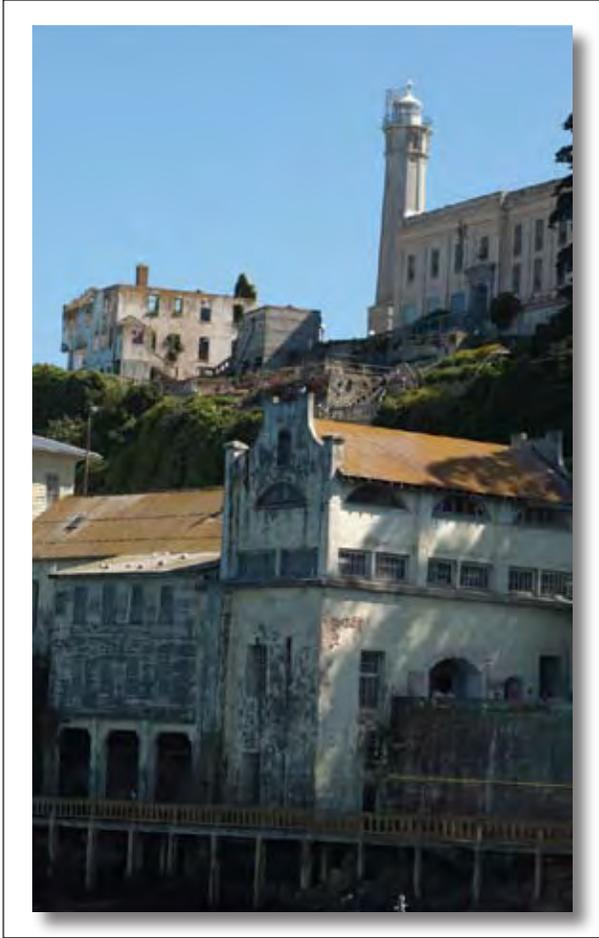


Actions Common to All Alternatives



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INTRODUCTION

2 While three different concepts for management are presented in the three action
3 alternatives described in this document, there is some overarching management direction
4 that will continue to guide the park and monument, regardless of the alternative selected.
5 Some of these actions have developed through time from the founding principles of the
6 park and monument; some are currently underway; and some are required by law or
7 policy. The actions discussed in this section will occur regardless of the management
8 alternative selected.

9

10

11

12

BOUNDARIES

2

3 The 1978 National Parks and Recreation Act (16 USC 1a-7) requires general
4 management plans to address potential modifications to the park boundaries. Park
5 boundaries are often initially drawn to reflect a wide range of practical considerations,
6 and they do not necessarily reflect natural or cultural resource features, administrative
7 considerations, or changing land uses. Current or potential changes in adjacent land uses
8 could pose threats to park resources and limit the staff's ability to strengthen the
9 fundamental resources that support the park purpose and significance.

10 Golden Gate National Recreation Area and Muir Woods National Monument are part of a
11 larger area of protected open space in the Bay Area. The natural and cultural resources of
12 the park would face a greater threat if not for the many other open space areas that
13 contribute to the integrity of coastal ecosystems, scenic beauty, recreational
14 opportunities, and the preservation of historic resources.

15

16

17 GOALS

18 The potential park boundary modifications would be guided by the following three major
19 goals:

- 20 1. Strengthen the diversity of park settings and opportunities supporting the park
21 purpose to encourage, attract, and welcome diverse current and future
22 populations while maintaining the integrity of the park's natural and cultural
23 resources.
24
- 25 2. Strengthen the integrity and resilience of coastal ecosystems by filling habitat
26 gaps, creating habitat links, providing for the recovery of special status species
27 and the survival of wide-ranging wildlife. In addition, boundary modifications
28 would restore natural processes and ecosystem capacity to respond to the effects
29 of climate change. Boundary adjustments would be guided by science-based
30 approaches that build on the goals of cooperative regional efforts.
31
- 32 3. Preserve nationally important natural and cultural resources related to the park's
33 purpose.
34

35 In addition to following this guidance, the park staff would play a partnership role in
36 regional land and marine area protection efforts. This role includes coordinating and
37 developing multiple strategies with adjacent public land managers and open space
38 organizations when land acquisition goals and objectives can be shared.

39 Any proposed boundary changes would be critically evaluated to confirm that such
40 actions contribute to achieving the park's mission and resource protection goals and that
41 the park is not accepting undue management burdens. Proposed land acquisitions must be
42 feasible to administer considering their size, configuration, costs, and ownership. In

1 addition, changes could be made if the land acquired was needed to address operational
2 and management issues, such as visitor access, or to have logical and identifiable
3 boundaries. The potential boundary modifications would continue to be made with
4 regional collaboration in mind, while working to strengthen and protect the park's
5 natural, cultural, recreational, and scenic resources.

6

7

8 **PROPOSED BOUNDARY ADJUSTMENTS**

9 Below are proposed boundary adjustments. Each meets NPS criteria for boundary
10 adjustments and is consistent with the goals stated above.

11

12 **Ocean Environment, San Mateo County**

13 In San Mateo County, the park's legislative boundary along the Pacific coast includes
14 about 10 miles of shoreline. Unlike in San Francisco and Marin counties, the boundary
15 does not extend beyond the line of mean high tide. The single exception is at the
16 Fitzgerald Marine Reserve where the boundary extends 0.25 mile offshore. The boundary
17 does not include sections of the coast that are densely settled, such as Pacifica, or areas of
18 private property except where the park has easements. This exclusion of offshore areas
19 restricts coordinated management of critical resources and visitor activities with the
20 National Oceanic and Atmospheric Administration, the Bureau of Land Management,
21 and California State Parks. Lack of a consistent boundary also poses difficulties in
22 coordinating with local public safety departments for visitor protection services, which
23 can complicate rescue and recovery efforts.

24 The proposed boundary adjustment would establish a consistent offshore boundary for
25 NPS lands in San Mateo County. The proposed boundary would extend 0.25 mile from
26 the line of mean high tide wherever the park's legislative boundary already extends to the
27 shore. Areas that are offshore of property that is not already in the park's legislative
28 boundary would not be included in this adjustment. See figure 3.

29 Management of the areas added to the park boundary would be guided by NPS Ocean
30 Stewardship policy and the primary management purposes identified in the California
31 state tide and submerged lands leases that the park retains over other portions of the
32 offshore ocean and bay environment in San Francisco and Marin counties. These
33 purposes include the following:

- 34 1. To enhance public safety, use, and enjoyment of the subject lands and waters.
- 35 2. To protect and conserve the environment and any cultural resources that may be
36 present.
- 37 3. To preserve the subject lands in their natural state and protect them from
38 development and uses that would destroy their scenic beauty and natural
39 character.
- 40 4. To provide for recreational and educational opportunities.

- 1 5. To consistently manage the subject lands with the administration and
2 management of Golden Gate National Recreation Area, so long as it is not
3 inconsistent with California state law.

4 In a separate action, the park could pursue additional state land leases in order to manage
5 tide and submerged resources within the park’s boundary in San Mateo County.

6

7 **Gregerson Property, San Mateo County**

8 Forming a long rectangle of about 207 acres, with three sides in common with the 4,200-
9 acre Rancho Corral de Tierra property, the Gregerson property was acquired by Peninsula
10 Open Space Trust in 2001. The property is largely undeveloped, with the exception of an
11 access road and residential structures. The road, which runs along the ridge, provides
12 access to the upper reaches of Rancho Corral de Tierra and would be critical for park
13 management purposes. In addition to supporting this operational need, the property
14 would simplify and reduce the length of the park’s perimeter, expand the area of habitat
15 for federally listed plant and animal species, connect wildlife habitats, support
16 recreational opportunities—including trail connections along the scenic ridgetop on an
17 existing narrow road—and protect remarkable scenic coastal views. The Gregerson
18 property addition has the same qualities as Rancho Corral de Tierra and would be
19 managed as part of the larger Rancho Corral de Tierra unit. The residence, with a
20 functioning well, septic system, and solar panel complex, could be retained for
21 environmental education, park operations, or other park purposes. Rancho Corral de
22 Tierra was added to the park boundary in 2005, through Public Law 109-131.

23

24 **Vallemar Acres – Part of Cattle Hill, San Mateo County**

25 The parcel consists of 60 acres of undeveloped land owned by the city of Pacifica. It is on
26 the southern, lower slope of Cattle Hill and extends to the property lines of residences on
27 the north side of Fassler Avenue. This parcel would be managed as part of the Cattle Hill
28 parcel. The area was determined appropriate for acquisition in the *Pacifica Boundary*
29 *Study* (NPS 1998) and is adjacent to lands with similar characteristics that were added to
30 the park in Public Law 106-350.

31

32 **Highway Frontage – Part of West Cattle Hill, San Mateo County**

33 This rectangular parcel consists of 5 acres of undeveloped land along Highway 1. It is
34 owned by the state and managed by Caltrans. It forms the western end of Cattle Hill. This
35 parcel would be managed as part of the larger adjacent Cattle Hill parcel. The area was
36 determined appropriate for acquisition in the *Pacifica Boundary Study* (NPS 1998) and is
37 adjacent to lands with similar characteristics that were added to the park in PL 106-350;
38 these lands could provide trailhead access to NPS managed lands at Cattle Hill and
39 Sweeney Ridge.

40

41

1 **McNee Ranch, San Mateo County**

2 This 625-acre former ranch property is a unit of the California state park system,
3 managed as part of Montara State Beach. The property is the only state park land adjacent
4 to the Golden Gate National Recreation Area that is not also within the federal authorized
5 boundary. Flanked by Rancho Corral de Tierra and land the National Park Service
6 anticipates it will receive from Caltrans following completion of the Devil's Slide
7 Tunnel, coordinated resource preservation and management of visitors to this property is
8 critical. The park includes a small trailhead at Highway 1, and a pedestrian bridge and
9 ranger residence near the equestrian center on Martini Creek in Rancho Corral de Tierra.
10 No other major structures are present. No major changes in management would likely
11 result if the land were added to the federal holding.

