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**RESOURCES MANAGEMENT PLAN**  
**CABRILLO NATIONAL MONUMENT**  
**1994**

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## INTRODUCTION

### Location

Cabrillo National Monument is located within the city limits of San Diego, County of San Diego, California, on the southern end of the Point Loma peninsula. The peninsula rises to a height of approximately 420 feet and forms the western edge of San Diego bay. The monument contain 144 acres and is an area of exclusive jurisdiction within the federal reservation. It is bordered on the north and south by the Naval Command, Control and Ocean Surveillance Center (NCCOSC), on the southwest by the U.S. Coast Guard Point Loma Light Station, on the northwest by the City of San Diego Point Loma Sewage Plant, and on the northeast by the Naval Submarine Base, San Diego.

The monument is located within the 49th Congressional district, the 39th State Senatorial district, the 78th State Assembly district, the 1st County Supervisorial district and the 2nd City Councilmanic district.

### Legislation

Cabrillo NM was established under the authority of the Antiquities Act by Presidential Proclamation No. 1255 signed by Woodrow Wilson on October 14, 1913. The proclamation reserved a site approximately one-half acre in size around the Old Point Loma Lighthouse for the construction of a heroic statue of Cabrillo by the Order of Panama to "commemorate the discovery of California by Juan Rodríguez Cabrillo, on the 28th day of September, 1542."

Almost 13 years later, on May 12, 1926, Calvin Coolidge signed Presidential Proclamation No. 1773, giving the Native Sons of the Golden West permission to erect a "suitable monument" upon the site "in commemoration of the discovery of the discovery of California by Juan Rodríguez Cabrillo. . . ." Neither the Natives Sons nor the Order of Panama exercised its authority to construct a statue of or a monument to Cabrillo.

The original one-half acre monument, which was transferred from the War Department to the National Park Service on July 28, 1933 by Executive Order 6228, has been enlarged twice. With each addition came both important natural and cultural resources. President Dwight Eisenhower's Proclamation No. 3273, February 2, 1959, increased its size by 80.5 acres. President Gerald Ford's Proclamation No. 4319, September 28, 1974, enlarged the monument by 56.6 acres to its present size of 143.94 acres. Both proclamations state that "... the additional land is essential to the proper care and management of the historical landmarks and historical objects of the area."

The 6.88 acres on which the "old maintenance area" is located is currently administered by the NPS, but title resides with the Bureau of Land Management. This parcel of land, described in PLO 5234, July 14, 1972, became part of the park in a land swap with the U.S. Navy. It, and possibly an additional 18 acres, is in the process of being added to the monument.

### Purpose

The purpose of Cabrillo National Monument is to commemorate the voyage and accomplishments of Juan Rodríguez Cabrillo and to communicate this story and its significance to visitors and local residents; preserve, protect, interpret, and restore the cultural and natural resources within and adjacent to the park; and to provide visitors the opportunity to experience and understand the environmental and human interrelationships both within and visible from the park.

### Legislative and Administrative Requirements

Management of the park and its resources is affected by a number of both legislative and administrative requirements or constraints. The above mentioned Presidential Proclamations also state: "The land...shall be subject...to the right of the Department of Defense to retain, for such length of time as required by it, the use of roads and utilities now being used by it, and the right to require that no activity will be conducted within the monument that would interfere with the defense activities being conducted in the vicinity thereof."

A Memorandum of Agreement with the Navy (Submarine Base), designates a portion of the land described in PLO 5234 as an Explosive Safety Quantity Distance (ESQD), or buffer zone, for munitions storage and repair. Since the buffer zone precludes the "use" of the old maintenance building, the agreement provides a replacement structure within the Naval Research and Development (new maintenance). Under the definition of use in the agreement, persons can come and go from the site, it can be used for storage and other purposes, but it can not have people staying in the area for long periods of time on a regular basis.

The submerged lands on the west side containing the tide pools are managed by the NPS under a cooperative agreement with the U.S. Army Corps of Engineers. The Agreement No. DACA09-4-89-62, expires 10 August 1994. The land in question extends from the mean low water mark to 300 yards offshore and from the mutual boundary between the Point Loma Sewage Plant and Cabrillo National Monument to a point 300 yards east of the new Point Loma Light.

An Interagency Agreement between the Naval Research and Development, NCCOSC, and the National Park Service (IA8110-6-002) allows us to manage 16 acres of land north of the Marine Sciences Facility and west of Gatchell Road. This area is known as the tidepool parking and access area. This Interagency Agreement expires 3-29-94 (under renewal at time of writing). This land has been declared excess to the Navy's needs and the NPS is seeking to add it to Cabrillo National Monument at the time of this writing.

Visitor and administrative access to the Bayside Trail is provided by a Navy license for use of portions of Humphrey's Road and Sylvester Rd. License No. N6871192RP02P73 expires 12-31-96.

The National Park Service has issued a Right of Way Permit to the City of San Diego for the construction, use, and maintenance of Cabrillo Road and Gatchell Road in exchange for access to the Point Loma Sewage Plant. That Right of Way Permit expires in 2004 and is being reviewed at this time. The City has sought a change in the alignment of Gatchell Road due to heavy erosion eastward toward the present right of way near Coast View Parking. Cabrillo National Monument has exclusive criminal jurisdiction where the National Park Services holds land title.

The Bayside Trail itself consists of a right of way excepted by the Navy from land transferred to the National Park Service in Proclamation 4319. This trail is the remnant of the Sylvester Road on the Submarine Base.

### Visitation

Cabrillo National Monument has always enjoyed heavy visitation, From the 1960s through 1987 visitation increased, reaching a peak at 1.8 million. Over the last several years visitation has decreased as it has at other National Park Service areas and other visitor attractions in San Diego. Visitation to the park in 1993 was 1.23 million.

### Cultural and Historical Resources

Cabrillo National Monument was established to commemorate the discovery of the west coast of the United States by European man and to remember that particular man, Juan Rodríguez Cabrillo, a Portuguese, in the service of Spain. Cabrillo did not stay and Spain did not colonize the area until 1769. Within recorded history the area has been part of New Spain, Mexico, and the United States. Four cultures make up the ethnic background of the park: Portugal, Spain, Mexico, and the United States. The overriding interpretive theme is "The Man - Sea Relationship". Spanish exploration and Native Americans are part of that. Lighthouses are

part of that. Coastal sage scrub is part of that. The magnificent harbor and city view are part of that. Coast fortifications are part of that. Together these make up the complex interaction of many assets that are Cabrillo National Monument.

