Goal #1 – Improve water quality through treatment or elimination of pollutant discharges regulated under the current federal and state regulatory framework

Objectives

1.1 – Attain water quality goals in TMDLs adopted for 303(d) listed waterbodies in the Santa Monica Bay Watershed
1.2 – Eliminate and prevent water and sediment quality impairments from both point and nonpoint sources for waterbodies in the Malibu Creek Watershed
1.3 – Eliminate biological impacts of water intake and discharge from coastal power and desalination plants
1.4 – Eliminate all harmful discharges to Areas of Special Biological Significance (ASBS)
1.5 – Institute a reliable regional funding mechanism for storm water quality improvement
1.6 – Reduce and prevent non-storm water runoff from urban land uses
1.7 – Eliminate nonpoint pollution from on-site wastewater disposal systems (OWDSs)
Goal #1 - Improve water quality through treatment or elimination of pollutant discharges regulated under the current federal and state regulatory framework.
Goal #1 - Improve water quality through treatment or elimination of pollutant discharges regulated under the current federal and state regulatory framework.

Vulnerability (2050)

Objective

1.1 1.2 1.3 1.4 1.5 1.6 1.7

High Vulnerability

Low Vulnerability

Ocean Acidification
Sea Level Rise
Increased Storminess
Drought
Warmer Water
Warmer Temperatures
Goal #1 - Improve water quality through treatment or elimination of pollutant discharges regulated under the current federal and state regulatory framework.
Goal #2 – Improve **water quality** through pollution prevention and source control

**Objectives**

2.1 – Increase pervious surfaces and storm water infiltration where feasible by supporting green infrastructure
2.2 – Reduce generation of trash through restricting and reducing the use of disposable plastics and polystyrene products
2.3 – Reduce aerial deposition of storm water pollutants to the Bay and the Bay Watershed
2.4 – Reduce pollution from commercial and recreational boating activities
2.5 – Reduce discharge of trash, oil and grease, and other pollutants from commercial and other high density areas
2.6 – Sustain and expand annual Coastal Cleanup
2.7 – Increase public awareness through Public Involvement and Education (PIE) mini-grant program
Goal #2 - Improve water quality through pollution prevention and source control

Vulnerability (Current)
Goal #2 - Improve water quality through pollution prevention and source control

Vulnerability (2050)
Goal #2 - Improve water quality through pollution prevention and source control

Vulnerability (2100)
Goal #3 – Address potential impacts of emerging contaminants

Objectives

3.1 – Institutionalize monitoring of emerging contaminants
3.2 – Reduce loading of emerging contaminants in waterways
Goal #3 - Address potential impacts of emerging contaminants

Vulnerability (current)

- Ocean Acidification
- Sea Level Rise
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability

Low Vulnerability

Objective

3.1

3.2
Goal #3 - Address potential impacts of emerging contaminants

Vulnerability (2050)

- Ocean Acidification
- Sea Level Rise
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability

Low Vulnerability

Objective

3.1
3.2
Goal #3 - Address potential impacts of emerging contaminants

Vulnerability (2100)

- Ocean Acidification
- Sea Level Rise
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability

Low Vulnerability

Objective

3.1

3.2
Goal #4 – Create/support policies and programs to protect natural resources

Objectives

4.1 – Facilitate development and adoption of natural stream protection ordinances and/or policies
4.2 – Enhance assessment and effective management of Marine Protected Areas in the Bay
4.3 – Evaluate and establish additional management measures to improve protection of fishery resources
4.4 – Promote and create programs to increase the supply of healthy local sustainable seafood
4.5 – Evaluate and address potential impacts of climate change on Santa Monica Bay
4.6 – Facilitate and coordinate water quality improvement and habitat restoration programs in key subwatersheds
4.7 – Implement a Comprehensive Bay Monitoring Program
Goal #4 - Create/support policies and programs to protect natural resources

Vulnerability (Current)
Goal #4 - Create/support policies and programs to protect natural resources

Vulnerability (2050)