12 At present, visitors enjoy sweeping vistas of the Pacific Coast and rugged coastal hills
13 from a network of multiuse trails and unpaved fire roads. These routes connect Pacifica
14 with the coastside communities of Montara and Moss Beach, and lead to the highest
15 points on Montara Mountain. The Bay Area Ridge Trail and San Francisco Public
16 Utilities Commission are planning east-west trail connections that would better link the
17 bay with the ocean. The park has extensive biodiversity, especially on the serpentine soils
18 of the lower slopes where such endangered species as Hickman's potentilla (*Potentilla*
19 *hickmanii*) and San Mateo thornmint (*Acanthomintha duttonii*,) are found.

20

21 **Bolinas Lagoon**

22 Bolinas Lagoon is one of Marin County's most significant natural resources. Its 1,100
23 acres, known as the Bolinas Lagoon Open Space Preserve and managed by the Marin
24 County Open Space District, was designated a Wetland of International Importance by
25 the Ramsar Convention in 1998. Along with Drake's Estero and Tomales Bay, Bolinas
26 Lagoon provides an important coastal environment for fish, birds, and mammals that is
27 unparalleled along the northern California coast between the San Francisco and
28 Humboldt bays. Most of the eastern shoreline of the lagoon and portions of the adjacent
29 uplands and small tributary creeks that support federally endangered steelhead trout are
30 managed by the National Park Service. The Gulf of the Farallones National Marine
31 Sanctuary also encompasses Bolinas Lagoon with overlapping management authority
32 with Marin County and the National Park Service. Marin County, the National Oceanic
33 and Atmospheric Administration, and the Army Corps of Engineers are currently
34 developing plans for restoring natural processes and ecosystem integrity to the lagoon to
35 mitigate for past human activity in the watershed.

36

37

38 **POTENTIAL FUTURE BOUNDARY ADJUSTMENTS**

39 The National Park Service does not manage all the lands within the legislative boundaries
40 of Golden Gate National Recreation Area; there are public lands within the boundaries
41 that are managed by other agencies. Golden Gate National Recreation Area staff will
42 continue to monitor these lands and coordinate with these land managers in a way that
43 maintains and enhances the values that contributed to the lands being included in the

1 boundary. Some of these efforts could lead to eventual acquisition by the National Park
2 Service.

3 Several areas are of great interest to the National Park Service and appear to meet the
4 NPS criteria for boundary adjustments. The park would continue working with open
5 space partners to pursue protection of these properties, possibly including an NPS
6 boundary adjustment, guided by the goals expressed earlier.

7

8 **Priority Conservation Areas**

9 Four areas adjacent to the park were identified as Priority Conservation Areas through a
10 regional planning effort led by the Association of Bay Area Governments and
11 documented in *Golden Lands, Golden Opportunities* (Bay Area Open Space Council,
12 2009). Multiple strategies and multiple land managers could have a role in managing
13 these lands. At this time, no specific boundary adjustments are proposed by the park in
14 these areas (which are listed below). However, future studies are anticipated that would
15 evaluate which specific properties within these areas would be most appropriately
16 managed by the National Park Service.

17 ***Marin City Ridge, Marin County***

18 Undeveloped lands adjacent to the park's Marin Headlands unit could enhance protection
19 for the park's natural, scenic, and recreational resources while improving trail
20 connections into an underserved community. These sites were evaluated in a boundary
21 study in 2005 and determined appropriate for inclusion into the park.

22 ***Pacifica Conservation Area (South of Mussel Rock to McNee Ranch), 23 San Mateo County***

24 Disconnected, undeveloped parcels at the fringes of the Pacifica community could
25 enhance continuity of existing Golden Gate National Recreation Area lands, including the
26 park's trail links to the California Coastal Trail and Bay Area Ridge Trail and improve
27 natural resource corridors.

28 ***Montara Mountain Complex, San Mateo County***

29 Undeveloped parcels adjacent to Rancho Corral de Tierra could strengthen protection of
30 threatened and endangered species and contribute to the regional conservation efforts
31 focused on preserving large natural resources corridors and scenic beauty.

32 ***Gateway to the San Mateo County***

33 Comprising a large area of land between Rancho Corral de Tierra and Highway 92, this
34 area could contribute substantially to natural resource protection, the regional trails
35 network, and preservation of scenic and rural character.

36

37 **Other Potential Acquisitions**

38 ***Marin County Transportation Hub***

39 The park anticipates requesting the authority to extend the boundary to include a location
40 for a transit hub that would serve the Muir Woods shuttle. The hub would support

1 improved public access to Muir Woods and other nearby recreational areas, and reduce
2 congestion associated with recreational travel to west Marin County. This hub would
3 need to occur somewhere along the developed Highway 1-U.S. 101 transit corridor in
4 southern Marin County.

5 ***Upland Goals Conservation Areas***

6 A science-based approach towards identifying biologically important lands for protection
7 in the San Francisco Bay Area was developed by the Bay Area Open Space Council
8 (Weiss et al. 2008), with participation of NPS staff. The result is a network of
9 conservation areas based on computer models that strives to achieve conservation goals
10 for targeted vegetation types and individual species along with assessments of viability,
11 ecological integrity, and level of connectivity of conservation lands. The model output
12 identifies lands adjacent to the park that would help sustain diverse and healthy
13 communities of plant, fish, and wildlife resources in the nine-county Bay Area. Some of
14 these areas overlap with Priority Conservation Areas identified in the **FOCUS** study.

15 ***Stinson Beach Environs***

16 Currently undeveloped lands located near Panoramic Highway have been identified as
17 essential conservation areas and would help enhance the park's protection of contiguous
18 coastal biological resources.

19 ***Lower Redwood Creek***

20 Lands along the Redwood Creek corridor below its intersection with Highway 1 have
21 been identified as essential conservation areas and would help enhance the park's
22 protection of contiguous stream resources and associated threatened and endangered
23 species.

24 ***Nyhan Creek***

25 Lands along the Nyhan Creek corridor from its headwaters to the bay have been
26 identified as an essential conservation area and would help the park contribute to the
27 protection of contiguous stream resources within the region.

28 ***Mori-Milagra-Sweeney Connector***

29 Currently undeveloped lands in the Pacifica area have been identified as essential
30 conservation areas; their protection would help the park increase the long-term resiliency
31 of small natural areas such as Milagra Ridge as well as secure important habitat corridors
32 to facilitate species and community movements over time and space.

33 ***San Pedro Mountain and Rancho Corral de Tierra Environs, south to Highway 92***

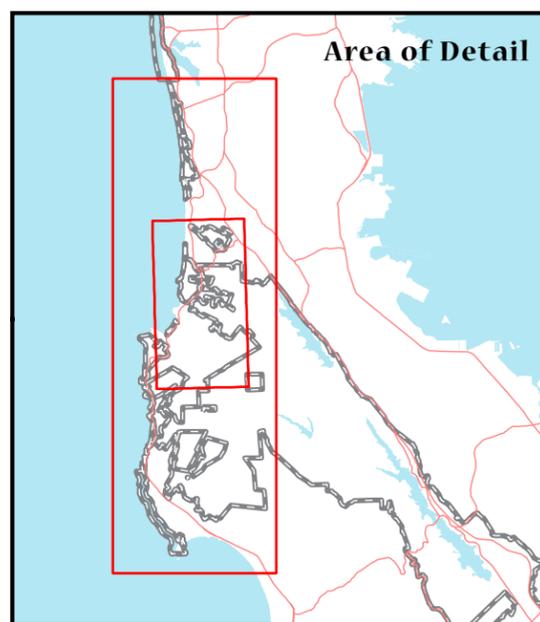
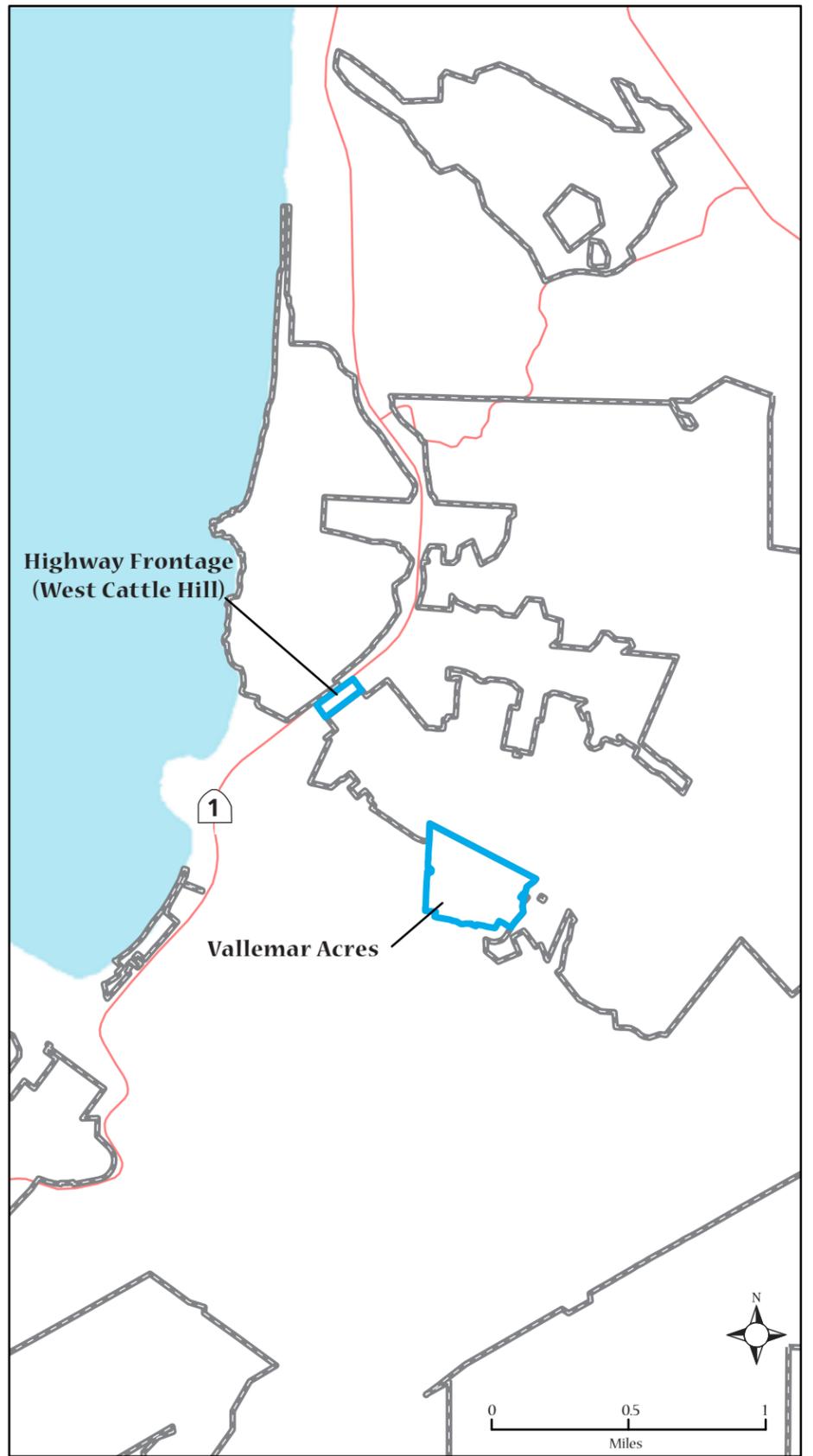
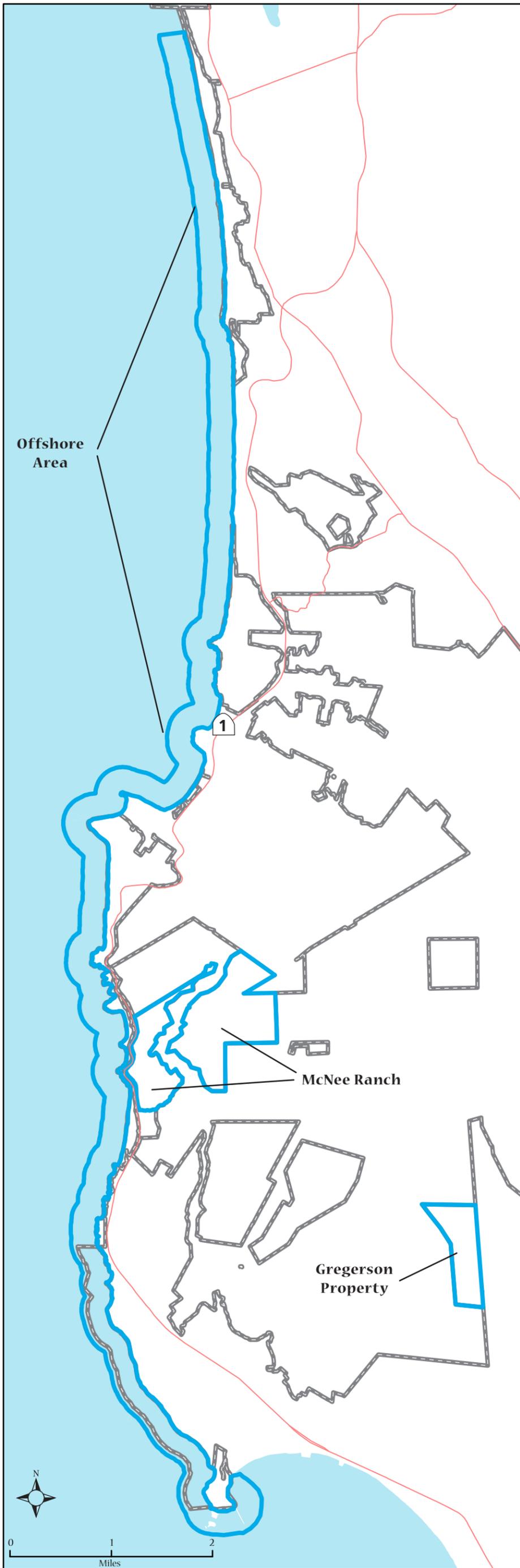
34 Currently undeveloped lands in the Montara, Moss Beach, and Half Moon Bay areas
35 have been identified as essential conservation areas; their protection would help the park
36 increase the core of protected lands along the spine of the San Francisco peninsula.
37 Similar to those in the Pacifica area, these protected areas would provide important
38 habitat corridors to facilitate species and community movements over time and space.

