SAFE CLEAN WATER PROGRAM

SCIENTIFIC STUDY PROGRAM
FISCAL YEAR 2027-2028

Herondo Drain Wet Weather Receiving Water Decision Study

SOUTH SANTA MONICA BAY



PRESENTATION DATE:
NOVEMBER 18, 2026

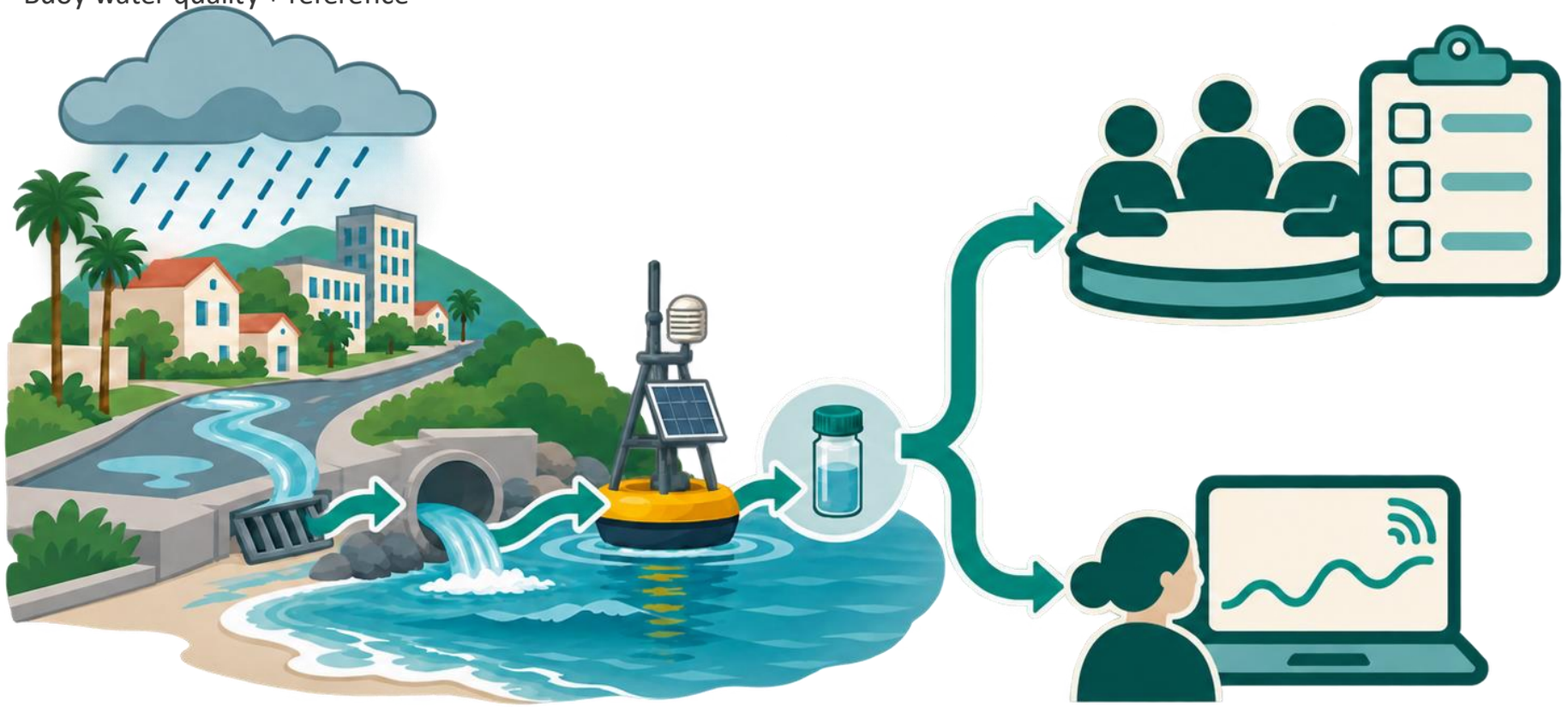
PROJECT LEAD:

7 Seas Collective
Michael Berns
Study-Program Manager

What WASC can do with the Herondo study

QUALITY-ASSURED EVENT LIBRARY

Source flow + lab zinc and TSS
Buoy water quality + reference



WASC DECISION MEMO

Advance / Refine / Defer

Next Herondo priority
Flow and zinc conditions for capture or pretreatment

PUBLIC DATA ACCESS

FieldScope live buoy feed
Final quality-assured data

Scientific Study Overview

Two wet seasons pair Herondo storm-drain measurements with nearshore buoy and dry event observations.

Nexus

Decision use

WASC receives an Advance, Refine, or Defer recommendation for future capture or treatment feasibility step.

