

Dominguez Channel 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 CARSON
THE CITY OF EL SEGUNDO,
THE CITY OF HAWTHORNE,
THE CITY OF INGLEWOOD,
THE CITY OF LAWDALE,
THE CITY OF LOMITA
LOS ANGELES COUNTY
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	Dominguez Channel Watershed Management Group
Participating Permittee(s)	City of Los Angeles, Los Angeles County, Los Angeles County Flood Control District, and the cities of Carson, El Segundo, Hawthorne, Inglewood, Lawndale, and Lomita
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 20, 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 carry only 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, the stormwater in the MS4s drains directly to the rivers, creeks, lakes, and ocean unless it is captured 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

Dominguez Channel Watershed Management Group (Group) is made up of the following cities and agencies: Carson, El Segundo, Hawthorne, Inglewood, Lawndale, Lomita, Los Angeles, the County of Los Angeles, and the Los Angeles County Flood Control District. The Group has 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. All agencies in our Group have completed projects and are continuing to find ways to work together and individually on new project opportunities. In addition, some agencies have also come together to develop specific projects in partnership with one another, or in partnership with outside agencies as listed below.

Group Members with Partner Projects

- City of El Segundo
- City of Hawthorne
- City of Lawndale
- City of Los Angeles
- County of Los Angeles

Other Partnering Agencies

- Manhattan Beach
- Redondo Beach
- Los Angeles County Sanitation Districts
- Audubon Society
- California Native Plant Society
- Kaiser Foundation

The Dominguez Channel Watershed 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 47 projects that are completed and/or are currently underway in the Dominguez Channel 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 18 projects (woohoo!) and we are working on 29 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.

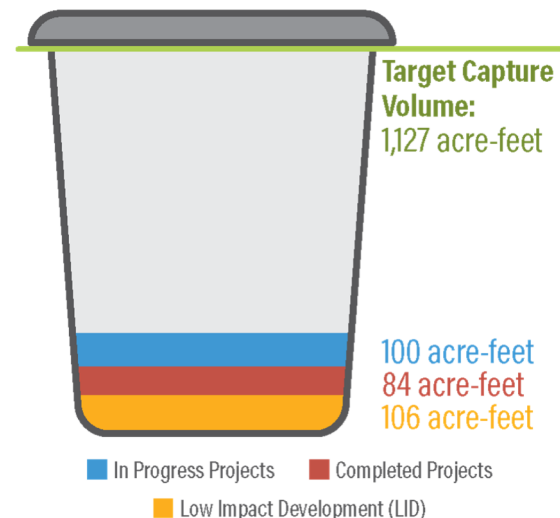


Figure 2-1 Stormwater Capture Volume

Eighteen 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, three projects received or requested funding from the Safe, Clean Water Program (Measure W), while others received funding from other sources including the following:

Funding sources for Dominguez Channel Watershed projects

- | | |
|---|-----------------------------|
| ■ Safe, Clean Water Program (Measure W) | ■ Proposition O |
| ■ State Proposition 84 | ■ Proposition K |
| ■ Caltrans | ■ State Coastal Conservancy |
| ■ California State Proposition 1 | ■ Municipal general funds |

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

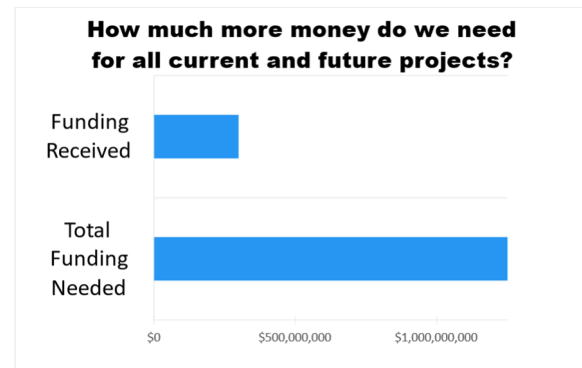


Figure 2-3 Required vs. Current Funding

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 47 Completed and In-Progress Projects Provide Community Benefits?

