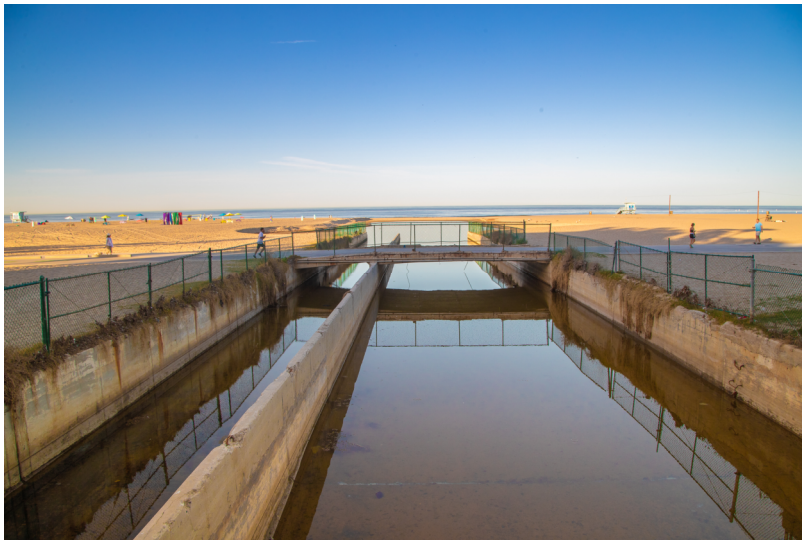


**Santa Monica Bay Jurisdictional Group 2 and 3 Watershed
Management Group
Semi-Annual Report
July 1, 2024 – December 31, 2024**



June 15, 2025



A PARTNERSHIP BETWEEN:
THE CITY OF LOS ANGELES
THE CITY OF A EL SEGUNDO
THE CITY OF SANTA MONICA
LOS ANGELES COUNTY AND
LOS ANGELES COUNTY FLOOD
CONTROL DISTRICT

In collaboration with:



**Regional Phase 1 MS4 NPDES Permit****Order No. R4-2021-0105****NPDES No. CAS004004****Watershed Management Program Progress Report Form****Reporting Period July 1, 2024 – December 31, 2024**

Watershed Management Program Name	Santa Monica Bay Jurisdictional Group 2 and 3 Watershed Management Group
Participating Permittee(s)	City of Los Angeles, Los Angeles County, Los Angeles County Flood Control District, and the cities of El Segundo, and Santa Monica
Date of Watershed Management Program Progress Report	June 15, 2025
Initial Approval Date of Watershed Management Program (according to Table 12 or Part IX.G.3 of the Order)	April 21, 2016



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1.0 Overview

Healthy lakes, rivers, creeks, and oceans isn't just something we want, it's something we need. It's so important that the federal government realized, way back in 1948 when the Federal Water Pollution Control Act was passed, that we needed to keep our waters protected so they wouldn't become dumping grounds for all our garbage and pollution. Big changes were made in 1969 when California adopted the Porter Cologne Act to govern water quality regulations and again in 1972 when the federal government expanded and reorganized the original clean water laws, which led to what we know as the Clean Water Act.

The Clean Water Act works hard for us! It sets the stage for what the states need to do to protect the waters within their borders. In our region of California, this falls on the Los Angeles Regional Water Quality Control Board (let's just call them the Regional Board) to understand the requirements and enforce them.

Whew! That's a lot of legal mumbo-jumbo. What does this all mean?

Basically, the Regional Board's job is to make sure everyone in the region keeps our waterways clean. Anyone who puts water into a river, lake, or ocean must explain to the Regional Board how they will keep the water clean, and they cannot release the water until the Regional Board agrees and issues a permit.

What does that have to do with me and my city or county?

Because so much pollution comes from our cars, industries, landscaping, litter, and pets, a lot of our waterbodies have too much pollution entering them. Our cities and the county are working hard to clean up their stormwater, but all of us still need to do a lot to fix the problem created by the way people live.

Ever notice how when it's raining, all the water on the street flows into a gutter on the side of the road? That water all flows into a storm drain which carries the water until it empties into a river, creek, lake, or the ocean. This stormwater basically washes the ground as it flows by and carries with it all the trash, oil, pollution, and gunk that has accumulated on the land since the last rainfall.

Here in our region, we have what we call municipal separate storm sewer systems (or MS4 for short!). They are called "separate" because they only carry stormwater and are *separate* from the sewers that carry raw sewage (for example, whatever goes down the drain when we do things like shower or flush the toilet). Unlike sewage that gets cleaned up at a water reclamation plant, stormwater in the MS4s drains directly to the rivers, creeks, lakes, and ocean unless it is removed before it gets there. Because of this, your city or county is responsible for removing the pollution the stormwater picks up from its land (and for some cities, that's a LOT of land!).

This sounds like a big problem! How do we deal with it?

We want to be able to go swimming and not get sick, and we want the fish and plants to have a healthy ecosystem. Remember the Regional Board we were talking about? Their job is to make sure your city doesn't let the waterbody take on more pollution than people, plants, aquatic animals, and local ecosystems can handle. To do this, the Regional Board issues a permit that requires the cities and county figure out what they need to do to limit pollution. The cities and county create a plan of action, which usually includes creating programs and building projects, then send it to the Regional Board to approve it. The cities and county then follow the plan and report on progress every six months. Because the plan is part of the permit, the cities and county are also called "Permittees".

Next, we'll go over what we've been doing in our watershed. You can visit our website to learn more and to get an explanation for some of the terms you may not be familiar with.

Check us out at: www.lastormh2o.org.

We are so glad that you are interested in your watersheds!

2.0 Watershed Control Measures Progress

The Santa Monica Bay Watershed is split up into several jurisdictions. The agencies in Jurisdictions 2 and 3 include City of El Segundo, City of Santa Monica, City of Los Angeles, Los Angeles County, and Los Angeles County Flood Control District. The Group developed a Water Management Program (WMP), which is the plan that the agencies are following to keep our waters clean.

A HUGE benefit to managing stormwater as a group is that the agencies work together to make the best decisions for the region. All the agencies in our Group are working together to come up with opportunities to partner on projects and plan for the future of our watershed. Our group meets regularly to discuss on-going projects and find ways to work together on new project opportunities. Some agencies have come together to develop specific projects in partnership with one another. Our Group has also worked with other partnering agencies including California Natural Resources Agency, State Water Resources Control Board, Los Angeles Department of Recreation and Parks, and Los Angeles Council Districts.

The Santa Monica Bay Watershed Jurisdictional Group 2 and 3 did not have any milestones in their WMP this reporting period, but the agencies have done a lot of work to get ready for future milestones. There are 61 projects in the Santa Monica Bay Jurisdictional Group 2/3 Watershed. These projects are either non-structural solutions that help improve our watershed or large regional projects that capture and treat stormwater. We have already completed 40 projects (woohoo!) and we are working on 21 in-progress projects

In addition to the large projects, stormwater is being captured across the watershed on individual properties through a process called low impact development (LID), which we'll discuss later in this section.

Check out the chart (Figure 2-1) to see how much we've done to reach our target capture volume (the part of the bucket that is filled by the stormwater we are capturing by completed and in-progress projects and LID). The empty part of the bucket represents how much we need to do to reach our final goals.

