

**Santa Monica Bay National Estuary Program's
Comprehensive Conservation and Management Plan**

2019 Finance Plan

Final Plan Approved by SMBNEP Management Conference

Introduction to CCMP Finance Plan

Purpose

The Santa Monica Bay National Estuary Program (SMBNEP) Comprehensive Conservation and Management Plan (CCMP) has several components including the Action Plan and the Finance Plan. The current Action Plan was adopted by the Governing Board in October 2018 and serves as a long-term framework for action in the Santa Monica Bay and its watersheds. The Finance Plan is inherently a strategic planning document that will assist SMBNEP and its partners in effectively implementing the Action Plan over the course of the next five years and beyond. While it encompasses all the Actions and associated Next Steps of the Action Plan (2018), the Finance Plan is not an exhaustive list of all activities and their full cost of implementation throughout the watershed by all entities and partners. It is recognized and accepted that not every Action will have currently identified funding nor precise estimates of funding needs. Additionally, the Finance Plan is not intended to quantitatively track costs nor assume funding commitments. Rather, the Finance Plan is intended to help assess funding opportunities and needs of the Next Steps associated with the Action Plan.

Finance Plan Components

This Finance Plan consists of this narrative document and the subsequent Finance Plan table (attached below narrative). This summary narrative also provides a summary of estimated costs and several larger funding opportunities within the SMBNEP study area. A response to comments table was also produced as part of the process to receive feedback and input from the Management Conference and interested stakeholders, which captures the input comments and staff responses. The response to comments table is available separately from this document and the attached Finance Plan table. It is posted on the Santa Monica Bay Restoration Commission website: <https://www.smbrc.ca.gov/>.

Finance Plan Table Structure

The format provided for the Finance Plan was based upon the United States Environmental Protection Agency's (US EPA) funding guidance for National Estuary Programs (NEP) and was modeled after other NEP finance plans. The framework for the Finance Plan replicated Actions and Next Steps in the Action Plan (2018) in the form of a large table (left-hand columns, below).

The first five columns (left-hand side of the table) identify the Actions, Next Steps, lead entity(ies), and partner(s) initially derived from the Action Plan. The next four columns (middle of the table) identify known current secured funding by SMBNEP and partners to implement various Next Steps. The final five columns (right-hand side of the table) identify estimated remaining needs for funding to implement the Next Steps over the

course of the five years of the Action Plan. The last column on the right-hand side (percent secured) is a formula indicating the percentage of secured funding (out of the total cost) based on the quantification of costs estimated within the table. If one of the cost estimates was unknown, then the percent secured was also identified as unknown.

The “Time-frame” column categorically characterizes confidence associated with implementing a given Next Step over the five years associated with the CCMP Action Plan, based on funding information. The sequence of numbers in “Time-frame” describes the following: ‘1’ indicates that the Next Step is likely to be completed within the five year Action Plan timeframe, ‘2’ indicates moderate confidence in implementing the Next Step within the Action Plan timeframe, and ‘3’ indicates implementation or completion of the Next Step is either unknown or outside the scope of the Action Plan timeframe. Given the information obtained, the timeframe of cost projections, and the dynamic nature of funding availability and opportunities, the “need” sets of columns were inherently rough estimates.

Some projects had sources of funding secured while others may not have had any identified. The table distinguished between ‘unknowns’ and those that were known but were ‘not currently funded’. Examples of ‘unknowns’ included those Next Steps that may have secured funding, but SMBNEP either did not have details on cost estimates or did not have enough information to complete that part of the table. An example might be partner agency staff time in-kind support that was not quantified. Alternately, in some cases, ‘unknowns’ may also have indicated that there was no funding available. ‘Not currently funded’ was intended to indicate a known quantity of zero current funding.

Response to Comments Table

SMBNEP requested assistance from the Management Conference and members of the public to populate the Finance Plan table and narrative to the best of their knowledge. SMBNEP sought input on currently allocated or identified funding, additional funding required, and possible or secured funding sources. Additionally, partner(s) and lead entity(ies) were updated from the CCMP Action Plan (2018), when requested.

Some SMBNEP stakeholders also requested specific project names or new activities and their full costs of implementation be added to the Finance Plan table. SMBNEP acknowledges the significance of partners’ efforts to implement the Action Plan and encourages continued assistance in tracking these efforts. However, the Action Plan was finalized with significant input from the Management Conference and interested stakeholders and approved in 2018. At this time, SMBNEP is not further revising the Action Plan. The Actions and Next Steps incorporated in the Finance Plan table remain the same as the Action Plan approved in 2018. The identification and inclusion of new projects may be incorporated into future SMBNEP annual Work Plans.

Summary of Action Plan Funding

In summary, over \$48 million dollars were identified in this Finance Plan as current secured funding available to implement the CCMP Action Plan (2018). An additional \$19 million dollars were identified as in-kind support for the actions. Approximately \$90 million dollars were identified as needed future funds to implement Next Steps, for a combined total cost estimate of over \$157 million dollars. Of that total, 43% was identified as secured (including both funding and in-kind support). These estimates did not include all of the recognized unknowns and funding gaps identified in the table. As more information is gathered to further aspects of this Finance Plan, those values will be provided in subsequent updates to this plan, the first of which is scheduled to occur in 2023 consistent with US EPA funding guidance.

Larger Funding Opportunities

In addition to the Finance Plan table, this section represents a concise narrative for several key measures or policies identified that may provide broad sources of funding to one or many Actions identified in the Plan. The intent was to capture some of the available larger-scale funding efforts that may support the implementation of the Action Plan but may not have been suitable for inclusion in the table. For example, Action #17 has a Next Step listed as: “Complete additional LID projects throughout the watershed.” While a high priority from a water quality perspective, this task, as written, (if completely all-encompassing) could have a price tag in the billions over the next couple of decades. Since that cost is orders of magnitude above most of the identified Actions and would not have been specific to projects identified in the Action Plan, it would become less of an informative tool if included in the table. Instead, this associated narrative identified funding sources such as Measure W (Safe Clean Water Program) for discussion in support of Action #17 and others. Another example is Proposition 50, which was recommended by the TAC to support monitoring and research efforts across many of the Actions throughout the Action Plan. These larger funding opportunities are further discussed below.

Measure W – Support of Action #16, #17, #23, #28, #40, and others

Measure W, known as the Safe Clean Water Program, was passed in 2018 to provide consistent funding for safe, clean, and reliable water in Los Angeles County. Fifty percent of the revenue generated from a special parcel tax will be distributed among nine watershed areas. Three of these watershed areas, North Santa Monica Bay (SMB), Central SMB, and a portion of South SMB, lie completely or partially within SMBNEP’s study area. These watershed areas are estimated to receive at least \$20 million in annual funds collectively for watershed-level stormwater projects and programs. Municipalities within Los Angeles County will receive 40% of the tax revenue.

