# North Santa Monica Bay Dr Weather Storm Drain Diversions

Scientific Studies Program
Fiscal Year 2025-2026
North Santa Monica Bay
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# **Study Overview**

#### Summary of Study

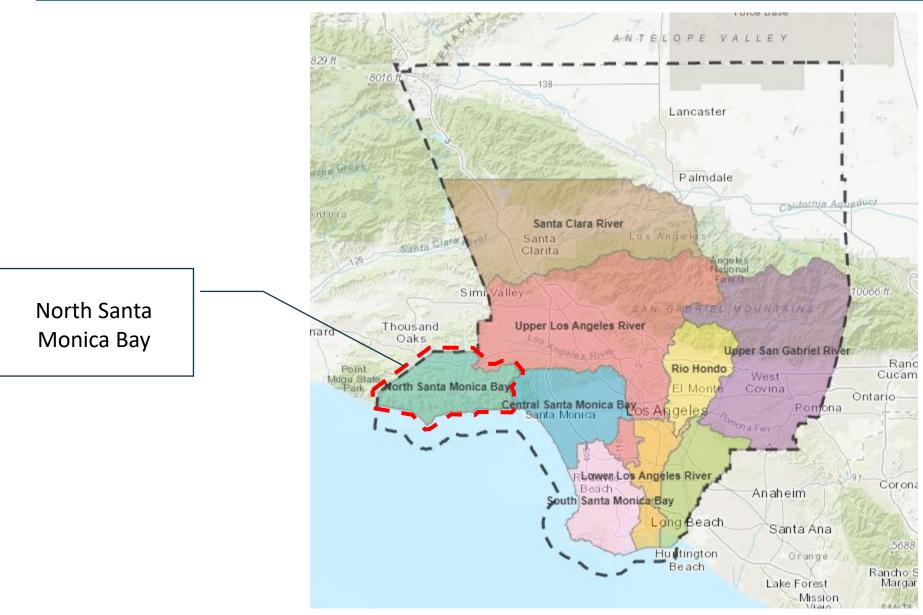
The North Santa Monica Bay Dry Weather Storm Drain Diversions scientific study will inform future decision-making related to introducing additional stormwater diversions in the region by:

- Quantifying dry weather storm drainage flow
- Identifying the chemical constituency of storm drain outfalls
  - Verify the feasibility of storm drain/sewer diversions
- Establish an allowable numerical inventory based on these criteria



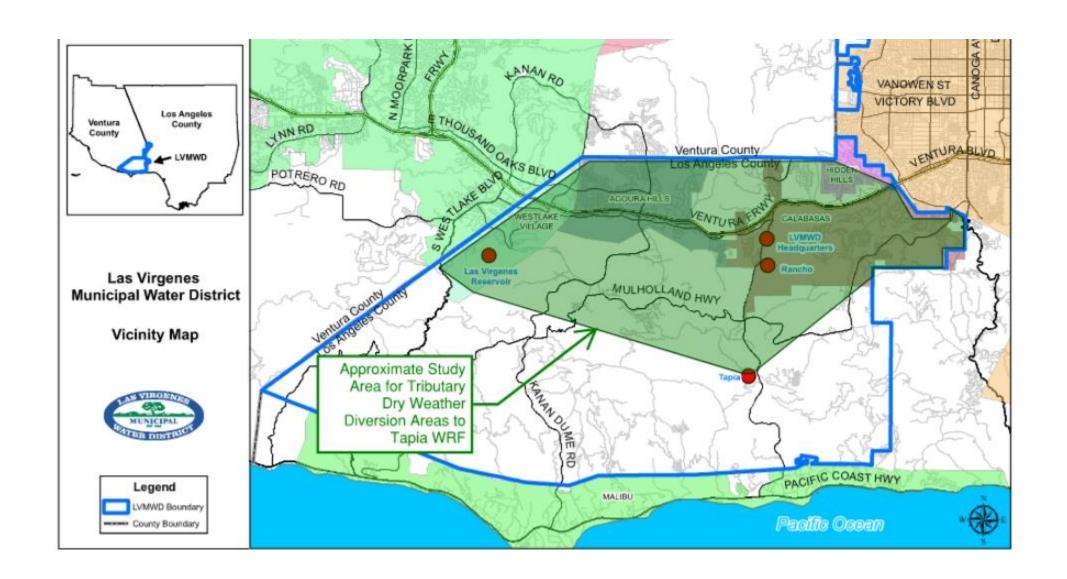


# **Study Location**



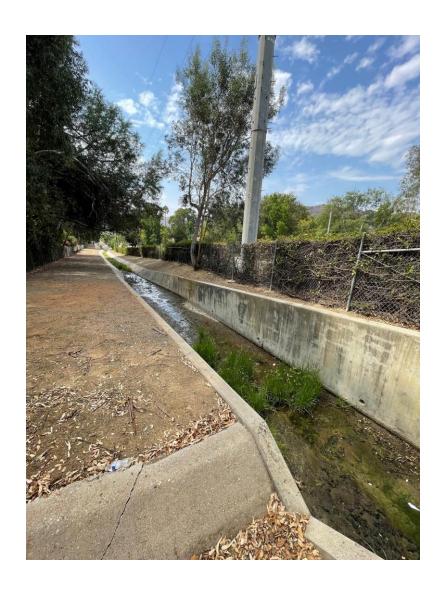


## **Study Location**





#### Study Details



#### **Problem Statement**

- Dry weather drainage and related pollutants from storm drain outfalls result in Municipal Separate Storm Sewer System (MS4) compliance concerns for jurisdictions.
- Required water conservation measures have resulted in a reduction of influent to the wastewater treatment facilities (LVMWD-Tapia).

