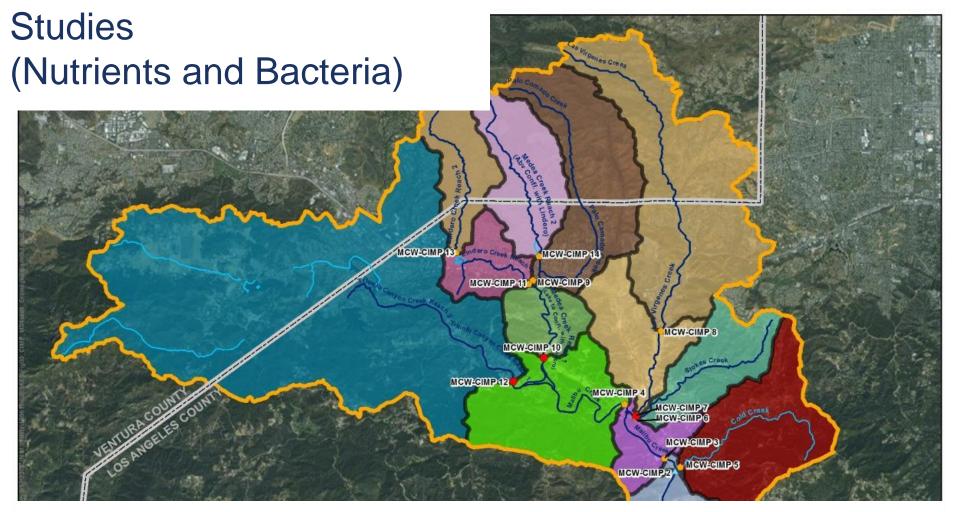












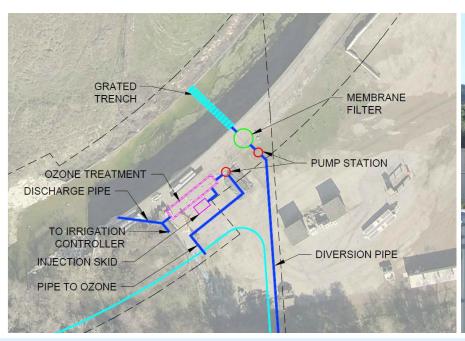
- Goal = improve implementation and outcomes
- Nutrients: Identify additional factors that impact benthic community (invasives, habitat alteration) and BMPs
- Bacteria: Identify greatest risks and BMPs

#### Planning (EWMP Adaptive Management)

- Updated EWMP (June 2021)
  - Approximately 8 years of new water quality data
  - Consideration of new and revised TMDLs (nutrients, benthic community, sedimentation, and trash)
  - Lessons learned through implementation
  - Safe, Clean Water Program opportunities
  - Stakeholder input
- Expected Outcomes
  - Updated reasonable assurance analysis
  - New and revised projects
  - Align with Safe, Clean Water Program requirements

#### Future Projects: Agoura Hills County Yard

- Improve water quality
- Capture (2,500+ acres) and use (400 af/year)
- Cost ~ \$20.5M (Phase 1 ~ \$8.5M)