Nineteen municipalities are projected to collectively receive an additional \$20 million to address local stormwater issues in the SMBNEP study area*. Funds are expected to be distributed to the watershed areas and municipalities in Spring 2020 and recommendations for funding priorities issued by June 2020.

Measure W could support several Next Steps of the Action Plan, including, but not limited to, implementation of Enhanced Watershed Management Plans (EWMPs) and Watershed Management Plans (WMPs) projects (Action #16), implementation of stormwater and dry-weather runoff mitigation projects (Action #17), development of stream protection policies (Action #23), support of disadvantaged communities (Action #28), and monitoring of effectiveness of low impact development and best management practices (Action #40).

Full implementation of EWMPs and WMPs across the Santa Monica Bay watershed are estimated to cost \$4.4 billion over the next five years. The City of Santa Monica alone estimated \$25 million is needed to fully implement EWMP projects in their boundaries with Proposition 1 Stormwater, County Measure W, and local Measure V as potential funding sources.

Several stormwater and dry-weather runoff mitigation projects have already been proposed to receive Measure W funding. Four of Los Angeles County's proposed projects will address developed areas tributary to the Santa Monica Bay. The County requested approximately \$28.8 million dollars of Measure W's regional funds to implement these stormwater improvement and green streets projects. As another example, the City of Santa Monica estimated \$16.4 million dollars are needed to complete additional LID projects throughout the city with Proposition 1 Stormwater, County Measure W, and local Measure V as potential funding sources.

** Projected annual funds were estimated based on the proportion of Watershed Area and municipality that lie within SMBNEP's study area (i.e., Santa Monica Bay watershed).*

Proposition 50 – Support of Action #3, #5, #12, and others

In 2002, California voters approved Proposition 50, known as the "Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002." The bond measure provided over \$3 billion dollars for water supply and water quality protection programs throughout the state. Since 2004, 16 projects recommended by SMBRC have been completed with Proposition 50 grants. SMBRC has approximately \$3.2 million remaining for project recommendations. On August 16, 2018, SMBRC's Governing Board adopted Resolution 18-02 which sets implementation of the Comprehensive Monitoring Program (CMP) and other monitoring needs identified in the CCMP as funding priorities for the remaining Proposition 50 Santa Monica Bay grant funds. Proposition 50 funds could

support several Next Steps of the Action Plan, including assessing coastal nearshore data gaps and habitat restoration projects (e.g., Actions #4 and #5), conducting monitoring to inform the CMP (e.g., Action #12), and assisting in the inclusion of climate change information into the CMP and CCMP (e.g., Action #36), among other Actions.

US EPA Section 320

SMBNEP recognizes that current (FY20) US EPA Section 320 funding is available at \$600,000 per year and intended to further the implementation of the CCMP Action Plan. Allocation levels are determined via appropriations processes at the federal government level and are directed to support individual annual Work Plans, which further delineate expenditures by CCMP Action category (e.g., Direct Management Actions). Thus, specific Next Steps within the Finance Plan may have additional funding support as determined by the annual Work Plans across the years encompassed by this Finance Plan and into the future.

Conclusion

This Finance Plan was intended to be a tool for assessing funding opportunities and needs for implementation of the 2018 CCMP Action Plan. The development of the Finance Plan relied on a collaborative and stakeholder-driven process including input from SMBNEP partners, members of the Management Conference, the public, and many others. SMBNEP recognizes the significant efforts of each stakeholder in implementing the Action Plan and hopes this document further assists stakeholders in achieving the collective goal of restoring and enhancing the Santa Monica Bay.

SMBNEP Finance Plan (2019)

Action #	CCMP Action	CCMP Next Step(s) / Project Activity Name	Lead Entity(ies)	Partner(s)	CURRENT / SECURED				NEEDS FOR IMPLEMENTATION				% Secured
					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
1	Acquire open space for preservation of habitat and ecological services	Continued participation on resources agency Technical Advisory Committees	SMBRC	Resources Agency	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$70,000	State Waterboards	1	\$70,000	0%
		Bond funded acquisitions	SMMC, SCC, CNRA, Wildlife Conservation Board	SMBRC, MRCA, NPS, State Parks, MRT, Trust for Public Land, CDFW	\$350,000	SCC Prop. 12	\$1,850,000	CNRA, SMMC (Prop 68), Los Angeles County	Unknown	State bonds and subsequent grant managers	1	Unknown	Unknown
		Support partners in identification and prioritization of key acquisition or conservation easement properties	SMBRC	SMMC, MRCA, NPS, State Parks, RCDSMM, MRT, CDFW	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$70,000	State Waterboards	2	\$70,000	0%
2	Restore kelp forests in the Bay to improve the extent and condition of the habitat	Implement the rocky reef/kelp forest restoration project	TBF	NOAA, MSRP trustees, NMFS, Vantuna Research Group, Commercial Sea Urchin Harvesters, CDFW	\$180,000	NFWF	None currently	None currently	\$1,600,000	NFWF, OPC, Prop 68, SCC, NOAA	2	\$1,780,000	10%
		Biological response monitoring of restoration areas	TBF	VRG, CDFW	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$300,000	CASeagrants, USC Seagrants, OPC, others	2	\$300,000	0%
		Develop recommendations for the deposition of materials from Rindge Dam or other suitable sources to augment sediment supply	State Parks	TBF, VRG, others, CDFW	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown

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		Conduct carbon sequestration assessment of kelp restoration project	TBF	CRI, other universities	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
3	Recover abalone populations in the Santa Monica Bay and region to support rare species and socioeconomic benefits to people	Establish abalone outplanting sites and conduct juvenile and larval outplanting	TBF	NOAA, NMFS, Cal Poly Pomona, SCMI, NFWF Bodega Marine Lab, SFSC, Paua Marine Research Group, CDFW	\$350,000	NOAA NMFS	Unknown	Scientific and diver support; equipment donated	\$100,000	NOAA NMFS, Propositions, others	3	\$450,000	78%
		Monitor abalone restoration and reference sites	TBF	NOAA, NMFS, Cal Poly Pomona, SCMI, NFWF Bodega Marine Lab, SFSC, Paua Marine Research Group, CDFW	\$350,000	NOAA NMFS	N/A	N/A	\$100,000	NOAA NMFS, Prop 50, others	3	\$450,000	78%
		Captive spawn abalone	TBF	SCMI, NOAA, NMFS, Cal Poly Pomona, CDFW, Bodega Marine Lab	\$50,000	NOAA NMFS	N/A	N/A	\$12,000	NOAA NMFS, others	3	\$62,000	81%
		Maintain aquaculture facility for abalone	TBF	SCMI, NOAA, NMFS, Cal Poly Pomona	\$300,000	NOAA NMFS	N/A	N/A	\$75,000	NOAA NMFS, others	3	\$375,000	80%

