

SAFE, CLEAN WATER MUNICIPAL REPORTING

Municipal Annual Report

REPORTING YEAR	FY21-22
MUNICIPALITY	Rolling Hills
TOTAL SCW FUNDING RECEIVED	\$ 104,742.00
PREVIOUS YEAR CARRY OVER FUNDING	\$ 48,769.73
CURRENT YEAR ANTICIPATED CARRY OVER AMOUNT	\$ 23,299.00

Submitted On: N/A

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REPORT OVERVIEW

ACTIVITY OVERVIEW	Activities implemented during the reporting year utilizing Safe Clean Water Municipal Program funds included: 1) Safe Clean Water Municipal Program planning and reporting, 2) implementation of the Sepulveda Canyon Monitoring Study, 3) joint development and promotion of a new rainwater harvesting webpage on South Bay Cities Council of Governments website, 4) planning of expanded Low Impact Development provisions to increase stormwater retention and protect natural drainage courses from hydromodification, 5) implementation of the Palos Verdes Peninsula Coordinated Integrated Monitoring Program (CIMP) as required by the MS4 Permit, 6) enhanced sediment source control and 7) Watershed Management Program planning.
ACCOMPLISHMENTS	The City prepared it Municipal SCW Annual Report for FY2020-21 and planned, prepared and presented its FY2022-23 Municipal Safe Clean Water Annual Plan for City Council review and subsequent submittal to the Los Angeles County Flood Control District (District) for public posting. The City completed the second year of the Sepulveda Canyon Monitoring Study utilizing continuous flow monitoring to understand the nature-based retention of stormwater runoff within the City's natural canyon drainage courses. The Palos Verdes Peninsula Watershed Management Group (Peninsula WMG) and the Beach Cities WMG completed development and posting of a new rainwater harvesting webpage and developed a media kit to promote the South Bay Homeowners Guide to Rainwater Harvesting and webpage. The City completed the planning process for expanding LID provisions to development projects more broadly across the City in order to increase retention of stormwater on individual properties. The Peninsula WMG completed the sixth year of water quality monitoring under the approved CIMP. The City dedicated approximately 10% of code enforcement staff time to conducting enhanced sediment source control at construction sites and to enforce requirements for brush and dead vegetation removal to prevent wildfires as a means to control and prevent sources of pollutants in stormwater.
BENEFITS REALIZED	These activities prioritize nature-based solutions to improve water quality and retain stormwater onsite for beneficial use. The City's SCW Municipal Program expenditures also address the sources of pollutants and prioritize preventing their release into the environment. The City's SCW Municipal Program funds were leveraged by the City's general fund and through collaboration and coordination with other municipalities, as well as by encouraging residents to invest in these measures on their own properties. Also note: the carryover amount shown on the preceding page includes \$181 in interest earned on the carryover.
RUNOFF CAPTURE AND POLLUTION REDUCTION DESCRIPTION	The City's SCW Municipal Program Activities are focused on prioritizing, promoting and enhancing nature based solutions to improve stormwater quality through stormwater retention on residential properties and in the City's natural canyon drainage system. Enhanced sediment source control also addresses high-priority sediment bound pollutants of concern as well as prevents the release of pollutants by preventing wildfires. The Sepulveda Canyon Monitoring Study demonstrates the innovativeness and effectiveness of natural canyon drainage systems and the importance of protecting their function as a means of protecting and promoting improved water quality.

ORGANIZATIONAL OVERVIEW:

- **1 OPPORTUNITIES AND ALIGNMENTS**
- 2 **EXPENDITURES**
- **3 ACTIVITY SUMMARIES**
- 4 FINANCIAL & ACTIVITY RELATED DOCUMENTS
- 5 ACTIVITY PROGRESS IMAGES

1 OPPORTUNITIES AND ALIGNMENTS

The following discussion details opportunities for addressing additional SCW Program Goals, leveraging SCW program goals, or an increase regional capacity to supplement the SCW program.

Opportunities: The Safe Clean Water planning process, Sepulveda Canyon Monitoring Study and the CIMP all provide valuable data and information that are being used to evaluate and adaptively manage the City's stormwater program implementation to meet its water quality priorities in the most cost effective manner. Since many residential properties within the City are located on hillside properties served by natural drainage courses, expanding LID more broadly to development projects also serves to reduce adverse hydromodification impacts and reduce flood damage to properties during severe storms while also improving stormwater quality. In addition, encouraging the broader implementation of LID and rainwater harvesting provides an opportunity to engage the community in stormwater capture and retention. The incorporation of the City into the Peninsula WMP as an innovative nature-based runoff retention area demonstrates the effectiveness of nature-based solutions for stormwater management which can be modeled by other similarly situated communities.

The following discussion details new and ongoing alignments with other local agencies or partners to increase regional capacity to supplement the SCW program.

Alignments: The City continues to collaborate with its partners on the Palos Verdes Peninsula, as well as with the Beach Cities WMG, to engage the South Bay communities on the importance of stormwater as a resource and the benefits that can accrue from nature-based solutions. The City also continues to work with these partners to develop and implement effective source control programs for priority pollutants. In addition, the City continues to partner with the Palos Verdes Peninsula Land Conservancy to reduce the risk of wildfires and associated water quality impacts through targeted removal of non-native invasive plants that act as wildfire fuel.

2 EXPENDITURES

This section details Municipal expenditures during this reporting year. Itemized eligible expenditures of Municipal funds for each Activity are below. The table below serves to document and demonstrate that SCW Program Municipal funds were used for eligible expenditures (Section 18.06.D2.c).