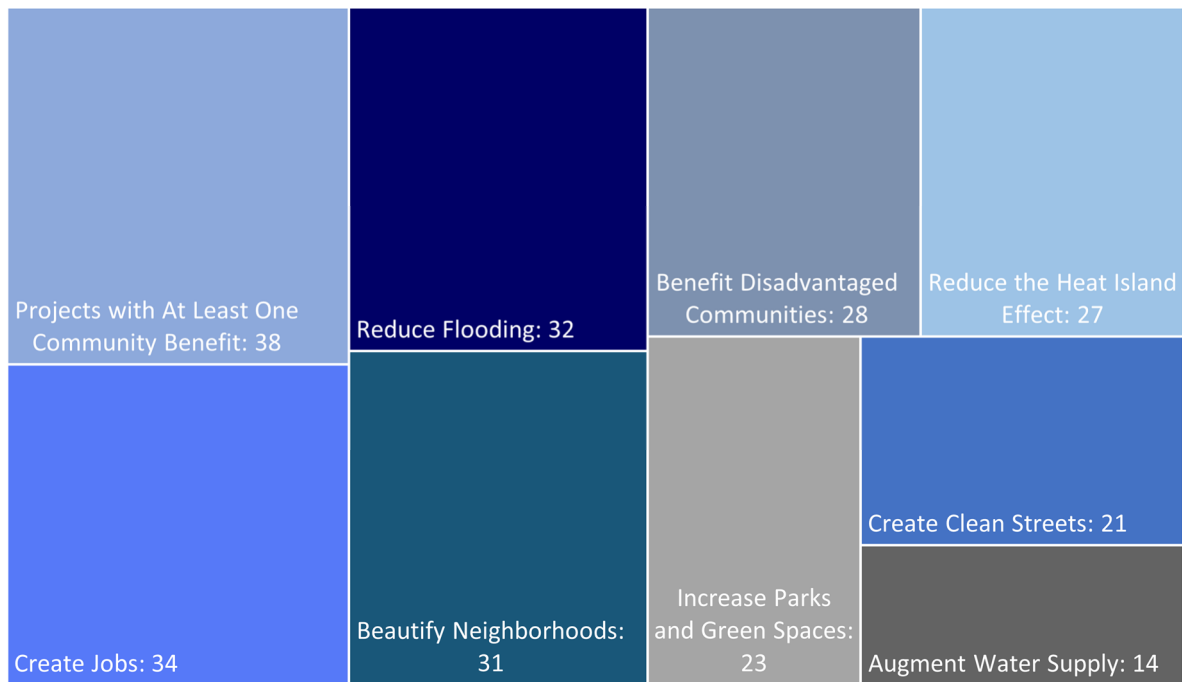


Figure 2-4 Community Benefit Breakdown for Completed and In-Progress Projects

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 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