STUDY LEAD

7 Seas Collective

WATERSHED AREA(S)

South Santa Monica Bay

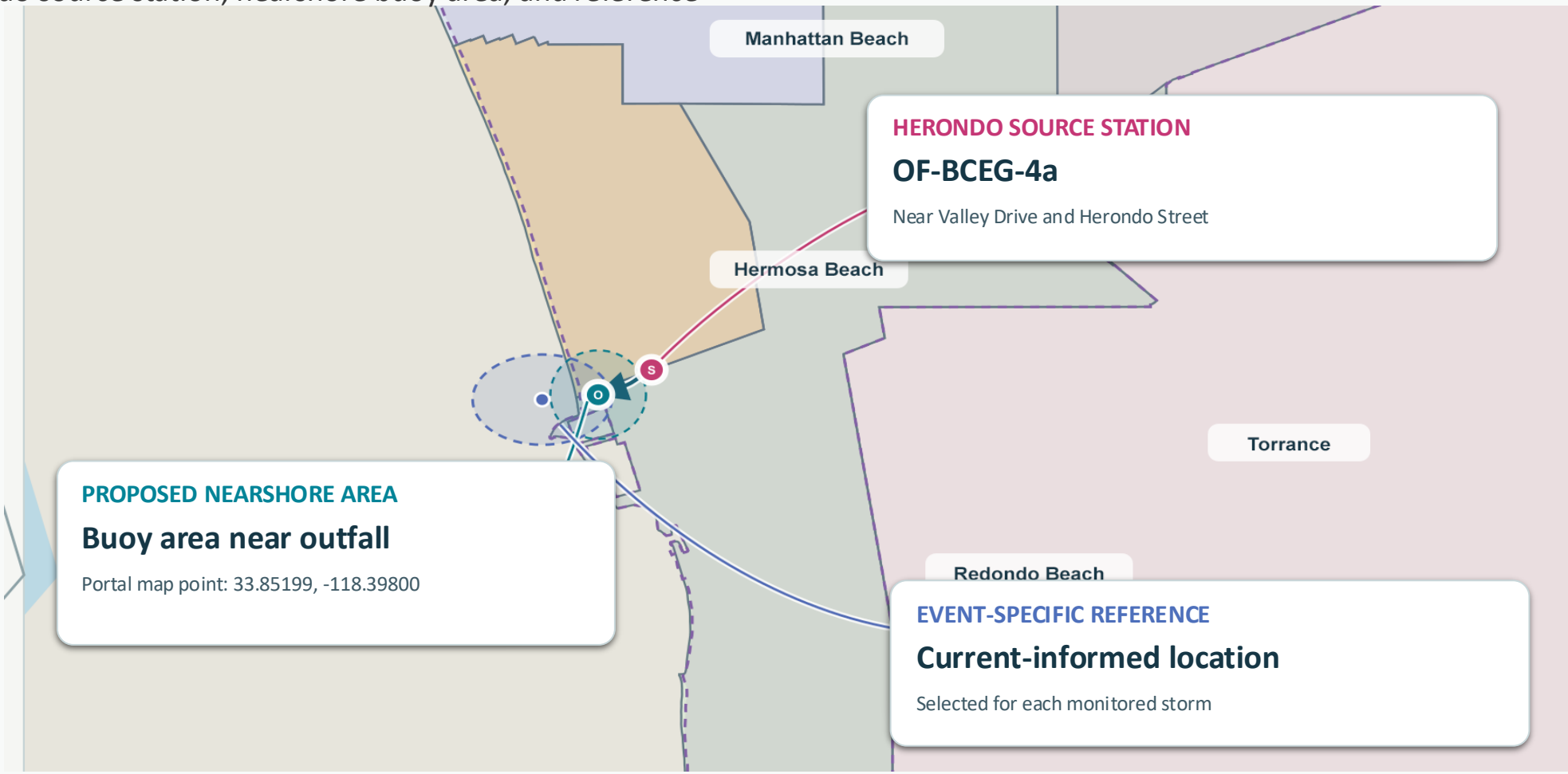
TOTAL FUNDING REQUESTED

$325,000

Requested in FY27-28 through FY30-31

Study Location

Herondo source station, nearshore buoy area, and reference



Problem Statement, Study Questions & Objectives

THE GAP No paired Herondo storm-to-nearshore event record

1

What leaves the drain?

Measured flow + zinc mass

2

What changes nearshore?

Buoy + dry weather measurements

3

What should WASC do?

Advance / Refine / Defer

Regional studies provide context. Herondo supplies the local, same-event decision record.

Study Methodology

YEAR 1 FY27-28

1

Plan & customize

QAPP + lab plan
Site-specific systems

YEAR 2 FY28-29

2

First wet season

Source flow + lab
buoy + dry weather

YEAR 3 FY29-30

3

Second wet season

Repeat paired events
at least 6 storms total

BY SEP 30, 2030

4

Analyze & advise

Event library
WASC decision memo

Three baseline dry weather rounds

PI-led quality plan throughout

ELAP lab confirms zinc

Expected Outcomes & Alignment

WHAT WASC RECEIVES

Quality-assured event library
Zinc load and nearshore analysis
Advance / Refine / Defer memo

WHY IT MATTERS IN SSMB

Zinc reduction priority
Site-scale investment evidence
Reusable protocol and public data