Expenditures					
Activity Name	Expenditure Name	Expenditure Description	Amount	Туре	Eligible Expenditure?
Watershed Management Program Adaptive Management and Progress Reporting	Peninsula WMP Addendum	Consulting services to prepare an addendum to Peninsula WMP to incorporate the City as a nature-based runoff retention area.	\$17,097.00	Other (Program)	Yes
Development and Promotion of Rainwater Harvesting Guide	Rainwater Harvesting Webpage development and outreach	City's share of consultant, graphic design, and webpage hosting/maintenance costs.	\$3,489.06	Stakeholder & Community Outreach/Engagement (S&C Outreach/Engagement)	Yes
Sepulveda Canyon Monitoring Study	FY2021-22 Sepulveda Canyon Monitoring	Cost of second year of monitoring and preparation of final technical memorandum summarizing results and findings.	\$48,960.55	Implementation (Program)	Yes
SCW Municipal Program Planning and Reporting	SCW Municipal Program Planning FY2022-23 and Reporting FY2020-21	Consultant cost for assistance in preparing FY2020- 21 SCW Annual Report and for planning &preparing the FY2022-23 SCW Annual Plan for public posting.	\$9,664.20	Stakeholder & Community Outreach/Engagement (S&C Outreach/Engagement)	Yes
Expanded Low Impact Development	Planning of expanded LID program (formerly Hydromodification Control)	Consultant assistance in developing an approach for expanding LID to development projects more broadly throughout the City.	\$6,938.10	Planning (Pre- implementation) (Program)	Yes
Enhanced Sediment Source Control	FY2021-22 enhanced oversight of construction sites and wildfire fuel modification	10% of code enforcement staff time for enhanced oversight of construction sites for sediment control and for enforcement of the City's wildfire fuel abatement requirements.	\$5,000.00	Implementation (Program)	Yes

Coordinated Integrated Monitoring	021-22 CIMP ementation City's share of cost of CIMP monitoring and reporting limite by the available 300 for ongoing programs.	\$39,063.82	Implementation (Program)	Yes
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3 ACTIVITY SUMMARIES

The following table lists Activities and their details from this reporting period.

Municipal Activities					
Activity Name	New or Existing	Туре	Status	Estimated Total Cost	
Coordinated Integrated Monitoring	Existing	Program	In Progress	N/A	
Development and Promotion of Rainwater Harvesting Guide	New	Stakeholder & Community Outreach/Engagement	ln Progress	N/A	
Enhanced Sediment Source Control	New	Program	ln Progress	N/A	
Expanded Low Impact Development	New	Program	ln Progress	N/A	
SCW Municipal Program Planning and Reporting	New	Stakeholder & Community Outreach/Engagement	ln Progress	N/A	
Sepulveda Canyon Monitoring Study	New	Program	ln Progress	N/A	
Watershed Management Program Adaptive Management and Progress Reporting	New	Program	ln Progress	N/A	

4 FINANCIAL & ACTIVITY RELATED DOCUMENTS

The following documents are supplemental to the above information.

Attachments for this Section				
Attachment Name Description				
None provided	N/A			

Attachments are bundled and organized at the end of this document after activities, with cover pages between each subsection.

5 ACTIVITY PROGRESS IMAGES

The following images illustrate Activity progress.

Attachments for this Section				
Attachment Name Description				
None provided	N/A			

No images provided

Municipal Activity Reports

ACTIVITY OVERVIEW (1 of 10)

ACTIVITY NAME	Coordinated Integrated Monitoring
NEW OR EXISTING	Existing
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 24,000.00
Annual Expense Total	\$ 39,063.82

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS ACTIVITY SCHEDULE ACTIVITY GOALS ACTIVITY METRICS ACTIVITY ADDITIONAL METRICS ADDITIONAL DOCUMENTS

ACTIVITY DETAILS The following table summarizes general information about this Activity.

Latitude, Longitude	N/A
Activity Description	Implementation of the Palos Verdes Peninsula Coordinated Integrated Monitoring Program.
Activity Background	The MS4 Permit requires a Monitoring and Reporting Program to assess the chemical, physical, and biological impacts of municipal stormwater discharges on local surface water quality, evaluate compliance with water quality objectives, characterize pollutant loads in municipal discharges, identify the source of pollutants in discharges, and measure the effectiveness of the projects and programs included in the PVP WMP in reducing pollutant loading. The City of Rolling Hills, along with the cities of Palos Verdes Estates, Rancho Palos Verdes, Rolling Hills Estates, the County of Los Angeles and the Los Angeles County Flood Control District (Palos Verdes Peninsula CIMP group), have been collaborating on the implementation of the Coordinated Integrated Monitoring Program (CIMP) to meet Permit requirements. The receiving water and outfall data collected by the CIMP are used to evaluate and refine the projects and programs in the WMP.
Description of Progress	 The City in collaboration with its Palos Verdes Peninsula (Peninsula) Watershed Management Area partners completed the sixth year of monitoring and reporting under the approved CIMP. Work completed during the year included but was not limited to: receiving water sampling and analysis of a suite of analytical parameters at two (2) near-shore monitoring locations in the Santa Monica Bay (approximately 1000 feet offshore) during three (3) wet weather events and two (2) dry weather events per year, with adaptive monitoring at upstream shoreline sites; weekly indicator bacteria monitoring at five (5) Santa Monica Bay shoreline locations; stormwater outfall water quality and flow monitoring at three (3) locations during three (3) wet weather events per year
Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	A new monitoring contract was approved with transition to a new monitoring consultant completed. With one exception noted below, all other sample events were completed in accordance with the approved CIMP.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown			
Watershed Name Benefit Percent			
South Santa Monica Bay	100		

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table					
Task Name	Phase	Estimated Completion Date	Complete?		
FY2020-21 CIMP Implementation	Implementation	06/30/21	Yes		
FY2021-22 CIMP Implementation	Implementation	06/30/22	Yes		
FY2022-23 CIMP Implementation	Implementation	06/30/23	No		

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

The CIMP provides valuable data on the quality of municipal discharges and their impacts on receiving water quality. These data are evaluated on an annual basis and used to inform and refine the City's Stormwater Management Program, thus supporting improved water quality and protection of public health.

C. Does this project improve public health by preventing and cleaning up contaminated water, increasing access to open space, providing additional recreational opportunities, and helping communities mitigate and adapt to the effects of climate change through activities such as increasing shade and green space?

The CIMP provides valuable data on the quality of municipal discharges and their impacts on recreational receiving water quality. These data are evaluated on an annual basis and used to inform and refine stormwater projects and programs, thus supporting improved recreational receiving water quality and protection of public health.

D. Does this project leverage other funding sources to maximize SCW Program Goals?

The municipal general fund is leveraged to cover the City's share of the CIMP not recovered through the Municipal Safe Clean Water Program. Implementation of a CIMP also provides the opportunity to coordinate monitoring efforts on a watershed scale which increases the cost-efficiency and effectiveness of this water quality monitoring program.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

These data are evaluated on an annual basis and used to adaptively manage and refine both the CIMP as well as the City's Stormwater Management Program.