Table 1a: 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 Addressed2 [Acre-feet]
Center Park	Not Applicable	Inglewood	Dominguez Channel	LID Retrofit, Bioretention	(1) Bioretention	33.934685	-118.336713	Not Applicable	1/1/2019	\$1,000,000.00	\$31,500.00	Not Applicable	0.01 ac	0.06 ac	Not Applicable	0.0047 ac-ft	0.21 ac-ft
Century Blvd Ph 1& 2	Not Applicable	Inglewood	Dominguez Channel	Infiltration Well	(3) Drywells	33.945394	-118.364362	Not Applicable	1/1/2020	\$1,000,000.00	\$20,000.00	Not Applicable	0.0009 ac	7.78 ac	Not Applicable	1.96 ac-ft	30.88 ac-ft
El Segundo Blvd Improvement Project	Not Applicable	Hawthorne	Dominguez Channel	Green Street, Biofiltration	(2) Tree wells	33.916438	-118.339616	Not Applicable	6/30/2019	\$6,500,000.00	\$30,000.00	Not Applicable	0.0015 ac	2.20 ac	Not Applicable	0.02 ac-ft	1.76 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
Hawthorne Blvd Regional Infiltration Chamber Project	Not Applicable	Hawthorne	Dominguez Channel	Green Street, Bioretention	(1) Subsurface infiltration system	33.918306	-118.352614	Not Applicable	9/30/2016	\$1,450,000.00	\$105,000.00	Not Applicable	0.34 ac	17.60 ac	Not Applicable	0.60 ac-ft	73.14 ac-ft
Hawthorne Blvd Regional Street Project	Not Applicable	Hawthorne	Dominguez Channel	Green Street, Bioretention	(1) Subsurface infiltration system	33.918306	-118.352614	Not Applicable	12/31/2014	\$1,550,000.00	\$128,000.00	Not Applicable	0.50 ac	60.00 ac	Not Applicable	1.01 ac-ft	173.71 ac-ft
Inglewood Transit Facility	Not Applicable	Inglewood	Dominguez Channel	LID Retrofit, Bioretention	(1) Subsurface infiltration system; (1) Bioretention	33.951821	-118.342747	Not Applicable	11/18/2020	\$1,000,000.00	\$35,000.00	Not Applicable	0.03 ac	3.84 ac	Not Applicable	0.31 ac-ft	8.55 ac-ft
Local Street Improvement Project 2022	Not Applicable	Hawthorne	Dominguez Channel	Green Street, Biofiltration	Bioswale Gallery	33.89844	-118.343729	Not Applicable	11/30/2022	\$38,000.00	\$10,935.00	Not Applicable	0.01 ac	1.70 ac	Not Applicable	0.03 ac-ft	1.36 ac-ft
Machado Lake - Phase I (Wilmington Drain)	Wilmington Drain	Los Angeles, Unincorporated LA County	Machado Lake	Regional Treatment Facility	The Wilmington Drain Multi-use Project will improve water quality, enhance habitat, and create a new passive open space (Harbor City Greenway) within a Flood Control facility just upstream of Machado Lake. The Project includes excavation and re-grading of the channel to 1977 flood capacity; placement of access ramps into the channel for maintenance activities; placement of reinforced material for bank stabilization on the outer channel banks and the banks of the existing riparian habitat island in the channel; removal of non-native vegetation and restoration of native southern willow scrub and other habitat within and adjacent to the channel; installation of a trash net system at the upper end of the drainage including a concrete apron; creation of a nature greenway, including the construction of a new parking lot fencing and lighting. Channel excavating and grading will result in removal of all material to a depth of 1.5 feet and will remove 30,000 cubic yards of material.	33.795298	-118.288506	Not Applicable	8/25/2015	\$25,093,711.00	\$14,431,288.00	City of LA Proposition O	5.00 ac	12,152.00 ac	5.99 ac-ft	5.00 ac-ft	628.23 ac-ft
Machado Lake Ecosystem Rehabilitation - Phase 2	Not Applicable	Los Angeles, Unincorporated LA County	Machado Lake	Regional Treatment Facility	The overall goal of this project, located in CD 15 is to improve the water quality conditions, visual aesthetics, and biological diversity of the local ecosystem in order to attain and sustain a viable wildlife habitat, and create recreational and educational opportunities while meeting Total Maximum Daily Load (TMDL) requirements and other water quality targets. This project includes the rehabilitation of the 40-acre Machado Lake and the surrounding 290-acre Ken Malloy Harbor Regional Park to improve water quality and enhance the surrounding park and natural habitat. Specific improvements include dredging of contaminated sediment, treatment of storm water inflows, installation of nutrient removal wetlands and treatment systems, and an oxygenation system to improve water quality in the lake. Surrounding the lake, the native habitat will be restored, landscaping will be planted, and new pathways, bridges, and fishing piers will provide active and passive recreational amenities to the community. The project was completed in November 2017.	33.785817	-118.293954	Not Applicable	6/1/2017	\$111,900,000.00	\$50,906,836.00	City of LA Proposition O, Other State Program, Other Municipal Program	290.00 ac	14,347.00 ac	50.99 ac-ft	50.00 ac-ft	1,448.87 ac-ft
Narbonne Vacant Lot Activation	Not Applicable	Lomita	Wilmington Drain	LID Retrofit, Bioretention	Infiltration trench	33.804205	-118.320344	Not Applicable	6/30/2021	\$328,903.00	\$20,006.40	Not Applicable	0.0049 ac	0.16 ac	Not Applicable	0.01 ac-ft	0.17 ac-ft
NE Hawthorne Mobility Project	Not Applicable	Hawthorne	Dominguez Channel	Green Street, Bioretention	Bioswales	33.917108	-118.349325	Not Applicable	9/24/2024	\$5,639,606.00	\$0.00	Other State Program	0.09 ac	41.00 ac	Not Applicable	0.24 ac-ft	0.00 ac-ft
Pump Station #18 Infiltration Basin	Not Applicable	El Segundo	Dominguez Channel	Regional Infiltration Gallery	Located in the Dominguez Channel watershed, this infiltration basin collects runoff from 436 acres of tributary area. The basin is sized to capture and retain more than the SWQDv from the tributary area, but generally operates to capture the 85th percentile design storm via infiltration, and pumps once or twice per year during larger storm events.	33.908226	-118.390396	12/31/2019	12/19/2019	\$0.00	\$0.00	Municipal General Fund	7.42 ac	436.00 ac	104.00 ac-ft	24.40 ac-ft	1,393.87 ac-ft
Rogers/Anderson Park Stormwater Retention Structure and Dry Well System	N/A	Lawndale	Dominguez Channel	Regional Infiltration Gallery	Stormwater Infiltration Structure and Dry Well System	33.88983	-118.34576	8/2/2014	8/2/2014	\$0.00	\$0.00	Municipal General Fund	0.09 ac	1.20 ac	0.00 ac-ft	0.00 ac-ft	0.00 ac-ft
Rudolph Park Stormwater Biofiltration Features	N/A	Lawndale	Dominguez Channel	LID Retrofit, Biofiltration	Stormwater Biofiltration Features	33.8976	-118.35076	5/2/2016	5/2/2016	\$0.00	\$0.00	Municipal General Fund	0.00 ac	0.49 ac	0.00 ac-ft	0.00 ac-ft	0.00 ac-ft
Vermont Avenue Stormwater Capture and Green Street Phase 2	Not Applicable	Los Angeles	Los Angeles Harbor	Green Street, Biofiltration	The Project included the installation of various stormwater management techniques such as curb-side infiltration trenches, porous pavements, and one hydrodynamic separator. The project targeted an area of 31 acres in the vicinity of Vermont Avenue and Florence Avenue.	33.747535	-118.292214	Not Applicable	2/26/2021	\$3,000,000.00	\$363,082.00	City of LA Proposition O, Other State Program, Other Municipal Program	0.74 ac	31.00 ac	10.92 ac-ft	0.12 ac-ft	24.54 ac-ft
Summary of New and Redevelopment Projects	Not Applicable	Carson	Dominguez Channel Estuary	New and Redevelopment	This line item is intended to provide a summary of the City of Carson's new and redevelopment projects. The values shown here were developed by summing the respective values of 9 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	33.91 ac	16.59 ac	Not Applicable	5.00 ac-ft	29.11 ac-ft