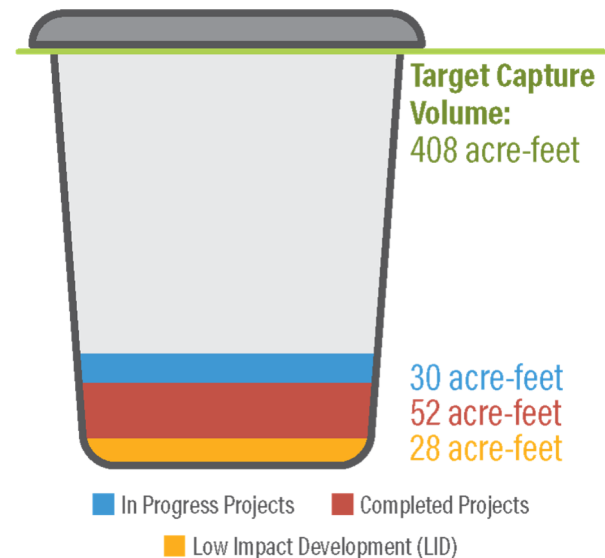


Figure 2-1 Stormwater Capture Volume Progress

Fifty projects received technical assistance funding (aka, money to help with the planning of projects) from various sources. Other projects received funding as well. Across all phases, one project received or requested funding from the Safe, Clean Water Program (Measure W), while others received funding from other sources. The various sources of funding, across all phases, are listed on the next page:

Funding sources for Santa Monica Bay Jurisdictions 2 and 3 Watershed projects

- Safe, Clean Water (Measure W)
- Municipal funds
- Proposition O
- State Water Board Clean Initiative Grant Program
- Los Angeles World Airport
- Proposition 84
- CA Proposition 1

Check out the charts that show how much money we received so far (Figure 2-2), and how much we received compared to how much we need to do all the work to reach our goals (Figure 2-3). We're excited to now have the Safe, Clean Water Program in place, which just began funding projects in 2019, and we are hard at work getting ready to ask for more money to fund the best projects.



Figure 2-2 Total Funding Received

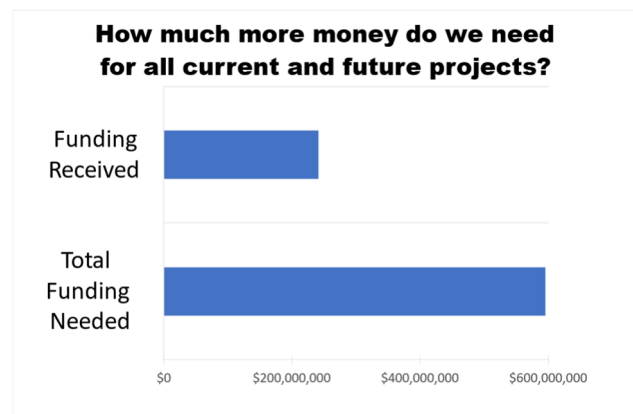


Figure 2-3 Required vs. Current Funding

Stormwater projects don't just clean up the water, they can improve the environment and help the community in other ways as well. Figure 2-4 shows a summary of how these projects are contributing to a better community.

How Many of the 61 Completed and In-Progress Projects Provide Community Benefits?

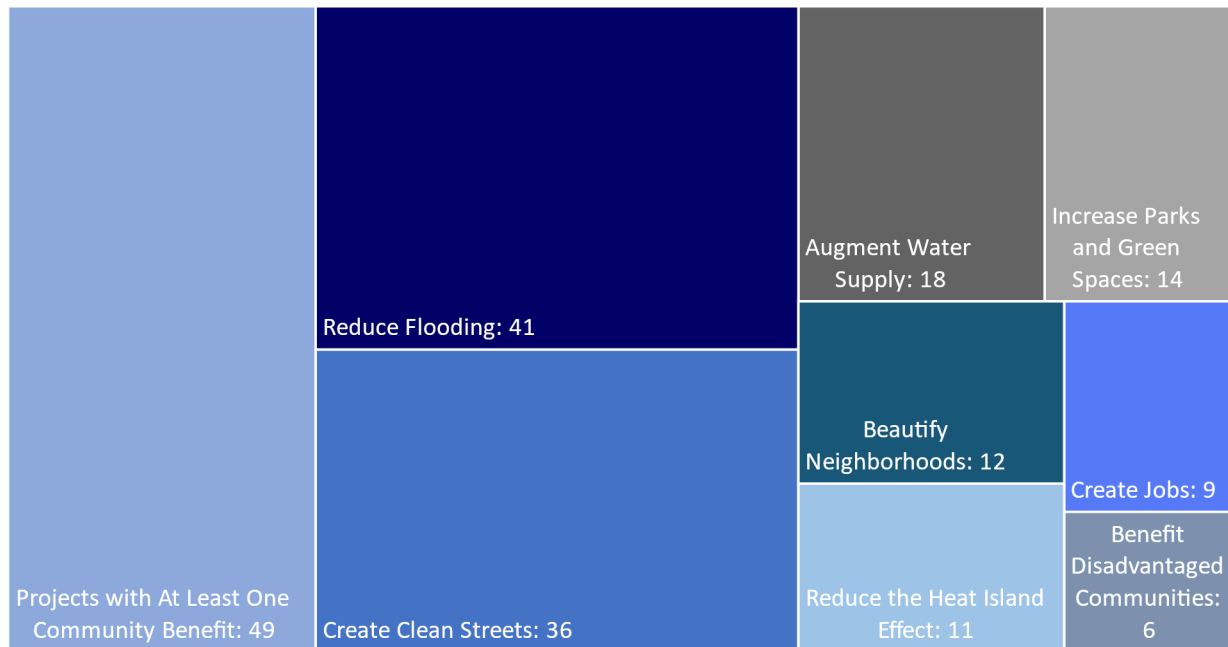


Figure 2-4 Community Benefit Breakdown for Completed and In-Progress Projects

In addition to the large projects mentioned here, stormwater is being captured and treated across the watershed on individual properties through the "low impact development" or LID process. Homeowners, developers, and public agencies are required to manage their stormwater on-site when they build new or redevelop properties. In an area as dynamic as the Los Angeles region, there is always construction going on. This means a lot of stormwater and dry weather runoff will be captured and treated, or allowed to soak into the ground, as properties are built or improved. Making stormwater management part of land development cuts down on the amount of large and expensive regional projects that need to be built. LID projects will also help our Group reach our final goals and are included in the full part of the bucket (Figure 2-1). Using LID means we're being smart about how we build and thinking about stormwater ahead of time, which benefits everyone!

While our watershed group is doing a lot to reach water quality goals and provide benefits to the community, we still have more work to do. A key roadblock has always been finding enough money to build and take care of these projects. Since funding became available in 2019 through the Safe, Clean Water Program (Measure W), the agencies are working to develop high quality projects that have a good chance of receiving money. Supporting these projects can go a long way and we hope you'll **stay involved, in touch, and engaged** so we can bring the best projects to our communities!

To see a complete list of projects and efforts completed and/or in-progress in the watershed from December 28, 2012, to the end of this reporting period (December 31, 2024), check out Appendices A and B. Appendix C shows what deadlines occurred during this reporting period (July 1, 2024, to December 31, 2024).

We update this report every six months, in June and December, so keep a look out for the next update. Our website is also a great resource to learn more about the watershed, how we are doing, and to get more information on the terms and ideas we discussed in this report.

We hope to see you soon at www.lastormh2o.org!



Appendix A Section 1.2 – Watershed Control Measures Completed

Order R4-2021-0105 NPDES Permit No. CAS004004 - Appendix H, Section 1.2 Watershed Control Measures requires the completion of Table 1a for watershed control measures completed from December 28, 2012 to the end of this reporting period. Section 1.2a provides a list of additional information to be provided for each watershed control measure. Appendix A of this Semi-Annual Report includes this information in 2 parts to address these requirements. The tables are titled as follows:

- Section 1.2 - Table 1a-part 1: Watershed Control Measures Completed
- Section 1.2 - Table 1a-part 2: Additional Information