M. Does this project promote green jobs and career pathways?

The Peninsula CIMP Implementation began in 2016 following approval of the program by the LA Water Board. This program represents a substantial increase in ongoing monitoring effort over previous efforts which has resulted in increased employment for staff conducting the field sampling, laboratory staff conducting the water quality analysis, and professional staff that compile, review and report on the results.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table					
Metric Description Annual Value Since Inception Value Discussion					
None Provided N/A N/A N/A					

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
Funding from non- SCW sources	Portion of the full cost of the activity provided by non- SCW sources	Cost Share	33300.28 \$	65522.7 \$	Portion of City's CIMP cost provided from the City's General Fund since inception of SCW Program funding.
Water Quality Monitoring	Outfall and receiving water monitoring is conducted through the Coordinated Integrated Monitoring Program to evaluate progress toward attainment of water quality objectives and to adaptively manage water quality control measures.	Water Quality	66 sample events	133 sample events	3 wet weather stormwater outfall and receiving water sample events conducted annually, plus 12 dry weather outfall monitoring events and 52 shoreline receiving water events annually.

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section			
Attachment Name Description			
None provided	N/A		

Below are the project images.



Peninsula CIMP Monitoring Locations



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

Project Vector Minimization Documents

Municipal Activity Reports

ACTIVITY OVERVIEW (2 of 10)

ACTIVITY NAME	Development & Implementation of Community Outreach/Engagement
NEW OR EXISTING	New
ACTIVITY TYPE	Stakeholder & Community Outreach/Engagement
STATUS	Deferred
Annual Plan Amount	\$ N/A
Annual Expense Total	\$ 0.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS ACTIVITY SCHEDULE ACTIVITY GOALS ACTIVITY METRICS ACTIVITY ADDITIONAL METRICS ADDITIONAL DOCUMENTS

ACTIVITY DETAILS

The following table summarizes general information about this Activity.

Latitude, Longitude	N/A
Activity Description	Develop, adapt, & track community outreach & engagement to target water quality priorities and address new watershed information.
Activity Background	The Peninsula WMG in collaboration with the Beach Cities WMG develops and disseminates stormwater outreach content to the local community via the South Bay Cities Council of Governments (SBCCOG) environmental programs webpages. This outreach program also includes the development of periodic supplemental outreach pieces for dissemination through participating jurisdictions' e-news and social media channels to extend the reach of the messaging and draw traffic to the website content.
Description of Progress	N/A
Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	N/A
Gaps and Lessons Learned	N/A

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown		
Watershed Name	Benefit Percent	
South Santa Monica Bay	100	

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
None provided	N/A	N/A	N/A

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of waterquality requirements?

The central purpose of this program is community engagement in stormwater pollution prevention and rainwater harvesting activities.

B. Does this project increase drought preparedness by capturing more Stormwater and/or Urban Runoff to store, clean, reuse, and/or recharge groundwater basins?

A key focus of this community outreach and engagement is to promote rainwater collection at the individual property level and promote landscaping with native, drought tolerant plants which will increase drought preparedness and reduce reliance on imported potable water for landscaping.

C. Does this project improve public health by preventing and cleaning up contaminated water, increasing access to open space, providing additional recreational opportunities, and helping communities mitigate and adapt to the effects of climate change through activities such as increasing shade and green space?

One of the goals of this activity is to encourage adaptation to the effects of climate change through increased drought preparedness of residential landscapes and reduced use of potable water for landscaping.

D. Does this project leverage other funding sources to maximize SCW Program Goals?

These activities are jointly implemented by the Palos Verdes Peninsula and Beach Cities Watershed Management Groups who through these joint efforts are able to extend the reach and effectiveness of the program and significantly leverage funding contributions by each participating jurisdiction. It also encourages individual property owners and residents to invest in meeting these SCW program goals, further extending the leverage of these funds.

F. Does this project prioritize Nature-Based Solutions?

This outreach is intended to encourage use of native, drought tolerant plants in landscaping and retention of rainwater on properties by filtering through native soils and rain gardens to improve the quality of stormwater runoff through nature- based solutions.

G. Does this project provide a spectrum of project sizes from neighborhood to regional scales?

SCW Municipal Activity

This activity focuses on projects at the parcel level.

H. Does this project encourage innovation and adoption of new technologies and practices.?

The program encourages innovation and adoption of rainwater harvesting practices on individual properties.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

Tracking of website hits will be used to evaluate the effectiveness of the outreach and engagement program and to make adaptive changes in response.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A	N/A	N/A

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section		
Attachment Name Description		
None provided	N/A	

Below are the project images.

No images provided



ATTACHMENTS FOR SECTION:

Activity Documents



ATTACHMENTS FOR SECTION:

Project Vector Minimization Documents

Municipal Activity Reports

ACTIVITY OVERVIEW (3 of 10)

ACTIVITY NAME	Development and Promotion of Rainwater Harvesting Guide
NEW OR EXISTING	New
ACTIVITY TYPE	Stakeholder & Community Outreach/Engagement
STATUS	In Progress
Annual Plan Amount	\$ 3,172.40
Annual Expense Total	\$ 3,489.06

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS ACTIVITY SCHEDULE ACTIVITY GOALS ACTIVITY METRICS ACTIVITY ADDITIONAL METRICS ADDITIONAL DOCUMENTS

ACTIVITY DETAILS The following table summarizes general information about this Activity.

Latitude, Longitude	N/A
Activity Description	Development and promotion of the South Bay Homeowner's Guide to Rainwater Harvesting to engage residents in rainwater harvesting.
Activity Background	The MS4 Permit requires a program of public information and participation to involve and engage diverse communities in mitigating the impacts of storm water pollution, and encourages watershed- level implementation of the program. The watershed groups of the Palos Verdes Peninsula and the Beach Cities have been working for a number of years with the staff of the South Bay Cities Council of Government's (SBCCOG) Environmental Services Center (SBESC) to host Sustainable Gardening and Landscaping and Integrated Pest Management (IPM) webpages developed jointly for South Santa Monica Bay communities to disseminate information on CA friendly landscaping, responsible irrigation, integrated pest management and the proper use and disposal of pesticides and fertilizers. During FY1920, the two watershed groups worked cooperatively to develop A Homeowner's Guide to Rainwater Harvesting in the South Bay (Guide) to engage homeowners in implementing simple rainwater harvesting projects on their properties. During FY2021 these joint efforts continued with the development and dissemination of social media and e-blast content to residents to increase awareness of the importance and value of rainwater harvesting and disseminate links to the South Bay Homeowner's Guide to Rainwater Harvesting among residents. In FY2122, a South Bay Rainwater Harvesting webpage was developed providing information on residential rainwater harvesting and a downloadable version of the Guide. In addition, a media kit consisting of multiple social media posting graphics, example copy for posting on social media, and full and half page newsletter articles, was developed to promote the new webpage and the Guide.
Description of Progress	Rainwater harvesting webpage content was developed and mounted on the South Bay Cities Council of Governments (SBCCOG) Environmental Services Center Programs within the Environmentally Friendly Landscaping, Gardening and Pest Control section and media kit outreach materials were developed to promote the webpage and the existing Guide.
Were there Delays?	Yes
Description of Delays	Development of the rainwater harvesting webpage originally planned to be completed in FY2020-21 was delayed due to SBCCOG transitioning to a new website platform. Instead the rainwater harvesting webpage was completed in FY2021-22.