Table 1a: 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 Addressed2 [Acre-feet]
Summary of New and Redevelopment Projects	Not Applicable	El Segundo	Dominguez Channel	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 37 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	117.39 ac	117.39 ac	Not Applicable	6.06 ac-ft	514.74 ac-ft
Summary of New and Redevelopment Projects	Not Applicable	Hawthorne	Dominguez Channel	New and Redevelopment	This line item is intended to provide a summary of the City of Hawthorne's new and redevelopment projects. The values shown here were developed by summing the respective values of 44 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	6.06 ac	47.45 ac	Not Applicable	5.21 ac-ft	133.11 ac-ft
Summary of New and Redevelopment Projects	Not Applicable	Inglewood	Dominguez Channel	New and Redevelopment	This line item is intended to provide a summary of the City of Inglewood's new and redevelopment projects. The values shown here were developed by summing the respective values of 25 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	6.22 ac	322.64 ac	Not Applicable	25.10 ac-ft	824.93 ac-ft
Summary of New and Redevelopment Projects	Not Applicable	Lawndale	Dominguez Channel	New and Redevelopment	This line item is intended to provide a summary of the City of Lawndale's new and redevelopment projects. The values shown here were developed by summing the respective values of 2 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	2.40 ac	2.00 ac	Not Applicable	0.20 ac-ft	1.78 ac-ft
Summary of New and Redevelopment Projects	Not Applicable	Lomita	Machado Lake, Wilmington Drain	New and Redevelopment	This line item is intended to provide a summary of the City of Lomita's new and redevelopment projects. The values shown here were developed by summing the respective values of 10 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	0.18 ac	7.11 ac	Not Applicable	0.43 ac	6.57 ac-ft
Summary of New and Redevelopment Projects	Not Applicable	Los Angeles	Dominguez Channel, Dominguez Channel Estuary, Los Angeles Harbor, Machado Lake, Wilmington Drain	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 519 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	301.46 ac	301.46 ac	Not Applicable	26.50 ac-ft	237.09 ac-ft
Summary of New and Redevelopment Projects	Not Applicable	Unincorporated LA County	Dominguez Channel, Dominguez Channel Estuary, Los Angeles Harbor, Wilmington Drain	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 40 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	73.12 ac	69.18 ac	Not Applicable	4.60 ac-ft	176.88 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 in Table 1a-part 1.