Summary of Benefits

Water quality

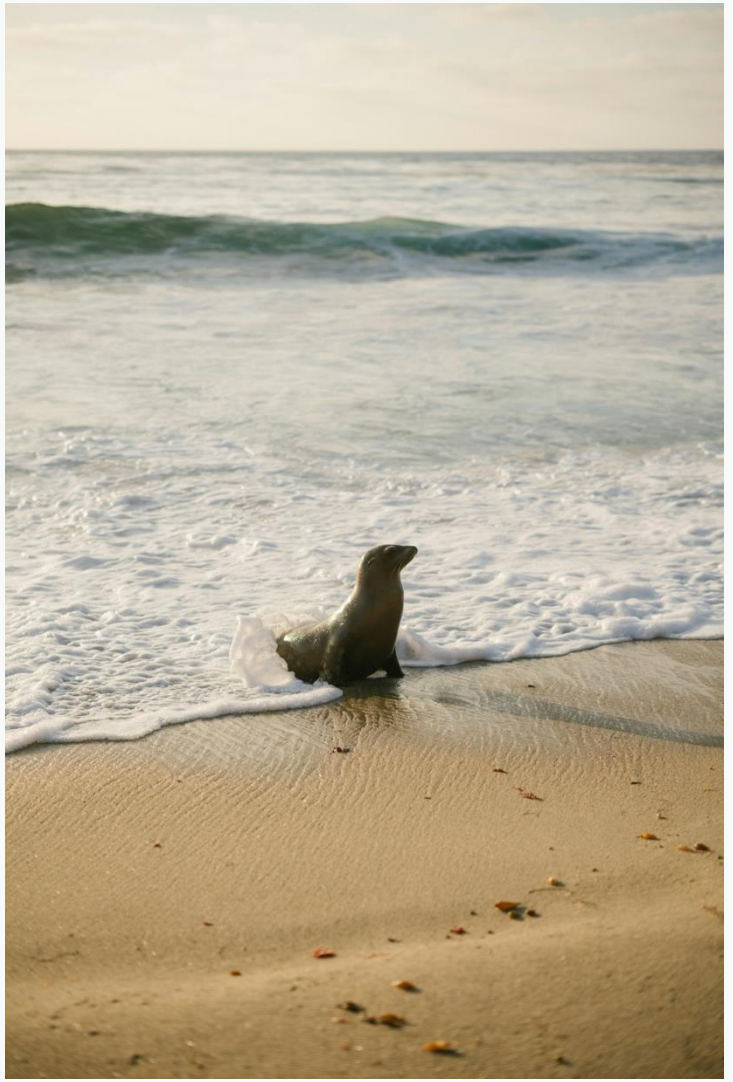
Measured flow, zinc mass, and nearshore conditions guide future capture or pretreatment.

Water supply

Runoff volume and timing inform a later capture and reuse assessment.

Other public benefits

Pierce students gain paid research experience. FieldScope shares study data, and Pierce can continue using the buoy.



Study Team & Dissemination

Study team

7 Seas: study coordination and source monitoring
Dr. Ng + Pierce: science and students
MlemLab: buoy engineering
ELAP lab: final zinc results

Regulatory framework

MS4 and California Ocean Plan context; applicable site-access requirements, SCWP goals.

Engagement and dissemination

WASC + Beach Cities: decision briefings
FieldScope: live and final public data
Pierce: supervised student research



Cost & Schedule

PHASE	SCOPE AND TIMING	COST	END DATE
Pre-study and work planning	Jan-Jun 2028: QAPP, site verification, design	$100,000	06/30/2028
Study implementation	Jul 2028-Jun 2030: systems, two wet seasons, lab and QA	$305,000	06/30/2030
Post-study	Jul-Sep 2030: synthesis, WASC memo, public release	$50,000	09/30/2030
TOTAL STUDY COST		**$455,000**	09/30/2030

Cost Share

Cost share: $130,000 ($10,000 committed cash; $120,000 in-kind). Engineers donate all study engineering labor. Budgeted leveraged share: 28.6%.

Funding Request by Watershed Area

WASC	FY27-28	FY28-29	FY29-30	FY30-31	TOTAL
SSMB	$75,000	$125,000	$100,000	$25,000	$325,000
TOTAL	$75,000	$125,000	$100,000	$25,000	$325,000



Watershed Planning Alignment

Pollutant-load evidence

Measured Herondo flow and zinc mass show the conditions that future water-quality investments would need to address.

Monitoring continuity

Paired source and nearshore observations extend Beach Cities monitoring and compare storms with baseline and nearshore buoy conditions.

Reusable research product

A reusable and evidence-based WASC memo support, continued screening at comparable coastal sites.

Relevant plan priorities

Strategy 1.1 prioritizes high-performance investments where pollutant loads are highest.

The plan calls for local analyses of pollutant loading and water-quality benefits when developing projects.

Program Strategy 5.2 strengthens scientific-study coordination and dissemination of results.

South Santa Monica Bay Initial Watershed Plan; SCW Program-wide Strategies



Thank you

QUESTIONS?

7 Seas Collective
Michael Berns, Study-Program Manager



los angeles
Pierce College