Highlights and Accomplishments	In addition to posting the web page, a media kit was also developed for use by participating cities to promote the rainwater harvesting webpage and Guide.
Gaps and Lessons Learned	N/A

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown		
Watershed Name	Benefit Percent	
South Santa Monica Bay	100	

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
FY2019-20 Rainwater Harvesting Guide	Outreach/Engagement Implementation	06/30/20	Yes
FY2020-21 Rainwater Harvesting Outreach	Outreach/Engagement Implementation	06/30/21	Yes
Rainwater Harvesting webpage	Outreach/Engagement Implementation	06/30/22	Yes

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of water-quality requirements?

Rainwater that is retained on properties and filtered through rain gardens will improve the quality of stormwater runoff.

B. Does this project increase drought preparedness by capturing more Stormwater and/or Urban Runoff to store, clean, reuse, and/or recharge groundwater basins?

Rainwater that is retained on properties for use in rain gardens and via rain barrels increases drought preparedness both by capturing and storing rain water for use, but also by increasing awareness of the value of stormwater as a resource.

D. Does this project leverage other funding sources to maximize SCW Program Goals?

The activity leverages funding by encouraging individual homeowner investment in meeting these SCW program goals. The activity also leverages multiple funding sources from multiple municipal agencies to develop the guide and conduct the outreach, including: cities of Palos Verdes Estates, Rolling Hills Estates, Rancho Palos Verdes, Torrance, Redondo Beach, Hermosa Beach, Manhattan Beach and the South Bay Cities Council of Governments.

F. Does this project prioritize Nature-Based Solutions?

Rainwater that is retained on properties and filtered through rain gardens will improve the quality of stormwater runoff through nature-based solutions.

G. Does this project provide a spectrum of project sizes from neighborhood to regional scales?

The central purpose of the Rainwater Harvesting Guide and Outreach is to encourage and promote rainwater harvesting at the individual property level.

H. Does this project encourage innovation and adoption of new technologies and practices.?

The program encourages innovation and adoption of rainwater harvesting practices at the parcel level.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
Rainwater Harvesting web page views	This metric represents the number of visitors to the South Bay Rainwater Harvesting webpage where the Guide to Rainwater Harvesting in the South Bay is available for download.	Innovation	130 webpage views	271 webpage views	Number of views during the reporting year of the South Bay Rainwater Harvesting webpage where the Guide to Rainwater Harvesting in the South Bay is available for download.

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section			
Attachment Name	Description		
None provided	N/A		
Below are the project images.			
South BAY Rainwater Harvesting Program			
Collect Rain	Save Refresh Money Plants		
Visit southbaycit	ties.org/south-bay-rainwater-harvesting.		

Rainwater Harvesting social media 1


Rainwater Harvesting social media 3



Activity Documents

Rainwater Harvesting Program

Help California weather the drought by collecting rainwater to use in your garden.

Most Californians use half of their water outside, providing an opportunity to use free rainwater.

One inch of rain falling on a 1,000 square-foot roof can provide more than 600 gallons of water!

Collecting rainwater for use on your garden and patio decreases your water bill and helps conserve our precious water resources!









Visit **southbaycities.org/south-bay-rainwater-harvesting** for tips and guidance on collecting and using rainwater at home.



Project Vector Minimization Documents

Municipal Activity Reports

ACTIVITY OVERVIEW (4 of 10)

ACTIVITY NAME	Enhanced Sediment Source Control
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 5,000.00
Annual Expense Total	\$ 5,000.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS ACTIVITY SCHEDULE ACTIVITY GOALS ACTIVITY METRICS ACTIVITY ADDITIONAL METRICS ADDITIONAL DOCUMENTS

ACTIVITY DETAILS The following table summarizes general information about this Activity.

Latitude, Longitude	N/A
Activity Description	The City has dedicated 10% of its full-time code enforcement staff position to conducting outreach and oversight of construction sites.
Activity Background	The need for increased control of suspended sediment in stormwater discharges has been identified through analysis of data collected under the CIMP. As required by the MS4 Permit, the City conducted an assessment of potential sources of sediment in stormwater discharges and identified the need for additional sediment source controls and oversight of construction sites. In 2019, the City created a full-time code enforcement position that is dedicated approximately 10% of the time to conducting outreach and providing additional oversight of construction sites beyond that being provided by contract building & safety inspectors.
Description of Progress	The City's code enforcement officer conducted outreach and oversight of construction sites on effective erosion and sediment control measures. The code enforcement officer's responsibilities also include enforcement of the City's dead tree and brush management ordinance to prevent accumulation of wildfire fuel on properties within the City which not only endangers residents and property but also creates adverse impacts on water quality post-fire.
Were there Delays?	N/A
Description of Delays	N/A

Highlights and Accomplishments	Ten (10) enforcement cases were initiated for construction during FY 2021-22. An additional seven (7) enforcement cases were initiated on properties with dead trees or dead/dry vegetation in violation of the City's wildfire fuel management ordinance.
Gaps and Lessons Learned	N/A

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown		
Watershed Name	Benefit Percent	
South Santa Monica Bay	100	

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
FY2019-20 and FY2020-21 Enhanced Sediment Source Control	Implementation	06/30/21	Yes
FY2021-22 Enhanced Sediment Source Control	Implementation	06/30/22	Yes
FY2022-23 Enhanced Sediment Source Control	Implementation	06/30/23	No

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of waterquality requirements?

By enhancing source controls of sediment and erosion on construction sites the discharge of sediment and sediment-borne pollutants to receiving waters can be reduced in order to support attainment of water quality objectives for these pollutants.