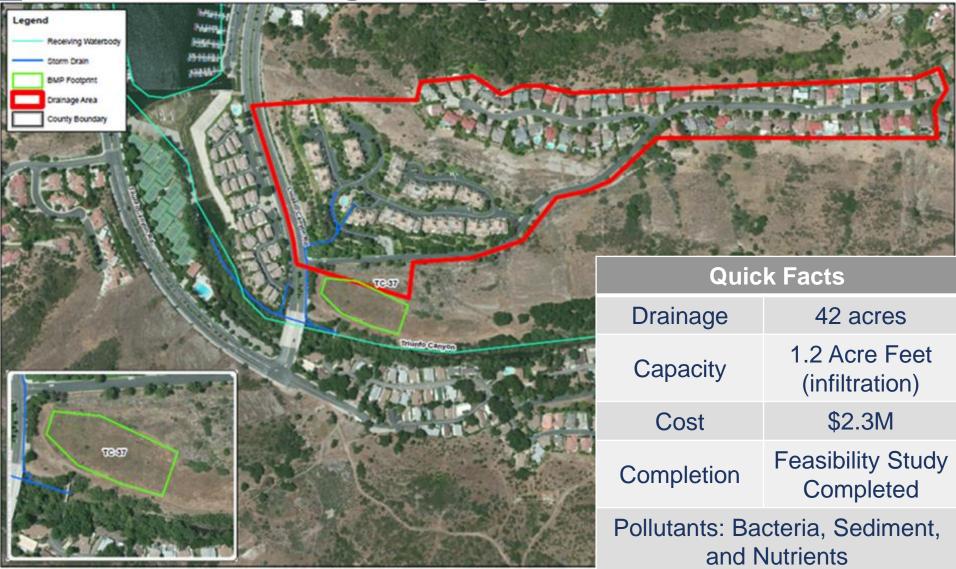


#### Future Projects: County Led Green Streets

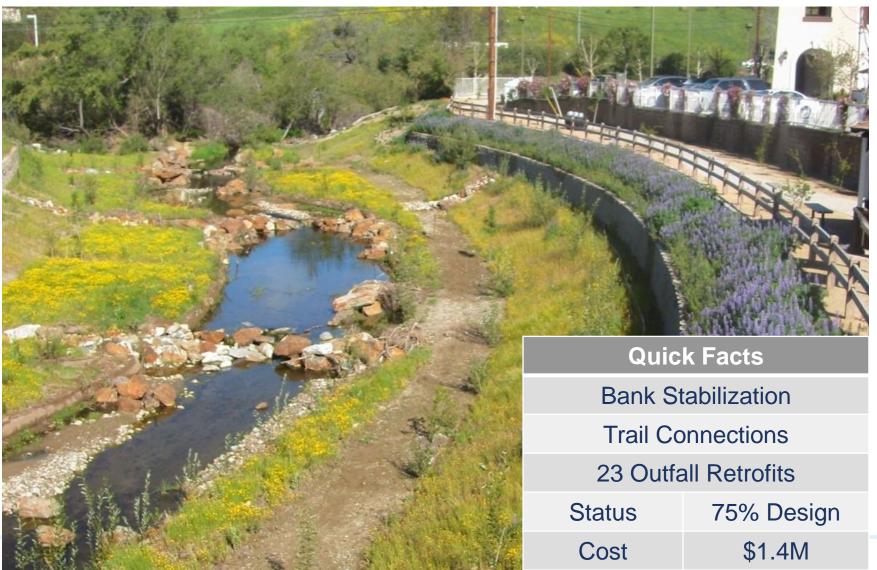
- Agoura Hills: Hazel Nut Court, Liberty Canyon,
   Davids Road, Mullholland Highway
- Calabasas: Mureau Road