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4	Assess and restore seagrass habitats in the Santa Monica Bay and nearshore environments to benefit marine ecosystems and improve coastal resilience	Survey the extent and condition of seagrasses in the Bay using R2Deep2, side-scan sonar, and SCUBA divers to inform the Comprehensive Monitoring Program	TBF	SCC, CRI, VRG, others	Not currently funded	Not currently funded	\$10,000	Equipment donated, scientist support	\$500,000	Prop. 50	2	\$510,000	2%
		Develop restoration methods for eelgrass (<i>Zostera pacifica</i>) in the Santa Monica Bay	TBF	SCC, CRI, NOAA, CDFW, others	Not currently funded	Not currently funded	\$10,000	Equipment donated, scientist support, LMU match	\$50,000	SeaGrant, OPC, SCC, others	1	\$60,000	17%
		Conduct pilot restoration project(s) of offshore eelgrass in the Bay	TBF	SCC, CRI, NOAA, CDFW, others	\$320,000	SCC	\$25,000	Equipment donated, scientist support	\$700,000	SCC, NOAA, TNC, private, others	2	\$1,045,000	33%
		Evaluate restoration potential of seagrasses in the Bay, harbor, wetlands, and nearshore environments	TBF	NOAA, CRI, UCLA	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$150,000	SeaGrant, NOAA, OPC, SCC, others	2	\$150,000	0%
		Contribute to better understanding of <i>Ruppia maritima</i> habitat requirements and functions	TBF	CRI, UCLA, NOAA	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$25,000	SeaGrant, NOAA, OPC, SCC, others	2	\$25,000	0%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
5	Assess and implement offshore artificial reefs to benefit marine ecosystems and provide socioeconomic benefits to people	Implement rocky reef restoration project off Palos Verdes	VRG	SCMI, Vantuna Research Group, PV MSRP, NOAA, SCC, TBF, CDFW	\$1,150,000	SCC Prop. 12	\$5,850,000	Montrose Settlements Restoration Program	\$-	N/A	2	\$7,000,000	100%
		Annual monitoring with the use of side scan sonar and SCUBA based surveys	VRG	Vantuna Research Group, PV MSRP, NOAA, TBF, CRI	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$1,400,000	Prop 50, others	2	\$1,400,000	0%
		Preliminary work regarding the benefits of dynamic revetments and nearshore reefs	VRG	TBF, CRI, others	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Various research and implementation grants; municipalities, others	3	Unknown	Unknown
6	Restore coastal strand and foredune habitat to beaches and sandy shores to improve coastal resilience	Continue long-term monitoring of the Santa Monica Beach Restoration Pilot Project	TBF	CRI, City of Santa Monica, State Parks, Audubon	Not currently funded	Not currently funded	\$4,000	Volunteer events; scientist support; equipment donated	\$25,000	US EPA, Patagonia, CAL EPA grants, CNRA	2	\$29,000	14%
		Conduct Phase 1 (outreach and planning) and Phase 2 (implementation) of the Malibu Living Shoreline Project	TBF	City of Malibu, LACDBH, SCC, CRI, State Parks	\$200,000	SCC	\$100,000	Volunteer events; scientist and partner support; equipment donated	\$30,000	EPA, LACDBH, City of Malibu, SCC	2	\$330,000	91%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	% Secured
		Find funding for and implement another beach and bluff restoration project	TBF	City of LA, SCC, City of Manhattan Beach, City of Malibu, LACDBH, CDFW	\$237,000	SCC, Honda Marine Science Foundation	\$26,000	Volunteer events; scientist and partner support; equipment donated	\$400,000	SCC	3	\$663,000	40%
		Support efforts to standardize sandy beach monitoring and a regional approach to restoration	TBF	Beach Ecology Coalition, CRI, SCC, others	\$3,000	SCC, CRI	\$10,000	Volunteer events; scientist support; equipment donated	\$250,000	CRI, research grants, TBD	3	\$263,000	5%
7	Restore and maintain the entire LAX Dunes system to support native plants, wildlife, and rare species	Conduct community restoration events in the northern 48-acre dune area	TBF	LAWA, FOLD, SCC, CCC	\$15,000	LAWA	\$25,000	CRI interns; volunteer events	\$100,000	SCC, LAWA, others	3	\$140,000	29%
		Support LAWA in long-term maintenance and adaptive management of the 48-acre northern dune area	TBF	LAWA, LACC, RSABG, Psomas, CRC, IOEI, CDFW	\$420,000	LAWA	\$5,000	CRI interns; volunteer events; equipment donated	\$500,000	LAWA, restoration grants, others	3	\$925,000	46%
		Engage underserved students and volunteers and inland communities	TBF	LAWA, SCC, LACC	\$5,000	LAWA	\$5,000	CRI interns; volunteer events	\$50,000	SCC, LAWA, FOLD, others	3	\$60,000	17%
		Initiate planning for areas within the adjacent dunes, including baseline monitoring	TBF	LAWA, LACC, RSABG, Psomas, CRC, IOEI, CRI, CDFW, USFWS, WCS	\$60,000	LAWA, CDFW Section 6 grant	Unknown	CRI interns; scientists support; equipment donated	\$800,000	USFWS, LAWA, SCC, others	3	\$860,000	7%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
8	Restore coastal bluff habitats in the Bay watershed to support ecosystem services	Use Beach Bluff Restoration Master Plan to explore bluff restoration and continue recovery of El Segundo Blue Butterfly	TBF	USFWS, CDFW, LAWA, City of LA, Friends of Ballona, PVPLC, others	Not currently funded	Not currently funded	\$10,000	scientist support, partner support	\$150,000	USFWS, SCC, municipalities, Prop. 68, others	3	\$160,000	6%
		Identify partners and funding to support bluff restoration projects	TBF	PVPLC, State Parks, CDFW, many others	Not currently funded	Not currently funded	\$1,500	scientist support, partner support	\$15,000	USFWS, others	2	\$16,500	9%
		Initiate restoration of one bluff restoration project	PVPLC	SCC, TBF, City of LA, LACDBH, USFWS	\$200,000	SCC Prop. 12	\$280,000	NRCS, PVPLC, REI	\$100,000	Private donors, foundations	2	\$580,000	83%
		Initiate Pt. Dume stair replacement and bluff restoration project to benefit people and wildlife	State Parks	TBD	\$400,000	State Parks	N/A	N/A	None needed	None needed	1	\$400,000	100%
9	Implement Malibu Creek Ecosystem Restoration Project (Rindge Dam and other barrier removals) to support ecosystem restoration	Support lead agencies in efforts to complete the design and engineering plans for the Malibu Creek Ecosystem Restoration Project	State Parks, Army Corps	TBF, RCDSMM, CDFW, others	\$610,000	Wildlife Conservation Board	\$610,000	Army Corps	Unknown	State Waterboards	1	Unknown	Unknown
		Support lead agencies in identifying and obtaining funding for the project	State Parks, Army Corps	TBF, RCDSMM, CDFW, others	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	State Waterboards	2	Unknown	Unknown