Section 1.2 - Table 1a-part 1: Watershed Control Measures Completed

Project Name	Previous Project Name(s) if Changed	Permittee(s)	Subwatershed	Project Type	Description	Latitude	Longitude	Required Completion Date in WMP	Actual Completion Date	Capital Costs [\$]	Cumulative O&M Costs [\$]	Funding Source(s)	Project Footprint [Acres]	Drainage Area [Acres]	Projected Storage Capacity in WMP [Acre-feet]	Actual Storage Capacity [Acre-feet]	Cumulative Volume Addressed [Acre-feet]
Argo Drain Sub-Basin Facility	Westchester Stormwater Improvement Project	Los Angeles, Unincorporated LA County	Santa Monica Bay	Regional Infiltration Gallery	The project, located in CD 11, will capture the first ¼-inch rainfall from the Argo Drain, 8-foot by 9-foot box County of LA Drain #647, and 84-inch City of LA Drain, which discharge into Santa Monica Bay. The captured flow from these three storm drains will be pre-treated to remove trash and particulates. The flows will then be diverted to a pump station, which will move the stormwater into a clarifier for further pre-treatment to settle out suspended solids. After clarifying, the water will flow to an 8.1-million-gallon underground infiltration system.	33.952415	-118.432772	Not Applicable	4/20/2022	\$50,925,276.00	\$5,401,566.00	City of LA Proposition O, Other Municipal Program	5.00 ac	2,320.00 ac	151.06 ac-ft	25.00 ac-ft	783.52 ac-ft
Clean Beaches Initiative	Not Applicable	Santa Monica	Santa Monica Bay	Regional Treatment Facility	The Clean Beaches Project captures stormwater runoff flowing off the downtown watershed area (Pier Watershed - approximately 106 acres) and diverts it to a 1.6-million-gallon cistern located adjacent to the Santa Monica Pier. Salty groundwater found under and around the cistern is added to the mix, and the blended water is treated, and distributed for irrigation and toilet flushing thru the City's purple pipe system (Reclaimed Water system) for non-potable uses.	34.011599	-118.496893	Not Applicable	8/28/2018	\$16,000,000.00	\$180,000.00	State Water Board Clean Beaches Initiative Grant Program	0.50 ac	100.00 ac	5.00 ac-ft	5.00 ac-ft	192.84 ac-ft
Drought Management Plan	Drought Management Plan and Water Conservation Campaign	Unincorporated LA County	Not Applicable	Outreach and Conservation Program	Strategic communication plan for drought management	Not Applicable	Not Applicable	Not Applicable	10/31/2024	\$201,100.00	Not Applicable	Municipal General Fund	Not Applicable	Not Applicable	Not Applicable	Not Applicable	0.00 ac-ft
Green Alley Master Plan (GAMP)	Not Applicable	Unincorporated LA County	Not Applicable	Other	The County's GAMP includes feasibility investigations, site specific evaluations, and geotechnical testing to identify opportunities for green alley projects throughout the unincorporated County areas. The GAMP identifies over 140 alley segments conducive to green infrastructure retrofit that will guide the County's green alley implementation efforts to comply with the MS4 permit.	Not Applicable	Not Applicable	Not Applicable	6/30/2021	\$510,519.53	Not Applicable	Municipal General Fund	Not Applicable	Not Applicable	Not Applicable	Not Applicable	0.00 ac-ft
Green Street Standard Plans and Design Guidelines (GSSP&DG)	Not Applicable	Unincorporated LA County	Not Applicable	Other	The GSSP&DG include standard plans and design guidelines for bioretention planters, curb extensions, basin as well as subsurface infiltration BMPs such as tree wells, drywells, and infiltration galleries. The GSSP&DG will help the region standardize green infrastructure practices to reduce construction and maintenance costs.	Not Applicable	Not Applicable	Not Applicable	5/11/2021	\$504,539.53	Not Applicable	Municipal General Fund	Not Applicable	Not Applicable	Not Applicable	Not Applicable	0.00 ac-ft
Green Streets Master Plan (GSMP)	Not Applicable	Unincorporated LA County	Not Applicable	Other	The County's GSMP includes feasibility investigations, site specific evaluations, and geotechnical testing to identify opportunities for green street projects throughout the unincorporated County areas. The GSMP identifies over 100 sites conducive to green infrastructure retrofit that will guide the County's green street implementation efforts to comply with the MS4 permit.	Not Applicable	Not Applicable	Not Applicable	1/31/2022	\$2,835,132.53	Not Applicable	Municipal General Fund	Not Applicable	Not Applicable	Not Applicable	Not Applicable	0.00 ac-ft
Los Amigos Park	Not Applicable	Santa Monica	Santa Monica Bay	Regional Treatment Facility	The Los Amigos Park Retrofit is a collaborative effort between the City of Santa Monica, the Santa Monica Malibu Unified School district, and the Metropolitan Water District of Southern California. The project stores approximately 53,000 gallons of urban runoff and offset up to 550,000 gallons of potable water each year.	34.0065	-118.4822	Not Applicable	5/17/2017	\$3,000,000.00	\$427,000.00	Not Applicable	0.01 ac	32.00 ac	Not Applicable	0.17 ac-ft	92.01 ac-ft
MalibuSmart/TopangaSmart	Not Applicable	Unincorporated LA County, Malibu	Not Applicable	Incentive Program	Rebate program for fixtures and appliances for District 29 customers	Not Applicable	Not Applicable	Not Applicable	6/30/2022	\$0.00	Not Applicable	Municipal General Fund, Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Not Applicable	0.00 ac-ft
Marine Park	Not Applicable	Santa Monica	Santa Monica Bay	Regional Treatment Facility	The City of Santa Monica was awarded a Prop 84 grant to construct a pipeline from the 2.75 MG Penmar Stormwater Harvesting Tank located under Penmar Park in the City of Los Angeles to a 25,000 gallon cistern located at Marine Park to irrigate the playing fields and landscaping at Marine Park. The collection, pre and primary treatment was built by the City of Los Angeles as part of the construction of the 2.75 MG harvesting tank.	34.0062	-118.4656	Not Applicable	2/9/2018	\$2,000,000.00	\$74,000.00	Not Applicable	0.01 ac	635.90 ac	Not Applicable	0.09 ac-ft	152.22 ac-ft
Ocean Park Boulevard Green Street	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Biofiltration	Diversion	34.003932	-118.481458	Not Applicable	4/30/2013	\$4,893,000.00	\$15,600.00	Not Applicable	0.25 ac	33.60 ac	0.00 ac-ft	2.34 ac-ft	253.11 ac-ft
Old Oak Road Swales Green Street	N/A	Los Angeles	Santa Monica Bay	Green Street, Bioretention	Project treats water through the following design elements; 11 parkway bio-swales, 2 curbside grating catch basins, 2 alley grating catch basins, native vegetation. The approximate drainage area is 50 acres of residential area within an equestrian community.	34.06028	-118.496375	Not Applicable	5/1/2014	\$410,000.00	\$65,620.00	CA State Proposition 84	1.00 ac	43.00 ac	22.00 ac-ft	0.10 ac-ft	185.21 ac-ft
Penmar Water Quality Improvement Phase I and Phase II	Not Applicable	Los Angeles	Santa Monica Bay	Diversion to Sanitary Sewer	Phase I: BMPs: 2 hydrodynamic separators, lift station, 2.75-million gallon underground detention tank. Phase II: Construction of an onsite stormwater treatment /disinfection system. The treated stormwater is to be used for landscape irrigation.	34.006583	-118.455594	Not Applicable	8/30/2018	\$24,711,226.00	\$4,696,823.00	CA State Proposition 84	70.00 ac	1,468.00 ac	8.44 ac-ft	8.44 ac-ft	1,065.27 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.01869	-118.48769	Not Applicable	6/24/2019	\$0.00	\$0.00	Not Applicable	0.14 ac	0.69 ac	Not Applicable	0.17 ac-ft	2.03 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.01933	-118.48658	Not Applicable	5/28/2019	\$0.00	\$0.00	Not Applicable	0.14 ac	0.85 ac	Not Applicable	0.05 ac-ft	2.40 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0232	-118.4819	Not Applicable	1/4/2019	\$0.00	\$0.00	Not Applicable	0.14 ac	0.78 ac	Not Applicable	0.05 ac-ft	2.95 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.02172	-118.48385	Not Applicable	1/4/2019	\$0.00	\$0.00	Not Applicable	0.14 ac	0.52 ac	Not Applicable	0.03 ac-ft	2.14 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.02019	-118.48576	Not Applicable	1/4/2019	\$0.00	\$0.00	Not Applicable	0.14 ac	0.54 ac	Not Applicable	0.03 ac-ft	2.19 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0201	-118.4893	Not Applicable	7/13/2017	\$0.00	\$0.00	Not Applicable	0.14 ac	0.77 ac	Not Applicable	0.06 ac-ft	3.41 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0264	-118.4838	Not Applicable	7/13/2017	\$0.00	\$0.00	Not Applicable	0.14 ac	0.57 ac	Not Applicable	0.08 ac-ft	2.69 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0344	-118.4779	Not Applicable	7/13/2017	\$0.00	\$0.00	Not Applicable	0.14 ac	0.31 ac	Not Applicable	0.05 ac-ft	1.59 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0192	-118.4901	Not Applicable	5/30/2017	\$0.00	\$0.00	Not Applicable	0.14 ac	0.48 ac	Not Applicable	0.05 ac-ft	2.31 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0381	-118.4698	Not Applicable	12/23/2016	\$0.00	\$0.00	Not Applicable	0.14 ac	0.73 ac	Not Applicable	0.03 ac-ft	3.93 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0257	-118.4885	Not Applicable	11/23/2016	\$0.00	\$0.00	Not Applicable	0.14 ac	0.56 ac	Not Applicable	0.05 ac-ft	3.28 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0229	-118.4889	Not Applicable	11/23/2016	\$0.00	\$0.00	Not Applicable	0.14 ac	0.53 ac	Not Applicable	0.07 ac-ft	3.13 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0257	-118.4885	Not Applicable	11/23/2016	\$0.00	\$0.00	Not Applicable	0.14 ac	0.56 ac	Not Applicable	0.05 ac-ft	3.28 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0323	-118.4739	Not Applicable	11/23/2016	\$0.00	\$0.00	Not Applicable	0.14 ac	0.95 ac	Not Applicable	0.07 ac-ft	4.90 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0214	-118.478	Not Applicable	11/23/2016	\$0.00	\$0.00	Not Applicable	0.14 ac	0.17 ac	Not Applicable	0.003 ac-ft	1.11 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0356	-118.4705	Not Applicable	11/23/2016	\$0.00	\$0.00	Not Applicable	0.14 ac	0.46 ac	Not Applicable	0.03 ac-ft	2.77 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0371	-118.4687	Not Applicable	11/23/2016	\$0.00	\$0.00	Not Applicable	0.14 ac	0.64 ac	Not Applicable	0.03 ac-ft	3.63 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0214	-118.4909	Not Applicable	11/11/2016	\$0.00	\$0.00	Not Applicable	0.14 ac	0.68 ac	Not Applicable	0.05 ac-ft	3.83 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0315	-118.4777	Not Applicable	7/14/2015	\$0.00	\$0.00	Not Applicable	0.14 ac	0.68 ac	Not Applicable	0.03 ac-ft	4.20 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0234	-118.4876	Not Applicable	7/14/2015	\$0.00	\$0.00	Not Applicable	0.14 ac	1.36 ac	Not Applicable	0.03 ac-ft	6.82 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0355	-118.4759	Not Applicable	7/14/2015	\$0.00	\$0.00	Not Applicable	0.14 ac	0.69 ac	Not Applicable	0.03 ac-ft	4.26 ac-ft