Section 1.2 - Table 1a-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)
Center Park	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Century Blvd Ph 1& 2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Yes	No	No	Yes	No	No	Yes	Yes
El Segundo Blvd Improvement Project	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Yes	Yes	Yes	Yes	No	Yes	Yes	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 (GSMP)	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
Hawthorne Blvd Regional Infiltration Chamber Project	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	Yes	No	No	Yes	Yes
Hawthorne Blvd Regional Street Project	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	Yes	No	No	Yes	Yes
Inglewood Transit Facility	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Local Street Improvement Project 2022	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Machado Lake - Phase I (Wilmington Drain)	Unincorporated LA County	Audobon, CNPS, Kaiser Foundation, others	\$25,093,711.00	\$25,093,711.00	Other (non-Safe, Clean Water)	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Machado Lake Ecosystem Rehabilitation - Phase 2	Unincorporated LA County	Audobon, CNPS, Kaiser Foundation, others	\$94,657,563.00	\$94,657,563.00	Other (non-Safe, Clean Water)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Narbonne Vacant Lot Activation	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Yes	Yes	Yes	Yes	No	Yes	Yes	No
NE Hawthorne Mobility Project	Not Applicable	Not Applicable	Not Applicable	\$3,761,705.00	Not Applicable	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Pump Station #18 Infiltration Basin	Not Applicable	N/A	\$0.00	\$0.00	Other (non-Safe, Clean Water)	Yes	No	Yes	Yes	No	No	No	No
Rogers/Anderson Park Stormwater Retention Structure and Dry Well System	Not Applicable	None	\$0.00	\$0.00	Other (non-Safe, Clean Water)	No	No	No	Yes	Yes	No	No	Yes
Rudolph Park Stormwater Biofiltration Features	Not Applicable	None	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vermont Avenue Stormwater Capture and Green Street Phase 2	Not Applicable	Metro, SWRCB	\$3,000,000.00	\$3,000,000.00	Other (non-Safe, Clean Water)	No	Yes	Yes	No	No	Yes	No	Yes