# Future Projects: Westlake Village Ridgeford Infiltration Basin

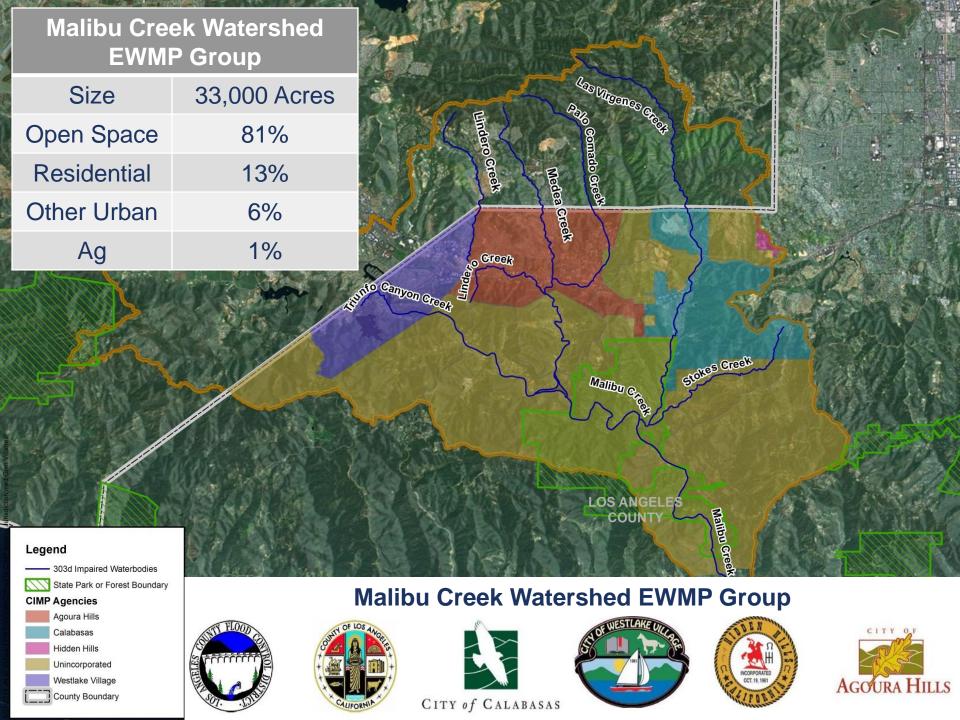


#### Future Projects: Calabasas Las Virgenes Phase III

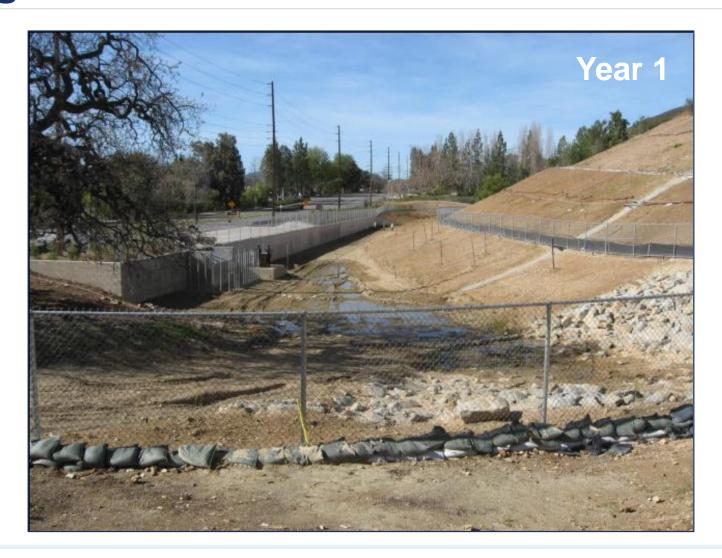


#### **Looking Ahead**

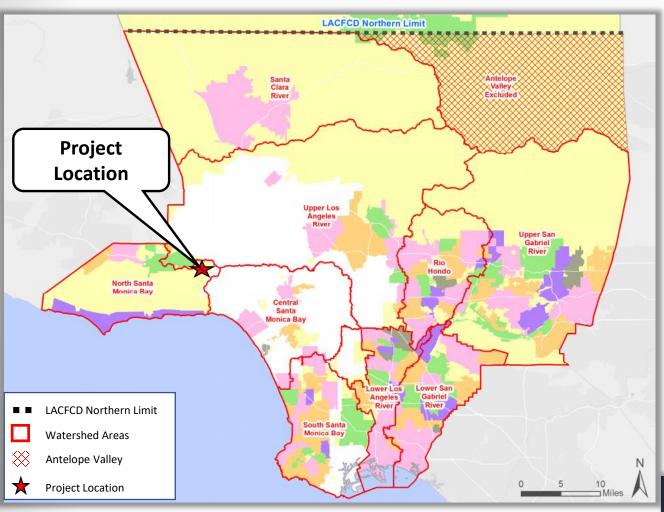
- Next 6 Months
  - Work on July 2020 applications
- Next 18 Months
  - Update EWMP
  - Enhance suite of projects for the SIP
- Next 5 Years
  - Implementation
  - Evaluate effectiveness of projects
  - Continue to apply for funding



#### LID: Westlake Village Regional Park Detention Basin



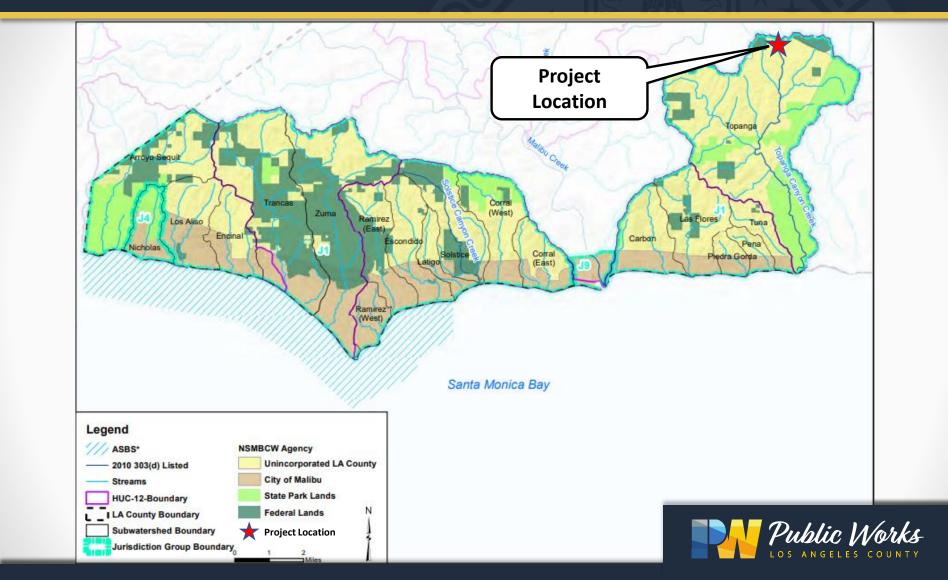




#### Location

- North Santa Monica Bay
  Watershed Area
- Unincorporated Community of Topanga, CA