Section 1.2 - Table 1a-part 1: Watershed Control Measures Completed

Project Name	Previous Project Name(s) if Changed	Permittee(s)	Subwatershed	Project Type	Description	Latitude	Longitude	Required Completion Date in WMP	Actual Completion Date	Capital Costs [\$]	Cumulative O&M Costs [\$]	Funding Source(s)	Project Footprint [Acres]	Drainage Area [Acres]	Projected Storage Capacity in WMP [Acre-feet]	Actual Storage Capacity [Acre-feet]	Cumulative Volume Addressed [Acre-feet]
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0361	-118.4766	Not Applicable	7/14/2015	\$0.00	\$0.00	Not Applicable	0.14 ac	0.81 ac	Not Applicable	0.02 ac-ft	4.83 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0352	-118.4775	Not Applicable	7/14/2015	\$0.00	\$0.00	Not Applicable	0.14 ac	0.75 ac	Not Applicable	0.02 ac-ft	4.54 ac-ft
Permeable Alley	Not Applicable	Santa Monica	Santa Monica Bay	Green Street, Bioretention	Permeable surface v-gutters in alley	34.0348	-118.4769	Not Applicable	6/22/2015	\$0.00	\$0.00	Not Applicable	0.14 ac	0.56 ac	Not Applicable	0.03 ac-ft	3.61 ac-ft
Sandhill Infiltration Basin	Not Applicable	El Segundo	Santa Monica Bay	Regional Infiltration Gallery	Located in the Santa Monica Bay watershed, this infiltration basin collects runoff from 53 acres of tributary area. The basin is currently size to capture and retain more than the SWQDv from the tributary area, all of which infiltrates in the basin.	33.926532	-118.427016	12/31/2019	12/19/2019	\$0.00	\$0.00	Municipal General Fund	0.79 ac	53.00 ac	4.70 ac-ft	1.37 ac-ft	77.56 ac-ft
Santa Monica Bay Low Flow Diversion Upgrades, Pkg. 3 Ph 2	Not Applicable	Los Angeles	Santa Monica Bay	Diversion to Sanitary Sewer	Constructed a relief sewer (CIRS-Approximately 900 total linear feet of pipe) to the Coastal Interceptor Sewer in order to comply with the bacteria TMDL winter dry-weather regulations	34.037911	-118.541453	10/1/2015	10/1/2015	\$14,194,469.00	\$3,939,257.00	CA State Proposition 84, Other Municipal Program	0.07 ac	9,988.00 ac	0.00 ac-ft	0.00 ac-ft	0.00 ac-ft
SWIP	Not Applicable	Santa Monica	Santa Monica Bay	Regional Treatment Facility	<p>The City of Santa Monica Sustainable Water Infrastructure Project (SWIP) is a first of its kind project that provides a drought resilient water supply for the City. The SWIP Consists of three integral project elements:</p> <p>Element 1: Stormwater, Dry Weather Urban Runoff Treatment and Reuse Element 2: Stormwater and Municipal Wastewater Treatment and Potable Reuse Element 3: Stormwater Harvesting</p> <p>Together these elements work together to produce up to 1,680 acre-feet per year of advanced treated recycled water or roughly 10% of the City's water supply to reduce the City's reliance on imported water supplies. Other key benefits of the SWIP include:</p> <p>Diversifies the City's water supply portfolio with a drought resilient source Improve water quality in the Santa Monica Bay through the reduction of stormwater discharges Comply with State Municipal Separate Storm Sewer System (MS4) and Enhanced Watershed Management Plan (EWMP) stormwater nonpoint source pollution control measures for Santa Monica Bay. Recycle 1.0 million gallons per day (MGD) of municipal wastewater for permitted reuse, including future indirect potable reuse via aquifer recharge Treat up to 0.5 (MGD) of stormwater, dry weather urban runoff, and/or brackish-saline-impaired groundwater for permitted beneficial reuse Replenish the City's local groundwater supply with a sustainable, drought resilient source Contribute to achieving self-sufficiency goals identified in the 2018 Sustainable Water Master Plan</p>	34.01012712	-118.4898227	1/1/2024	1/1/2024	\$96,000,000.00	\$0.00	Not Applicable	0.16 ac	88.00 ac	4.60 ac-ft	4.60 ac-ft	37.43 ac-ft
Temescal Canyon Park Stormwater Phase I and Phase II	Not Applicable	Los Angeles	Santa Monica Bay	Diversion to Sanitary Sewer	Phase I of the project, located in CD 11, consists of the construction of a stormwater diversion structure, hydrodynamic separator, various pipelines (such as, dry-weather runoff return pipeline and overflow pipeline), underground detention tank, electrical enclosures (i.e., underground and aboveground electrical boxes, telephone ducts and a vault), locked hatches, an at-grade outlet, discharge pumps, new (replacement) playground equipment, a discharge force main, and rehabilitation of an existing force main. Phase II of the Temescal Canyon Park Stormwater BMP Project will construct an onsite stormwater treatment system at Temescal Canyon Park. The treated stormwater is designed to be used for landscape irrigation. This project will make use of the underground cistern constructed under Phase I of this project.	34.037982	-118.533711	Not Applicable	8/30/2018	\$18,646,000.00	\$3,544,017.00	City of LA Proposition O	13.00 ac	1,550.00 ac	3.84 ac-ft	3.84 ac-ft	1,414.64 ac-ft
Summary of New and Redevelopment Projects	Not Applicable	El Segundo	Santa Monica Bay	New and Redevelopment	This line item is intended to provide a summary of the City of El Segundo's new and redevelopment projects. The values shown here were developed by summing the respective values of 30 new and redevelopment projects in the area covered by this subwatershed and jurisdiction.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	59.77 ac	59.77 ac	Not Applicable	1.84 ac-ft	163.06 ac-ft
Summary of New and Redevelopment Projects	Not Applicable	Los Angeles	Santa Monica Bay	New and Redevelopment	This line item is intended to provide a summary of the City of Los Angeles's new and redevelopment projects. The values shown here were developed by summing the respective values of 2013 new and redevelopment projects in the area covered by this subwatershed and jurisdiction.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	232.96 ac	232.96 ac	Not Applicable	14.99 ac-ft	158.89 ac-ft
Summary of New and Redevelopment Projects	Not Applicable	Santa Monica	Santa Monica Bay	New and Redevelopment	This line item is intended to provide a summary of the City of Santa Monica's new and redevelopment projects. The values shown here were developed by summing the respective values of 3110 new and redevelopment projects in the area covered by this subwatershed and jurisdiction.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	101.76 ac	1,021.35 ac	Not Applicable	11.05 ac-ft	395.72 ac-ft
Summary of New and Redevelopment Projects	Not Applicable	Unincorporated LA County	Santa Monica Bay	New and Redevelopment	This line item is intended to provide a summary of Unincorporated LA County's new and redevelopment projects. The values shown here were developed by summing the respective values of 1 new and redevelopment projects in the area covered by this subwatershed and jurisdiction.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	0.11 ac	0.12 ac	Not Applicable	0.01 ac-ft	0.12 ac-ft