39 ***Undeveloped Land Adjacent to Sweeney Ridge and County of San Francisco Jail Property***

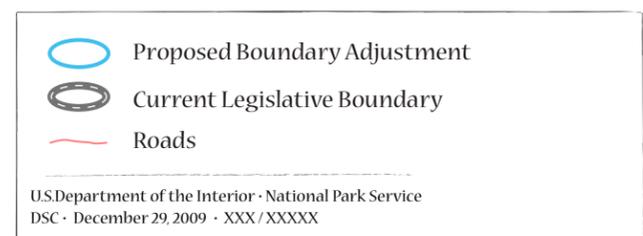
41 The property is adjacent to park land, sharing two sides with Sweeney Ridge. It contains
42 county jails #3 and #7, along with a plant nursery and cultivated fields. A large portion of
43 the 145-acre property, roughly 50 acres, is undeveloped and relatively undisturbed. This

PART 3: ACTIONS COMMON TO ALL ALTERNATIVES

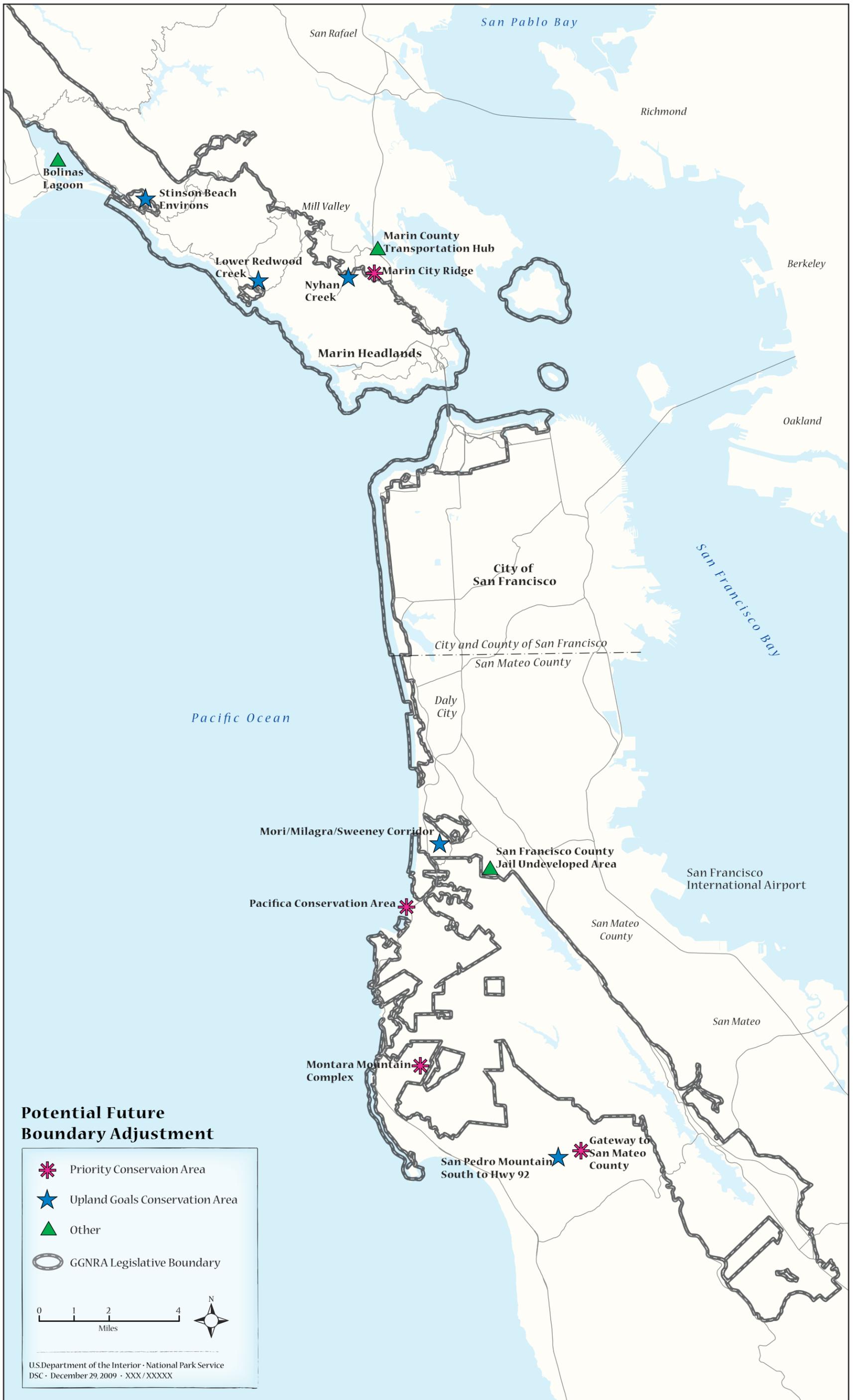
1 undeveloped area is contiguous with the extensive coastal ecosystems that the National
2 Park Service manages on Sweeney Ridge. It has similar scenic qualities and habitat
3 values, including potential habitat for threatened and endangered species. Inclusion of the
4 undeveloped area in the park's boundary would enable the National Park Service to
5 receive it, should the county government declare the property excess.
6
7



Proposed Boundary Adjustments



PART 3: ACTIONS COMMON TO ALL ALTERNATIVES



PART 3: ACTIONS COMMON TO ALL ALTERNATIVES

CLIMATE CHANGE

2

3 The National Park Service has developed goals to guide the way climate change would be
4 addressed. Sustaining and restoring park resources in the face of climate change will
5 require the National Park Service to address many challenges to the integrity of cultural
6 and natural resources. The *General Management Plan* describes the approach that the
7 park would take to reduce emissions, educate visitors on the topic, and adapt to the
8 effects of climate change during the next 20 years. In addition, the park maintains a
9 “Climate Change Action Plan” that outlines the actions that would be taken to
10 accomplish these broad goals.

11

12

13 GOALS

14 1. Reduce CO₂ Emissions

15 Become a carbon neutral park by 2016 by reducing the CO₂ emissions of NPS
16 and partner operations, increasing the use of renewable energy and other
17 sustainable practices, and reducing visitor emissions by lessening dependency on
18 personal automobiles.

19 National parks can demonstrate how to minimize their contribution to global
20 warming through practices such as energy efficiency and use of renewable
21 energy. Because emissions from visitor driving are estimated to contribute to
22 more than 90% of the park’s emissions, the park staff and partners would assist
23 in reducing visitor greenhouse gases by providing opportunities for alternative
24 transportation options.

25

26 2. Educate and Interpret

27 Help park visitors understand the process of global warming, climate change, the
28 threats to the park, and how they can respond. Visitors are inspired to action
29 through leadership and education.