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
10	Remove additional barriers to support fish migration and ecosystem services	Identify, prioritize, and acquire funding for barrier removal projects	RCDSMM, State Parks, NPS	CDFW, many	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$250,000	Proposition 1, others	2	\$250,000	0%
		Implement priority barrier removal projects	RCDSMM, State Parks, NPS	CDFW, many	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	North SM Bay IRWMP	3	Unknown	Unknown
11	Restore urban streams, including daylighting culverted streams, removing cement channels, and restoring riparian habitats	Identify additional urban streams for restoration and prioritize	State Parks, NPS	Municipalities, USC Sea Grant, others	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
		Implement urban stream restoration projects	Municipalities	many	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
12	Restore smaller coastal lagoons and other wetland types to increase wetland habitat area and condition throughout the watershed	Complete the final post-restoration assessment of the Malibu Lagoon Restoration and Enhancement Project	TBF	State Parks	Not currently funded	Not currently funded	\$5,000	State Parks, scientist support, equipment donated, volunteers	\$15,000	State Parks, Prop 50, others	1	\$20,000	25%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
		Finalize restoration planning and permitting for Topanga Lagoon restoration project and initiate project	State Parks	SCC, RCDSMM, CalTrans, LACBH, CDFW	\$717,500	SCC Prop. 12	\$200,000	RCDSMM, State Parks	\$1,200,000	CCC	3	\$2,117,500	43%
		Complete land acquisition, feasibility analyses, and restoration design in coordination with bridge redevelopment for Trancas Lagoon	State Parks	RCDSMM, CalTrans, Army Corps, CDFW	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$450,000	Propositions, others	3	\$450,000	0%
		Conduct comprehensive monitoring of small lagoons in northern Bay to inform CMP and seek funding to continue Malibu Lagoon monitoring	TBF	Moss Landing Marine Labs, SCCWRP, CRI, State Parks, RCDSMM	Not currently funded	Not currently funded	Unknown	CRI, universities, State Parks, RCDSMM, scientist support, volunteers	\$500,000	Prop. 50	3	\$500,000	0%
		Assess restoration options and priorities for other wetland types (e.g. freshwater systems)	City of Redondo Beach, municipalities	SCC, CNRA, CDFW, LA County, others	\$500,000	SCC	\$115,000	City of Redondo, South Bay Parkland Conservancy	Unknown	Prop. 50, CNRA, SCC, other propositions or agencies	3	Unknown	Unknown
13	Restore Ballona Wetlands Ecological Reserve to enhance wetland habitats and benefits to people	Support the lead agencies by contributing technical information to the Final Environmental Impact Statement and Report and permitting	CDFW	CDFW, Army Corps, TBF, LACFCD, SCC	Unknown	Unknown	Unknown	Scientist and agency support	\$2,000,000	Unknown	2	Unknown	Unknown

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		Continue community engagement and hand-restoration within the Reserve with FBW	TBF	CDFW, Friends of Ballona Wetlands, SCC, LACFCD, Heal the Bay	\$105,000	SCC, NFWF	Unknown	Volunteer events; scientist support; equipment donated	\$25,000	Volunteers, US EPA, TBD	2	\$130,000	81%
		Support lead agencies to identify and obtain restoration funding	CDFW	CDFW, Army Corps, TBF, LACFCD	Unknown	Unknown	Unknown	Agency and stakeholder support	Unknown	Unknown	Unknown	Unknown	Unknown
14	Implement wildlife crossings and other innovative projects for benefits to wildlife and people	Support lead agencies to find funding for Phase 2 of the Liberty Canyon Wildlife Crossing project	CalTrans, MRCA	RCDSMM, Assm. Bloom, SCC, SMMC, NWF, CDFW	\$400,000	RCDSMM	None currently	None currently	\$8,500,000	SCC, State Waterboards, propositions, others	2	Unknown	Unknown
		Support lead agencies in permitting and environmental review of Liberty Canyon Wildlife Crossing project	CalTrans, MRCA	RCDSMM, Assm. Bloom, SCC, SMMC, NWF, CDFW	Cost included in Next Step above	RCDSMM	None currently	None currently	Unknown	State Waterboards	2	Unknown	Unknown
		Identify additional locations for wildlife crossings	CalTrans, NPS	CDFW, many	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	State Waterboards	2	Unknown	Unknown

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15	Implement projects that improve understanding and/or enhance endangered and threatened species populations (e.g. habitat improvements for Western Snowy Plover, genetic banking)	Support Southern California Steelhead Trout genetic banking study	RCDSMM	NPS, State Parks, USFWS, CDFW, others	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$50,000	Proposition 50, others	2	\$50,000	0%
		Support restoration and monitoring activities to benefit California red legged frog populations	NPS	SCC, State Parks, RCDSMM, TBF, CDFW	\$202,000	SCC Prop. 12	\$340,000	NPS, Disney Conservation Fund, Santa Barbara Zoo	\$700,000	NPS, rare species grants, restoration grants	3	\$1,242,000	44%
		Support projects within western snowy plover critical habitat	TBF	LACDBH, City of Santa Monica, City of LA, City of Malibu, USFWS, CDFW, Audubon	Unknown	Unknown	Unknown	Agency and stakeholder support	\$100,000	USFWS, CDFW, Cal EPA, CNRA, City of Santa Monica, others	3	Unknown	Unknown