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 1a-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
Alondra Park Multi-Benefit Stormwater Capture Project	Unincorporated LA County, Lawndale, Manhattan Beach, Redondo Beach, El Segundo, Hawthorne	Dominguez Channel	Regional Treatment Facility	Project will provide active recreation and enhance water quality within the watershed. Above ground features will include bioswales, permeable pavement, and native and drought tolerant plants. Storage tanks below ground will collect and discharge treated water into the storm drain with a portion of the captured flows being diverted into the sewer system for treatment at the local treatment plant.	33.887073	-118.343204	12/01/2026	05/28/2026	\$70,332,000.00	\$300,000.00	CW Regional Program, Caltrans, State Prop 1, Safe Clean Water Municipal Program (County Fund), net County Contribution and Partner Agencies Contribution	15.20 ac	4,944.91 ac	44.00 ac-ft	Construction
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
Calas Park Supplemental Environmental Project	Carson	Dominguez Channel Estuary	Other (specify)	Not Applicable	33.82745587	-118.2567257	Not Applicable	Not Applicable	Not Applicable	\$50,000.00	Not Applicable	1.00 ac	62.70 ac	2.90 ac-ft	Design
Carriage Crest Park	Carson	Wilmington Drain	Diversion to Sanitary Sewer	Compliance Project - Stormwater chambers under baseball field to divert stormwater into LA County Sanitation District's Regional & Water Pollution Control Plant	33.808243	-118.284044	12/31/2020	06/30/2025	\$22,779,106.00	\$415,000.00	Safe, Clean Water, CalTrans, Other Municipal Program	1.50 ac	1,146.00 ac	13.50 ac-ft	Post-Construction
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
Darby Park Multi-Benefit Project	Inglewood	Dominguez Channel	Regional Infiltration Gallery	Subsurface infiltration system	33.9532	-118.3296	Not Applicable	Not Applicable	Not Applicable	\$50,000.00	Not Applicable	0.266299357	72.00 ac	Not Applicable	Planning
Downtown Lomita Multi-Benefit Stormwater Project	Lomita	Wilmington Drain	Infiltration Well	Drywells	33.8033	-118.3197	Not Applicable	12/30/2025	\$8,400,000.00	\$50,000.00	Not Applicable	0.2	110.00 ac	Not Applicable	Design
Enhanced Street Sweeping	Hawthorne	Not Applicable	Enhanced Street Sweeping	The City implements a frequency of sweeping higher than that required by the Municipal NPDES Permit. The City is swept weekly using regenerative sweepers.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Implementation
Enhanced Street Sweeping with Vacuum Sweepers	Lomita	Not Applicable	Enhanced Street Sweeping	The City implements a frequency of sweeping that is higher than that required by the Municipal NPDES Permit. The City is swept weekly with regenerative sweepers.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	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
Gardena and Main Tree Wells	Carson	Dominguez Channel Estuary	Green Street, Biofiltration	Not Applicable	33.83402844	-118.278561	Not Applicable	Not Applicable	\$338,345.00	\$20,000.00	Safe, Clean Water	1	154.40 ac	Not Applicable	Design
Lawndale Southern Revitalization Project	Lawndale	Dominguez Channel	Infiltration Well	Stormwater Infiltration Well System	33.87475	-118.35272	Not Applicable	Not Applicable	\$5,500,000.00	\$75,000.00	Safe, Clean Water	0.00 ac	64.00 ac	3.10 ac-ft	Pre-Planning
Maintenance Program For Nonadvertising Bus Stop Amenities - South County	Unincorporated LA County	Not Applicable	Other	Trash receptacle maintenance and trash collections	Not Applicable	Not Applicable	Not Applicable	Not Applicable	\$294,585.00	Not Applicable	Other Municipal Program	Not Applicable	Not Applicable	Not Applicable	Other
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
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
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 verywilling 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. 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. 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. 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	Other		
School Education Program	Los Angeles	Not Applicable	Outreach and Conservation Program	<p>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.</p>	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
Stevenson Park Stormwater Capture Project	Carson	Dominguez Channel Estuary	Diversion to Sanitary Sewer	Not Applicable	33.871962	-118.257894	Not Applicable	Not Applicable	\$10,347,841.00	\$50,000.00	Safe, Clean Water	1.00 ac	188.53 ac	Not Applicable	Planning
Stormwater Facilities Master and Implementation Plan	Carson	Not Applicable	Other	Master plan to identify potential capital improvement projects and other non-structural projects.	Not Applicable	Not Applicable	Not Applicable	12/31/2025	\$1,200,000.00	Not Applicable	Safe, Clean Water	Not Applicable	Not Applicable	Not Applicable	Design
Street Sweeping Program	Lawndale	Not Applicable	Enhanced Street Sweeping	Street Sweeping	Not Applicable	Not Applicable	Not Applicable	07/01/2025	\$190,000.00	Not Applicable	Municipal General Fund	Not Applicable	Not Applicable	Not Applicable	Implementation
West Rancho Dominguez - San Pedro St Green Improvement Project	Unincorporated LA County	Dominguez Channel Estuary	Infiltration Well, Green Street	The Project will divert stormwater and urban runoff into bioswales and drywells within the road right-of-way	33.901581	-118.268939	12/01/2026	10/25/2029	\$29,500,000.00	\$84,000.00	Safe, Clean Water, Municipal General Fund	8.69 ac	278.40 ac	Not Applicable	Planning
Wilmington Neighborhood Greening Project	Los Angeles	Los Angeles Harbor	Regional Treatment Facility	The Project will capture approximately 22 acre- feet of stormwater annually from a 66-acre drainage area in order to improve the water quality of the Dominguez Channel Watershed. This Project will divert and capture stormwater runoff from an existing 36-inch storm drain main at the Wilmington Recreation Center. The diverted stormwater will be conveyed via a diversion structure, a pretreatment structure, and a stormwater pump station to a new subsurface detention tank located underneath the baseball fields of the Wilmington Recreation Center. The captured stormwater will be detained for 72 hours after the storm event has passed and then pumped into an existing 12-inch sanitary sewer main on C Street, adjacent to the Site. The Project will also improve existing recreational facilities, including ballfields, sports field lighting, and new batting cages. The Project will also plant trees and improve landscaping throughout the Site and along Bay View Avenue and C Street.	33.77339159	-118.2688424	Not Applicable	11/30/2028	\$12,183,000.00	\$218,481.00	Safe, Clean Water	1.00 ac	66.00 ac	12.90 ac-ft	Design
Wilmington Q Street Local Urban Area Flow Management Project	Los Angeles	Machado Lake	Green Street, Biofiltration	The Project will be approximately 1,500 feet in length and within the city right-of-way on either side of the center line. The project includes the installation of infiltration drywells, replacement of existing sidewalk with permeable sidewalks, installation of drought-tolerant landscaping, installation of street trees, and the addition of crosswalks and a median. Drainage Area: 60 acres	33.79540885	-118.2636408	08/29/2028	02/28/2028	\$4,923,700.00	\$60,500.00	Safe, Clean Water	1.00 ac	59.00 ac	16.70 ac-ft	Planning
Wilmington-Anaheim Green Infrastructure Corridor Project	Los Angeles	Los Angeles Harbor	Regional Infiltration Gallery	The Project is a wet weather project designed to capture and infiltrate stormwater runoff from a 173-acre drainage area within the Wilmington Area of the City of Los Angeles. The Project is located along Anaheim Street from Gulf Avenue to just east of Marine Avenue; along Bay View Avenue, Island Avenue, and Fries Avenue from Anaheim Street to G Street; and within the alleys south of Anaheim Street between Gulf Avenue and McDonald Avenue and between Lagoon Avenue and Island Avenue.	33.77980724	-118.2650702	10/07/2027	02/28/2030	\$21,014,207.00	\$463,100.00	Safe, Clean Water	1.02 ac	173.00 ac	6.00 ac-ft	Planning
Zela Davis Park Renovation Project	Hawthorne	Dominguez Channel	LID Retrofit, Bioretention	Bioswale Gallery, Drywell	33.911141	-118.336286	Not Applicable	02/28/2025	\$5,125,625.00	\$3,000.00	CalTrans, CA State Proposition 68, LA County Measure A, Other State Program, Other Non-profit Organization	0.02 ac	0.67 ac	Not Applicable	Construction
Summary of New and Redevelopment Projects	Carson	Dominguez Channel Estuary, Machado Lake, Wilmington Drain	New and Redevelopment	This line item is intended to provide a summary of the City of Carson's new and redevelopment projects. The values shown here were developed by summing the respective values of 32 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	141.02 ac	74.61 ac	Not Applicable	Not Applicable
Summary of New and Redevelopment Projects	Inglewood	Dominguez Channel	New and Redevelopment	This line item is intended to provide a summary of the City of Inglewood's new and redevelopment projects. The values shown here were developed by summing the respective values of 3 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	0.89 ac	2.69 ac	Not Applicable	Not Applicable
Summary of New and Redevelopment Projects	Lawndale	Dominguez Channel	New and Redevelopment	This line item is intended to provide a summary of the City of Lawndale'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	0.50 ac	0.47 ac	Not Applicable	Not Applicable
Summary of New and Redevelopment Projects	Lomita	Machado Lake, Wilmington Drain	New and Redevelopment	This line item is intended to provide a summary of the City of Lomita's new and redevelopment projects. The values shown here were developed by summing the respective values of 2 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	0.01 ac	0.85 ac	Not Applicable	Not Applicable
Summary of New and Redevelopment Projects	Unincorporated LA County	Dominguez Channel, Dominguez Channel Estuary, Wilmington Drain	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 31 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	138.60 ac	134.44 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)
Alondra Park Multi-Benefit Stormwater Capture Project	Lawndale, Manhattan Beach, Redondo Beach, El Segundo, Hawthorne	Los Angeles County Sanitation Districts	\$70,332,000.00	\$70,332,000.00	Other (non-Safe, Clean Water)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Business Outreach Program	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	No	No	No	No	No	No	No
Calas Park Supplemental Environmental Project	Not Applicable	Los Angeles County Sanitation Districts	Not Applicable	Not Applicable	Safe, Clean Water	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Carriage Crest Park	Not Applicable	None	\$21,158,576.40	\$21,158,576.40	Other (non-Safe, Clean Water)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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
Darby Park Multi-Benefit Project	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Downtown Lomita Multi-Benefit Stormwater Project	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Safe, Clean Water	Yes	Yes	Yes	Yes	No	Yes	Yes	No
Enhanced Street Sweeping	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Yes	No	No	No	No	Yes	Yes	Yes
Enhanced Street Sweeping with Vacuum Sweepers	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Yes	No	No	No	No	No	Yes	No
Enhanced, Weekly Street Sweeping	Not Applicable	Not Applicable	\$0.00	\$0.00	Not Applicable	Yes	No	No	Yes	No	Yes	Yes	No
Gardena and Main Tree Wells	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Yes	No	Yes	Yes	Yes	Yes	Yes	No
Lawndale Southern Revitalization Project	Not Applicable	None	\$300,000.00	\$0.00	Safe, Clean Water	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Maintenance Program For Nonadvertising Bus Stop Amenities - South County	Not Applicable	Not Applicable	\$294,585.00	\$294,585.00	Other (non-Safe, Clean Water)	Yes	No	No	Yes	No	Yes	Yes	Yes
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
Point of Purchase Program	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	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 Sweeping	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 Study	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
Stevenson Park Stormwater Capture Project	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stormwater Facilities Master and Implementation Plan	Not Applicable	Not Applicable	\$1,200,000.00	\$1,200,000.00	Not Applicable	No	No	No	No	No	No	Yes	No
Street Sweeping Program	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Other (non-Safe, Clean Water)	Yes	No	No	No	No	Yes	Yes	Yes
West Rancho Dominguez - San Pedro St Green Improvement Project	Not Applicable	Not Applicable	\$29,500,000.00	\$29,500,000.00	Other (non-Safe, Clean Water)	No	Yes	Yes	No	No	Yes	Yes	Yes
Wilmington Neighborhood Greening Project	Not Applicable	N/A	\$35,683,000.00	\$17,683,000.00	Other (non-Safe, Clean Water)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Wilmington Q Street Local Urban Area Flow Management Project	Not Applicable	N/A	\$12,500,000.00	\$4,923,700.00	Other (non-Safe, Clean Water)	Yes	No	Yes	Yes	No	Yes	Yes	Yes
Wilmington-Anaheim Green Infrastructure Corridor Project	Not Applicable	N/A	\$15,904,481.00	\$10,574,500.00	Other (non-Safe, Clean Water)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Zela Davis Park Renovation Project	Not Applicable	Not Applicable	Not Applicable	\$5,800,000.00	Not Applicable	No	Yes	Yes	Yes	No	Yes	Yes	Yes