30 Through the efforts of employees, partners, and educational and interpretive
31 media, the park staff can engage visitors on the topic of climate change, provide
32 the latest park research and monitoring data and trends, inform the public about
33 what response is being taken at the park, and inspire visitors to aid in that
34 response.

35

36 3. Assess Impacts and Respond to Changing Conditions

37 Proactively monitor, plan, and adapt to the effects of climate change by using the
38 best information as it becomes available.

1 Climate change is a global phenomenon, outside the control of the National Park
2 Service. The park cannot control the impacts of climate change on the park
3 through its own emissions reductions and education practices. However, the park
4 staff would do our part to improve conditions and demonstrate environmental
5 leadership.

6 NPS staff would use and promote innovation, best practices, and partnerships to
7 respond to the challenges of climate change and its effects on park resources. By
8 using and developing tools and monitoring methods, including seeking outside
9 assistance, the park staff can better respond to climate change. The park staff
10 would interpret climate change science and develop management strategies,
11 which may include predicting and projecting expected changes. The park staff
12 would coordinate with other agencies in developing tools and strategies to help
13 identify and manage climate change impacts. By adopting the best information
14 on climate change as it becomes available, the park staff would be positioned to
15 respond quickly and appropriately to the local effects of climate change.

16 The park staff may choose to use an adaptive management framework to respond
17 to the effects of climate change. Temperature and precipitation changes may
18 require that the park manages for native biodiversity and ecosystem function
19 instead of managing for natural communities. In most cases park managers would
20 allow natural processes to continue unimpeded, except when public health and
21 safety or the park's fundamental resources and values are threatened. Scenario
22 planning would likely play a pivotal role in developing the park's responses to
23 climate change.

24 The park staff would coordinate with neighboring communities while
25 implementing adaptation strategies that support the protection, preservation, and
26 restoration of coastal wetlands and coastal processes, and can serve as vital tools
27 in buffering coastal communities from the effects of climate change and sea level
28 rise.

29

30

31 **MANAGEMENT STRATEGIES**

32 To meet the above goals, a more detailed management approach would be developed.
33 The management approach would be an evolving process. The park staff would utilize
34 local, regional, and larger scale monitoring, modeling and mapping evaluations. Through
35 this data gathering, the park staff would identify and refine the assessment of park lands
36 and resources that are vulnerable to sea-level rise, extreme storms, and associated coastal
37 erosion. Predictions and observations of other climate change effects, including weather,
38 local climatic conditions, and phenology, would be gathered. Based on this information
39 combined with the results of targeted monitoring, park managers could position
40 themselves to respond and adapt according to changing conditions—a sort of early
41 detection system. The following approaches and management actions could be
42 implemented to respond to the effects of climate change on park resources:

43

1 **Natural Resources**

- 2 • Reduce current and future stressors to the resource and the environment; this
- 3 would improve the condition of the resource and build resiliency in the
- 4 ecosystem that would help to minimize future adverse effects of climate change.
- 5 • Collect and/or document resources that would be otherwise lost to the effects of
- 6 the climate change (e.g., fossils, unique geologic resources, unique biological
- 7 resources).
- 8 • Sustain native biodiversity.
- 9 • Reduce habitat fragmentation and increase habitat connectivity and movement
- 10 corridors.
- 11 • Restore and enhance habitats.
- 12 • Focus on ecosystem management and natural processes.
- 13 • Restore naturally functioning ecosystems.
- 14 • Manage for biological diversity.
- 15 • Minimize impact of invasive species.
- 16 • Plan for post-disturbance management.
- 17 • Employ adaptive management.
- 18 • Manage for realistic outcomes (triage).

19

20 **Cultural Resources**

- 21 • Reduce current and future stressors to the resource; this would improve the
- 22 condition of the resource and help to minimize future adverse effects from
- 23 climate change.
- 24 • Develop triage criteria that would assist the park staff in prioritizing preservation
- 25 treatments and other management actions. The decision on how to best treat a
- 26 resource facing potential adverse effects from climate change should be based on
- 27 (1) significance of the resource, (2) feasibility of the preservation action, (3) cost
- 28 of the treatment/action, and (4) confidence in the data used to determine potential
- 29 effects of sea-level rise or climate change on the resource.
- 30 • Give highest priority to preserving cultural resources and artifacts in situ, coupled
- 31 with sustainable efforts (intervention techniques) to mitigate and reduce any
- 32 stressors that might adversely affect the resource.
- 33 • Pursue managed retreat when the results of the triage process indicate that
- 34 preservation treatment or relocation is not practical.
- 35 • Pursue recordation and relocation of the resources with high significance and
- 36 technically and economically feasible treatment and relocation options, and
- 37 where there is high confidence in the predicted effects of sea-level rise or other
- 38 climate change impacts.

39

40

1 **Visitor Experience**

- 2 • Continue to provide a range of experiences by transitioning recreational use away
3 from locations where changes in resource conditions no longer support such uses.
- 4 • Remove existing visitor facilities and discontinue recreational uses where
5 continued use is unsafe, infeasible, or undesirable due to changing environmental
6 conditions.
- 7 • Evaluate and support changing visitor use patterns as appropriate.
- 8

FACILITIES NOT DIRECTLY RELATED TO THE PARK MISSION

3

4 Maintaining park facilities in acceptable condition is a continuing challenge that requires
5 a multitude of management strategies. The park manages 1,150 assets without the
6 funding required to do so adequately. Some of the facilities do not meet the needs of the
7 park and its partners, and therefore are unused and deteriorating.

8 The total assets of the park requires \$24.6 million in annual operations and maintenance;
9 yet, typically, only \$5.3 million has been allocated towards that need. This leaves a gap
10 of nearly \$20 million of maintenance need unfunded each year. Related to the inability to
11 fund all maintenance needs is the \$198.1 million in deferred maintenance backlog related
12 to park and partner assets. The \$6.0 million typically allocated from special project
13 funding each year for this need does not adequately reduce the deferred maintenance
14 backlog.

15 This general management plan proposes to remove assets that are in poor condition and
16 are not contributing to the preservation of natural or cultural resources or supporting the
17 visitor experience. Disposal of unneeded assets would allow funding and staff resources
18 to be redistributed to higher value assets.

19 While building the GMP alternatives, the planning team identified facilities that did not
20 contribute to the park mission. Further evaluation with an interdisciplinary team led to the
21 identification of assets proposed for removal and the development of the following
22 strategies. Before any facility would be scheduled for removal, appropriate National
23 Environmental Policy Act and National Historic Preservation Act determinations would
24 be completed.

25 The management team will continue to monitor and identify facilities not needed for
26 implementation of the selected alternative in an effort to bring assets to acceptable
27 conditions and to sustain those conditions over time.

28

29

GOALS

- 31 • Address the gap between maintenance funding and maintenance needs through
32 reducing the number of park assets that require ongoing maintenance
- 33 • Continue to address deferred maintenance by reducing the number of park assets
- 34 • Support asset management strategies identified in the park asset management
35 plan
- 36 • Enhance the preservation of natural and cultural resources, support the visitor
37 experience, and support park and partner operational needs through asset removal

38

39

1 **MANAGEMENT STRATEGIES**

2 1. Muir Woods National Monument Maintenance Facilities

3 The park staff has identified inefficient and deteriorating structures to be
4 removed from the monument. Removal would allow for further natural resource
5 restoration and a reduced development footprint consistent with the action
6 alternatives. Through these actions, there is potential for deferred maintenance
7 reductions of \$40,000.

8

9 2. Camino del Canyon and Conlon Avenue Structures

10 The park staff has proposed removal of deteriorating structures that do not
11 significantly contribute to cultural resource preservation. Removal would be in
12 concert with natural resource restoration objectives, including habitat restoration,
13 and restoration of the natural functioning of the tributary creek. Through this
14 action, there is potential for deferred maintenance reductions of \$210,000.

15

16 3. Lower Redwood Creek and Tennessee Valley Structures

17 Facilities that do not support the park mission and some that are in deteriorated
18 condition were identified for removal. Removal of these structures would allow
19 for extensive natural resource restoration, including a return of natural watershed
20 processes, preservation of outstanding natural features, and protection of
21 threatened and endangered species like the Coho salmon and red legged frog.
22 Riparian areas adjacent to Tennessee Valley would also be enhanced through
23 facility removal. Through this action, there is potential for deferred maintenance
24 reductions of \$600,000.

25

26 4. Structures in Marin County park lands, including Capehart housing

27 Housing and associated sheds and outbuildings north of Bunker Road were
28 identified for removal to improve the scenic entrance to the Rodeo Valley. Other
29 structures were identified for removal in support of the cultural landscape and for
30 habitat restoration. Through this action, there is potential for deferred
31 maintenance reductions of \$670,000.

32

MAINTENANCE, PUBLIC SAFETY, AND MUSEUM STORAGE FACILITIES

3

4 Park maintenance, public safety, and museum collections storage functions are scattered
5 throughout the park at sites and facilities that in many cases were not intended for these
6 uses. These functions have had to adapt to conditions that do not adequately meet their
7 space, size, function, mobility, and security requirements. Maintenance and public safety
8 operations have also had to move numerous times, requiring them to reprogram their
9 operations each time, resulting in many inefficiencies. Locating the park's museum
10 collection in multiple storage facilities jeopardizes long-term preservation and restricts
11 the collection's availability for research, education, and interpretive programming, thus
12 limiting its usefulness to the public and park personnel.

13 The following section proposes a comprehensive approach to building and facility uses
14 necessary to meet the existing and projected needs of these operational functions in
15 conjunction with all draft alternatives. The actions proposed are based on a thorough
16 analysis of park programs and facilities, including the possibilities for locating functions
17 outside park boundaries. The park has other operational facilities such as staff offices,
18 housing, native plant nurseries, and horse patrol facilities. The locations of these facilities
19 vary among the alternatives and are addressed in the description of the alternatives.

20

21

GOALS

23 The large scale of the park, with sites distributed across three counties, poses a distinct
24 challenge to providing facilities for maintenance and public safety operations. Over the
25 years, a system organized around centralized facilities supported by smaller satellite sites
26 has been an effective and successful means to manage the park. It is proposed to continue
27 this organizational concept, but to more permanently establish the locations of the
28 centralized facilities. This will allow the park to gain efficiencies through consolidation
29 of some functions in central facilities and still retain the flexibility to meet dispersed
30 maintenance and safety needs through the satellite offices.