D. Does this project leverage other funding sources to maximize SCW Program Goals?

The balance of the code enforcement officer's salary is covered by the City's general fund. Additionally, the small construction site brochure used to educate construction site workers was also developed through contributions from the City's general fund in combination with funds from the other agencies in the Peninsula WMG and the Beach Cities WMG.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

This program was initiated and is being implemented as a result of an iterative adaptive management process arising from CIMP monitoring data as well as State Water Board SMARTS data from large construction sites within the City.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
Enhanced Sediment Source Control	Code enforcement officer hours dedicated to enhanced oversight of construction sites to enhance source control of sediment.	Water Quality	208 hours/year	624 hours/year	Code enforcement hours dedicated to construction oversight and dead/dry vegetation ordinance enforcement.

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section		
Attachment Name Description		
None provided	N/A	

Below are the project images.

No images provided



Activity Documents



Project Vector Minimization Documents

Municipal Activity Reports

ACTIVITY OVERVIEW (5 of 10)

ACTIVITY NAME	Expanded Low Impact Development
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 5,000.00
Annual Expense Total	\$ 6,938.10

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS ACTIVITY SCHEDULE ACTIVITY GOALS ACTIVITY METRICS ACTIVITY ADDITIONAL METRICS ADDITIONAL DOCUMENTS

ACTIVITY DETAILS The following table summarizes general information about this Activity.

Latitude, Longitude	N/A
Activity Description	This activity will establish a program of expanded low impact development for new and redevelopment of single-family residential projects.
Activity Background	A fundamental element of low impact development (LID) is effective site design. Effective site design preserves and/or creates natural landscape features that promote percolation of stormwater on-site, minimizes impermeable surfaces that create runoff, and uses permeable paving for exterior paved surfaces where feasible. Effective site design practices are no more complex than what is normally undertaken by architects and landscape designers for a typical new or redevelopment project and therefore can be applied to most new and redevelopment projects during planning and design, regardless of whether they trigger the numeric performance requirements of Priority Development Projects as defined in the Regional MS4 Permit. Applying effective site design practices to development projects more broadly will increase stormwater detention and retention across more properties in the City, improving downstream water quality and reducing hydromodification impacts. This activity effectively expands/replaces the previously planned hydromodification control activity by developing guidelines and outreach materials to implement a program of expanded LID via effective site design practices.
Description of Progress	Development of a policy for expanded low impact development standards which can be readily implemented through effective site design on projects that do not otherwise trigger LID under the MS4 Permit to increase retention of stormwater on individual properties and reduce downstream hydromodification.

Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	The City conducted a joint study session between the City Council and Planning Commission to discuss stormwater mitigation measures on development projects and provide examples of approaches to effective site design. This was followed by development of a policy which was presented to the Planning Commission and is now being implemented by City staff.
Gaps and Lessons Learned	N/A

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown		
Watershed Name Benefit Percent		
South Santa Monica Bay	100	

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
Guidelines and Outreach Materials	Planning (Pre- implementation)	06/30/23	No

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of waterquality requirements?

The program will increase detention and retention of stormwater runoff throughout the City and thereby support MS4 Permit compliance via retention of the 85%, 24-hr storm runoff events. The program will also reduce erosion impacts on the extensive natural canyon drainage system thereby reducing sediment-borne pollutants in stormwater discharges to impaired receiving waters above the 85%, 24-hr storm runoff events.

D. Does this project leverage other funding sources to maximize SCW Program Goals?

Implementation of the program will occur primarily through private redevelopment funds providing significant leverage of the SCW funds.

E. Does this project invest in infrastructure that provides multiple benefits?

When applied broadly to new and redevelopment projects, this program will help reduce downstream flooding and erosion impacts in the City's natural canyon system. Effective site design via expanded LID will help to reduce peak stormwater flows that damage natural drainage courses and downstream properties, with reduced scouring of channels, sediment and debris and associated pollutant loads. The additional benefits of retention for property landscapes, whether designed or natural, are that rainwater is stored in the soil pore spaces for uptake by plants over time, this encourages deep root growth for drought resilience. Additionally, since rainwater is much lower in mineral content than potable water used for irrigation, it will dilute and flush out accumulated salts in the soils from irrigation.

F. Does this project prioritize Nature-Based Solutions?

The focus of this program is on utilizing nature-based solutions such as natural landscaping and infiltration into native soils to detain and retain stormwater.

G. Does this project provide a spectrum of project sizes from neighborhood to regional scales?

This program promotes and facilitates nature-based solutions at the individual property scale.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

SCW Municipal Activity

This program is being developed over the course of several years through engagement with the City Council and Planning Commission and has evolved and will continue to be adaptively managed as it is implemented.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A	N/A	N/A

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section		
Attachment Name	Description	
None provided	N/A	

Below are the project images.

No images provided



Activity Documents



Project Vector Minimization Documents

Municipal Activity Reports

ACTIVITY OVERVIEW (6 of 10)

ACTIVITY NAME	Monitoring Program Revision & Implementation
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	Deferred
Annual Plan Amount	\$ N/A
Annual Expense Total	\$ 0.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS ACTIVITY SCHEDULE ACTIVITY GOALS ACTIVITY METRICS ACTIVITY ADDITIONAL METRICS ADDITIONAL DOCUMENTS

ACTIVITY DETAILS The following table summarizes general information about this Activity.

Latitude, Longitude	N/A
Activity Description	Revision of the Peninsula CIMP and TMDL monitoring program to incorporate and implement new requirements of the 2021 Regional MS4 Permit.
Activity Background	The 2021 Regional MS4 Permit requires the Permittees to submit an updated monitoring program for approval by the LA Water Board to incorporate applicable requirements of the permit and must implement those new requirements immediately upon approval. The City of Rolling Hills, along with the cities of Palos Verdes Estates, Rancho Palos Verdes, Rolling Hills Estates, the County of Los Angeles and the Los Angeles County Flood Control District (Palos Verdes Peninsula CIMP group), have been collaborating on the implementation of the Coordinated Integrated Monitoring Program (CIMP) to meet Permit requirements and have contracted for the revision and implementation of the CIMP via an MOU for cost sharing.
Description of Progress	N/A
Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	N/A
Gaps and Lessons Learned	N/A

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown		
Watershed Name	Benefit Percent	
South Santa Monica Bay	100	

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
Revise Peninsula CIMP	Planning (Pre- implementation)	03/31/23	No

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of waterquality requirements?