High Vulnerability

Low Vulnerability

Objectives:

4.1
4.2
4.3
4.4
4.5
4.6
4.7

Factors:

- Ocean Acidification
- Sea Level Rise
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures
Goal #4 - Create/support policies and programs to protect natural resources

Vulnerability (2100)

Objective

4.1
4.2
4.3
4.4
4.5
4.6
4.7

High Vulnerability

Low Vulnerability

Ocean Acidification
Sea Level Rise
Increased Stominess
Drought
Warmer Water
Warmer Temperatures
Goal #5 – Acquire land for preservation of habitat and ecological services

Objectives
5.1 – Acquire 2000 acres of priority open space in the Santa Monica Mountains
5.2 – Acquire priority parcels in urbanized areas of the watershed
Goal #5 - Acquire land for preservation of habitat and ecological services

Vulnerability (current)

High Vulnerability
Low Vulnerability

Objective

Ocean Acidification
SLR
Increased Storminess
Drought
Warmer Water
Warmer Temperatures
Goal #5 - Acquire land for preservation of habitat and ecological services

Vulnerability (2100)

- Ocean Acidification
- SLR
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures
Goal #6 – Manage invasive species

Objectives

6.1 – Achieve 303d listing for aquatic invasive species
6.2 – Coordinate and fund public education and outreach on invasive species
6.3 – Develop and adopt a plan and policies for invasive species control and prevention
6.4 – Prevent importation and sale of known invasive species
6.5 – Fund and conduct invasive species removal programs and projects
Goal #6 - Manage invasive species

Vulnerability (2050)

- Ocean Acidification
- Sea Level Rise
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability

Low Vulnerability

Objective 6.1 6.2 6.3 6.4 6.5
Goal #6 - Manage invasive species

Vulnerability (2100)

- Ocean Acidification
- Sea Level Rise
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability

Low Vulnerability

Objectives:

- 6.1
- 6.2
- 6.3
- 6.4
- 6.5
Goal #7 – Restore wetlands, streams, and riparian zones

Objectives

7.1 – Restore Ballona Wetlands
7.2 – Restore Malibu Lagoon
7.3 – Remove fish barriers and open 20 miles of stream habitat to migrating steelhead trout
7.4 – Restore urban streams, including daylighting culverted streams and removing cement channels
7.5 – Restore Topanga Lagoon
7.6 – Restore Oxford Lagoon to provide native species habitat, improved water quality, improved flood storage, and greater public access
7.7 – Restore Del Rey Lagoon to improve water quality and increase wetlands habitat and public access
7.8 – Restore Trancas Lagoon
Goal #7: Restore wetlands, streams, and riparian zones

Vulnerability (Current)
Goal #7 - Restore wetlands, streams, and riparian zones

Vulnerability (2100)

High Vulnerability

Low Vulnerability

Objective

Ocean Acidification
Sea Level Rise
Increased Storminess
Drought
Warmer Water
Warmer Temperatures
Goal #8 – Restore coastal bluffs, dunes, and sandy beaches

Objectives
8.1 – Restore native coastal bluff and upland scrub habitat
8.2 – Protect and manage sandy beach habitats
Goal #8 - Restore coastal bluffs, dunes, and sandy beaches

Vulnerability (current)

High Vulnerability

Low Vulnerability

Objectives:
- 8.1
- 8.2

Factors:
- Ocean Acidification
- SLR
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures
Goal #8 - Restore coastal bluffs, dunes, and sandy beaches

Vulnerability (2100)

- Ocean Acidification
- SLR
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability

Low Vulnerability

Objective 8.1

Objective 8.2
Goal #9 – Restore rocky intertidal and subtidal habitats

Objectives

9.1 – Restore and monitor sixty acres of kelp forest
9.2 – Protect and manage rocky intertidal habitat
9.3 – Re-introduce and restore abalone population
9.4 – Assess and protect seagrass habitats
Goal #10 – Protect and restore open ocean and deep water habitats