31

32

MANAGEMENT STRATEGIES

Centralized Maintenance Facilities

35 Three new maintenance facilities would be established in the park. North of the Golden
36 Gate Bridge, a new centralized facility would be constructed in part of the Capehart
37 housing area of the Marin Headlands. This new facility, about 45,000 square feet in size,
38 would be a state-of-the-art, environmentally sustainable complex that would
39 accommodate the park's Buildings and Utilities, Roads, and Marin Grounds functions.
40 The project would include the demolition of selected housing units and new construction

1 of shops, offices, covered storage, parking, and work yards. Maintenance operations
2 presently located in Fort Baker (Building 513) and Fort Cronkhite (Buildings 1046, 1070,
3 Nike missile launch site) would be relocated to this new facility.

4 South of the Golden Gate Bridge, the National Park Service would rehabilitate one of the
5 buildings in the Presidio that formerly served as stables for the U.S. Cavalry to house the
6 centralized maintenance functions for Area A, the part of the Presidio for which the Park
7 Service is responsible. Reuse of the cavalry stables building would be contingent upon an
8 agreement between the National Park Service and the Presidio Trust. Existing NPS
9 maintenance operations currently spread among several Presidio buildings would be
10 consolidated at the former stables site.

11 At Muir Woods National Monument, essential public safety and maintenance functions
12 would continue to be located near the monument entrance. These functions could remain
13 in existing structures or be incorporated into the new welcome center. However, the other
14 maintenance operations would move from the Old Inn and lower Conlon Avenue areas to
15 a new facility shared with California State Parks in Kent Canyon. This action is
16 dependent upon an interagency agreement with California State Parks.

17

18 **Public Safety Hub**

19 A single centralized operational hub would be developed at Fort Baker to meet park law
20 enforcement needs. These functions would be located in Building 507. Park wildland fire
21 functions (offices, garaged vehicles, and fire caches) would be relocated from Fort
22 Cronkhite Buildings 1068 and 1069. These functions would move to the former Nike
23 missile launch site near the Marine Mammal Center that would be vacated by the current
24 Roads operation. The historic fire station would remain at Fort Cronkhite. Dispatch and
25 communications operations that serve the park and the Presidio would remain at Presidio
26 Building 35 in the Main Post area.

27

28 **Satellite Offices**

29 A well distributed system of park operations satellite offices already exists in Marin
30 County and San Francisco County park lands. These sites would need minor
31 improvements to function more efficiently. Satellites would be extended into San Mateo
32 County by adapting existing park sites for these uses, or through partnerships with other
33 agencies. Typically, each satellite site may have the capacity to collocate functions from
34 several different divisions. The following is a list of satellite locations:

- 35 • Stinson Beach – No change is anticipated to the scale of the office, which serves
36 both maintenance and public safety functions.
- 37 • Marin Headlands – Law enforcement would continue to have access to offices
38 used by the wildland fire program in Fort Cronkhite .
- 39 • Presidio of San Francisco – Public safety would continue to have access to
40 offices by the U.S. Park Police.
- 41 • Alcatraz Island – Public safety offices would remain in Building 64, and
42 maintenance facilities would be expanded in the rehabilitated Quartermaster
43 Warehouse.

- 1 • Fort Mason – Maintenance and public safety would continue to have
2 administrative offices at park headquarters in Fort Mason. Grounds maintenance
3 facilities would remain.
- 4 • Fort Miley –Maintenance and public safety facilities would continue at East Fort
5 Miley.
- 6 • Fort Funston –The existing public safety and maintenance offices would remain. A
7 small building for heavy equipment would be constructed.
- 8 • San Mateo County north of Devil’s Slide –Maintenance and public safety offices
9 could be located at the current Sheldance nursery area or at San Pedro County
10 Park in Pacifica.
- 11 • San Mateo County south of Devil’s Slide– A new satellite office for maintenance
12 and public safety offices would be developed at a location yet to be determined.

13
14

15 **GOALS FOR MUSEUM STORAGE FACILITIES**

16 The park’s museum collection would be consolidated into two neighboring buildings in
17 the Presidio that formerly served as stables for the U.S. Cavalry. The buildings would
18 provide adequate space for the collection, and their rehabilitation would meet national
19 standards for security, fire protection, and environmental control. This facility would also
20 provide public space for exhibits and programs that engage visitors in memorable and
21 meaningful learning opportunities based on the collection. This action is dependent upon
22 an interagency agreement with The Presidio Trust.

23
24

NATIVE AMERICAN ENGAGEMENT

2

3 Since the late 1990s, the NPS staff has worked with the Federated Indians of Graton
4 Rancheria (the federally recognized tribe comprised of park-associated Coast Miwoks
5 and Southern Pomo), with the many Ohlone tribes seeking federal recognition, and with
6 Ohlone individuals who partake in the stewardship of Ohlone heritage. Park lands in
7 Marin County are the aboriginal homelands of Coast Miwoks. Park lands in San
8 Francisco and San Mateo counties are the aboriginal homelands of Ohlones. The park
9 staff would continue to work with Coast Miwoks and Ohlones in the three broad activity
10 areas in which it has worked with them to date: cultural resource management,
11 interpretation and education, and revitalization of community and tradition.

12

13

14 GOALS

15 1. Survey, Identify, and Inventory Archeological and Ethnographic Sites

16 The park staff, together with tribal representatives, would continue to conduct
17 fieldwork to survey, identify, and inventory archeological and ethnographic sites, as
18 well as test, record, and preserve these sites.

19 American Indians are permitted by law, regulation, or policy to pursue customary
20 religious, subsistence, and other cultural uses of resources with which they are
21 traditionally associated. Recognizing that its resource protection mandate affects this
22 human use and cultural context of park resources, the National Park Service would
23 plan and execute programs in ways that safeguard cultural and natural resources
24 while reflecting informed concern for the contemporary peoples and cultures
25 traditionally associated with them.

26

27 2. Work with Park-Associated Native People on a Range of Interpretive and 28 Educational Activities

29 The park would continue to work with park-associated native people on a range of
30 interpretive and educational activities. These activities could include Indian-led
31 interpretive programs offered throughout the park, permanent and temporary exhibits
32 on native history and culture, annual commemorative festivals with native
33 components, teacher trainings on Native American curricula, and participation of
34 native people on visitor center advisory boards.

35

36 3. Continue to support the Revitalization of Coast Miwok and Ohlone Communities and 37 Traditions

38 The park would continue to support the revitalization of Coast Miwok and Ohlone
39 communities and traditions. Native people would continue to conduct religious
40 activities in the park, gather natural materials for use in traditional crafts, participate

1 in the study of native histories and genealogies, and work with the park staff on
2 ethnographic landscape restoration efforts.

3

4

5 **MANAGEMENT STRATEGIES**

6 To provide direction for these activities, the National Park Service would work to
7 establish and implement a set of protocols that would institutionalize the way that park
8 staff engages Native Americans in the park. Each protocol agreement would be tailored
9 to the specific type of relationship that the National Park Service and the tribe have
10 developed or are in the process of developing. Protocols and agreements could be
11 developed that may include the following elements or stipulations:

- 12 1. government-to-government relationship with the tribe by first contacting or
13 notifying the tribal chair when issues arise
- 14 2. contacts by the park superintendent (or designated staff) with specific tribal
15 representatives or tribal council office(s) designated by the tribal council or tribal
16 chairperson to deal with specific park proposals (or issues) that may arise (The
17 agreement should include a list of the types of proposed NPS activities for which
18 the tribe would like to be contacted.)
- 19 3. routine notification of appropriate tribal officials (designated by the tribal council
20 or tribal chairperson) by the park regarding park planning, project development,
21 or environmental impact assessments (Appropriate methods for this preliminary
22 notification should be summarized in the agreement—e.g., letter, telephone
23 contact, meeting with tribal chair, cultural committee, tribal council.)
- 24 4. meetings between park management and the tribe on a periodic basis to review
25 upcoming park plans or projects that may impact American Indian resources in or
26 near the park (e.g., once a year, once every six months)
- 27 5. exchange of information and research results, and technical assistance between
28 the National Park Service and the tribe
- 29 6. timeframe for responding to oral and written communications
- 30 7. steps for resolving disputes (e.g., alternative dispute resolution processes, third
31 party mediation, or mediation by the NPS regional director or Native American
32 Affairs Office director)
- 33 8. process for amending or modifying the agreement
- 34 9. time period in which the agreement would remain in effect
- 35 10. process for ending or canceling the agreement

36

OCEAN STEWARDSHIP

2

3 This section of the general management plan articulates an ocean stewardship policy that
4 is based on and intended to support the Pacific West Region's strategic plan. The
5 strategies and objectives included below are targeted at addressing the unique needs of
6 Golden Gate National Recreation Area's ocean resources. The park would develop an
7 implementation plan that would contain specific actions intended to achieve the measures
8 included below.

9 With its boundary extending a quarter of a mile offshore, Golden Gate National
10 Recreation Area manages miles of coastline and the associated marine and estuarine
11 resources inside San Francisco Bay and along the outer coast. The park holds a lease
12 from the State Lands Commission for management of tidelands and submerged lands
13 within the park boundary to 1000 feet offshore. In certain areas, the park shares
14 overlapping management authority with the Gulf of the Farallones and Monterey Bay
15 National Marine Sanctuaries (NMS).

16 Ocean resources, including natural marine resources and submerged cultural resources,
17 are at risk due to a variety of threats. Climate change will cause sea level rise, changing
18 storm patterns, and ocean acidification. Natural sediment transport, which affects
19 shoreline and beach dynamics, is affected by sand mining, dredging, dredge disposal,
20 shoreline stabilization structures, and altered flow regimes such as dams. Overflights,
21 boats, and other uses of marine habitats cause disturbance to marine species. Invasive
22 exotic species inhabit the park's ocean and estuarine waters, displacing native species.
23 Recreational and commercial fisheries may impact nearshore fish populations and
24 ecosystem dynamics. Water quality is threatened by pollution from runoff, landslides,
25 shoreline development, sewage outfalls, vessel traffic, oil spills, and contaminants
26 exposed from dredging. Potential wave and tidal energy developments may alter habitat
27 and disrupt physical processes.