Note: Project information contained in this table was compiled based on information provided by the Permittee(s) involved in each project. The Permittee leading each project is identified as the first Permittee listed in the "Permittee(s)" column.

Table 1.2a: Additional Information Regarding Watershed Control Measures Completed

Project Name	Permittee(s) Collaborated with	Non-Permittee(s) Collaborated with	Funding Sought [\$]	Funding Obtained [\$]	Technical Assistance Received	Provides Clean Streets Benefit (e.g., street sweeping, litter abatement, etc.) ? [Yes/No]	Provides More Parks and Green Spaces Benefit? [Yes/No]	Provides Reduced Heat Island Effect Benefit? [Yes/No]	Provides Reduced Flooding Benefit? [Yes/No]	Provides Water Supply Augmentation Benefit? [Yes/No]	Provides Neighborhood Beautification Benefit? [Yes/No]	Provides Job Creation Benefit? [Yes/No]	Provides Benefits Accruing to Disadvantaged Communities? (as identified on CalEnviroScreen)
Argo Drain Sub-Basin Facility	Unincorporated LA County	CD 11	\$52,865,131.00	\$52,865,131.00	Other (non-Safe, Clean Water)	No	Yes	Yes	Yes	Yes	No	No	No
Clean Beaches Initiative	Not Applicable	Not Applicable	\$5,165,638.00	\$5,165,638.00	Other (non-Safe, Clean Water)	Yes	No	No	Yes	Yes	Yes	No	No
Drought Management Plan	Not Applicable	Not Applicable	\$201,100.00	\$201,100.00	Other (non-Safe, Clean Water)	No	No	No	No	Yes	No	No	Yes
Green Alley Master Plan (GAMP)	Not Applicable	Not Applicable	\$510,519.53	\$510,519.53	Other (non-Safe, Clean Water)	No	Yes	Yes	Yes	Yes	Yes	Yes	No
Green Street Standard Plans and Design Guidelines (GSSP&DG)	Not Applicable	Not Applicable	\$504,539.53	\$504,539.53	Other (non-Safe, Clean Water)	No	Yes	Yes	Yes	Yes	Yes	No	No
Green Streets Master Plan (GSMMP)	Not Applicable	Not Applicable	\$2,835,132.53	\$2,835,132.53	Other (non-Safe, Clean Water)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Los Amigos Park	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	Yes	Yes	Yes	Yes	No	No	No
MalibuSmart/TopangaSmart	Malibu	West Basin Municipal Water District	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	No	No	No	No	Yes	No	No	No
Marine Park	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	Yes	No	Yes	Yes	No	No	No
Ocean Park Boulevard Green Street	Not Applicable	Not Applicable	\$4,893,000.00	\$4,893,000.00	Other (non-Safe, Clean Water)	Yes	Yes	Yes	Yes	No	Yes	No	No
Old Oak Road Swales Green Street	Not Applicable	LACFCD, CNRA	\$410,000.00	\$410,000.00	Other (non-Safe, Clean Water)	No	Yes	Yes	Yes	Yes	Yes	Yes	No
Penmar Water Quality Improvement Phase I and Phase II	Not Applicable	SWRCB	\$24,711,226.00	\$24,711,226.00	Other (non-Safe, Clean Water)	No	Yes	Yes	Yes	Yes	Yes	Yes	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Permeable Alley	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	No	No	No
Sandhill Infiltration Basin	Not Applicable	N/A	\$0.00	\$0.00	Other (non-Safe, Clean Water)	Yes	No	Yes	Yes	No	No	No	No
Santa Monica Bay Low Flow Diversion Upgrades, Pkg. 3 Ph 2	Not Applicable	N/A	\$14,194,469.00	\$14,194,469.00	Other (non-Safe, Clean Water)	No	No	No	No	Yes	No	Yes	No
SWIP	Not Applicable	Not Applicable	\$96,000,000.00	\$96,000,000.00	Other (non-Safe, Clean Water)	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Temescal Canyon Park Stormwater Phase I and Phase II	Not Applicable	Los Angeles Department of Rec and Parks	\$18,646,000.00	\$18,646,000.00	Other (non-Safe, Clean Water)	No	Yes	Yes	No	No	No	No	No

Note: Project information contained in this table was compiled based on information provided by the Permittee(s) involved in each project. The Permittee leading each project is identified as the first Permittee listed in the "Permittee(s)" column in Table 1b-part 1.



Appendix B Section 1.3 – Watershed Control Measures Planned and In Progress

Order R4-2021-0105 NPDES Permit No. CAS004004 - Appendix H, Section 1.3 Watershed Control Measures Planned and In Progress requires the completion of Table 1b for watershed control measures planned and in progress completed from December 28, 2012 to the end of this reporting period. Section 1.3a provides a list of additional information to be provided for each watershed control measure planned and in progress. Appendix B of this Semi-Annual Report includes this information in 2 parts to address these requirements. The tables are titled as follows:

- Section 1.3 - Table 1b-part 1: Watershed Control Measures Planned and In Progress
- Section 1.3 - Table 1b-part 2: Additional Information

Section 1.3 - Table 1b-part 1: Watershed Control Measures Planned and In Progress