The data collected by the CIMP are used to evaluate the effectiveness of the EWMP and adaptively manage the projects and programs in the EWMP. This activity will update the CIMP to more effectively obtain meaningful data and implement lessons learned during the first five years of CIMP implementation.

C. Does this project improve public health by preventing and cleaning up contaminated water, increasing access to open space, providing additional recreational opportunities, and helping communities mitigate and adapt to the effects of climate change through activities such as increasing shade and green space?

The CIMP provides data on the quality of municipal discharges and their impacts on recreational receiving water quality.

D. Does this project leverage other funding sources to maximize SCW Program Goals?

The municipal general fund is leveraged to cover the City's share of the CIMP not recovered through the Municipal Safe Clean Water Program. Implementation of a CIMP also provides the opportunity to coordinate monitoring efforts on a watershed scale which increases the cost-efficiency and further leverages the funding of this water quality monitoring program.

H. Does this project encourage innovation and adoption of new technologies and practices.?

The updated CIMP will take advantage of advances in analytical methodology and refine water sampling practices to more effectively collect meaningful water quality data.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

These data are evaluated on an annual basis and used to adaptively manage and refine both the CIMP as well as the City's Stormwater Management Program.

M. Does this project promote green jobs and career pathways?

The revision of the CIMP and implementation of the new provisions represents an increase in ongoing monitoring effort which will result in increased employment for staff conducting the field sampling, SCW Municipal Activity

laboratory staff conducting the water quality analysis, and professional staff that compile, review and report on the results.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A	N/A	N/A

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section		
Attachment Name	Description	
None provided	N/A	

Below are the project images.

No images provided



Activity Documents



Project Vector Minimization Documents

Municipal Activity Reports

ACTIVITY OVERVIEW (7 of 10)

ACTIVITY NAME	SCW Municipal Program Planning and Reporting
NEW OR EXISTING	New
ACTIVITY TYPE	Stakeholder & Community Outreach/Engagement
STATUS	In Progress
Annual Plan Amount	\$ 8,000.00
Annual Expense Total	\$ 9,664.20

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS ACTIVITY SCHEDULE ACTIVITY GOALS ACTIVITY METRICS ACTIVITY ADDITIONAL METRICS ADDITIONAL DOCUMENTS

ACTIVITY DETAILS The following table summarizes general information about this Activity.

Latitude, Longitude	N/A
Activity Description	Stakeholder and community engagement in programming the City's Municipal SCW program funds and preparing annual plans and reports.
Activity Background	Municipalities must undertake a significant planning effort to prioritize projects and programs to assist in achieving compliance with the Regional MS4 Permit (MS4 Permit), consider municipal-level requests for infrastructure projects from eligible project applicants, and annually prepare and provide informational materials to the public on actual and budgeted use of revenues from the SCW Municipal Program. The SCW Program Implementation Ordinance, Section 18.09.B.5., requires municipalities to develop and submit to the District an Annual Plan detailing how Municipal Program funds will be used during the ensuing year. The Annual Plan must include anticipated projects and programs, stakeholder engagement activities, an initial programmatic budget, and the SCW Program Goals that are supported by the planned expenditures. In addition to the annual planning effort, the SCW Implementation Ordinance, Section 18.06.D., requires municipalities to prepare and submit an Annual Progress/Expenditure Report to the District summarizing expenditures during the previous fiscal year, describing the work accomplished, progress and metrics, including stakeholder engagement activities. The City actively engages its City Council and residents on matters of significance through duly noticed agendas and public meetings. The Annual Plans and Annual Progress/Expenditure Reports are also placed on City Council agendas for consideration and discussion and are publicly posted on the District's Safe, Clean Water Program website.
Description of Progress	During the reporting year, the City's FY2020-21 Municipal SCW Annual Report was prepared and submitted in December 2021.The City's FY2022-23 Municipal SCW Annual Plan budget was developed, publicly noticed and considered by the City Council, followed by preparation of the annual plan supporting narrative.
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Were there Delays?	N/A
Description of Delays	N/A
Highlights and Accomplishments	The City's FY2020-21 Municipal SCW Annual Report was successfully submitted to the District in December 2021 via the SCW website reporting portal. The City's FY2022-23 Municipal Safe Clean Water Annual Plan was submitted to the Districts via the SCW website portal.
Gaps and Lessons Learned	N/A

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown			
Watershed Name Benefit Percent			
South Santa Monica Bay 100			

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table				
Task Name	Phase	Estimated Completion Date	Complete?	
FY2019-20 Municipal Program Planning	Planning (Pre- Meeting)	06/30/20	Yes	
FY2019/20 and FY2020/21 Municipal Program Planning	Meeting with Stakeholders & Community Members	04/05/21	Yes	
FY2021-22 Municipal Program Planning & Reporting	Outreach/Engagement Implementation	04/15/22	Yes	
FY2022-23 Municipal Program Planning & Reporting	Outreach/Engagement Implementation	04/15/23	No	

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of waterquality requirements?

The planning effort to identify and prioritize projects and programs that will help meet MS4 Permit objectives contributes to the attainment of water quality requirements.

F. Does this project prioritize Nature-Based Solutions?

The City of Rolling Hills general plan by design emphasizes protection of natural areas and minimizes gray infrastructure in favor of natural drainage systems.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

This planning effort, along with the Annual Progress/Expenditure Report, comprise an iterative planning and evaluation process as they provide opportunities for the City to assess its Municipal SCW Program

expenditures and to modify its priority projects and programs to better meet water quality requirements using SCW funds.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description Related Annual Since Goals Value Value Discussion				
None Provided	N/A	N/A	N/A	N/A	N/A

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section			
Attachment Name Description			
None provided N/A			

Below are the project images.

No images provided



Activity Documents



Project Vector Minimization Documents

Municipal Activity Reports

ACTIVITY OVERVIEW (8 of 10)

ACTIVITY NAME	Sepulveda Canyon Monitoring Study
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 47,394.16
Annual Expense Total	\$ 48,960.55

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS ACTIVITY SCHEDULE ACTIVITY GOALS ACTIVITY METRICS ACTIVITY ADDITIONAL METRICS ADDITIONAL DOCUMENTS

ACTIVITY DETAILS The following table summarizes general information about this Activity.