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	Ammonia	Machado Lake	Dry/Wet	Final	Sep 2018 - Final Milestone	Yes	Receiving Water Monitoring
Category 1	Chlordane (Sediment)	Machado Lake	Dry/Wet	Final	Sep 2019 - Final Milestone	N/A ^[3]	N/A
Category 1	Chlorophyll a	Machado Lake	Dry/Wet	Final	Sep 2018 - Final Milestone	No	N/A
Category 1	DDTs (Sediment)	Machado Lake	Dry/Wet	Final	Sep 2019 - Final Milestone	N/A ^[3]	N/A
Category 1	Dieldrin (Sediment)	Machado Lake	Dry/Wet	Final	Sep 2019 - Final Milestone	N/A ^[3]	N/A
Category 1	Dissolved Oxygen	Machado Lake	Dry/Wet	Final	Sep 2018 - Final Milestone	N/A ^[3]	N/A
Category 1	PCBs (Sediment)	Machado Lake	Dry/Wet	Final	Sep 2019 - Final Milestone	N/A ^[3]	N/A
Category 1	Total Nitrogen	Machado Lake	Dry/Wet	Final	Sep 2018 - Final Milestone	No	N/A
Category 1	Total Phosphorus	Machado Lake	Dry/Wet	Final	Sep 2018 - Final Milestone	No	N/A
Category 1	Trash	Machado Lake	Dry/Wet	Final	Mar 2016 - 100% Milestone	Yes	^[4]