Project Name	Permittee(s)	Subwatershed	Project Type	Description	Latitude	Longitude	Required Completion Date in WMP	Estimated Completion Date	Estimated Capital Costs [\$]	Estimated Annual O&M Costs [\$]	Funding Source(s)	Project Footprint [Acres]	Drainage Area [Acres]	Projected Storage Capacity in WMP [Acre-feet]	Status
Business Outreach Program	Los Angeles	Not Applicable	Outreach and Conservation Program	Development of outreach materials with business-related best management practices messaging for the Watershed Protection Program’s business inspection program.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Other
Community Events / Booth in a Box Program	Los Angeles	Not Applicable	Outreach and Conservation Program	The Booth In A Box Program makes stormwater pollution prevention public education materials available for distribution to community members for distribution at community events/meetings. During this reporting period, program staff staffed a table and participated at nine community events and made outreach materials available for distribution at 10 community events through the Booth in a Box Program.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Implementation
Enhanced, Weekly Street Sweeping	El Segundo	Not Applicable	Enhanced Street Sweeping	Weekly street sweeping	Not Applicable	Not Applicable	Not Applicable	Not Applicable	\$0.00	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Implementation
Imperial Highway Green Infrastructure Project	Los Angeles	Santa Monica Bay	Green Street, Biofiltration	The Project is a multi-benefit stormwater improvement Project that will capture and treat stormwater runoff from a 19.7-acre drainage area in the Santa Monica Bay Watershed. The Project captures surface flows from 9.2-acres in the City of Los Angeles and 10.5 acres from the City of El Segundo. The Project area is located along Imperial Highway from California Street to Vista del Mar. The primary objective of the Project is to minimize pollutants including metals (zinc, copper, and lead), oils and grease, and trash, which are generated from urbanization and end up in local water bodies.	33.93144747	-118.4250532	Not Applicable	07/29/2028	\$11,648,000.00	\$233,000.00	Safe, Clean Water	0.1	19.70 ac	19.70 ac-ft	Funding
Industrial & Commercial Facilities Program	Santa Monica	Not Applicable	Source Investigation Efforts	Management and inspections of facilities	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Implementation
Mass Media Advertising/Media Relations	Los Angeles	Not Applicable	Outreach and Conservation Program	During this reporting period, the program implemented a series of digital advertising campaigns targeting the following pollutants of concern: bacteria (dog waste), litter, pesticides, paint and cigarette butts. All of the advertising campaigns were bilingual (English/Spanish) and implemented on Facebook and Instagram. Here are the metrics on each of the campaigns: (1) Bacteria (dog waste) - The program implemented two online advertising campaigns. In the Fall 2023, an advertising campaign reached 152,613 unique users and made 290,060 impressions. In the Spring 2024, an advertising campaign reached 166,980 unique users and made 410,057 total impressions; (2) Cigarette butts - The program implemented an advertising campaign in Spring 2024, reaching 133,704 unique users and making 432,012 impressions. (3) Litter - The program implemented an advertising campaign in Spring 2024, reaching 126,665 unique users and making 627,402 impressions. (4) Paint - The program implemented an advertising campaign in Spring 2024, reaching 197,734 unique users and making 512,708 impressions. (5) Pesticides - The program implemented an advertising campaign in Spring 2024, reaching 210,193 unique users and making 486,520 impressions.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Implementation
Municipal Employee Training Program	Los Angeles	Not Applicable	Outreach and Conservation Program	The program has developed six employee training video modules that focus on specific job classifications, their related activities and best management practices to avoid the creation of polluted urban runoff (good housekeeping practices at home, at construction sites; reporting illicit connections and discharges; vehicle maintenance and fueling; storage of chemicals and materials; and, pesticides and fertilizers use and application). The placement of the training modules on the City of LA’s municipal employee training platform (Cornerstone) and then the viewing of the modules by municipal employees is the next step in this activity.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Implementation
Online Outreach Program	Los Angeles	Not Applicable	Outreach and Conservation Program	During this reporting period, the City of Los Angeles utilized various online platforms to distribute public information/educational messaging targeting pollutants of concern, engage with the public and raise public awareness of stormwater program benefits and needs. Methods used include the following: (1) the creation of content for web pages on LA Sanitation and Environment’s website for the Watershed Protection Program (lacitysan.org/watershedprotection) and Safe Clean Water Program (lacitysan.org/safecleanwater), which have 79 and 28 web pages respectively and have experienced 154,363 and 4,844 page views respectively; (2) the creation and distribution of an e-newsletter to approximately 16,000 subscribers quarterly with an average open rate of 36.2% and every e-newsletter issue including an article about a Safe Clean Water Program Project; (3) the creation of content and administration of a Facebook page (13,568 followers; 170 posts that reached 20,182 people), an Instagram feed (1,437 followers; 170 posts that reached 28,141 people), a blog with 36 published articles and a YouTube channel, which houses 48 educational videos and has 212 subscribers; (4) the creation and distribution of targeted e-blasts to gardeners and teachers. One e-blast with pollution prevention messaging targeting pesticides and fertilizers was sent to gardeners (4,172 subscribers with a 33% open rate) in spring 2024 and two e-blasts to teachers with information on available educational materials sent in November 2023 (1,162 subscribers with a 35.6% open rate) and February 2024 (1,159 subscribers with a 37.7% open rate). These activities were performed by the jurisdiction.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Implementation
Pico-Kenter Outfall Trash Mitigation	Santa Monica	Santa Monica Bay	Other (specify)	This project various trash capture facilities at the Pico-Kenter Outfall (end of pipe solution) in order to reduce the amount of trash that is entering its way into the ocean during larger rain events from the Kenter Canyon sub-watershed. The project will include implementation of current and practical industry standards for trash capture, including the implementation of trash separators and outfall nets.	34.00731	-118.4918	Not Applicable	Not Applicable	\$6,000,000.00	\$0.00	Not Applicable	0	120.00 ac	0.00 ac-ft	Pre-Planning
Point of Purchase Program	Los Angeles	Not Applicable	Outreach and Conservation Program	During this reporting period, educational point of purchase educational materials were distributed to 151 automotive retail stores; 155 certified used motor oil collection centers; 60 pet-related retail stores, veterinarians and groomers; 17 home improvement stores and garden centers. The program conducted intercept surveys (97 in English and 97 in Spanish) to measure the efficacy of paint and pesticides/fertilizers outreach materials (e.g. shelf talkers). Intercept survey results indicated that the educational materials were effective in increasing the percentage of residents who were familiar or very familiar with the correct usage of pesticides/fertilizers by 28% and in increasing the percentage of residents who were familiar or very familiar with the correct disposal of unwanted paint by 29%.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Other
Program Management	Santa Monica	Not Applicable	Outreach and Conservation Program	Management of website and public information	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Implementation
Public Education / Collateral Materials	Los Angeles	Not Applicable	Outreach and Conservation Program	The program has various printed outreach materials available for distribution in 13 languages: Armenian, Simplified Chinese, English, Farsi, Hindi, Japanese, Khmer, Korean, Russian, Spanish, Tagalog, Thai, Vietnamese. These materials focus on residential best management practices. Various collateral items (dog waste bag canisters and refills, refrigerator magnets, seed packets, pens, pencils, stickers, children’s activity book, tip cards, car trash bags, reusable canvas bags, t- shirts and book markers), are available and distributed to the general public to educate them about LA’s regional stormwater system and encourage positive behavior change to reduce pollutants in LA’s waterways.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Implementation

Section 1.3 - Table 1b-part 1: Watershed Control Measures Planned and In Progress