### **Cabrillo Statue**

The original statue of Juan Rodríguez Cabrillo, created by Portuguese sculptor Alvaro deBree was brought to San Diego in 1940. It was placed at the lighthouse and dedicated on September 28, 1949. In 1966 it was moved to its current location overlooking the entrance to San Diego Bay. Because of the deterioration of the original statue a new one was created, following the exact shape and color of the original. The limestone of the new statue is harder than that of the original. The new statue, cut in Portugal, transported to the United States by the Portuguese Navy and paid for by Marion Reupsch, a Point Loma resident, represents the complex interests in this park and is a cultural icon for the local Portuguese community. It was dedicated on Sunday, February 28, 1988.

### **Old Point Loma Lighthouse**

The Old Point Loma Lighthouse, completed in 1855, is one of the original eight lighthouses built along the west coast of the U.S. In use until 1891 when it was replaced by the "new" Point Loma Light Station on the tip of the peninsula at the water's edge, it was restored by the NPS in 1935 and the early 1980s to the 1880s period. The inside has been refurnished with period artifacts and reproductions. The grounds were restored and re-landscaped in 1935 and planted with exotic vegetation, including Torrey pines, twisted junipers, jade plants, geraniums and ice plant. Over the years the junipers and jade plants have been removed. The ice plant and Torrey pines remain, as does the picket fence and asphalt walkways installed in 1935.

### **Coast Defense System**

As Navy land was transferred to the park in 1959 and 1974, remnants of the coast defense system that was built between 1913 and 1943, came under the jurisdiction and care of the National Park Service. These twenty two historic structures are being included on the updated List of Classified Structures. Constructed of reinforced concrete, steel and wood, they range from base-end stations to search light bunkers, and from gun emplacements to electrical generating stations.

Currently there are 17 structures on the List of Classified Structures, including the Old Point Loma Lighthouse, which is a National register property. The LCS is currently under review by the Regional office and the list will be enlarged to 29 structures. If the transfer of land from the Navy (NRaD) to the NPS occurs,

there will be two other structures to add.

### **Archeological Sites**

There are at least 10 archeological sites, some of which are identified on a geographic information map in the Chief Ranger's office. None of the sites are believed to be habitation sites.

### **Museum Collection**

The park maintains a 1202 object museum collection. It centers primarily around the Old Point Loma Lighthouse, the Portuguese - Cabrillo connection, and military uses of the monument. There are no original artifacts associated with Cabrillo or Spanish exploration in the collection.

### **Natural Resources**

Additions to the monument out of excess military lands have increased our acreage of coastal sage scrub. This ecotype is vanishing rapidly in Southern California as more and more land is developed. At this time, San Diego is one of the ten fastest growing cities in the U.S.

27 plant and 70 animal species considered sensitive by federal, state, or local agencies occur or have been known to occur on Point Loma. Eighteen of these are listed or are proposed to be listed as threatened or endangered by the U.S. Fish and Wildlife Service (USFWS).

Nine plant and 31 animal species, considered endangered, Category 1 or 2 by the USFWS occur or have been known to occur on Point Loma. Forty-one bird species considered sensitive by federal, state, or local agencies have been known to occur on Point Loma as migrants or vagrants. An additional 10 plant and 10 animal species considered sensitive were identified as potentially occurring on Point Loma lands.

### **Point Loma Ecological Reserve**

Because of the existence of these sensitive flora and fauna, and because the Navy has a mandate to protect lands under its control, they are developing the Point Loma Ecological Reserve. This Reserve includes Monument lands. The Reserve's present design includes 700 acres. National Monument lands are 20% of that total. Lands from four Federal and one City agencies are included in that reserve. The purpose of the Reserve is to manage for the enhancement and perpetuation of sensitive species. The Navy has invited the park to become the land manager of the Reserve to take advantage of our land management expertise. The goal of this project would be to restore and maintain disturbed parts of the

native ecotype, manage the reserve with the goal of preserving and protecting this diminishing resource, establish minimum requirements for the survival of identified species, monitor and inventory species, and remove exotic vegetation and animal species. Other goals may be established later. Because the protection of resources outside the park will positively enhance the prospects for preserving the resources inside the park, we have expressed our desire to participate.

### **Description of Habitat**

Point Loma has a Mediterranean climate with cool wet winters and dry warm summers. Annual rainfall averages 9.5 inches, usually less on Point Loma. The natural vegetation of Point Loma constitutes a diverse assemblage of over 157 native and 67 introduced plant species. Five basic natural plant communities have been identified:

- southern maritime chaparral,
- maritime sage scrub,
- southern coastal bluff scrub,
- California grassland,
- southern foredune vegetation.

The diverse vegetation, topography, soils, and maritime location provide habitat for several terrestrial and sea related vertebrate wildlife species. Eight species of reptiles and amphibians, 15 species of small and large mammals, and over 370 species of birds are known to inhabit Point Loma or use portions of the peninsula seasonally.

Eighteen plant and thirty eight animal species considered sensitive by federal, state, or local agencies occur or have been known to occur on Point Loma. Eighteen of these are listed or are proposed to be listed as threatened or endangered by the U.S. Fish and Wildlife Service (USFWS).

Ten additional potentially sensitive plant species were identified that are present or expected to occur on Point Loma. These additional species are of interest to resource managers due to increased concern expressed by agencies and institutions about their rarity.

Cabrillo National Monument contains 145 acres of land. Approximately 15 acres of this land is developed, and 20 acres disturbed. The remaining 110 acres consists of southern maritime chaparral, maritime sage scrub, and southern coastal bluff scrub. The USFWS considers each natural plant community to be sensitive. R. Zembal, USFWS, in a letter to the U.S. Navy dated 14 October, 1992, stated that, "Only about 2500 acres of southern maritime chaparral remain in Southern California." About 6.8% of this is on Point Loma. The maritime sage scrub has two sub-types: Diegan

coastal sage and maritime succulent scrub. The California Natural Diversity Data Base (NDDB, 1992) gives the Diegan coastal sage scrub habitat type an endangered (G2) global ranking. Within the state of California, Diegan coastal sage scrub is also considered endangered (S2.1) (NDDB 1992). These indicators of endangerment are evidence that Diegan coastal sage scrub habitat is a unique and depleted resource.