[1] WBPCs identified in the updated WMP submitted to the Los Angeles Regional Water Quality Control Board in May 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] No receiving water data were available to evaluate attainment of this milestone during the reporting period.

[4]To address this requirement, Permittees implement (1) full capture systems; (2) partial capture devices and/or institutional controls; (3) combined compliance approaches; (4) minimum frequency of assessment and collection (MFAC); or (5) an alternative compliance option to achieve milestones related to trash. Reporting on the status of attaining the Machado Lake Trash TMDL is provided in each individual Permittee's response to the Trash TMDL Reporting Form (Attachment I of the 2021 Permit) .



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 Carson

"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.
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Recommended for Approval by: Roland Jen, PE, Stormwater Engineer

Signature: 

Certified by: Gilbert Marquez, PE, City Engineer

Signature: 

Date: 6-2-2025

**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 El Segundo

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Signature:



Name: Cheryl Ebert

Title: City Engineer

Date: 5/15/2025

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

July 1, 2024 – December 31, 2024

FOR

**ORDER NO. R4-2021-0105
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City of Hawthorne

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Signature:

Name:

Akbar Farokhi

Title: Director of Public Works Department

Date: May 8, 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 Inglewood

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Signature:



Name:

Bryan Adams

Title:

Public Works Director

Date:

5/8/2025

**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

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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 Lawndale

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Signature:



Name: Lucho Rodriguez, P.E.

Title: Public Works Director/ City Engineer

: June 15, 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 Lomita

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Signature: 

Name: Andres Gonzalez

Title: Public Works Director

Date: May 13, 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

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

Unincorporated County of Los Angeles

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Signature: 

Title: Assistant Deputy Director

Date: 4/2/2025