Project Name	Permittee(s)	Subwatershed	Project Type	Description	Latitude	Longitude	Required Completion Date in WMP	Estimated Completion Date	Estimated Capital Costs [\$]	Estimated Annual O&M Costs [\$]	Funding Source(s)	Project Footprint [Acres]	Drainage Area [Acres]	Projected Storage Capacity in WMP [Acre-feet]	Status
Public Works Road Maintenance Street Sweeping	Unincorporated LA County	Not Applicable	Enhanced Street Sweeping	street sweeping services	Not Applicable	Not Applicable	Not Applicable	Not Applicable	\$7,371,207.00	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Implementation
Resident Stormwater Behaviors and Attitudes Study	Los Angeles	Not Applicable	Other	<p>During this reporting period, the City of Los Angeles conducted a Resident Stormwater Behaviors and Attitudes Study to (1) Enhance the City’s understanding of public perceptions, beliefs, and attitudes regarding stormwater issues on a local level; (2) Understand the motivators and barriers that drive stormwater-related behaviors; and (3) Identify specific subgroups of the population - defined by stormwater-related psychographic traits (perceptions, beliefs, and attitudes) - that future outreach efforts should focus on. The research was conducted via online and in-person surveys from November 2023 through March 2024. Many aspects of the study (e.g. survey questions, sample size, and approach) were informed by the Los Angeles County Department of Public Works’ 1997 L.A. County Stormwater Segmentation Study. The online survey received a total of 958 responses (53 in Spanish) from City residents. In-person intercept survey efforts from January 13 through March 1, 2024 enhanced accessibility and reach. Intercept surveys were conducted at 9 locations with high foot traffic, yielding 66 additional responses (43 in Spanish). In general, City of Los Angeles residents are concerned about the environment (84%), interested in learning more about the actions they can take to support safe clean water (89%), and willing to change their behaviors (60%) to further reduce stormwater pollution. Since the 1997 county-wide study, current findings indicate an overall reduction in potentially polluting behaviors among residents (very few, if any, participate in such actions). yet some potentially harmful behaviors have become more prevalent, particularly those involving motor oil. This indicates a need to tailor outreach efforts to specific subgroups, or audiences, of the population whose behavior changes, which they’re already receptive to, could yield a significant reduction in local stormwater pollution and foster behavioral norms. When characterizing the population based on psychographic traits, 7 audience groups (or personae) emerge: Fix-it Foul-ups, Caring community members, Preoccupied Polluters, Super-polluters, Homebodies, Non-polluters, and Unwilling. Two of these groups are the most promising for public education and outreach based on their prevalence within the population, their willingness to change, and the anticipated benefits of effectively reaching them: 1. Fix-it Foul-ups. Likely-to-pollute individuals who are very willing to change and highly interested in learning more. Like all groups with higher pollution levels (weighted pollution impact of 20%), they tend to overestimate how much they know, yet are relatively unlikely to have received information about stormwater pollution prevention. 2. Pre-occupied Polluters. The weighted pollution impact of this group is 45%, reflecting both the size of the group and their relatively high propensity to pollute. Their willingness to change is moderate, though lower than Fix-it foul-ups or Caring community members. They are only slightly interested in learning more and tend to slightly overestimate their knowledge of this issue, posing unique messaging challenges. A third group stands out as a particularly powerful ally when persuading Fix-it Foul-ups, Pre-occupied Polluters, and other groups who may engage in the same activities: 3. Caring Community Members. Residents with low contributions to pollution (weighted pollution impact of 3%). yet very willing to change. When combined with Non-polluters, they constitute nearly half of all residents with environmentally conscious sentiments. Thus, they may play a key role in establishing norms around pro-environmental behaviors and attitudes in relation to specific activities that they share with those in other groups. However, they report a relatively low level of knowledge, so helping them see themselves as knowledgeable in these areas, such as car, home, and yard maintenance, may be necessary. The fourth and fifth groups, Super-Polluters and Homebodies may warrant further study. 4. Super-polluters. A small group that engages in potentially polluting behaviors at nearly twice the rate of the next highest polluting audience groups (on average) with a weighted pollution impact of 23% despite its size. While limited, data from these residents indicates they are more receptive to learning more on the topic than other groups. 5. Homebodies. Contributing very little to overall pollution (weighted pollution impact of 3%), Homebodies also have a moderate willingness to change but their interest in learning more is not high. However, some Homebody residents may be more receptive to new information and willing to consider changing specific behaviors. Thus, effective messaging to Homebodies should focus on specific pollution targets. The sixth and seventh audience groups are not thought to warrant targeted messaging. 6. Non-polluters. Residents who report engaging in none of the targeted polluting behaviors (31-33%) is significantly larger than in the 1997 L.A. County Segmentation Study (20%). With Caring Neighbors, this population has an important role in maintaining pro-environmental norms, but messaging resources would be better allocated to those whose behaviors are impacting the water than to Non-polluters.</p> <p>7. Unwilling. This small population (4-5% of total) indicates a very low willingness to change, but tends to pollute less than heavy polluting groups. Given their weighted pollution impact of around 6% and disinterest in learning more, messaging resources would be better allocated towards other groups. When considering how to orient Program messaging to each audience, all groups find the City of Los Angeles to be the most trustworthy source of stormwater information. Caring Community members, Fix-it Foul-ups, and Super-polluters are family-oriented, care about how their neighborhoods look, are health-conscious, and are concerned about their environment. They are eager to learn, and messages that speak to their desire to “do the right thing” are likely to resonate. Many of the same messages are likely to persuade all three audiences. Pre-occupied Polluters may respond best to messages that frame pro-environmental behaviors as compatible with their individual lives. They have other things on their mind and do not express the strong family and neighborhood orientations of the Caring Community members, Fix-it Foul Ups, and Super-polluters. They care most about their health, animals, the outdoors, and the environment, but demonstrate less enthusiasm than other groups.</p>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other	

Section 1.3 - Table 1b-part 1: Watershed Control Measures Planned and In Progress

Project Name	Permittee(s)	Subwatershed	Project Type	Description	Latitude	Longitude	Required Completion Date in WMP	Estimated Completion Date	Estimated Capital Costs [\$]	Estimated Annual O&M Costs [\$]	Funding Source(s)	Project Footprint [Acres]	Drainage Area [Acres]	Projected Storage Capacity in WMP [Acre-feet]	Status
School Education Program	Los Angeles	Not Applicable	Outreach and Conservation Program	During this reporting period, the City provided educational programming related to watersheds and stormwater pollution prevention to LA-area students visiting the Environmental Learning Center (ELC) at Hyperion Water Reclamation Plant and the Discovery Cube Los Angeles on field trips. A total of 304 LA-area students visited the ELC. The total number of students visiting the Discovery Cube on field trips was 55,876. The number of students educated through the Discovery Cube LA's classroom education programs was 7,100. LA Sanitation and Environment sponsored the 2024 Kids Ocean Day at Dockweiler Beach in May 2024 - an annual beach clean-up and aerial art event hosted by the non-profit Malibu Foundation for Environmental Education and which typically has approximately 4,000 participating elementary students. LA Sanitation and Environment's sponsorship of \$10,000 provided for school buses to transport LA-area students to Kids Ocean Day. The City also made educational materials (activity books, stickers, posters, pens and pencils) available to teachers in the Los Angeles area. Two e-blasts were sent out to teachers informing them about the availability of educational materials for their classrooms. In November, an e-blast was sent to 1,163 teachers with a 35.6% open rate. In February, a second e-blast was sent to 1,157 teachers with a 37.7% open rate. The program distributed educational materials to four LA-area schools during this reporting period.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Implementation
Stormwater Diversion - Kenter Canyon	Santa Monica	Santa Monica Bay	Regional Treatment Facility	The Memorial Park site is identified as a potential stormwater harvesting site in the Watershed Management Plan (WMP) for the Central Santa Monica Bay Jurisdictional Groups 2 & 3 Watershed. An underground storm water capture and reuse and/or infiltration system, envisioned to have a maximum capacity of approximately 3-million gallons, with storm drain diversion structures and pumping systems. These features would harvest stormwater and urban runoff through the existing storm drainage system from approximately 135 acres of drainage area along the Pico-Kenter sub-watershed within the City of Santa Monica city limits.	34.01012712	-118.4898227	Not Applicable	Not Applicable	\$25,000,000.00	\$0.00	Not Applicable	0.00 ac	135.00 ac	10.00 ac-ft	Pre-Planning
Street Sweeping	Santa Monica	Not Applicable	Enhanced Street Sweeping	Biweekly Street Sweeping	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Implementation
Urban Runoff Mitigation	Santa Monica	Not Applicable	Expanded LID Ordinance	Management and inspections of private BMP	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other
Water Audits	Unincorporated LA County	Not Applicable	Incentive Program	Indoor & outdoor water review and leak check of fixtures, and irrigation system for all Districts	Not Applicable	Not Applicable	Not Applicable	06/05/2025	\$124,500.00	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Other
Water Conservation Outreach Program	Unincorporated LA County	Not Applicable	Outreach and Conservation Program	To implement a School Education Program (District 29 & 40) and a Social and other media Campaign for all Districts	Not Applicable	Not Applicable	Not Applicable	Not Applicable	\$272,400.00	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Other
Water Saving Devices Program	Unincorporated LA County	Not Applicable	Incentive Program	A rebate for high-efficiency Water-Saving Devices for all Districts.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	\$300,000.00	Not Applicable	Municipal General Fund	Not Applicable	Not Applicable	Not Applicable	Other
Summary of New and Redevelopment Projects	Santa Monica	Santa Monica Bay	New and Redevelopment	This line item is intended to provide a summary of the City of Santa Monica's new and redevelopment projects. The values shown here were developed by summing the respective values of 1 new and redevelopment projects in the area covered by this subwatershed and jurisdiction.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	0.11 ac	0.05 ac	Not Applicable	Not Applicable

Note: Project information contained in this table was compiled based on information provided by the Permittee(s) involved in each project. The Permittee leading each project is identified as the first Permittee listed in the "Permittee(s)" column.