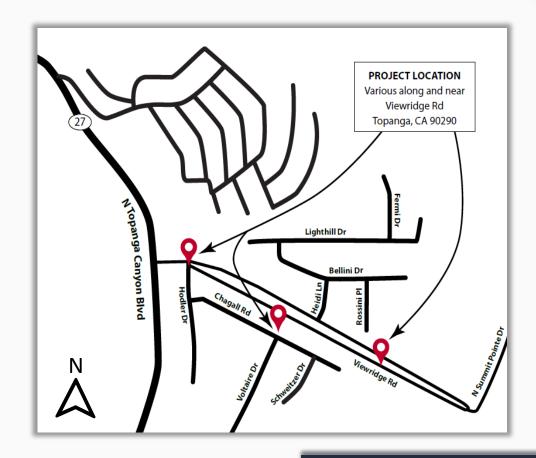
#### **Project Summary**

#### **Project Specifics:**

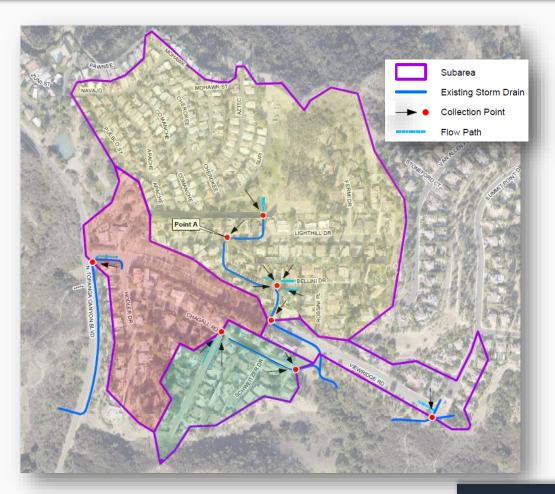
- 80-Acre Tributary
- Up to 33 AFY Runoff Treated

#### **BMP Locations:**

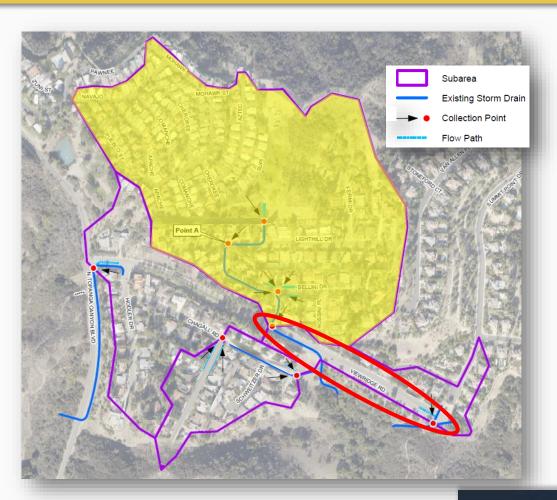
- Viewridge Road
- Hodler Drive
- Chagall Road
- Voltaire Drive