28 Effective management of the park's natural and cultural ocean resources requires a
29 strategic approach. In 2006, the National Park Service developed an Ocean Park
30 Stewardship Action Plan (NPS 2006) to respond to the issues and threats described
31 above. The next year, in 2007, the Pacific West and Alaska Regions of the National Park
32 Service developed a strategic plan for Pacific Ocean parks (NPS 2007), which provided
33 guidance and implementation details for achieving the goals of the Servicewide plan.

34

35

36 GOALS AND MANAGEMENT STRATEGIES

37 In order to be an effective steward of the park's natural and cultural ocean resources, park
38 staff must research, monitor, and protect these resources, expand current and explore new
39 partnerships with other agencies and organizations, and communicate an ocean
40 stewardship message to visitors, park managers, and the public. To accomplish this, park
41 staff must develop a plan and then pursue funding and leverage partnerships.

1 **Goal 1. Support a Seamless Network of Ocean Parks, Sanctuaries, Refuges, and**
2 **Reserves**

3 In order to effectively and efficiently manage the park's ocean resources, park staff must
4 work with other agencies that have shared goals and objectives for marine resource
5 protection. This local network currently includes Gulf of the Farallones National Marine
6 Sanctuary, Monterey Bay National Marine Sanctuary, Cordell Bank National Marine
7 Sanctuary, Point Reyes National Seashore, Farallon National Wildlife Refuge, Bolinas
8 Lagoon Open Space Preserve, James V. Fitzgerald Marine Reserve, and portions of
9 California Coastal National Monument.

10 Strategy 1.1. To ensure that the network is seamless in practice, park staff will work
11 to expand current collaboration and strengthen communication with federal, state,
12 and local agencies with overlapping and adjacent jurisdiction and with
13 nongovernment organizations for management of ocean resources.

14

15 **Goal 2. Inventory, Map, and Protect Ocean Parks**

16 In collaboration with other agencies and organizations managing ocean resources, park
17 staff will further develop their understanding of the park's natural and cultural ocean
18 resources.

19 Strategy 2.1. Through collaboration with other agencies and organizations, the park
20 will continue to conduct and support regional baseline inventories, monitoring, and
21 mapping of marine and estuarine resources.

22 Strategy 2.2. Park staff will identify and quantify threats to marine resources,
23 including those associated with climate change and land- and water-based activities.

24 Strategy 2.3. Through the establishment of sensitive resource zones and special
25 closure areas, the park will protect the most sensitive biological resources from
26 disturbance.

27 Strategy 2.4. Park staff will engage in restoration of estuarine and coastal wetland
28 habitats and will assess new restoration opportunities in response to changes from
29 climate change.

30 Strategy 2.5. Park staff will continue to work with the State Lands Commission to
31 obtain additional state lease of all tidelands and submerged lands within the park's
32 legislated boundary.

33 Strategy 2.6. Park staff will pursue the necessary authorization to correct coastal
34 boundary deficiencies with respect to mean high tide line.

35 Strategy 2.7. Park staff will increase public awareness of park jurisdiction by
36 working with the National Oceanic and Atmospheric Administration (NOAA) and
37 the Federal Aviation Administration to include park boundaries and special closure
38 areas on nautical and aviation charts.

39 Strategy 2.8. Park staff will work proactively with NOAA, the Minerals
40 Management Service, and the Federal Energy Regulatory Commission, and other
41 agencies where appropriate, in addressing planning efforts as they relate to
42 renewable ocean energy.

1 Strategy 2.9. Park staff will work with local, regional, and state agencies to reduce
2 point and nonpoint pollution sources within and adjacent to the park and improve
3 water quality in the marine and estuarine waters by implementing best management
4 practices.

5 Strategy 2.10. Park staff will work with the State Lands Commission, NOAA, and
6 other agencies to identify and formally assess the condition and value of submerged
7 shipwrecks and other submerged archaeological resources, and strategize for their
8 protection, treatment, and interpretation.

9

10 ***Goal 3. Engage Visitors and the Public in Ocean Park Stewardship***

11 Given the park's location and its millions of visitors each year, the park affords
12 outstanding opportunities to educate the public about threats to ocean resources.
13 Communication of scientific findings and outreach through education and stewardship
14 programs are needed to elevate awareness of ocean issues, protect resources, and actively
15 engage visitors and the public in ocean stewardship.

16 Strategy 3.1. Through collaboration with park partners, park staff will work to
17 improve public understanding of the park as an ocean park through expanded
18 interpretation and outreach through media and new technologies.

19 Strategy 3.2. Park staff will collaborate with the NPS Pacific Coast Science and
20 Learning Center to expand communication of ocean science and research to park
21 staff, visitors and the general public.

22 Strategy 3.3. Park staff will continue to engage students and visitors in ocean
23 stewardship through the Crissy Field Center, park partners, and other organizations
24 through educational programs.

25 Strategy 3.4. Park staff will support the Bay Water Trail as a form of sustainable
26 recreation and collaborate with other organizations to outreach to trail users to
27 ensure protection of marine and estuarine resources.

28

29 ***Goal 4. Increase Technical Capacity for Ocean Exploration and Stewardship***

30 By drawing on the resources and expertise of other agencies and organizations, the park
31 will leverage partnerships and increase its technical capacity to protect natural and
32 cultural ocean resources.

33 Strategy 4.1. Through joint research programs with other agencies and
34 organizations, park staff will facilitate research that improves our understanding of
35 ocean resources.

36 Strategy 4.2. Park staff will partner with regional agencies on research and modeling
37 of, and management response to, sediment dynamics and other coastal and ocean
38 processes within the San Francisco littoral cell.

39 Strategy 4.3. Park staff will actively support ocean stewardship programs of park
40 partners, such as California Seabird Protection Network, Gulf of the Farallones

1 National Marine Sanctuary Beach Watch program, and Point Reyes Bird
2 Observatory (PRBO) Conservation Science's Alcatraz Island seabird program.
3 Strategy 4.4. Park staff will continue to partner with regional, state, and federal
4 agencies to monitor and model sea level rise and other local effects of climate
5 change and assess affects on ocean and coastal resources.
6 Strategy 4.5. Park staff will partner with local and regional scientific and political
7 entities to develop protection, mitigation, adaptation and restoration strategies and
8 provide guidance on management of park resources that may be affected by climate
9 change, including inundation and accelerated coastal erosion associated with sea
10 level rise, increased storm wave energy and altered flow regimes.
11

PARK COLLECTIONS

2

3 The park collections represent the fourth largest in the national park system, reflecting
4 more than 200 years of the area’s history. The park’s legacy is reflected through artifacts
5 relating to Native American culture, the evolution of military history from Spanish
6 Colonial times to the coastal defense and cold war periods, the advances of maritime
7 history and westward expansion, and the park’s relationship with the surrounding San
8 Francisco Bay Area communities. Highlighting this rich chronicle of history are
9 significant collections from Alcatraz Island, the U.S. Army and Nike Missile Site;
10 archeological remains from every episode of the park’s history; and archival photographs,
11 oral histories, architectural drawings, and documents. The park’s natural specimen
12 collections reflect the unique geological features and fragile biodiversity of the central
13 Californian coastal ecosystems.

14 To convey the diversity and scope of the collections and their representation of the park’s
15 cultural and natural resource heritage, these policies allow the collections to be better
16 understood through continued access, study, interpretation, and education, while ensuring
17 their preservation.

18 The goals described below broaden the scope of collection management for long-term
19 preservation and for the use of the collections in interpretive and educational programs.

20

21

22 GOALS AND MANAGEMENT STRATEGIES

23 1. Connect People with the Park’s Collections

- 24 • Develop a park collection program that engages the visitor in memorable and
25 meaningful learning opportunities, broadens public access, and creates a
26 sense of place within historic sites.
- 27 • Create opportunities for individuals to participate in the stewardship of the
28 park collections so that visitors connect with, learn about, and enjoy this park
29 resource.
- 30 • Conduct oral histories that capture the stories associated with the park’s
31 resources and primary interpretive themes. Preserve the oral histories and
32 make them accessible to staff, visitors, researchers, and scholars.
- 33 • Develop a research and scholar’s program that expands our knowledge and
34 understanding of the park collections. Using evolving technologies, develop
35 partnerships with and links to local and national organizations to place the
36 collections in a broader historical and scientific context.
- 37 • Provide outreach opportunities to a wider community and national audiences
38 through virtual technologies and traveling exhibits. These technologies and
39 exhibits would inform and orient visitors, increase understanding and
40 appreciation of park resources, and improve public use and accessibility of
41 the park collections.

- 1 2. Strengthen the Collection Policy
- 2 • Strengthen the park collections’ comprehensiveness and representation of the
- 3 park’s significance and varied resources through the targeted collection of
- 4 materials that are missing or misrepresented in the collections.
- 5 • Establish a set of protocols with the repositories that maintain the park’s
- 6 natural history specimen collections that allows access for park staff, visitors,
- 7 researchers, and scholars. Define parkwide policies for future collection and
- 8 storage of the park’s natural history specimens.
- 9
- 10 3. Preserve and Maintain the Collections
- 11 • Provide facilities and implement programs that ensure the long-term
- 12 preservation of the collections through regular maintenance and preventive
- 13 conservation.
- 14 • Evaluate and catalog the entire collection to ensure that materials are
- 15 accessible and relevant to the park’s purpose and significance.
- 16 • Establish a curatorial and research facility that allows for consolidation of the
- 17 park collections while meeting the national standards for security, fire
- 18 protection, and environmental control. Provide public space for research and
- 19 changing exhibits in this facility.
- 20
- 21

PARTNERSHIPS

2

3 When people engage with the park through participation in a park or park partner
4 program, they make an emotional connection to the park. This connection often creates
5 an appreciation and support for the national park and its resources. Golden Gate National
6 Recreation Area has effectively created and maintained partnerships that have increased
7 the number and diversity of channels through which the community and visitors can
8 engage with the park, thus extending the opportunity of engagement to more people, in
9 more ways. These opportunities not only strengthen ties to Golden Gate National
10 Recreation Area, they help to strengthen Americans' ties to their national park system.