The USFWS indicates that over 70% of the Diegan sage scrub habitat type in Southern California has been eliminated (Zemba 1992). The presence of heavy cliff spurge population at Cabrillo in the Diegan coastal sage scrub is unusual and emphasizes the sensitivity of this resource.

The California NDDB (1992) gives the maritime succulent scrub habitat an extremely endangered (G1) global ranking. These indicators of extreme endangerment are evidence that maritime succulent scrub habitat is a unique and depleted resource. In addition, state and local agencies may consider losses of maritime succulent scrub as significant impacts under CEQA and local ordinances.

The California NDDB (1992) gives the southern coastal bluff scrub habitat an extremely endangered (G1) global ranking and is also considered extremely endangered (S1.1). These indicators of extreme endangerment are evidence that southern coastal bluff scrub is a unique and depleted resource. The USFWS indicates that less than 1500 acres of southern coastal bluff scrub remain in Southern California.

The coastal sage scrub is a fire dependent ecotype. The fire cycle of this resource appears to be every 80 to 120 years. The fire cycle of inland chaparral is every twenty years. The difference may be attributable to the increased moisture of the sea breezes, and the generally milder temperatures along the ocean. The age of this park's coastal sage scrub appears to be about 90 years as determined by the U.S. Forest Service in 1980. The fuel load on the east side of the park and north-facing slopes is very high. A fire under adverse conditions would be difficult to stop. Park fire suppression is handled by the Federal Fire Department.

### **Alien Plant Species**

A great deal of resources management work has occurred in the last ten years centering on removal of alien or exotic plants. This has met with varying degrees of success. The following plants have been largely, but not completely, removed from the native areas: Acacia, melaleuca, *Foeniculum vulgare*, jade plant, geranium, castor bean, oleander, tree tobacco, klamath weed, and myoporum. Some eucalyptus have been removed. The most abundant, persistent and invasive exotic is ice plant (*Carpobrotus*). Removal of this plant was accelerated in 1993. Two plants that are extremely

persistent are acacia and myoporum. Birds drop the seeds in the park from plants on Navy property. Also, the acacia seeds dropped from plants removed in the park are viable for 80 years. A long range effort must be maintained to keep these exotics out of the park. See Appendix A.

### Ground Water

There are no known ground water or natural seeps resources within the park. Historically there were no springs found within the property. The keepers at the Old Point Loma Lighthouse were dependent on cisterns to store rain water. The park currently uses City of San Diego water for all its needs.

### Terrestrial Plants

There are 224 species of land plants at Cabrillo N.M. Nine of these are category 1 or 2 plants. An additional 18 plants are potential concern. The only place in the United States where Shaw's Agave (*Agave shawii*) naturally occurs is on Point Loma. It is currently under review by the USFWS. This plant is common in Mexico. Snake Cholla, (*Opuntia parryi serpentina*), and coast barrel cactus, (*Ferocactus viridescens*) which are found throughout the park are listed as category 2 species by the USFWS. Cliff spurge, (*Euphorbia misera*), is being considered for listing by the State of California. The only place where one lichen, *Dendrographa leucophaea*, is known to occur in the continental United States is in Cabrillo National Monument.

### Birds

Over 361 species of birds have been identified in the park or on Point Loma. This is due to a combination of factors. The park is on the Pacific flyway and is a land trap, surrounded on three sides by water. Both native chaparral species and salt water species can be found here. Birds that have lost their way in migration, accidentally come to the park. Since the park is surrounded by water, and some birds will not fly over water, many of them remain. This last factor accounts for the tremendous number of accidental species found here.

There are a number of birds that are rare, endangered or of more than casual interest in the park. The Peregrine Falcon (*Falco peregrinus anatum*), designated endangered by the USFWS, historically nested near the park has been successfully reintroduced on Point Loma. It has been found in the park but does not nest here. The Brown Pelican (*Pelicanus occidentalis californicus*), also designated endangered by the USFWS roosts in and flies by the park in large numbers daily. Beldings Savannah Sparrow, which is currently under review by the USFWS for listing as a threatened or endangered species, occurs as a resident in the park. The Western Snowy Plover (*Charadrius alexandrinus nivosus*)

is listed as threatened by the USFWS. The California Gnatcatcher (*Polioptila californica californica*) was observed in the park in March of 1993. This bird was proposed for listing as endangered under the Federal Endangered Species Act in September, 1991. The California Least Tern (*Sterna antillarum browni*), nests near the park and feeds in waters managed by the park. Other birds occurring in or near the park have been termed "Special Animals" by the California Department of Fish and Game (CDFG). These are the double crested cormorant (*Phalacrocorax auritus*), western grebe (*Aechmophorus occidentalis*), great blue heron (*Ardea herodias*), black-crowned night heron (*Nycticorax nycticorax*), great egret (*Casmerodius albus*), snowy egret (*Egretta thula*), and Caspian tern (*Rynchops niger*).

The following birds occurring on Point Loma are Federal designated Category 2 candidate species: Loggerhead Shrike (*Lanius ludovicianus*); California Horned Lark (*Eremophila alpestris actia*); Elegant Tern (*Sterna elegans*).

#### **Marine Mammals**

The Pacific gray whale is of interest to many visitors to Cabrillo. During the migration period of mid-December through March, hundreds of thousands of visitors come to the park to watch the gray whale swim south a short distance offshore.

Sea lions, harbor seals, and porpoises can often be observed from the shoreline. In 1986, sea otters which had escaped from a northern repopulation effort, were seen offshore. These were captured by the California Fish and Game and returned to their reintroduction site off the Channel Islands.

#### **Mammals**

The grey fox, striped skunk, California ground squirrel, wood rats, and cottontail rabbit are commonly found in the park. Mule deer, coyote, and bobcat historically inhabited Point Loma but have been extirpated. Feral house cats, common mouse and rats (*Rattus rattus*) also inhabit the park and at times become a problem.

The following mammals occur on Point Loma and are Federal Category 2 candidate species: San Diego Wood Rat (*Neotoma lepida intermedia*; Northwestern San Diego Pocket Mouse (*Perognathus longimembris pacificus*); Greater Western Mastiff Bat (*Eumops perotis californicus*); California Leaf-Nosed Bat (*Macrotus californicus*).

#### **Reptiles and Amphibians**

Three species of snakes: California Striped Racer; San Diego Gopher Snake; Southern Pacific Rattlesnake; and three species of lizards: Great Basin Fence Lizard; California Side-blotched Lizard; San Diego Alligator Lizard inhabit the park.