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16	Support the implementation of activities and projects such as those in Enhanced Watershed Management Plans (EWMPs) and activities identified in the TMDL implementation schedule to help achieve TMDL goals for 303d listed waterbodies in the Bay and its watershed	Continue to support implementation of projects identified in EWMPs and WMPs	SMBRC	SWRCB, municipalities, LACFCD, CDFW	\$22,500	State Waterboards	Unknown	Unknown	Unknown	State Waterboards, Measure W	2	Unknown	Unknown
		Continue implementation of LA IRWMP	LACFCD	SMBRC, others	Unknown	Unknown	Unknown	Unknown	Unknown	Measure W	2	Unknown	Unknown
		Facilitate other sources of State funding	SCC, State Waterboards	municipalities, LACFCD	Unknown	Unknown	Unknown	Unknown	\$90,000	State Waterboards	2	Unknown	Unknown

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Action #	CCMP Action	CCMP Next Step(s) / Project Activity Name	Lead Entity(ies)	Partner(s)	CURRENT / SECURED				NEEDS FOR IMPLEMENTATION				
					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	% Secured
17	Infiltrate, capture, and reuse stormwater and dry-weather runoff through green infrastructure, LID, and other multi-benefit projects and improve understanding of ecosystem services provided	Complete rain garden metal fate study with CRI	TBF	CRI	None currently	None currently	\$1,500	Scientist support	None needed	None needed	None needed	\$1,500	100%
		Complete additional LID projects throughout the watershed	Municipalities	City of LA, City of Torrance, LA County, other watershed cities, LA County, NPS	\$3,516,000	SCC Prop. 12	\$6,360,000	Helium Act Fund, NPS,	Unknown	Measure W	1	Unknown	Unknown
		Promote adoption of local ordinances to require projects in public right-of-way to mitigate stormwater	Municipalities	LACDPW, TreePeople, many	Unknown	Unknown	Unknown	Unknown	\$120,000	State Waterboards	1	Unknown	Unknown
		Seek funding and partnerships to conduct a cost-benefit analysis of LID projects	TBF	CRI, other universities	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$750,000	Prop. 50, Measure W	1	\$750,000	0%

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Action #	CCMP Action	CCMP Next Step(s) / Project Activity Name	Lead Entity(ies)	Partner(s)	CURRENT / SECURED				NEEDS FOR IMPLEMENTATION				% Secured
					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
18	Support installation and monitoring of additional sewage and bilge pumpout facilities in Southern California harbors	Continue quarterly monitoring of public sewage pumpout stations	TBF	CDBW, marina operators	\$30,000	CDBW-CVA	None currently	None currently	\$120,000	CDBW-CVA	3	\$150,000	20%
		Update CA Vessel Waste Disposal Plan	CDBW	TBF, SFEP	\$47,000	CDBW-CVA	None currently	None currently	None needed	None needed	None needed	\$47,000	100%
		Support installation of sewage pumpouts in Marina del Rey or King Harbor	TBF	CDBW, marina operators	\$3,750	CDBW-CVA	None currently	None currently	\$15,000	CDBW-CVA	3	\$18,750	20%
		Support installation of bilge pumpouts in Marina del Rey or King Harbor	TBF	marina operators	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$16,000	CalRecycle, municipalities	2	\$16,000	0%
		Support efforts of neighboring harbors in installation of bilge and sewage pumpouts in southern California	TBF	CDBW, marina operators	\$3,750	CDBW-CVA	None currently	None currently	\$15,000	CDBW-CVA	3	\$18,750	20%

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					CURRENT / SECURED				NEEDS FOR IMPLEMENTATION				
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19	Support minimization of biological impacts of water intake and discharge from coastal power generation and desalination facilities, including public engagement and education	Educate and increase public support of the state-wide desalination requirements	SWRCB	LARWQCB	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$200,000	State Waterboards; OPC; grants	1	\$200,000	0%
		Support development of alternative and advanced mitigation measures to minimize seawater intake by desalination	SWRCB	LARWQCB	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$500,000	State Waterboards; OPC; grants	1	\$500,000	0%
20	Support elimination of non-point pollution from onsite wastewater treatment systems	Complete sewer connections of residential properties to the centralized wastewater treatment facility in the Malibu Civic Center area	City of Malibu	LARWQCB	\$3,600,000	Private funds	\$66,000	Partner staff time	\$45,600,000	State Waterboards	1	\$49,266,000	7%
		Continue the coordinated OWTS identification, permitting, and inspection system between the LARWQCB and the cities and counties in the watershed	LARWQCB	Watershed municipalities	\$210,000	State Waterboards	None currently	None currently	\$740,000	State Waterboards	2	\$950,000	22%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	% Secured
21	Support policies that promote reuse, recycling, and advanced wastewater treatment to reduce reliance on imported water sources	Support recycled wastewater efforts by JWPCP of LACSD	LACSD	LACFCD, SMBRC	\$1,000,000	LACSD	None currently	None currently	\$4,000,000	LACSD	1	\$5,000,000	20%
		Hyperion Treatment Plant to implement pilot project for recycled water	LASAN	LACFCD, SMBRC	\$13,200,000	LASAN, LADWP, WBMWD	None currently	None currently	Unknown	Unknown	Unknown	Unknown	Unknown
		Support recycled wastewater efforts by Tapia Water Reclamation Facility and others through expansion of distribution system and regional partnerships	LVMWD, SCCWRP, UCLA	LACFCD, US Bureau of Reclamation, LV-Triunfo JPA, SMBRC	\$925,000	SCC Prop. 12	\$1,818,000	US Bureau of Reclamation, LV-Triunfo JPA	Unknown	Unknown	Unknown	Unknown	Unknown
22	Support policies and implement projects that divert landfill waste and encourage composting to improve water quality and lower greenhouse gas emissions	Support continuation of Table to Farm compost hubs	Schools	TBF, Social Justice Learning Institute, Restaurants, LA Compost, LA Food Waste Group	\$40,000	SoCalGas, US EPA Environmental Justice grant	\$22,000	Partner staff time	\$60,000	SoCalGas, CalEPA EJ grant, US EPA EJ grant, Strategic Growth Council, CalRecycle	3	\$122,000	51%