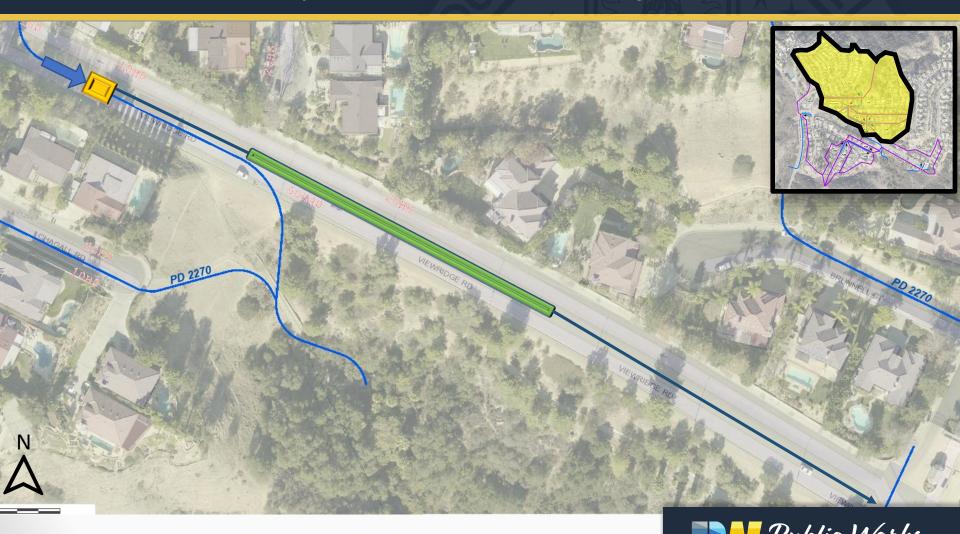








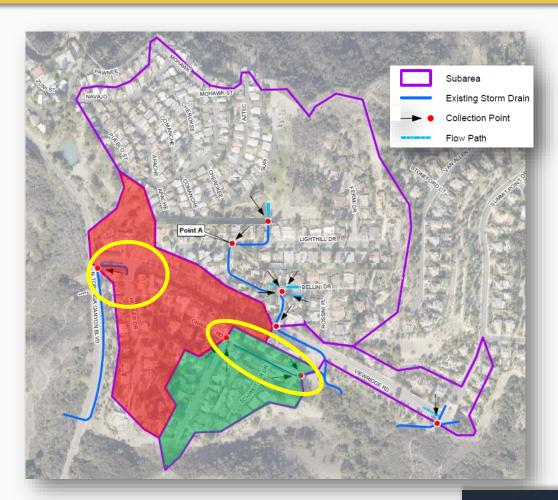




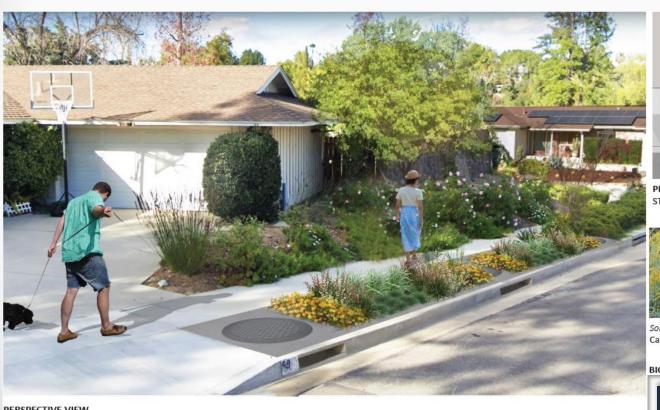


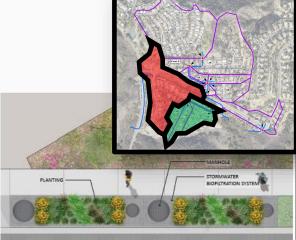












PLAN VIEW STROMWATER BIOFILTRATION SYSTEM WITH 100% PLANTING AREA



Solidago californica California Goldenrod



Carex pansa California Meadow



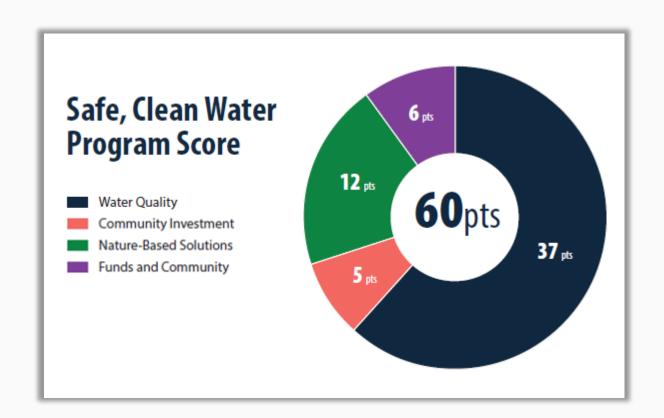
Juncus patens California Grey Rush

BIOFILTRATION PLANT EXAMPLES



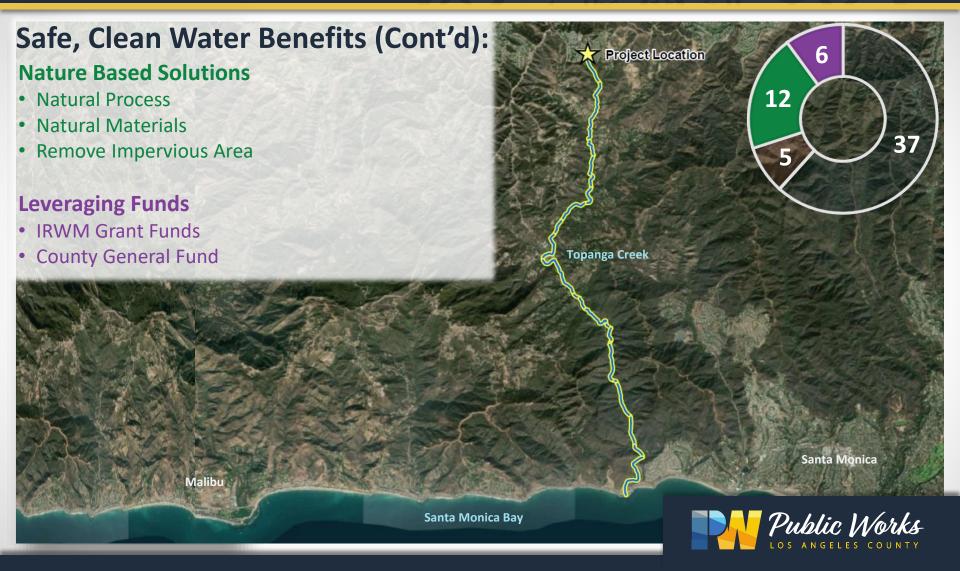
STORMWATER BIOFILTRATION SYSTEM WITH 100% PLANTING AREA











Safe, Clean Water Benefits (Cont'd): Community Support







#### **Projection**

Phase	Cost	Completion	FY	Request
Planning	NA	Completed	FY 20-21	\$1.8 M
Design	\$ 1,200,000	Mid 2020	FY 21-22	\$0.9 M
Construction	\$ 7,500,000	Mid 2021	FY 22-23	\$0.2 M
Total Project Cost Estimate	\$8,700,000		Total	\$2.9 M





#### **County of Los Angeles – Public Works**

Alberto Grajeda, P.E.

algrajeda@pw.lacounty.gov

(626) 458-5908



# Overview of Proposed Scientific Study

Richard Watson, Richard Watson & Associates, Inc. (RWA)