The following reptiles occur on Point Loma and are Federal Category 2 candidate species: Coronado Skink (*Eumeces skiltonianus interparietalis*); Orange-Throated Whiptail Lizard (*Cnemidophorus hyperythrus*); Coastal Western Whiptail (*Cnemidophorus tigris multiscutatus*); San Diego Horned Lizard (*Phrynosoma blainvillei*); Northern Red Diamond Rattlesnake (*Crotalus ruber ruber*); San Diego Ringneck Snake (*Diadophis punctatus similis*); Coastal Rosy Boa (*Lichanura trivirgata rosafusca*); Coast Patch-Nosed Snake (*Salvadora hexalepis virgultea*).

## **Geology**

The Monument straddles the Point Loma peninsula and is surrounded by water on the east, west, and south sides. Once an island, the peninsula moved north over geologic time until it came into contact with the mainland. This joining caused the Bay of San Diego to form. The peninsula is comprised of three formations; uppermost is the Bay Point formation (Quaternary age), next the Cabrillo formation, and beneath that the Point Loma formation (latter two are Cretaceous age).

## **Tidepools**

Adjacent to the park on the west, and administered by the National Park Service under a cooperative agreement with the U.S. Army Corps of Engineers, are approximately one-half mile of tidepools. These tidepools have always received a greater degree of protection than others found in San Diego County. For this reason, and because of the large population that has easy access to them, they are an attractive resource for both school groups of all ages and the casual visitor. The tidepools are currently being studied in a six year monitoring program managed by Gary Davis, Channel Islands National Park.

## **Park Neighbors**

Park neighbors have an effect on the natural environment. To the northwest of the park lies the Point Loma Sewage Plant. It processes up to 250 MGD of sewage to the advanced primary level, removing 85% of solids. The effluent is discharged into the Pacific about 2.2 miles offshore at a depth of 200. The treatment plant is undergoing a large expansion program. The sole access to the plant is through the park. Hazardous materials including sodium hydroxide, ferrous chloride, and ferric chloride, are transported to this site daily through the park.

Other park neighbors are the Naval Command Control and Ocean Surveillance Center (NCCOSC) and the San Diego Naval Submarine Base. Both of these facilities are interested in security of their installations. These concerns quite often impact park operations. A third neighbor is the U.S. Coast Guard. Its operation of the Point Loma Light Station generally does not impact the park.

## View

Although the park was established to commemorate Cabrillo, the reason a large proportion of our visitors come to the park is to enjoy the view of the City of San Diego and the mountains beyond, the coastline to the north and south, and the open ocean to the west.

## Management Objectives

The management objectives regarding cultural and natural resources to:

- Identify, preserve and protect prehistoric and historic sites, structures and objects.
- Manage the collection of cultural objects so they do not deteriorate.
- Restore and perpetuate the cultural landscape.
- Preserve ecological processes in a manner to perpetuate native species and suppress alien species.
- Gather data through research programs in archeology, history, natural science, visitor use, and land use.
- Monitor cultural landscapes, ethnography, and natural resources to detect change.
- Rehabilitate trails throughout the park.
- Cooperate and plan with government agencies and community groups to protect the integrity of the cultural and natural environment within and surrounding the monument.
- Halt erosion of soils and restore those areas already ~~eroded~~.

This Natural and Cultural Resources Management Plan is a revision of the original 1981 plan and the subsequent updates in 1983, 1985, and 1993.

## **PRESENT RESOURCE STATUS**

### Natural Resource Baseline Information

#### **Tidepools**

In 1976, Joy Zedler, PhD, San Diego State University, published "Ecological Resource Inventory of the Cabrillo National Monument

Intertidal Zone." It included a map of major intertidal communities, an annotated list of 109 plant and 160 invertebrate animal species, detailed descriptions of six habitats inventoried in the spring and fall of 1976 (Algal mats, Phyllospadix pools, Pelvetia rocks, Mytilus rocks and cliff faces), and a comparison of these habitats among areas of low and frequent public use to develop hypothesis concerning the impact of public use on intertidal biota. This study provided the monument with baseline information that meets the service wide standard.

Gary Davis, Research Biologist, Channel Islands NP, is conducting a five-year monitoring project to determine the impact of visitors on the tidepools. Begun in 1990, 90 long-term monitoring plots have been established in three use areas. Monitoring is being done twice a year, in the fall and spring, and includes timed searches, bird and visitor censuses, photogrammetric plots, and noting species in line and band transects and circular plots.

### **Terrestrial Plants**

Several lists of plants found at Cabrillo N.M. have been prepared which provides the park with a minimum level of baseline information. In addition, the U.S. Navy had a terrestrial biological survey of its land on Point Loma done in 1981 and updated in 1992. Neither survey included the monument. Dr. Kathryn McEachern, CPSU scientist from the Channel Islands, is currently studying the botany of the point. She is developing a plant list, a plant monitoring protocol, and a vegetation history of Point Loma.

### **Reptiles and Amphibians**

The "Terrestrial Biological Survey and Inventory of Navy Property on Point Loma, San Diego, California," 1981 and 1992 update, identifies a number of reptiles that inhabit the peninsula. It is logical to assume that some of these reptiles also inhabit the park. A thorough, comprehensive survey of the reptiles in the monument has never been done, however. As a result, the monument lacks minimal baseline data regarding which reptiles live in the park and their general condition.

It is believed that amphibians do not inhabit the park. Suitable habitat is not found here.

### **Mammals**

The surveys noted above also identified mammals that inhabit Navy land on the peninsula. A thorough, comprehensive survey of mammals in the monument has never been done. The monument therefore lacks minimal baseline data.

## **Birds**

The park has a current bird checklist which includes 361 different species of birds sighted either on Point Loma or at Cabrillo N.M. This list contains residents and migrants and both marine and terrestrial species. As a result, this baseline information meets the service-wide standard.

## **Inventory and Monitoring Plan**

Cabrillo National Monument, to this period in time, has inventoried over 974 species of plants and animals in the park. Eighty five of these are state or federal listed. Two monitoring programs are in place, or soon will: tidepools, and terrestrial vegetation. There are 44 exotic plant species in the park. The Inventory and Monitoring Plan was completed in March, 1994.