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Action #	CCMP Action	CCMP Next Step(s) / Project Activity Name	Lead Entity(ies)	Partner(s)	CURRENT / SECURED				NEEDS FOR IMPLEMENTATION				% Secured
					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
		Find funding for and implement an additional community composting hub in Santa Monica Bay watershed	TBF	Schools, Restaurants, LA Compost, LA Food Waste Group	\$10,000	SoCalGas	None currently	None currently	Not needed	Not needed	Not needed	\$10,000	100%
		Support expansion, outreach and implementation for residential and commercial organics collection and recycling	Municipalities	TBF, CalRecycle, LA Food Waste Group, LACDPW	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$1,000,000	TBD	3	\$1,000,000	0%
23	Facilitate development and adoption of natural stream and riparian protection policies, including restoration	Complete and adopt LA City stream protection policy	City of LA	Heal the Bay, Surfrider, TBF	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
		Inform other regional ordinances	Municipalities	CDFW, many	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
24	Support the inclusion of coastal resilience through natural means and softscape measures into local coastal plan updates	Attend stakeholder meetings for local cities LCP development / updates / implementation	Municipalities	LACDBH, TBF, Heal the Bay	Unknown	Unknown	Unknown	Unknown	Unknown	Private developers, others	3	Unknown	Unknown
		Opportunistically assist cities in the development of sea level rise vulnerability studies	Municipalities	USGS, TBF, CDFW	Unknown	Unknown	Unknown	Unknown	Unknown	Private developers, others	3	Unknown	Unknown

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					CURRENT / SECURED				NEEDS FOR IMPLEMENTATION				
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		Use data collected from beach restoration "soft-scape" projects to inform and assist LCP development	TBF	LACDBH, municipalities	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
25	Support best management practices, increased public access, and improved public facilities for beaches and other public trail systems to support both enhanced natural resources values and benefits to people	Support implementation of identified actions within plans such as the LACDBH Sea Level Rise Vulnerability Assessment	LACDBH, Municipalities	SCC, City of Los Angeles, City of Manhattan Beach, State Parks, TBF	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
		Support creation of increased public transit to and from beaches to enable access	City of Santa Monica, Municipalities	CCC, SCC, CDFW, others	\$11,200,000	City of Santa Monica local funds	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
		Continue to advise BMPs for beaches that promote habitat condition improvements and support for unique species	LACDBH	LACDBH, Pepperdine, Beach Ecology Coalition, beach managers, Audubon, TBF, CRI, USFWS, CDFW, Heal the Bay	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	% Secured
26	Participate in research, education, outreach, and policy on invasive species removal and control	Conduct New Zealand Mudsnail surveys	SMBRC	TBF	Unknown	Unknown	Unknown	Unknown	\$70,000	State Waterboards, grants	2	\$70,000	0%
		Attend and participate in Invasive Species Council of California (ISCC) and regional meetings focused on management of invasive species	SMBRC	CDFW	\$400	State Waterboards	Unknown	Unknown	\$35,000	State Waterboards, grants	2	\$35,400	1%
		Conduct additional studies and outreach efforts to control impacts of, manage, or reduce the sale of invasive species	SMBRC	TBF, CRI, CDFW, CalIPC, USFWS, Heal the Bay, others	Unknown	Unknown	Unknown	Unknown	\$250,000	State Waterboards, grants	2	Unknown	Unknown
27	Produce educational resources and materials and conduct outreach to improve best management practices for Southern California boaters (e.g. fuel, sewage, and hazardous waste management)	Produce educational materials	TBF	CCC, CDBW, SFEP	\$20,000	CDBW-CVA	\$4,000	Agency staff support	\$80,000	CDBW-CVA	3	\$104,000	23%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
		Conduct outreach	TBF	CCC, CDBW	\$163,500	CDBW-CVA	\$66,100	Agency staff support, discounts, cash match, volunteer time	\$654,000	CDBW-CVA	3	\$883,600	26%
		Manage Pumpout Nav app	SFEP	CDBW, TBF	\$4,000	CDBW-CVA	\$800	Developer discount	\$16,000	CDBW-CVA	3	\$20,800	23%
		Research public engagement metrics and specific engagement tools on reduction of pollutants to waterways	TBF	CCC, CDBW, CRI	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$5,000	EPA 320, municipalities, others	1	\$5,000	0%
		Find funding and implement fuel spill prevention tools and outreach	TBF	Fuel docks, marina operators, CCC, CDBW	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$40,000	11th Hour Racing Grant, Boat US, CalRecycle	3	\$40,000	0%
		Support and develop marine debris reduction and cleanup efforts	TBF	CCC, CDFW, marina operators	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$50,000	CCC Whale Tail Grant, Boat US, 11th Hour Racing Grant	2	\$50,000	0%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
28	Support efforts of disadvantaged communities to achieve healthy habitats, implement green infrastructure, and reduce pollution	Support WMPs and EWMPs to prioritize projects that produce multi-benefits	SMBRC, LACDPW	Municipalities, agencies, Our Water LA Coalition, Heal the Bay, others	\$12,500	Heal the Bay (foundation grant)	Unknown	Unknown	\$70,000	State Waterboards, Measure W, foundations	2	\$82,500	15%
		Utilize the Ballona Creek Greenway Plan to identify parcels in disadvantaged communities for implementation	Baldwin Hills Conserv.	City of Culver City, City of LA	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
		Support IRWMP and similar programs to preferentially invest in disadvantaged communities	SMBRC, LACDPW	LA County, other watershed cities	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$180,000	State Waterboards, Measure W	2	\$180,000	0%
		Support research efforts to quantify multi-benefits of green spaces to communities	SMBRC, LACDPW	LA County, other watershed cities, CRI	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$200,000	IRWMP (Prop. 1)	2	\$200,000	0%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	% Secured
29	Reduce health risks of swimming in contaminated waters and consuming contaminated seafoods through more comprehensive source control and, advanced monitoring and public notification	Continue implementation and improvement of beach water quality monitoring and reporting system	SWRCB	LARWQCB, LAC-DPH, Heal the Bay	\$300,000	Heal the Bay (foundation grant), State Waterboards	None currently	None currently	\$1,000,000	Heal the Bay, State Waterboards	2	\$1,300,000	23%
		Update fish contamination advisory and associated public education materials based on new data	OEHHA	State DPH, LAC-DPH	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
		Maintain and enhance the existing seafood contamination education and enforcement program	EPA Superfund	FCEC partners, Heal the Bay, US EPA	\$1,430,000	US EPA	\$800	SMBRC staff time	\$4,000,000	US EPA Superfund	3	\$5,430,800	26%
		Develop NowCast for freshwater systems to inform recreation (e.g. swimming holes)	Heal the Bay	LACDPH	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$500,000	Prop 1, municipalities	3	\$500,000	0%