#### Similar studies have been conducted in the past

- Storm drainage diversion projects have become more common in recent years.
- LVMWD has been a lead agency on capacity studies for additional influent on their existing WRF and proposed Pure Water facilities.

Internal SCW Program Discussion 5



### Study Details



#### **Study Methodology**

- Quantify typical dry weather flows at storm drain outfalls and correlate flow to tributary contributing runoff areas of existing storm drains.
- Analyze against capacity limits at LVMWD facilities.
- Sample and test dry weather flow at MS4 outfalls to identify bacteria and pollutants of concern.
- Characterize the pollutants of concern and evaluate against LVMWD treatment and discharge permits parameters.
- Identify outfall locations eligible for diversion or other end-of-pipe treatments.

Internal SCW Program Discussion 6





#### Study Methodology

- Consider impacts of potential diversions by developing stream gain and loss study parameters.
- Develop a dry-weather diversion project implementation program for MS4 permit agencies in the North Santa Monica Bay watershed.
- Define quantity and quality parameters for diversion projects.



## Study Details

#### Regional collaboration efforts

- Coordination and collaboration will be ongoing with LVMWD and MS4 permit agencies within the service area.
- This collaboration and working group will be critical to identifying needs of each of the stakeholders as well as working to develop a standardized permitting program for additional dry weather diversions throughout the region.













<sup>\*</sup>Collaboration with Thousand
Oaks/Ventura County on waterways
contributing to NSMB





# Cost & Schedule

Phase	Description	Cost	Completion Date	
Phase 1 – Study Planning	Working Group Development and Sampling Plan Development	\$43,823.48	6-8 months	
Phase 2 – Outfall Collection Sampling and Testing	Drainage Sampling and Testing, Working Group Collaboration.	\$176,388.48	2 years	
Phase 3 – Engineering Reporting and Data Analysis	Working Group Collaboration, Dry Weather Diversion Program Development, Engineering Reporting, Modeling and Data Analysis	\$187,823.48	1 year	
Phase 4 – Dry Weather Program Implementation and Finalization.	her Program nentation and nermitting program  Working Group Collaboration and finalization of dry weather permitting program  \$34,607.83		1 year	
TOTAL		\$442,643.27	4.5 to 5 years	



# Funding Request

WASC	Year 1	Year 2	Year 3	Year 4	Year 4
CSMB					
LLAR					
LSGR					
NSMB	\$91,964.73	\$ 82,890.33	\$ 117,356.90	\$ 115,823.48	\$ 34,607.83
RH					
SCR					
SSMB					
ULAR					
USGR					
TOTAL	\$91,964.73	\$174,855.06	\$292,211.96	\$408,035.44	\$442,643.27



# Summary of Benefits

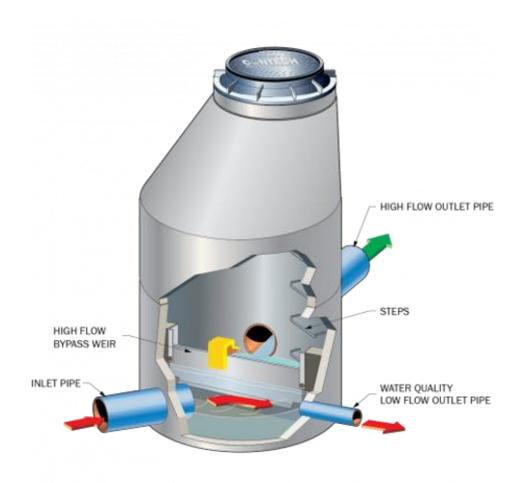


#### Water Quality Benefits, Water Supply Benefits and Community Investment Benefits

- Quantify pollutants of concern by outfall location contributing to the NSMB watershed and prioritize.
- Inform the decisions on future locations of dry weather diversion projects by MS4 permit agencies.
- Water quality data for MS4 permittees.
- Identify outfall locations where diversions may not be feasible and alternative end-ofpipe treatment should be considered to remove pollutants of concern from the NSMB and achieve MS4 compliance. 11



## Summary of Benefits



# Water Quality Benefits, Water Supply Benefits and Community Investment Benefits

- Streamline the delivery and permitting of future dry weather diversion projects.
- Clarify where diversion projects are infeasible (geometry or nature of pollutants).
- Promote standardized, cost efficient dry weather diversion projects utilizing primarily existing built infrastructure.