Section 1.3 - Table 1b-part 2: Additional Information

Project Name	Permittee(s) Collaborated with	Non-Permittee(s) Collaborated with	Funding Sought [\$]	Funding Obtained [\$]	Technical Assistance Received	Provides Clean Streets Benefit (e.g., street sweeping, litter abatement, etc.) ? [Yes/No]	Provides More Parks and Green Spaces Benefit? [Yes/No]	Provides Reduced Heat Island Effect Benefit? [Yes/No]	Provides Reduced Flooding Benefit? [Yes/No]	Provides Water Supply Augmentation Benefit? [Yes/No]	Provides Neighborhood Beautification Benefit? [Yes/No]	Provides Job Creation Benefit? [Yes/No]	Provides Benefits Accruing to Disadvantaged Communities? (as identified on CalEnviroScreen)
Business Outreach Program	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	No	No	No	No	No
Community Events / Booth in a Box Program	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	No	No	No	No	No
Enhanced, Weekly Street Sweeping	Not Applicable	Not Applicable	\$0.00	\$0.00	Not Applicable	Yes	No	No	Yes	No	Yes	Yes	No
Imperial Highway Green Infrastructure Project	Not Applicable	N/A	\$11,648,000.00	\$11,648,000.00	Safe, Clean Water	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Industrial & Commercial Facilities Program	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	No	No	No	No	No	No	No	No
Mass Media Advertising/Media Relations	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	No	No	No	No	No
Municipal Employee Training Program	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	No	No	No	No	No
Online Outreach Program	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	No	No	No	No	No
Pico-Kenter Outfall Trash Mitigation	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	Yes	No	Yes	No	No	No	No
Point of Purchase Program	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	No	No	No	No	No
Program Management	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	No	No	No	No	No	No	No	No
Public Education / Collateral Materials	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	No	No	No	No	No
Public Works Road Maintenance Street	Not Applicable	Not Applicable	\$7,371,207.00	\$7,371,207.00	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	Yes	Yes	No
Resident Stormwater Behaviors and Attitudes	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	No	No	No	No	No
School Education Program	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	No	No	No	No	No
Stormwater Diversion - Kenter Canyon	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	Yes	No	Yes	Yes	No	No	Yes
Street Sweeping	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	No	No	No	No	No
Urban Runoff Mitigation	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	No	No	No	No	No	No	No	No
Water Audits	Not Applicable	Not Applicable	\$124,500.00	\$124,500.00	Other (non-Safe, Clean Water)	No	No	No	No	Yes	No	No	Yes
Water Conservation Outreach Program	Not Applicable	Not Applicable	\$272,400.00	\$272,400.00	Other (non-Safe, Clean Water)	No	No	No	No	Yes	No	No	Yes
Water Saving Devices Program	Not Applicable	Not Applicable	\$300,000.00	\$300,000.00	Other (non-Safe, Clean Water)	No	No	No	No	Yes	Yes	No	No

Note: Project information contained in this table was compiled based on information provided by the Permittee(s) involved in each project. The Permittee leading each project is identified as the first Permittee listed in the "Permittee(s)" column in Table 1b-part 1.



Appendix C Section 1.4 – Water Body Pollutant Combination (WBPC) Compliance

Order R4-2021-0105 NPDES Permit No. CAS004004 - Appendix H, Section 1.4 Water Body Pollutant Combination (WBPC) Compliance requires the completion of Table 1c for all WBPCs identified in the Watershed Management Program. The table is titled as follows:

- Section 1.4 – Table 1c: Water Body Pollutant Combination (WBPC) Compliance

1.4 Water Body Pollutant Combination (WBPC) Compliance. Complete Table 1c on an Excel spreadsheet for all WBPCs identified in the Watershed Management Program. If information is not available for a particular field, the field should indicate "Not Applicable" (N/A) [Order – X].

Table 1c: WBPC Compliance^[1]

WBPC Category (1, 2, or 3)	Pollutant	Receiving Water	Weather Condition (Wet, Dry, N/A)	Interim or Final	Deadline	Deadline Met? (Yes, No, N/A)	Method of Compliance ^[2]
Category 1	Bacteria	SMB Beaches	Wet	Interim	Jul 2023 - 50% Milestone	Yes	Receiving Water Monitoring
Category 1	Bacteria	SMB Beaches	Dry	Final	Jul 2006/2009 - 100% Milestone	Yes	No direct or indirect discharge from MS4 to the applicable receiving water ^[3]
Category 1	Debris	SMB Onshore / Nearshore	Wet	Final	Mar 2020 - 100% Milestone	Yes	^[4]
Category 1	DDTs	Santa Monica Bay	Dry/Wet	Final	Sep 2021 - 100% Milestone	N/A	^[5]
Category 1	PCBs	Santa Monica Bay	Dry/Wet	Final	Sep 2021 - 100% Milestone	N/A	^[5]

[1] WBPCs identified in the Updated WMP submitted to the Los Angeles Regional Water Quality Control Board in April 2023 with deadlines that occurred during or prior to the end of the Reporting Period are presented within this table. Results for WBPCs with deadlines that have not yet passed will be presented in future submittals when deadlines for those WBPCs occur during the covered Reporting Period and the subsequent submittals after when deadlines for those WBPCs occur.

[2] Choose between the following four options: (1) outfall monitoring, (2) receiving water monitoring, (3) no direct or indirect discharge from MS4 to the applicable receiving water, or (4) full compliance of an approved WMP. If selecting option (4), reference applicable projects in Table 1a and 1b.

[3] To comply with the final QBELs and RWLs for dry weather, Low Flow Diversions have been installed at nearly all point zero compliance monitoring stations to eliminate dry weather discharges from the MS4.

[4] For Trash/Debris WBPCs, compliance was determined as outlined in Part X.C of the MS4 Permit and reported in each individual Permittee's response to the Trash TMDL Reporting Form (Attachment I of the 2021 Permit) which is submitted in December of each year.

[5] Evaluation of this milestone requires consideration of data collected during the entire reporting year (July 1 to June 30). This milestone will be evaluated following the completion of the reporting year and the results of that evaluation will be reported in the WMP Progress Report Form submitted no later than December 15, 2025.



Appendix D Section 1.5 – Additional Information

This progress report is available for download at www.lastormh2o.org.



Appendix E Legal Authority and Certification

**WATERSHED MANAGEMENT PROGRAM PROGRESS REPORT
AND
MONITORING RESULTS**

July 1, 2024 – December 31, 2024

FOR

**ORDER NO. R4-2021-0105
NPDES PERMIT NO. CAS004004**

City Of El Segundo

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of either a principal executive officer, ranking elected official, or by a duly authorized representative of a principal executive officer or ranking elected official. A person is a duly authorized representative only if:

- a. The authorization is made in writing by a principal executive officer or ranking elected official.
- b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
- c. The written authorization is submitted to the Regional Board.

If an authorization of a duly authorized representative is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization will be submitted to the Regional Board prior to or together with any reports, information, or applications, to be signed by an authorized representative.

Signature:



Name: Cheryl Ebert

Title: City Engineer

Date: 5/15/2025

**WATERSHED MANAGEMENT PROGRAM PROGRESS REPORT
JULY 1, 2024 – DECEMBER 31, 2024
AND
SEMI-ANNUAL DATA PACKAGE
FISCAL YEAR 2024-2025
FOR
ORDER NO. R4-2021-0105
NPDES PERMIT NO. CAS004004**

Los Angeles County Flood Control District

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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Signature: 

Title: Principal Engineer

Date: 4/2/2025

**WATERSHED MANAGEMENT PROGRAM PROGRESS REPORT
AND
MONITORING RESULTS**

July 1, 2024 – December 31, 2024

FOR

**ORDER NO. R4-2021-0105
NPDES PERMIT NO. CAS004004**

City of Los Angeles

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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Signature: 

Name: Barbara Romero

Title: Director and General Manager
LA Sanitation and Environment

Date: May 27, 2025

**WATERSHED MANAGEMENT PROGRAM PROGRESS REPORT
AND
MONITORING RESULTS**

July 1, 2024 – December 31, 2024

FOR

**ORDER NO. R4-2021-0105
NPDES PERMIT NO. CAS004004**

City of Santa Monica

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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Signature:



Name:

Alex Nazarchuk, PE

Title:

City Engineer

Date:

5/20/2025

**WATERSHED MANAGEMENT PROGRAM PROGRESS REPORT
JULY 1, 2024 – DECEMBER 31, 2024
AND
SEMI-ANNUAL DATA PACKAGE
FISCAL YEAR 2024-2025
FOR
ORDER NO. R4-2021-0105
NPDES PERMIT NO. CAS004004**

Unincorporated County of Los Angeles

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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Signature: 

Title: Assistant Deputy Director

Date: 4/2/2025