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30	Conduct community engagement, education, and inform policies related to water conservation and reuse to reduce water demand and reliance on imported sources	Link water conservation with outreach events and social media	TBF, others	LADWP, MWD, municipalities, TreePeople, LAUSD, Heal the Bay, many	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
		Educate, engage communities, and provide resources that promote the importance of native plants	TBF, others	LADWP, MWD, municipalities, TreePeople, LAUSD, many	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
		Support efforts by water agencies to promote water conservation and reuse including dissemination of materials	LADWP, City of Santa Monica	LADWP, MWD, municipalities, TreePeople, LAUSD, many	\$1,700,000	City of Santa Monica local funds	N/A	N/A	Unknown	Unknown	Unknown	Unknown	Unknown
		Develop funding to support the expansion of best management practices to incorporate other business sectors	TBF, municipalities	businesses, TreePeople, LAUSD	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$100,000	municipalities	3	\$100,000	0%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
31	Achieve water quality benefits by businesses through community engagement and implementation of best management practices	Research contaminants, environmental laws, sustainability, pollution prevention standards, and BMPs for commercial businesses such as nurseries, landscapers, restaurants, and horse stables	TBF	CRI, universities, SCCWRP, others	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
		Distribute restaurant engagement tools	TBF	municipalities	Not currently funded	Not currently funded	\$150,000	Municipality and consultant staff time	\$50,000	LADWP, municipalities, US EPA, local or county funds	3	\$200,000	75%
		Develop funding to support the expansion of best management practices to incorporate other business sectors	TBF	municipalities, businesses	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$100,000	US EPA, Boat US, 11th Hour Racing	3	\$100,000
32	Reduce marine debris by supporting bans on single-use items, conducting outreach, and participating in trash reduction programs	Find funding for and continue ReThink Disposable LA	TBF	Clean Water Action/ Clean Water Fund, commercial businesses	\$15,000	Patagonia	N/A	N/A	\$250,000	Foundations, CCC, NOAA Marine Debris, Patagonia	3	\$265,000	6%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	% Secured
		Support municipality bans of polystyrene, non-recyclable plastics, and single use items	City of Santa Monica, LA County Chief Sustainability Office, LACDPW, other municipalities	TBF, Surfrider Foundation, Heal the Bay, 5 Gyres, Algalita, OPC, NOAA, USEPA, other stakeholders	\$112,000	Green Cities California, Urban Sustainability Director's Network, City of Santa Monica local funds, Heal the Bay (foundation grant)	N/A	N/A	\$448,000	Green Cities California, Urban Sustainability Director's Network, City of Santa Monica local funds, foundations	1	\$560,000	20%
33	Monitor microplastics (including microfibers) and other marine debris in the Bay and coastal environments to inform management actions	Complete the development of a microplastics in sediment extraction and analysis method	CRI, SCCWRP	TBF, SWRCB	\$749,000	SWRCB, SCCWRP	\$4,000	Scientist support, equipment donated	\$7,000	Grants	1	\$760,000	99%
		Publish a manuscript on the results of the Bay studies	CRI	TBF	Not currently funded	Not currently funded	\$4,000	Scientist support, equipment donated	None needed	None needed	1	\$4,000	100%
		Conduct additional studies to inform the transport, accumulation, and fate of microplastics in our marine and nearshore environments	CRI, SCCWRP	TBF	\$350,000	NOAA Marine Debris grant, SCCWRP	\$5,000	Scientist support, equipment donated	\$250,000	NOAA Marine Debris, others	3	\$605,000	59%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
34	Improve understanding of emerging contaminants through monitoring and research to inform source control and reduce loading (e.g. fire retardants), especially in the context of climate change	Conduct more studies to assess the effects of emerging contaminants on riparian and marine ecosystems and human health	SCCWRP	TBF, CRI, universities, LARWQCB, Physicians for Social Responsibility, Water Foundation, RCDSMM, State Parks	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$250,000	SWRCB, LARWQCB, others	3	\$250,000	0%
		Improve analytical methodology and standardize monitoring of more emerging contaminants	SCCWRP	SWRCB, LARWQCB, Physicians for Social Responsibility, Water Foundation	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$500,000	SWRCB, others	2	\$500,000	0%
		Enhance and expand existing educational programs and enforcement efforts to reduce the use and dispersal of emerging contaminants	municipalities, many	SCCWRP, LARWQCB, Physicians for Social Responsibility, Water Foundation	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
35	Monitor and inform management actions for Harmful Algal Blooms (HABs)	Continue to support research and monitoring efforts for HABs, especially in context of climate change and CMP implementation	SCCWRP, UCLA, UCSC, SCCOOS	CRI, JPL/NASA, SCCOOS	\$750,000	ECHAB	N/A	N/A	\$500,000	OPC, NOAA MERHAB program	2	\$1,250,000	60%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
		Conduct monthly maintenance of SCCOOS shore station at Santa Monica Pier and seek support for additional sensors	SCCOOS	LA Waterkeeper	\$20,000	US EPA, LASAN	\$10,000	TBF, Waterkeeper, SCCOOS personnel	\$150,000	Unknown	1	\$180,000	17%
		Improve public outreach and education on HABS	NGOs, coastal municipalities, others	CDFW, many	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
36	Monitor chemical, physical, and biological characteristics in the Bay to inform climate change impacts such as ocean acidification	Implement the Kelp Forest Hydrodynamic Study	UC Davis	TBF, CSU Northridge, UCLA IoES	\$120,000	USC SeaGrant	\$69,000	UC Davis and CSUN personnel, research vessel support, equipment	\$180,000	SeaGrant, OPC, SCC, others	2	\$369,000	51%
		Support OA sensor array maintenance, calibration, and data downloads in accordance with SOP	LACSD	SMBRC, LARWQCB, SCCWRP, TBF	\$12,000	US EPA	\$20,000	LACSD Marine Biology Lab and Reuse and Compliance Section staff time	\$80,000	LACSD Marine Biology Lab and Reuse and Compliance Section staff time	2	\$112,000	29%
		Support inclusion of climate change impacts into CMP, especially through new models and data	TBF	TAC, CRI, CDFW, many others	Not currently funded	Not currently funded	Not currently funded	Not currently funded	\$500,000	Prop. 50	3	\$500,000	0%