Presentation to North Santa Monica Bay WASC

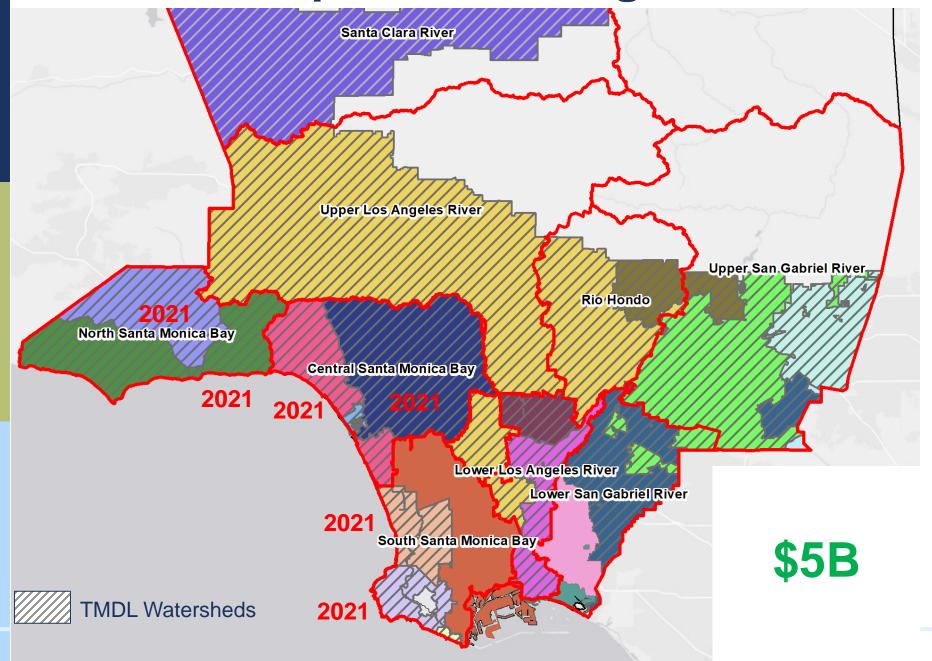
Calabasas, CA

30 January 2020

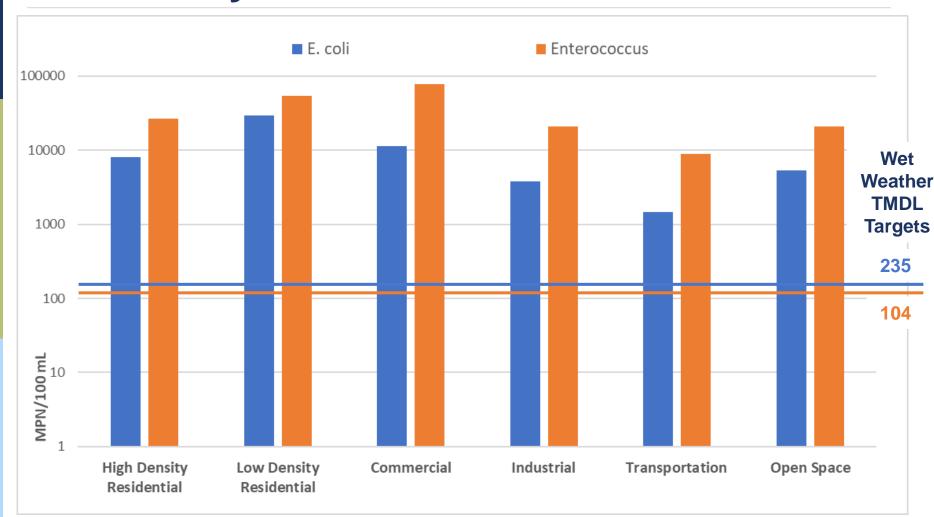
#### **Overview**

- Bacteria Challenges
- Nexus to Stormwater Capture
- Objectives of Study
- Scientific Study Approach
- Scientific Study Schedule and Cost Estimate
- Summary of Study

#### E/WMP Groups Addressing Bacteria



## Wet Weather Average Concentrations: LA County Land Uses



# Nexus to Stormwater Capture and Study Objectives

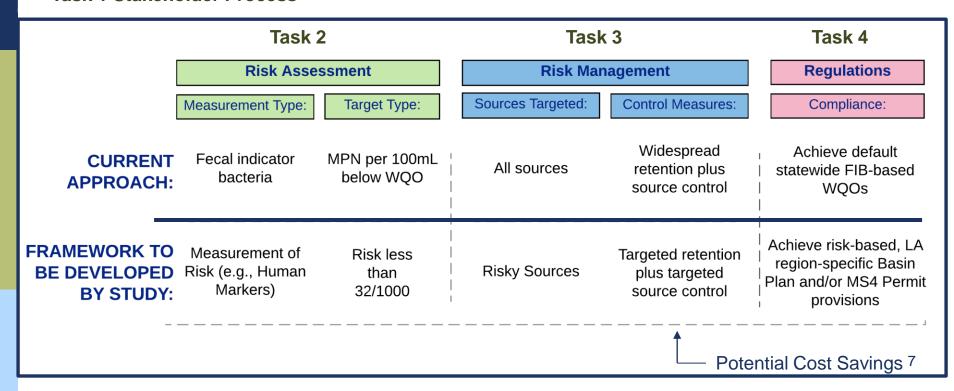
- Nexus to Stormwater Capture
  - Study will facilitate improved targeting of sources and water to capture
  - Study could reduce need to capture stormwater for bacteria compliance purposes
- Objective of Study
  - Leverage recent research
  - Produce strategies for incorporation into Program Plans
  - Support regulating agencies in making informed decisions

#### Scientific Study: Initial Steps

- Small Group Initiated Discussions
  - City and County of LA; LLC, LLAR, LSGR; and LWA
- Developed Special Study Approach
  - Apply state of the science to LA County specific issues
  - Built a scope for Measure W Regional Program funded study that each group can elect to participate (or not)
- Presented Approach E/WMP Groups
- Discussed with Regional Board staff

#### What will the study do?

Task 1 Stakeholder Process



## **Study Schedule**

Task		Year								
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Task 1 – Stakeholder Process										
Task 2 – Risk Assessment										
Task 3 – Risk Management										
Task 4 – Regulatory Revisions										

#### Measure W Scientific Study Funding

- Funding is now available to address issue through studies
- Multi-year studies eligible for scientific study funding (5% of regional program funds)

Watershed Area	Estimated Available Regional Funding for Special Studies				
viacionea / ii ca	Annual*	5 Years*			
Central Santa Monica Bay	\$890,000	\$4,450,000			
Lower Los Angeles River	\$640,000	\$3,200,000			
Lower San Gabriel River	\$835,000	\$4,175,000			
North Santa Monica Bay	\$90,000	\$450,000			
Rio Hondo	\$575,000	\$2,875,000			
Santa Clara River	\$300,000	\$1,500,000			
South Santa Monica Bay	\$920,000	\$4,600,000			
Upper Los Angeles River	\$1,930,000	\$9,650,000			
Upper San Gabriel River	\$945,000	\$4,725,000			
Total	\$7,125,000	\$35,625,000			

<sup>\*</sup> Assumes Measure W revenue of \$285,000,000/year.