## **Condition of Natural Resources**

### **Tidepools**

The tidepools are generally in good condition, although some species of plants are apparently suffering from the effects of visitor use. Threats include some poaching and trampling. Pollutants may also be affecting the tidepools. The existing monitoring program should be continued beyond its scheduled completion in 1995 to provide management with the information necessary to evaluate the impacts of visitors in the tidepools and the effectiveness of any proposed modifications to visitor access or use. In order to determine the presence or absence of pollutants, a marine water quality program should be instituted. This could consist of acquiring data that is already being collected by the City of San Diego and other governmental entities.

### **Terrestrial Plants**

The general health and condition of the vegetative types (Southern maritime chaparral, coastal sage scrub) in the monument appears to be good. Threats to this increasingly important resource include senescence, insulation and fragmentation due to development outside the park. A comprehensive inventory of the plants within the monument and a long-term program to monitor the health of the vegetation is being done. In addition, the park staff should cooperate with the Navy to preserve the native vegetation on Point Loma to help ensure the survival and perpetuation of that found within the monument. A study of the ecology and vegetative history of the monument should also be conducted to provide management with the information it needs to ensure the preservation of the native plant communities.

## **Reptiles and Amphibians**

As stated above, under natural resource baseline information, the monument lacks minimal baseline information for reptiles so which reptiles inhabit the park and their condition, past or present, cannot be assessed.

It is believed that there have never been any amphibians living in the park, due to a lack of suitable habitat, so there will not be any condition to report.

## **Mammals**

There is no minimal baseline data available on the mammals present at the monument so an accurate assessment of their condition is not possible.

Anecdotal data, however, report the following: in the summer of 1993, California Ground Squirrels (*Citellus beecheyi*) appeared to be suffering an unidentified illness (listless and not avoiding humans in the usual way); Gray Fox (*Urocyon cinereoargenteus*) abundance decreased in winter of 1993 and is still low; also late in 1993 was the novel appearance (or at least first reported sighting in 17 years) of coyote (*Canis latrans*) in the park. These anecdotal data are changes witnessed by park resource management personnel.

## **Birds**

Although there is a bird list for the monument, no monitoring program is in place so their current condition cannot be assessed.

## **Cultural Resource Baseline Data**

### **Old Point Loma Lighthouse**

An Historic Structure Report (March, 1981), Historic Furnishings Report (December, 1978), and Historic Structure Preservation Guide, (September, 1990) have been prepared for the Old Point Loma Lighthouse. A Cultural Landscape Analysis of the area around the lighthouse was prepared by the Western Regional Office and completed in March, 1994. Baseline data for this nationally significant historic structure is excellent.

A Housekeeping Plan for the artifacts on display in the lighthouse has not yet been prepared.

### **Coast Defense System**

An Historic Resource Study, The Guns of San Diego: San Diego Harbor Defenses, 1796-1947, which documents the development of the coast defense system on Point Loma, was published in 1991. A

collection of oral histories, "The 19th Coast Artillery and Fort Rosecrans: Remembrances" supplements this historic resource study.

An Historic Structures Report and an Historic Structures Preservation Guide for the military structures within the monument have not been prepared and are needed.

#### **Archeological Sites**

Several archeological sites have been located near the right-of-way for Gatchell and Cabrillo roads as a result of survey associated with the proposed widening and realignment of these roads. Testing is to be done by an archeologist under contract with the City of San Diego to ascertain the integrity of these sites and determine whether or not they meet the criteria for listing on the National Register of Historic Places.

An Archeological Survey of the entire park has not been done and is needed.

#### **Museum Objects**

The monument's Scope of Collection Statement was revised in 1993.

The monument does not have a Collections Management Plan to assist in the proper preservation, protection and documentation of museum property. One should be prepared and include a Collections Condition Survey and Integrated Pest Management Plan to protect museum objects.

CULTURAL RESOURCE DOCUMENTATION CHECKLIST

Place an X in the appropriate column. Leave columns blank if document is not required for the park. Remember that items in the first section, PLANNING DOCUMENTS, may also apply to natural resources. See NPS-28, Chapter 2 for description of each inventory or study.

| TITLE                                                          | CURRENT AND APPROVED | INCOMPLETE; NEEDS REVISION OR UPDATING | NEEDED |
|----------------------------------------------------------------|----------------------|----------------------------------------|--------|
| <u>PLANNING DOCUMENTS</u>                                      |                      |                                        |        |
| Preauthorization and Authorization                             |                      |                                        |        |
| Statement for Management (SFH)                                 | x (1991)             |                                        |        |
| Outline of Planning Requirements (OPR)                         | x (1991)             |                                        |        |
| General Management Plan (GMP)                                  |                      | x                                      |        |
| Development Concept Plan (DCP)                                 |                      |                                        |        |
| Resources Management Plan (RMP)                                |                      | x                                      |        |
| Interpretive Prospectus (IP)                                   | x (1991)             |                                        |        |
| <u>SERVICEWIDE INVENTORIES, LISTS, CATALOGS, AND REGISTERS</u> |                      |                                        |        |
| Cultural Resources Bibliography (CRBIB)                        |                      |                                        | x      |
| Cultural Sites Inventory (CSI)                                 |                      |                                        |        |
| List of Classified Structures (LCS)                            |                      | Being updated                          |        |
| National Catalog of Museum Objects                             |                      | x                                      |        |
| National Register of Historic Places                           |                      | Being revised                          |        |
| <u>BASIC CULTURAL RESOURCE DOCUMENTS</u>                       |                      |                                        |        |
| Archeological Overview and Assessment                          |                      |                                        | x      |
| Archeological Identification Studies                           |                      |                                        |        |
| Archeological Evaluation Studies                               |                      |                                        |        |