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	% Secured
		Convene technical advisors to prioritize actions based on information from CMP	SMBRC, TAC, universities, others	TAC	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
37	Increase understanding of deep water habitats such as submarine canyons, deep reefs, and outfall pipes	Conduct ROV surveys to collect physical, chemical, and visual data	TBF, CRI	TAC	Unknown	Unknown	Unknown	Unknown	\$400,000	Prop. 50, others	3	Unknown	Unknown
		Identify and apply emerging technology and techniques to better characterize Bay habitats, including recommendations	TBF, many	TAC, USC Sea Grant, SCMI, CRI, Blue Robotics, City of LA EMD, LA CO Sanitation Districts, CRI, Marauder Robotics, CDFW	Unknown	Unknown	Unknown	Unknown	\$1,500,000	Prop. 50, others	3	Unknown	Unknown
38	Monitor and improve understanding of rocky intertidal habitats to inform restoration actions	Support study recommendations and outreach efforts for improved protection	UCLA	CRI, MARINE	Unknown	Unknown	Unknown	Unknown	Unknown	SCC, Prop. 50, others	3	Unknown	Unknown
		Develop mitigation measures for rocky intertidal habitats, including restoration and enhancement of physical structure	UCLA	CRI, MARINE, CDFW, USFWS	Unknown	Unknown	Unknown	Unknown	Unknown	OPC, CCC, others	3	Unknown	Unknown

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					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
39	Monitor and inform effective management of Marine Protected Areas, Fishery Management Plans, and local fisheries for recreational and commercially important species	Support MDRA in their implementation of the youth and veteran fishing program	MDRA	TBF	\$25,000	MDRA	Unknown	Interns, volunteers	\$100,000	MDRA	3	\$125,000	20%
		Support MDRA in the completion of a halibut FMP	CDFW	OREHP HSWRI, MDRA	\$25,000	MDRA, OREHP	Unknown	Scientific support	\$25,000	OREHP	3	\$50,000	50%
		Continue opportunistic aerial surveys to track boating and vessel activity	MDRA	TBF	Unknown	Unknown	\$48,000	LightHawk volunteer pilots	\$100,000	Lighthawk	3	Unknown	Unknown
		Conduct MPA Watch to monitor and inform use of MPAs in the Bay	LA Waterkeeper, Heal the Bay	LA MPA Collaborative	\$65,000	Heal the Bay (foundation grant)	\$20,000	volunteers and community science participants	\$400,000	OPC, foundations	3	\$485,000	18%
40	Research and inform best management and pollution reduction practices to address non-point source pollution and facilitate reduction	Identify partners and identify funding sources for long-term monitoring efforts for LID and water conservation efforts	City of Santa Monica, many	LA County, municipalities, LACDPW, Our Water LA Coalition	\$60,000	City of Santa Monica local funds	None currently	None currently	\$240,000	City of Santa Monica local funds, Measure W	1	\$300,000	20%

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Action #	CCMP Action	CCMP Next Step(s) / Project Activity Name	Lead Entity(ies)	Partner(s)	CURRENT / SECURED				NEEDS FOR IMPLEMENTATION				% Secured
					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
		Implement monitoring programs for long-term monitoring and to inform effectiveness of LID/BMP implementation projects	many	TAC, CRI, municipalities, LACDPW, Our Water LA Coalition	Unknown	Unknown	Unknown	Unknown	Unknown	Measure W	3	Unknown	Unknown
41	Facilitate research, monitoring, and assessments that inform more accurate waste load allocations and development of new water, sediment, and biological objectives	Conduct or support monitoring and technical studies to characterize pollutant loading, impacts and effectiveness of pollutant control measures	SWRCB, LARWQCB, SCCWRP, UCLA	Watershed cities, others	Unknown	Unknown	\$1,000,000	SCCWRP and UCLA	\$1,000,000	Prop. 50, Measure W, OPC	2	Unknown	Unknown
		Conduct or support data collection for water quality objective development	SWRCB, LARWQCB	SCCWRP	Unknown	Unknown	Unknown	Unknown	\$1,000,000	Prop. 50	2	Unknown	Unknown
42	Inform strategies to reduce greenhouse gas emissions and increase carbon sequestration in support of existing state actions and policies	Research landfill diversion's reduction on greenhouse gas emissions and carbon sequestration due to compost application	TBF, many	many	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

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Action #	CCMP Action	CCMP Next Step(s) / Project Activity Name	Lead Entity(ies)	Partner(s)	CURRENT / SECURED				NEEDS FOR IMPLEMENTATION				% Secured
					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
		Conduct research to establish rate of carbon sequestration associated with key habitats in the Santa Monica Bay and its watershed	SCCWRP, UCI, UCLA, TBF	SCC, local cities, CRI, others	\$1,200,000	UCI, UCLA, SCCWRP via ARPA-E grant	N/A	N/A	\$150,000	Cal Air Resources Board, CAL EPA, AQMD grants, Cap and Trade Dollars, Transformative Climate Community	2	\$1,350,000	89%
		Identify projects or programs that will prioritize carbon sequestration and resilience	many	municipalities, CDFW, many	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
		Explore innovative concepts like sinking whale carcasses as potential opportunities for carbon sinks	LAC Lifeguards	many	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
43	Implement the County-wide Safe Clean Water Program to support stormwater pollution control projects (if approved by voters in 2018)	Support passage of Measure W, the Safe Clean Water parcel tax	SMBRC	many	Not currently funded	Not currently funded	Not currently funded	Not currently funded	None needed	None needed	None needed	None	100%
		Participate in advisory board and support implementation of projects from the new funding mechanism	SMBRC	LA County, municipalities	\$26,000	State Waterboards	Unknown	Unknown	\$180,000	State Waterboards, Measure W	3	Unknown	Unknown

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Action #	CCMP Action	CCMP Next Step(s) / Project Activity Name	Lead Entity(ies)	Partner(s)	CURRENT / SECURED				NEEDS FOR IMPLEMENTATION				% Secured
					SMBNEP (or Partner) Funding	Source	In-Kind Support	Support "Type"	5-Year Funding (Add'l)	Possible Funding Source(s)	Time-frame	Total Cost	
44	Support the development and implementation of a comprehensive regional sediment management plan for restoring natural hydrological functions of river systems and mitigating impacts from climate change	Convene meetings to initiate program development and identify opportunities	TBF, others	LACDPW, Army Corps, CCC, municipalities	Not currently funded	Not currently funded	Not currently funded	Not currently funded	Unknown	Unknown	Unknown	Unknown	Unknown
		Develop plans and/or update existing plans to promote sediment transport and deposition along the coast based on hydrodynamic modeling and analyses	TBF, others	USGS, CRI, USC Sea Grant, State Parks, CCC, SCC, CDFW	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
		Build capacity and conduct pilot projects to inform future actions and advance program development/design	TBF, others	USGS, CRI, USC Sea Grant, State Parks, CCC, SCC, CDFW	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
TOTALS					\$48,091,900	----	\$19,150,700	----	\$90,198,000	----	----	\$157,440,600	43%