11 The entire organization at Golden Gate National Recreation Area works to facilitate and
12 maintain partnership opportunities by incorporating partnership development into every
13 aspect of the organization. This includes specifically recruiting and training for partnering
14 skills, organizing park staff in a way that facilitates partnerships, and actively seeking
15 partners in the search for solutions to park management issues. Park managers are
16 constantly evolving the partnership concept and exploring partnership practices from
17 around the globe to gather innovative partnership ideas and best practices. The park
18 aspires to continue its role as a learning laboratory in developing powerful and successful
19 partnerships in a national park. The park staff will continue its focus on partnership
20 development using the following goals.

21

22 1. Be Proactive in Identifying Partnership Opportunities

23 A partnership solution will be actively considered when tackling park management
24 issues. The decision to establish a specific partnership is guided by a need that ties to
25 and supports the park's purpose and significance, and which is best fulfilled or
26 strengthened with a park partner. First, define the management issue and objectives;
27 second, ask if a partner may be able to assist in meeting those objectives, or if
28 working with a partner may improve park management's capabilities, the process, or
29 level of community engagement. Then seek out the partner or partners who might be
30 the most qualified and capable of meeting the objectives.

31

32 2. Develop Win-Win Partnerships

33 Each partner needs to see their contribution alongside the benefit gained. Selecting
34 and maintaining a partner requires a clear understanding of the mutual benefits. It is
35 important to tie the partnership and its outcomes to the missions of each partner.
36 Sharing resources, benefits, and recognition of successes keeps the partnership from
37 becoming lopsided or dominated by any one player.

38

39 3. Be Innovative in Crafting Partnerships

40 Partnerships may often be limited in vision, or significantly constrained by a risk-
41 adverse perspective or a need to control outcomes. Golden Gate National Recreation

- 1 Area managers commit to a broad partnership vision that includes a capability to take
2 reasonable risk in partnerships within the parameters of policy and a willingness to
3 share control in enacting the vision for its park lands.
4
- 5 4. Share the Vision
- 6 The partners collaborate in developing and refining a shared vision of the need that is
7 to be fulfilled and the work that is to be accomplished through the partnership. The
8 shared vision is reflected both in the broad body of work and in each project or
9 initiative that is undertaken. Each partnership will require a culture of full
10 engagement from the very beginning that leads to collective enthusiasm and clear
11 results.
12
- 13 5. Maintain Clear Expectations
- 14 Partnerships will require formal written agreements and work plans that define
15 mutual interests and expectations, the roles and responsibilities of each partner, and
16 clear accountability for the work to be performed. The staff of each partner
17 organization needs to truly understand and embrace the mission and role of each
18 partner and their contribution to stewardship of park resources and visitor
19 opportunities. Good park partnerships represent a delicate balance between
20 maintaining one’s own identity and adding value to a collective effort of park
21 stewardship.
22
- 23 6. Commit to Actively Managing Partnerships
- 24 All partners will invest time and resources in revisiting the partnership as needed to
25 ensure it is on track and meeting the objectives. If a partnership is underperforming
26 or not performing, Golden Gate National Recreation Area managers will
27 reinvigorate, restructure, or end the partnership—redirecting the resources to a more
28 successful or new partner.
29
30

REDWOOD CREEK VISION

2 Successful management of the Redwood Creek watershed requires a coordinated effort
3 among the watershed’s public and private landowners and resource managers. A vision
4 for the Redwood Creek watershed was crafted through an extensive public planning
5 process in 2003. This vision provides a foundation for land managers (including
6 managers of Golden Gate National Recreation Area), residents, and businesses to manage
7 the watershed for its ecosystem function, recreational opportunities, educational
8 opportunities, cultural and agricultural resources, and rural character.

9 The vision for the future of the Redwood Creek watershed as an intact natural ecosystem
10 offers opportunities for people to learn about, experience, and protect a blend of nature,
11 rural character, and cultural history in an urbanized area. This vision is stated as a set of
12 guiding principles for managing the watershed and desired future conditions for the
13 watershed’s natural and cultural resources; resident and visitor communities; and local
14 infrastructure, facilities, and emergency services.

15 These desired future conditions are “what” statements, describing goals for resource
16 conditions and human experience for the watershed’s future. They do not prescribe how
17 to attain these conditions. Determining how best to meet these conditions and where they
18 should apply in the watershed would be accomplished in future planning, either on a
19 watershed-wide basis or for individual projects or jurisdictions within the watershed.

20

21

22 GUIDING PRINCIPLES

- 23 1. Land management agencies, local communities, and the public work together to build
24 support for and implement the watershed vision.
- 25 2. The watershed is managed as a model of the interdependency of all resources and
26 beings, acknowledging the presence and activities of people historically and
27 currently.
- 28 3. The natural beauty and rustic character of the landscape is maintained.
- 29 4. Sustainable land management and resource use practices are used to ensure natural
30 and cultural resource protection, resident quality of life, and quality of visitor
31 experience.
- 32 5. An adaptive, scientifically based approach provides the foundation for informed
33 resource decision making and management of the watershed’s resources, and
34 scientific research in the watershed is encouraged and supported.
- 35 6. Education is provided as a foundation for future watershed protection and
36 stewardship.
- 37 7. Opportunities for interactions with the natural and cultural environment are fostered.
- 38 8. People are active stewards of the watershed, and land management agencies provide
39 an example for and promote stewardship of the watershed’s resources by watershed
40 residents and visitors.

1 **DESIRED FUTURE CONDITIONS: NATURAL RESOURCES**

- 2 1. The watershed is managed as an intact, continuous, and linked system from the ridge
3 tops to the ocean, with all parts contributing to the health of the whole.
- 4 2. Ecosystem management in the watershed is founded on the restoration and protection
5 of natural processes and disturbance regimes, such as fire and flooding.
- 6 3. Native plant communities are healthy and comprise a mosaic of diverse cover types,
7 including native grasslands, chaparral, riparian woodland, hardwood and redwood
8 forests, and wetlands.
- 9 4. Restoration and protection of a full range of natural geomorphic and hydraulic
10 functions (such as sediment transport, channel migration, and recruitment of large
11 wood) in Redwood Creek from its headwaters to the Pacific Ocean support complex
12 instream and floodplain structure that, in turn, supports a diverse community of
13 native aquatic and riparian-dependent species.
- 14 5. Aquatic ecosystem health is not impaired by water diversion or water quality
15 degradation.
- 16 6. Invasion by and the adverse effects of nonnative plant and animal species on the
17 ecosystem are reduced or reversed, and imperiled habitats are restored.
- 18 7. Special status and locally rare plant and animal species are protected and, where
19 appropriate, their populations are expanded.
- 20 8. Human-caused erosion on watershed lands does not impact fish and aquatic habitat.
- 21 9. Native wildlife populations are viable and diverse, and key habitats and habitat links
22 (i.e., corridors) are protected and restored.
- 23 10. Potential negative impacts of surrounding land uses are minimized.

24
25

26 **DESIRED FUTURE CONDITIONS: CULTURAL RESOURCES**

- 27 1. Residents and visitors are connected to the human history of the Redwood Creek
28 watershed—its heritage as the ancestral homeland of the Coast Miwok, its role in
29 agriculture in western Marin County, and its place in the history of recreation and the
30 environmental conservation movement—through the preservation and interpretation
31 of historically significant properties embodying this history.
- 32 2. Archeological sites in the watershed are identified, preserved, and interpreted.
- 33 3. The Coast Miwok heritage in the watershed is maintained and enhanced through
34 cooperation with the Federated Indians of the Graton Rancheria, the descendent of
35 the Coast Miwok inhabitants of the watershed.
- 36 4. The public agency landowners in the watershed work cooperatively to identify,
37 preserve, and interpret archeological sites, artifacts, structures, and cultural
38 landscapes of historic significance on public lands in the watershed.
- 39 5. Historically significant structures are preserved, rehabilitated, and reused, where
40 opportunity allows and as appropriate.

1 **DESIRED FUTURE CONDITIONS: VISITOR EXPERIENCE**

- 2 1. Visitor experiences that are unique to this watershed are encouraged.
- 3 2. The watershed provides a range of visitor experiences, from wild to structured and
- 4 from solitary to shared.
- 5 3. Access to the watershed and recreational opportunities are provided for a range of
- 6 trail users through a well designed, comprehensive trail system.
- 7 4. Visitor uses and use levels are compatible with protection of natural and cultural
- 8 resources of the watershed and visitor enjoyment.
- 9 5. Public education about watersheds, watershed management, and resource
- 10 sustainability is provided through a range of program —both within and outside the
- 11 watershed.
- 12 6. Visitors to the watershed are active stewards of watershed resources as volunteers,
- 13 educators, students, land managers, and citizen experts.
- 14 7. People visit the watershed in a manner that minimizes traffic congestion and its
- 15 related negative impacts to communities and watershed resources.
- 16 8. Visitor use rules and regulations for each land management agency in the watershed
- 17 are made readily available and understandable for park visitors.
- 18 9. Visitor services are adequate to support visitor experience but are kept minimal to
- 19 protect the natural and cultural resources and rural character of the watershed.

20

21

22 **DESIRED FUTURE CONDITIONS: RESIDENT COMMUNITY**

- 23 1. Resident communities are an integral part of the watershed and have minimal impacts
- 24 on the natural environment.
- 25 2. Local residents are active stewards of the watershed and implement sustainable
- 26 resource practices in their communities.
- 27 3. Watershed visitor traffic, parking, and recreation have minimal impacts on local
- 28 communities.
- 29 4. Domestic water supply needs are met while minimizing impacts to natural resources.
- 30 5. Sustainable agriculture minimizes impacts on natural resources and provides visible
- 31 connections to food production and the area’s agricultural history.

32

33

34 **DESIRED FUTURE CONDITIONS: INFRASTRUCTURE, FACILITIES,**

35 **AND EMERGENCY SERVICES**

- 36 1. Water use throughout the watershed is monitored, and its effects on the watershed’s
- 37 creeks and aquatic resources are understood.

- 1 2. Infrastructure and its maintenance are appropriate to public safety and the anticipated
- 2 use while minimizing impacts on natural and cultural resources.
- 3 3. Infrastructure management is coordinated among responsible agencies, businesses,
- 4 utilities, and residents.
- 5 4. Emergency services are provided throughout the watershed.
- 6
- 7

TRANSPORTATION

2 Continued transportation planning and management is key to providing the broadest
3 range of access for all visitors to the Golden Gate National Recreation Area while
4 reducing the park's carbon footprint. To protect the park's natural and cultural resources
5 and provide for a high quality visitor experience, addressing congestion, improving
6 safety, and facilitating access/circulation to and within the park must remain important
7 components of park planning. Access to the park must be provided and improved via
8 alternative modes such as transit, bicycle, ferries, and trails. These transportation
9 strategies were highlighted in the 1980 general management plan for the park and they
10 are even more relevant today, in the face of climate change.