Latitude, Longitude	33.77366841947217, -118.34838407336514
Activity Description	Monitoring study of the largest canyon drainage system in Rolling Hills to develop baseline water quality and flow data.
Activity Background	This monitoring study within the largest canyon catchment in the City is being used to develop baseline water quality and flow data to assist the City in understanding the function and potential for enhancement of the natural retentive capacity of its canyon drainage systems. Sepulveda Canyon is an unimproved natural drainage course with a tributary area of 280 acres within the Machado Lake Watershed area of the City. The operating procedures for this monitoring study are consistent with the current MS4 outfall monitoring program being conducted under the Palos Verdes Peninsula CIMP and include collection of continuous flow monitoring data along with field measurements and observations. The data collected is being used to assess the effectiveness of the City's natural canyon drainage systems in retaining stormwater runoff and will assist the City in adaptively managing its stormwater management activities and projects.
Description of Progress	Flow monitoring data was collected throughout the rain year along with water quality sampling and analysis of stormwater runoff from a major storm greater than the 85%, 24-hr rain event.
Were there Delays?	Yes

Description of Delays	Water quality sampling and analysis of stormwater events originally planned for FY2020-21 was not conducted in that year due to no flow being present as noted in the SCW annual report for that year. Unspent budget for this activity was carried forward and is reflected in the annual plan amount above along with the budgeted continued flow monitoring for FY2021-22.
Highlights and Accomplishments	The results of two complete wet seasons of continuous flow monitoring data were evaluated and summarized in a technical memorandum provided to the LA Water Board. Sepulveda Canyon effectively retained the volume of flow generated by all storm events during the 2020-2021 wet season, including two storm events greater than the 85th percentile, 24-hour storm event. Sepulveda Canyon effectively retained the volume of flow generated by all storm events that occurred during the 2021-2022 wet season less than or equal to the 85th percentile, 24-hour storm event.
Gaps and Lessons Learned	This study has demonstrated that the City's planning and land development standards along with its extensive network of natural canyon drainage systems promotes retention and infiltration of stormwater, creating a system of nature-based solutions for stormwater management that effectively retains runoff from the 85%, 24-hr rain event.

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown			
Watershed Name Benefit Percent			
South Santa Monica Bay 100			

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table				
Task Name	Phase	Estimated Completion Date	Complete?	
FY2020-21 Sepulveda Canyon Monitoring	Implementation	05/31/21	Yes	
FY2021-22 Sepulveda Canyon Monitoring	Implementation	05/31/22	Yes	
FY2022-23 Sepulveda Canyon Monitoring	Implementation	05/31/23	No	

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of waterquality requirements?

This monitoring study provides key information on the City's progress towards meeting TMDL waste load allocations specified in the Regional MS4 Permit.

F. Does this project prioritize Nature-Based Solutions?

This monitoring study will be used to demonstrate the City's network of natural canyon drainage systems as a nature-based runoff retention strategy for stormwater management, and to understand the functionality and potential for enhancement of these systems.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

This study incorporates an iterative evaluation process since the initial intent of the study was to support development of a potential stormwater capture project, but based on the results of the first year of monitoring which demonstrated the effectiveness of nature-based canyon systems in retaining stormwater runoff, the focus of the study has been shifted towards further studying and maximizing the effectiveness of these nature-based retention systems.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
Rain events monitored	number of rain events monitored during the reporting year	Water Quality	8 rain events	16 rain events	During the reporting year a total of eight rain events were monitored for flow in Sepulveda Canyon.

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section		
Attachment Name	Description	
None provided	N/A	

Below are the project images.

No images provided



Activity Documents



Project Vector Minimization Documents

Municipal Activity Reports

ACTIVITY OVERVIEW (9 of 10)

ACTIVITY NAME	Watershed Management Program Adaptive Management and Progress Reporting
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	In Progress
Annual Plan Amount	\$ 20,000.00
Annual Expense Total	\$ 17,097.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS ACTIVITY SCHEDULE ACTIVITY GOALS ACTIVITY METRICS ACTIVITY ADDITIONAL METRICS ADDITIONAL DOCUMENTS

ACTIVITY DETAILS The following table summarizes general information about this Activity.

Latitude, Longitude	N/A
Activity Description	Revision of the Palos Verdes Peninsula Watershed Management Program to include the City of Rolling Hills.
Activity Background	Upon adoption of the new Regional MS4 Permit in August 2021, the City was afforded the opportunity to notify the Regional Board that it intends to participate in the Palos Verdes Peninsula Watershed Management Program (Peninsula WMP). In order to be included in the Peninsula WMP, the City is required to update the WMP to include its watershed areas and nature-based stormwater retention systems into the program. The Sepulveda Canyon monitoring study has confirmed the effectiveness of the City's nature-based stormwater retention canyon drainage systems. This activity will revise the Peninsula WMP to incorporate the entire area of the City as a nature-based stormwater retention system.
Description of Progress	An addendum to the Palos Verdes Peninsula WMP was prepared consisting of: 1) a detailed matrix of itemized changes to the 2021 Peninsula WMP, organized by section and formatted in strikeout/replacement format as requested by LA Water Board staff, and 2) a new narrative subsection to the WMP discussing the Rolling Hills Nature-Based Runoff Retention Area.
Were there Delays?	N/A
Description of Delays	N/A

Highlights and Accomplishments	The WMP addendum was provided to other Peninsula agencies participating in the WMP for an opportunity to review and comment followed by a presentation of the revised WMP to the Rolling Hills City Council for consideration and approval at a duly noticed public meeting. Finally, the WMP addendum was submitted to the Regional Board for review and comment, comments were discussed with LA Water Board staff and a revised addendum submitted to address the comments.
Gaps and Lessons Learned	N/A

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown		
Watershed Name	Benefit Percent	
South Santa Monica Bay	100	

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table				
Task Name	Phase	Estimated Completion Date	Complete?	
Addendum to Peninsula EWMP	Planning (Pre- implementation)	01/31/22	Yes	
Revise Peninsula EWMP	Planning (Pre- implementation)	12/30/22	No	

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of waterquality requirements?

The Peninsula Watershed Management Program (WMP) provides a roadmap for improving water quality and prioritizing nature based solutions. Inclusion of the City's watershed areas in the Peninsula WMP will demonstrate the effectiveness of nature-based solutions in attaining water quality objectives.

B. Does this project increase drought preparedness by capturing more Stormwater and/or Urban Runoff to store, clean, reuse, and/or recharge groundwater basins?

Retention of stormwater through nature-based solutions increases drought resilience of landscapes.

F. Does this project prioritize Nature-Based Solutions?

Incorporation of the City's nature-based natural canyon retention system as an effective strategy for achieving water quality objectives prioritizes nature based solutions over gray infrastructure.