Objectives

10.1 – Update and expand knowledge of unique habitats within Santa Monica Bay
10.2 – Assess harmful algal blooms and its causes and impacts on the Bay’s ecosystem
Goal #10 - Protect and restore open ocean and deep water habitats

Vulnerability (Current)

- Ocean Acidification
- SLR
- Increased Stominess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability

Low Vulnerability

Objective
Goal #10 - Protect and restore open ocean and deep water habitats

Vulnerability (2050)

- Ocean Acidification
- SLR
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability

Low Vulnerability

Objective

10.1
10.2
Goal #10 - Protect and restore open ocean and deep water habitats

Vulnerability (2100)

- Ocean Acidification
- SLR
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability
Low Vulnerability

Objective
10.1
10.2
Goal #11 – Protect public health

Objectives

11.1 – Achieve minimum beach closures and postings at Santa Monica Bay beaches
11.2 – Develop and adopt new pathogen indicators and source identification tools
11.3 – Update seafood consumption and advisories and risk communication messages
11.4 – Maintain and enhance institutional control measures (enforcement, monitoring, and education) through coordination with partner agencies to reduce the risk of consumption of contaminated fish in high risk ethnic communities
11.5 – RemEDIATE contaminated sediments
Goal #11 - Protect public health

Vulnerability (2050)
Goal #11 - Protect public health

Vulnerability (2100)

- Ocean Acidification
- Sea Level Rise
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability

Low Vulnerability

Objective

11.1
11.2
11.3
11.4
11.5
Goal #12 – Maintain/increase natural flood protection through ecologically functioning floodplains and wetlands

Objectives

12.1 – Acquire and restore priority parcels to increase acreage of ecologically functioning floodplains and wetlands

12.2 – Develop and implement a comprehensive regional sediment management plan for restoring natural hydrological functions of river systems
Goal #12 - Maintain/increase natural flood protection through ecologically functioning floodplains and wetlands.
Goal #12 - Maintain/increase natural flood protection through ecologically functioning floodplains and wetlands

Vulnerability (2050)

- Ocean Acidification
- Sea Level Rise
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability

Low Vulnerability

12.1
12.2
Objective
Goal #12 - Maintain/increase natural flood protection through ecologically functioning floodplains and wetlands

Vulnerability (2100)

High Vulnerability

Low Vulnerability

Objective

12.1

12.2
Goal #13 – Increase public access to beaches and open space

Objectives

13.1 – Increase public access to the Santa Monica Mountains through purchase and enhancement of open space
13.2 – Increase acreage and access to parks and open space in urbanized areas through acquisition and conservation of private parcels
13.3 – Increase public access points to Ballona Creek and Wetlands
13.4 – Increase public access to Santa Monica Bay beaches
Goal #13 - Increase public access to beaches and open space

Vulnerability (current)

High Vulnerability

Low Vulnerability

Objective

13.1
13.2
13.3
13.4

Ocean Acidification
Sea Level Rise
Increased Stominess
Drought
Warmer Water
Warmer Temperatures
Goal #13 - Increase public access to beaches and open space

Vulnerability (2050)

- Ocean Acidification
- Sea Level Rise
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures
Goal #13 - Increase public access to beaches and open space

Vulnerability (2100)

High Vulnerability

Low Vulnerability

Objective

13.1  13.2  13.3  13.4

Ocean Acidification
Sea Level Rise
Increased Storminess
Drought
Warmer Water
Warmer Temperatures
Goal #14 – Conserve water and increase local water supply

Objectives

14.1 – Increase local water supplies
14.2 – Enhance water conservation
14.3 – Further increase wastewater recycling and reuse
Goal #14 - Conserve water and increase local water supply

Vulnerability (current)

- Ocean Acidification
- Sea Level Rise
- Increased Storminess
- Drought
- Warmer Water
- Warmer Temperatures

High Vulnerability

Low Vulnerability

Objective

14.1
14.2
14.3
Goal #14 - Conserve water and increase local water supply

Vulnerability (2100)