11 The park would pursue sustainable, multimodal access to park sites in partnership with
12 other organizations. By improving trails, roads, and transit connections, a network of
13 equitable energy efficient, low-emissions multimodal transportation options would allow
14 for enjoyable access to park sites.

15

16

17 GOALS

- 18 • Reduce greenhouse gas emissions.
- 19 • Create enjoyable and welcoming transportation experiences for all visitors.
- 20 • Preserve and protect park resources by minimizing transportation impacts.
- 21 • Create equitable and convenient multimodal transportation options to and within
22 the park.
- 23 • Inspire an environmental consciousness by demonstrating environmental
24 excellence in transportation.
- 25 • Optimize management of the park transportation system through coordinated
26 planning, programming, management, and maintenance.

27

28

29 MANAGEMENT STRATEGIES

30 1. Expand Regional Park Ferry Access

31 As envisioned in the 1980 general management plan, the staff at the Golden Gate
32 National Recreation Area continues to pursue expanded ferry access as an alternative
33 means of travel among Fort Baker, Fort Mason, and the Presidio including possible
34 links to Alcatraz, Angel Island, Sausalito, Tiburon, Larkspur and the East Bay.

35 The National Park Service would continue to collaborate with the Water Emergency
36 Transportation Authority and the San Francisco Port Authority to explore a range of
37 future ferry connections. These planning efforts seek to improve visitor experience
38 with links between park sites and the regional ferry network. Water taxi access would

- 1 also be considered as a component of the full network of waterborne access where
2 fixed route and scheduled ferry service many not be warranted.
3
- 4 2. Address Alcatraz Ferry Access
- 5 Consistent with regional, multiagency planning efforts, the National Park Service is
6 evaluating new ferry departure points for Alcatraz Island from the northern
7 waterfront of San Francisco.
8
- 9 3. Pursue online Trip Planning/Wayfinding
- 10 The park would continue to pursue improved mapping capabilities to enable visitor
11 trip planning, integrated interpretive information and route planning, and other
12 interactive tools. These ongoing improvements would be both online and at park and
13 gateway sites. These website improvements would facilitate a broader understanding
14 of park resources and the full array of transportation modes available to access them.
15 Online trip planning would be linked or integrated with existing regional trip
16 planning systems and other new technology encouraging use of alternative modes of
17 access where available.
18
- 19 4. Explore Tools for Congestion Management
- 20 Congestion management or transportation demand management is a collection of
21 management tools focused on shifting personal travel patterns to off-peak periods,
22 more efficient modes (such as public transit and ridesharing) and alternative modes
23 (such as cycling and walking) to offset vehicle congestion, particularly during peak
24 periods. Tools could include improving and promoting transit options, shifting
25 employee work hours, and congestion fees (such parking fees). The park staff would
26 continue to explore a full range of these tools to offset congestion at park sites.
27
- 28 5. Expand the Muir Woods Shuttle
- 29 The park staff would continue to collaborate with Marin County to improve the Muir
30 Woods shuttle service.
31
- 32 6. Employ Intelligent Transportation Systems (ITS)
- 33 Intelligent transportation systems use technology to improve transportation
34 efficiency, such as electronic highway message signs with up-to-date travel
35 information or electronic bus stop signs with up-to-the-minute information about bus
36 arrivals. These tools help travelers better plan their trip and often help travelers
37 choose alternative routes or modes to avoid congestion. As a result, the total
38 distribution of travelers is spread more evenly across the system and the system
39 functions more efficiently. Park managers would continue to work with Caltrans and
40 other agencies to employ ITS tools to support the Muir Woods shuttle and other
41 alternative transportation access to park sites.
42
43

- 1 7. Implement the *Marin Headlands and Fort Baker Transportation Infrastructure and*
2 *Management Plan of 2009*
- 3 Continue to implement actions that provide improved access to and within the Marin
4 Headlands and Fort Baker for a variety of users, and to initiate these improvements in
5 a way that minimizes impacts to the rich natural and cultural resources of the park.
6
- 7 8. Improve Mobility, Access, Connectivity, and Collaboration
- 8 Mobility, access, and connectivity form the keystone of the park and monument’s
9 multimodal transportation system. Although cars will continue to be an important
10 part of the transportation system, the park staff is committed to reducing dependence
11 on the automobile by increasing the efficiency of other modes of travel. Creating
12 practical transportation choices and educating the public of their viability and
13 desirability will increase use of modes other than cars. The park staff will continue to
14 collaborate with regional partners to achieve the vision of creating a seamless
15 multimodal transportation system to access the park for residents and visitors in the
16 Bay Area. This collaboration extends to applying “universal design” principles that
17 provide access for people with disabilities.
18
- 19 9. Develop a Long-Range Transportation Plan
- 20 Golden Gate National Recreation Area is developing the first park-level long-range
21 transportation plan. An important component of this process is the creation of a list of
22 prioritized future transportation projects, or the transportation improvement plan.
23 Together, they would articulate the transportation priorities of the park.
- 24 As a pilot project, the park staff would develop a model for park-level transportation
25 planning in a manner that is consistent with state and metropolitan planning
26 organizations. The project would provide NPS leaders with a replicable park-level
27 transportation planning process, benchmarks for evaluating transportation projects,
28 and park guidance for future planning and operational decisions.
29
30
31
32

TRAILS

2

3 Golden Gate National Recreation Area’s trail system would continue to be managed and
4 improved to provide an enduring system of sustainable trails. Trails provide one of the
5 most important ways that visitors experience and enjoy the park and discover its diverse
6 settings.

7 The park’s extensive network of trails allows millions of people to discover the natural
8 world and deepen their awareness of the grandeur and fragility of park landscapes and
9 resources. Sustainably designed and maintained trails welcome public use while
10 protecting habitat and landscape and, in some cases, are historic resources themselves.
11 Trails can support healthy lifestyles and offer a nonmotorized way to get to the park and
12 its destinations.

13 A system of ranch and military roads inherited when the park was established in 1972
14 was the basis for much of the current trail system. Since then, park managers, with
15 partners and the community, have planned and completed many improvements to park
16 trails to better serve public use and protect park resources.

17 Much of the trail system still requires upgrading to improve conditions, provide more
18 sustainable alignments and to fill gaps in the system. New areas where the park is
19 expanding, such as Rancho Corral de Tierra, a thorough evaluation and plan would be
20 required following this general management plan to guide needed improvements.

21 The successful Trails Forever initiative that was launched in 2003 with a focus on the
22 California Coastal Trail is the most current and best example of the potential of public-
23 community collaboration to establish a network of exceptional trails. Looking beyond the
24 trails to incorporate caring for the setting through which they travel has integrated
25 improvements to the natural and cultural resources along trail corridors into the trail
26 projects. This approach has expanded the benefits of the program, and its reach and has
27 inspired an unprecedented level of volunteer support that is key to the ongoing success of
28 the program.

29 Golden Gate National Recreation Area’s trail system would provide a sustainable
30 network for visitors to access, enjoy, and understand the diversity of park settings while
31 protecting park resources. The recreation area’s trails would connect communities to the
32 park, and park sites and destinations to each other, to adjacent public lands, and to the
33 regional network of trails.

34

35

36 GOALS AND MANAGEMENT STRATEGIES

37 1. Provide a system of trails integrated with the trail network beyond park
38 boundaries, with coordinated regulations and supported by accurate maps and
39 consistent signs.

40 2. Continue to coordinate with other agencies and organizations to complete a
41 comprehensive regional trail system that includes the California Coastal Trail,

- 1 Bay Area Ridge Trail, San Francisco Bay Trail, and San Francisco Bay Water
2 Trail.
- 3 3. Establish and maintain a trail system that offers a diversity of park experiences,
4 including walking, hiking, scenery viewing, learning, horseback riding,
5 bicycling; trails of varying lengths and loop configurations , varying degrees of
6 challenge, access to a diversity of park settings, and opportunities for universal
7 access where appropriate.
- 8 4. Locate, design, and maintain new or improved trails and trailheads using best
9 practices and sustainable design to protect the park’s natural and cultural
10 resources; provide enjoyable, safe access; and reduce ongoing maintenance
11 requirements.
- 12 5. Integrate improvements to the landscape and surrounding habitats when creating
13 or rehabilitating trails and, where appropriate, convert former management roads
14 to trails.
- 15 6. Create trails and trailheads that promote nonmotorized travel to and within the
16 park, reducing the carbon footprint and supporting healthy communities.
- 17 7. Establish a coordinated system of signs to provide wayfinding information,
18 support understanding of the park history and resources, and communicate
19 regulations.
- 20 8. Create and support partnerships and community involvement in trail planning
21 and ongoing stewardship, while continuing to engage the community through the
22 Trails Forever initiative.

23

24 **Marin County Trails**

25 The Marin trail system is well established. For much of Golden Gate National Recreation
26 Area’s Marin County lands, trail improvements have been identified in recent plans and
27 trail system improvements are ongoing. Future efforts would focus on continuing to
28 improve existing trails, including sustainable alignments and design, improving
29 connectivity and accessibility, and providing wayfinding signs.

30

31 **San Francisco City and County Trails**

32 The more formal trails of San Francisco lands in the planning area are the Bay Trail, the
33 California Coastal Trail, and their connectors. Continued efforts to improve these trails
34 would focus on sustainable design to protect park resources, address the volume of use,
35 and improve connectivity, especially to transit and the regional trail system.

36

37 **San Mateo County Trails**

38 In established areas of the park (Mori Point, Milagra Ridge, Sweeney Ridge) future
39 efforts would focus on continuing to improve existing trails, including sustainable
40 alignments and design, improved connectivity and accessibility, and provision of
41 wayfinding signs. Safe trailheads, appropriate for both local and regional visitors, would
42 be provided. Where appropriate, former management roads would be converted to trails.

- 1 A more comprehensive approach to trail planning would be required for new areas
- 2 coming into park management (Pedro Point, Rancho Corral de Tierra) and areas where
- 3 trail deficiencies have not been addressed (Phleger Estate).
- 4
- 5

1