CULTURAL RESOURCE DOCUMENTATION CHECKLIST

| TITLE                                            | CURRENT AND APPROVED | INCOMPLETE; NEEDS REVISION OR UPDATING | NEEDED |
|--------------------------------------------------|----------------------|----------------------------------------|--------|
| <u>BASIC CULTURAL RESOURCE DOCUMENTS (cont.)</u> |                      |                                        |        |
| Ethnographic Overview & Assessment               |                      |                                        |        |
| Ethnographic Oral Histories & Life Histories     |                      |                                        |        |
| Ethnographic Program                             |                      |                                        |        |
| Historical Base Map                              |                      |                                        |        |
| Historic Resource Study (HRS)                    | x                    |                                        |        |
| Park Administrative History                      | x (1987)             |                                        |        |
| Scope of Collection Statement                    |                      | x (1982)                               |        |
| <u>SPECIAL RESOURCE STUDIES AND PLANS</u>        |                      |                                        |        |
| Archeological & Ethno. Collections Studies       |                      |                                        |        |
| Archeological Data Recovery Studies              |                      |                                        |        |
| Collection Management Plan                       |                      |                                        | x      |
| Collection Storage Plan                          |                      |                                        |        |
| Collection Condition Survey                      |                      |                                        |        |
| Cultural Landscape Report (CLR)                  |                      |                                        | x      |
| Ethnohistory                                     |                      |                                        |        |
| Exhibit Plan                                     |                      |                                        |        |
| Historic Furnishings Report                      | x (1978)             |                                        |        |
| Historic Structure Preservation Guide (HSPG)     | x (1990)             |                                        | x      |
| Lighthouse                                       |                      |                                        |        |
| Historic Structure Report Military Struct.       | x (1981)             |                                        | x      |
| Social Impact Study                              |                      |                                        |        |
| Special History Study                            |                      |                                        |        |
| Traditional Use Study                            |                      |                                        |        |

## **Condition of Cultural Resources**

### **Old Point Loma Lighthouse**

The Old Point Loma Lighthouse is a nationally significant structure on the National Register of Historic Places and is in excellent condition. The lantern, tower and roof were restored in 1981 and 1983 and the windows and doors restored in 1991. There are no environmental controls in the lighthouse, however, and the artifacts on display suffer from wide fluctuations in temperature and humidity, the presence of dust in the air and high light levels. Impacts to the structure include high visitation, and exposure to corrosive salt air and erosive winds.

### **Coast Defense System**

The military structures associated with the coast defense system on Point Loma during World Wars I and II are listed as contributing resources to the national significance of the historic district (Cabrillo NM) on the recent revision of the National Register of Historic Places Registration Form. Most of these structures are made of concrete and steel and some have wooden elements. Their condition is generally good, with some, primarily the WW I era structures, in poor condition. Impacts include occasional vandalism (graffiti, forced entry), weathering and deterioration due to age and the lack of staff necessary to perform basic preservation maintenance.

### **Archeological Sites**

The significance of the archeological sites located within the park has not been determined. They do not appear to be habitation sites, but rather places where the Native Americans stopped to eat the food gathered from the tidepools adjacent to the park. Two of the sites near the right-of-way for the proposed realignment of Gatchell Road, may be impacted by road construction. The other sites may be impacted by erosion and vandalism if discovered by visitors. Approximately 20 percent of the park has been surveyed to locate archeological sites.

### **Museum Collection**

The museum collection consists of 1202 objects with about twenty being added each year. There are approximately 200 objects that need to be catalogued in the Automated National Catalog System (ANCS). The monument's part-time curator needs to attend curatorial methods training and intermediate ANCS training. The backlog of uncatalogued items is due to the lack of time to prepare the catalog records.

There are 12 archeological, 0 ethnological, 1140 historic, 50 archival, 0 biologic, 0 paleontologic, and 0 geologic objects in

the collection.

About 400 objects are on display in the Old Point Loma Lighthouse. Except for a few objects on display in the visitor center exhibit room, the remainder are in the storage room. Although the objects are in good condition, neither those in the lighthouse or those in storage are not protected from wide fluctuations of temperature and humidity by environmental control systems. The objects are impacted by the lack of time on the part of the curator to perform regular cleaning and the lack of a Housekeeping Plan for the objects on display. Security of the collection is being upgraded by the installation of an intrusion alarm system in both the lighthouse and museum storage to detect unauthorized entry in 1994.

### Issues Facing The Monument

1. Effect of City of San Diego Clean Water Program on park and its values.

The City of San Diego is under a Cease and Desist order to upgrade its sewerage treatment facility at the Point Loma Wastewater Treatment Plant from advanced primary to secondary by the EPA. A hearing on a consent decree was held February 8, 1994, in Federal Judge Brewster's court. As the situation presently stands (1994), massive construction on the park's northwest boundary will occur no matter what the judge's decision is. These facilities would be visible from several scenic overlooks and would not be mitigatable. In addition, the park could expect increased truck traffic on Gatchell and Cabrillo roads, increased odors and a deterioration in air quality. This development is a serious threat to the historic and natural values of this park.

2. Historic landscape, Old Point Loma Lighthouse

During restoration of the Old Point Loma Lighthouse in the early 1930s, the grounds around the lighthouse were radically altered from what they had been during the period of use (1880s). The contour of the land was changed during the construction of the asphalt loop road/parking area, historic vegetation was removed, asphalt walkways were constructed and a picket fence installed where none had been before. To beautify the grounds geraniums, Monterey cypress and other non-natives were planted. As a result, the historic scene was eliminated and the lighthouse took on a picturesque appearance that bears no resemblance to that which existed during the 1880s. Restoration of the grounds to a more appropriate appearance was an objective in the 1976 Master Plan, and reconstruction of the Assistant Keeper's Quarters as a site for exhibits on the history of the lighthouse was a recommendation in the recently approved Interpretive Prospectus.

### 3. Preservation of coastal sage scrub ecosystem

Coastal chaparral in Southern California is rapidly disappearing as the population increases and the area is developed. As a result, the small enclave within the boundaries of Cabrillo N.M. is becoming more rare and important. Non-native vegetation such as acacia, eucalyptus, mealeuca, ice plant and myoporum have invaded the natural areas of the park and are being removed. In addition, erosion is occurring in many areas of the park where unrestricted visitor use has led to social trails and channeling of runoff. The resource management division is engaged in an active program of closing social trails and eroded areas to visitor use; replacing and scarifying soil; planting small native plants and spreading seeds from native plants; installing drip irrigation where feasible and covering replanted areas with erosion control mat.

### 4. Park Museum Collection Storage

The park's museum collection consists primarily of objects associated with the Old Point Loma Lighthouse and lighthouses in general, coast defense, books and other reference material. The park does not have a Collections Management Plan to guide the staff in the long-term protection, preservation and management of this collection. The study collection and the current storage area does not have environmental controls for temperature and humidity. In addition, light levels in the refurnished Old Point Loma Lighthouse are too high and the structure lacks temperature and humidity controls. Whether these are needed needs to be determined.

### 5. Deterioration of view

Over the past several years it appears that the view of San Diego from the park has deteriorated due to the increase in smog and other pollutants. The park has been known for its view of the city, mountains and coastline. As the air quality in San Diego region declines, it will adversely affect the view from the park.