#### **Cost Estimate**

	Tasks	Cost Estimate
Task 1-	Stakeholder Process	\$490,000
Task 2-	Risk Assessment	\$5,880,000
Task 3-	Risk Management	\$2,940,000
Task 4-	Regulatory Revisions	\$490,000
Total		\$9,800,000

## Watershed Area Cost Allocations – Los Angeles County Bacteria Scientific Study

	% Share of	Projected SCWP Scientific Study Funds		Study	Percent of SCWP
Watershed Area	Budget for Study <sup>2</sup>	Annual	5-Year	Contribution by Watershed Area	Scientific Study Funds over 5-Years
Central Santa Monica Bay	12.5%	\$890,695	\$4,453,125	\$1,224,282	
Lower Los Angeles River	8.98%	\$639,825	\$3,199,125	\$880,257	
Lower San Gabriel River	11.72%	\$835,050	\$4,175,250	\$1,148,559	
North Santa Monica Bay	1.26%	\$89,775	\$448,875	\$123,786	
Rio Hondo	8.07%	\$574,988	\$2,874,938	\$790,860	27.5%
Santa Clara River	4.21%	\$299,962	\$1,499,812	\$412,629	27.3%
South Santa Monica Bay	12.91%	\$919,838	\$4,599,188	\$1,265,369	
Upper Los Angeles River	27.09%	\$1,930,162	\$9,650,812	\$2,654,816	
Upper San Gabriel River	13.26%	\$944,775	\$4,723,875	\$1,299,442	
Total	100%	\$7,125,000	\$35,625,000	\$9,800,000	

- 1. Costs assume participation by all Watershed Areas, which increases efficiency of the study. Costs will need to be recalculated if not all Watershed Areas participate. Projected SCWP Scientific Study Funds are based on \$142.5 million in annual funds for the regional program (5% of which is available for scientific studies).
- 2. Percent of Total Budget is based on a proportional distribution of the costs based on the SCWP taxable impervious area.

## Watershed Area Cost Allocations – Annual Cost Estimates to Implement Bacteria Study

Watershed Area	Study Year						Projected Scientific Study	
	1	2	3	4	5	Total Budget	Funds Available	% of Fund
Central Santa Monica Bay	\$330,750	\$330,750	\$330,750	\$116,016	\$116,016	\$1,224,282	\$4,453,125	
Lower Los Angeles River	\$237,611	\$237,611	\$237,611	\$83,712	\$83,712	\$880,257	\$3,199,125	
Lower San Gabriel River	\$310,111	\$310,111	\$310,111	\$109,113	\$109,113	\$1,148,559	\$4,175,250	
North Santa Monica Bay	\$33,340	\$33,340	\$33,340	\$11,883	\$11,883	\$123,786	\$448,875	
Rio Hondo	\$213,532	\$213,532	\$213,532	\$75,132	\$75,132	\$790,860	\$2,874,938	27.5%
Santa Clara River	\$111,397	\$111,397	\$111,397	\$39,219	\$39,219	\$412,629	\$1,499,812	
South Santa Monica Bay	\$341,599	\$341,599	\$341,599	\$120,286	\$120,286	\$1,265,369	\$4,599,188	
Upper Los Angeles River	\$716,800	\$716,800	\$716,800	\$252,208	\$252,208	\$2,654,816	\$9,650,812	
Upper San Gabriel River	\$350,860	\$350,860	\$350,860	\$123,431	\$123,431	\$1,299,442	\$4,723,875	
Total	\$2,646,000	\$2,646,000	\$2,646,000	\$931,000	\$931,000	\$9,800,000	\$35,625,000	]

- 1. Costs assume participation by all Watershed Areas, which increases efficiency of the study. Costs will need to be recalculated if not all Watershed Areas participate. Projected SCWP Scientific Study Funds are based on \$142.5 million in annual funds for the regional program (5% of which is available for scientific studies).
- 2. Percent of Total Budget is based on a proportional distribution of the costs based on the SCWP taxable impervious area.

#### **Summary of Study**

- Will use latest available technologies to measure water-borne pathogens across watersheds.
- Will help identify key sources of human health risk, develop cost-effective protective strategies, and support needed regulatory shifts in support of this approach.
  - To make this successful, can't just be technical
  - Best way to focus on risk in the region
  - The time is now.

#### **Questions and Thank You**

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