H. Does this project encourage innovation and adoption of new technologies and practices.?

The City's wise application of its land use authority to protect and maintain the retentiveness of its natural canyon systems is an innovative watershed management practice which may encourage other jurisdictions to implement similar practices.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

Inclusion of the City in the Peninsula WMP will require implementation of an iterative planning and evaluation process to ensure adaptive management.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table				
Metric Description	Annual Value	Since Inception Value	Discussion	
None Provided	N/A	N/A	N/A	

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A	N/A	N/A

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section		
Attachment Name	Description	
None provided	N/A	

Below are the project images.

No images provided



Activity Documents



Project Vector Minimization Documents

Municipal Activity Reports

ACTIVITY OVERVIEW (10 of 10)

ACTIVITY NAME	Wildfire Prevention Measures
NEW OR EXISTING	New
ACTIVITY TYPE	Program
STATUS	Deferred
Annual Plan Amount	\$ N/A
Annual Expense Total	\$ 0.00

ACTIVITY ORGANIZATIONAL OVERVIEW:

Individual Activity Reports contain the following sections.

ACTIVITY DETAILS ACTIVITY SCHEDULE ACTIVITY GOALS ACTIVITY METRICS ACTIVITY ADDITIONAL METRICS ADDITIONAL DOCUMENTS

ACTIVITY DETAILS The following table summarizes general information about this Activity.

Latitude, Longitude	N/A
Activity Description	Reduction of wildfire fuel on open space within the City by targeting the removal of invasive, non-native plants such as acacia and mustard.
Activity Background	A substantial body of scientific research has found that wildfires can be a significant source of toxic pollutants in stormwater, and therefore the prevention of wildfires is an important measure to prevent the release of toxic pollutants. The City is within a very high fire hazard area of the Palos Verdes Peninsula and is undertaking this task to reduce the risk of wildfires through the expertise and services of the Palos Verdes Peninsula Land Conservancy (PVPLC). The PVPLC utilizes a specialized weeding approach to target removal of invasive plants such as Acacia and Mustard and other non-native plants which in turn improves native habitat for local wildlife, including the federally threatened coastal California gnatcatcher, the cactus wren, a state species of concern, and the federally endangered Palos Verdes Blue Butterfly. Acacia shrubs are highly flammable and considered a high-hazard plant by LA County Fire Department, and mustard, when dry following the blooming season, is also a high-fire risk. The PVPLC has qualified experts on staff to oversee the work and also utilizes volunteers and interns in the work which provides valuable learning opportunities for local youth and adult volunteers while augmenting the work volume and controlling costs.
Description of Progress	N/A
Were there Delays?	N/A

Description of Delays	N/A
Highlights and Accomplishments	N/A
Gaps and Lessons Learned	N/A

The following table describes which watersheds, and to what degree, benefit from this activity.

Watershed Benefit Breakdown		
Watershed Name	Benefit Percent	
South Santa Monica Bay	100	

ACTIVITY SCHEDULE

The following table outlines the tasks and schedule for this Activity.

Activity Schedule Table			
Task Name	Phase	Estimated Completion Date	Complete?
None provided	N/A	N/A	N/A

ACTIVITY GOALS

The following are the SCW goals this Activity intends to address.

A. Does this project improve water quality and contribute to attainment of waterquality requirements?

A substantial body of scientific research has found that wildfires can be a significant source of toxic pollutants in stormwater and have been shown to increase the volume of stormwater and sediment and pollutant loading to receiving water post-fire. Thus, the prevention of wildfires is an important measure to prevent the release of toxic pollutants. The LA Water Board and U.S. EPA have established TMDLs for toxic pollutants for all three receiving water bodies to which stormwater from the City is tributary, therefore prevention of wildfires prevents the release of toxic pollutants causing impairment of these receiving waters.

B. Does this project increase drought preparedness by capturing more Stormwater and/or Urban Runoff to store, clean, reuse, and/or recharge groundwater basins?

This project increases drought preparedness by reducing the likelihood of wildfires through wildfire fuel modification which also prevents the adverse effects of wildfires on soils post-fire to prevent increased runoff and reduced percolation of rainwater.

C. Does this project improve public health by preventing and cleaning up contaminated water, increasing access to open space, providing additional recreational opportunities, and helping communities mitigate and adapt to the effects of climate change through activities such as increasing shade and green space?

This project helps to improve public health by preventing the contamination of recreational waters with toxic pollutants and assisting the City's residents in adapting to the effects of climate change through effectively managed open space.

D. Does this project leverage other funding sources to maximize SCW Program Goals?

Funding for this activity is being offset by the City's general fund and by in-kind services of PVPLC's volunteers and youth interns.

F. Does this project prioritize Nature-Based Solutions?

This activity prioritizes nature based solutions through control of non-native invasive plant species in favor of native plant species with characteristics that are less flammable when properly managed and at the same time afford habitat for native wildlife.

G. Does this project provide a spectrum of project sizes from neighborhood to

SCW Municipal Activity

regional scales?

This activity is at the neighborhood scale.

H. Does this project encourage innovation and adoption of new technologies and practices.?

By demonstrating appropriate fuel modification control on open space areas, this activity demonstrates to volunteers, youth interns, and local property owners how to implement best practices for wildfire prevention while preserving native open space habitat on their own properties.

L. Does this project implement an iterative planning and evaluation process to ensure adaptive management?

The PVPLC's work includes monitoring of Acacia to prevent re-invasion in abated areas.

M. Does this project promote green jobs and career pathways?

The PVPLC uses youth volunteers and interns as well as paid field staff for conducting the work overseen by on-staff experts which provides both job training and promotes green jobs.

ACTIVITY METRICS

The following metrics aim to quantify or describe how this Activity contributed to the SCW goals identified above.

Activity Metrics Table			
Metric Description	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A

ACTIVITY ADDITIONAL METRICS

The following metrics are suggested metrics to record in this report.

Activity Additional Metrics Table					
Metric Name	Description	Related Goals	Annual Value	Since Inception Value	Discussion
None Provided	N/A	N/A	N/A	N/A	N/A

ACTIVITY DOCUMENTS

The following documents are supplemental to this Activity's description and background.

Attachments for this Section		
Attachment Name	Description	
None provided	N/A	

Below are the project images.

No images provided



Activity Documents



Project Vector Minimization Documents



Annual Report Documents