### 6. Preservation of intertidal area

The National Park Service administers the intertidal area adjacent to the park through an interagency agreement with the Army Corps of Engineers. These tidepools have become increasingly popular over the years as curious adults and school children explore them. A five-year study of the impacts on plant and animal life has been funded by the Cabrillo Historical Association and is being carried out by Gary Davis, Biologist, Channel Islands N.P. At the conclusion of the study management will be provided with recommendations

based on scientific data for managing use of the tidepools in a manner that will preserve them.

#### 7. Vegetation Management

National Park Service policies, starting with the A. Starker Leopold report in the 1960s, and continuing through today, mandate removal of exotic vegetation and replacement with natives. The park is pursuing this under the project statement "Vegetation Management Plan." The positive side-effects of this will be decreased water consumption and increased acreage in native vegetation. The vegetation Management Plan needs to be updated.

#### 8. Preservation of military structures

There are 27 structures on the park's LCS related to the military history of San Diego. The recently approved Interpretive Prospectus (April, 1991) contains recommendations for interpreting the military history found within the park. An Historic Structures Preservation Guide (HSPG) should be produced to guide the park staff in the long-term care and preservation of these increasingly important structures.

### Cultural Context/Themes

The historic voyage led by Juan Rodríguez Cabrillo represents European exploration of the west coast of what became the United States. His voyage contributed to a greater understanding of North America and its eventual settlement by Europeans. This discovery is the reason for the establishment of the park. Cabrillo's story will always be the primary interpretive theme.

The Old Point Loma Lighthouse is a example of lighthouse construction and operation on the west coast of the United States during the period 1855 - 1891. It is one of the original eight lighthouses built during the 19th century in recognition of maritime development and need for navigational aids. The lighthouse was restored by the National Park Service in the 1930s, 1983, and in 1991 and is furnished to represent the 1880s period. It has been designated as a State Historic Landmark, listed on the National Register of Historic Places, and a National Historic Landmark. It is a prime example of mid-19th century lighthouse construction. Maintenance of the lighthouse is consistent with the responsibility to preserve historic sites of significance. Exotic landscaping and asphalt surrounding the lighthouse detract from the historic scene and should be removed and the historic scene restored.

The San Diego Coast Defense System on Point Loma represents a critical period in the development and history of the United States and is receiving increasing public attention and emphasis by park management. Abandoned concrete base and stations, gun mounts, search light shelters, and associated structures located near numerous public walkways were stripped of equipment prior to National Park Service acquisition. They are open to the public only under close supervision due to safety hazards involved with public use. An Historic Resources Study that inventoried all military structures at the monument in use during World Wars I and II was completed in 1988 and printed in final copy in 1991, "The Guns Of San Diego", by Erwin N. Thompson.

### Natural Themes

Tidepools lie within the administrative boundaries of the monument by virtue of the interagency agreement with the Corps of Engineers. They are the best protected examples of a tidepool system on the California coast that is open to the public. These tidepools constitute a fragile ecosystem and are vulnerable to overuse and ocean pollution.

Pacific Gray Whales, as they migrate past Point Loma, are one of the most fascinating animals that can be easily observed in their natural environment. The annual arrival of the whales is a reminder of the successful recovery of an endangered species due to public action. Although it does not occur within park boundaries, the migration has a substantial effect on the park's interpretive program. Gray whales provide a visible reminder of a successful species protection program.

A coastal chaparral ecosystem probably greeted Cabrillo when he arrived in San Diego. Coastal chaparral in California is being heavily impacted by urban development. There is a need to maintain the area's native vegetation for its intrinsic value. The native vegetation contributes to the historic scene along the eastern slope of the peninsula and supports a variety of fauna including migratory birds and small mammals. Planned restoration of native plants around the lighthouse will help to restore the historic integrity of the site. There are 2500 acres of coastal chaparral left in the United States. All coastal chaparral is identified as "sensitive" by the USFWS. Cabrillo's vegetation represents a significant part of that remaining ecosystem.

The view from the monument overlooks the landing site of Juan Rodríguez Cabrillo. It provides a panoramic view of ocean, bay, and city for up to 150 miles. The view is considered as one of the best in the world of a busy port. It is believed to be one of the primary attractions for park visitors to the monument.

## RESOURCES MANAGEMENT PROGRAMS

### Overview of Current Program and Needs

This Overview and Needs section will provide a comprehensive, step-by-step strategy for addressing the issues affecting the park. It also provides the framework for the project statements, putting them in context to clarify the timing and priority for each one.

#### 1. Effect of City of San Diego Clean Water Program on the park and its values.

Our plan to address the potential adverse impacts resulting from the proposed expansion of the San Diego Wastewater Treatment Plant (sewage plant) on the values associated with Cabrillo NM is to (1) identify this as the most important external threat affecting the park (N-014-001), (2) add a Resource Management Specialist to the staff to advise management on the impacts associated with the proposed construction program at the sewage plant (I-001) and conduct the water-quality monitoring program in the intertidal area to determine the presence, or absence, of pollutants from the plant (N-12 and N-20).

#### 2. Historic Landscape, Old Point Loma Lighthouse.

Our plan is to identify an appropriate historic context for the area around the Old Point Loma Lighthouse through the GMP planning process and then (1) to establish the landscape consistent with NPS policy (C-001), which will consist partly of using native plants, and identifying the location of historic features or reconstructing historic out-buildings, and (2) have the Resource Management Specialist lead the research process associated with restoration of the historic scene and monitor the progress of its implementation (I-001).

#### 3. Preservation of Coastal Sage Scrub.

Our plan to ensure the long-term preservation of the coastal sage scrub plant community in the park is to:

(1) conduct inventories of park flora and fauna and develop monitoring protocols (N-003 -- Conduct Inventory and Assessment: Floral Community; N-009 -- Conduct Surveys for Rare, Threatened and Endangered Plant Species; N-011 -- Inventory and Monitor Terrestrial Vertebrates; N-019 -- Inventory Insects Found in Park; N-022 -- Establish Bird Monitoring Plan; and N-023 -- Establish Lichen Monitoring Plan);

(2) study the vegetative history of the park to determine the historic role of fire in the ecosystem, and if found to have a role in the perpetuation of the native vegetation, prepare fire management and prescribed burn plans (N-010 -- Conduct Ecology and

Vegetative History of Park; N-015 -- Write and Implement Fire Management Plan; and N-018 -- Write and Implement a Prescribed Burn Plan);

(3) integrate the results of the projects listed above into a long-term monitoring program for the park (N-016 -- Prepare Inventory and Monitoring Plan and I-002 -- Integrate Monitoring for Cultural and Natural Resources);

(4) implement a Geographic Information System to store and analyze the data obtained from the above efforts (N-002 -- Implement a GIS);

(5) define solutions to accelerated erosion problems, implement them, and rehabilitate damaged areas (N-007 -- Control Erosion and Rehabilitate Damaged Areas and N-007.001 Restore Drainage Between Parking Areas 1 & 2); and

(6) work with the Navy to manage and preserve the Federal land on Point Loma as a sensitive ecological reserve of plants and animals (N-013 -- Manage the Point Loma Ecological Reserve; and I-001 -- Increase Natural and Cultural Management Staff).

#### 4. Park Museum Collection Storage.

To improve the care and management of the park's museum collection and cultural resources, the park plans to (1) upgrade the security of the museum collection by installing an intrusion alarm system in the lighthouse and storage area (C-006 -- Improve Security of Museum Collection) (2) implement a housekeeping regimen for the care and cleaning of artifacts in the lighthouse, exhibit area and museum storage (C-011 -- Write Housekeeping Plan for Lighthouse); (3) control pests in the museum and exhibit areas (N-006 Manage Pest Species); (4) add a museum technician to the staff and accession and catalog the backlog of unaccessioned and uncataloged items (C-002.000 and C-002.001 -- Care for Park Museum Collection); (5) prepare a Collection Management Plan, which outlines what needs to be done to properly care for the collection (C-009 -- Prepare Collection Management Plan); (6) develop and implement a long-term monitoring program to gauge deterioration of limestone Cabrillo statue due to exposure to weather and ocean environment (C-014 -- Prepare Monitoring Protocol for Cabrillo Statue and C-015 -- Monitor Condition of Cabrillo Statue); (7) determine whether or not environmental controls should be installed in the lighthouse to control temperature, humidity and dust (C-004 -- Study Need for Environmental Controls, Lighthouse).

#### 5. Deterioration of View.

To determine and address the perceived deterioration of the view from Cabrillo NM due to air pollution over the City of San Diego, the plan is to (1) conduct visibility monitoring to document air

pollution impacts (N-008.001 -- Conduct Air Quality Program) and (2) interpret air quality findings and issues to the public so visitors can understand the problem and take appropriate action through their elected officials (N-008.002).

#### 6. Preservation of Intertidal Areas.

The park's plan to help ensure preservation of the intertidal area adjacent to the monument is to (1) monitor visitor use patterns and impacts on the biota and respond with appropriate methods to alter visitor use patterns and impacts (N-001 -- Monitor and Restore Tidepools), and (2) work with other entities and agencies to monitor marine water quality and compile and analyze data (N-012 -- Monitor Marine Water Quality).

#### 7. Vegetation Management.

The park plans to improve its management of the vegetation in order to remove exotic plants from the park, restore coastal sage scrub habitat, reduce water consumption and efficiently use limited staff by implementing its approved Vegetation Management Plan.

#### 8. Preservation of Military Structures.

The park plans to interpret and preserve existing military structures by (1) performing preservation maintenance to selected structures (C-013 -- Provide Stabilization Treatment for Base End Station (2) documenting their history and architecture in an Historic Structures Report (HSR) (C-012 -- Historic Structures Report, Military Structures); (3) acquiring now historic "as-built" drawings (C-016 -- Acquire As-built Drawings, Military Structures); and (4) receiving guidance for their care in an Historic Structures Preservation Guide (HSPG) (C-005 -- Prepare HSPG, Military Structures).

09/30/94  
15:49:43

TABLE 1  
NPS RESOURCE PERSONNEL  
(current year only)

26  
FY: 94  
PARK: CABR  
REGION: WRO

| TYPE OF NPS EMPLOYEE            | FTEs OF RESOURCES WORK |          |       |
|---------------------------------|------------------------|----------|-------|
|                                 | Natural                | Cultural | Total |
| Research Scientists             | 0.1                    | 0.0      | 0.1   |
| Resources Specialists           | 0.0                    | 0.0      | 0.0   |
| 025 Park Rangers Res Mgmt       | 1.4                    | 0.3      | 1.7   |
| 025 Park Rangers Res Prot       | 0.3                    | 0.0      | 0.3   |
| 025 Park Rangers Res Interp     | 0.5                    | 0.5      | 1.0   |
| Maintenance Personnel           | 0.0                    | 0.0      | 0.0   |
| Total of RES Personnel          | 2.3                    | 0.8      | 3.1   |
| TOTAL PARK FTE: 22.0<br>PERCENT | 10.5%                  | 3.6%     | 14.1% |

End of data

09/30/94  
15:49:18

TABLE 2  
NATURAL AND CULTURAL  
CURRENT YEAR FUNDING  
(\$ in thousands - by activity type)

27  
Page: 0001  
FY: 94  
PARK: CABR  
REGION: WRO

| FUNDING<br>SOURCE | TOTAL  | RES   | MIT   | MON  | PRO   | INT   | ADM  |
|-------------------|--------|-------|-------|------|-------|-------|------|
| POF1              | 44.00  | 0.00  | 0.00  | 0.00 | 10.00 | 29.00 | 5.00 |
| PCR1              | 6.00   | 0.00  | 6.00  | 0.00 | 0.00  | 0.00  | 0.00 |
| RMRR              | 25.00  | 0.00  | 0.00  | 0.00 | 25.00 | 0.00  | 0.00 |
| NDON              | 6.00   | 6.00  | 0.00  | 0.00 | 0.00  | 0.00  | 0.00 |
| PNR1              | 23.00  | 0.00  | 15.00 | 3.00 | 2.00  | 0.00  | 3.00 |
| RNRM              | 5.00   | 5.00  | 0.00  | 0.00 | 0.00  | 0.00  | 0.00 |
| TOTAL             | 109.00 | 11.00 | 21.00 | 3.00 | 37.00 | 29.00 | 8.00 |

End of data

09/30/94  
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PROGRAMMING SHEET 1  
NATURAL  
CURRENT YEAR FUNDED ACTIVITIES  
(\$ in thousands)

28  
Page: 0001  
FY: 94  
PARK: CABR  
REGION: WRO

| PROJECT<br>NUMBER  | PROJECT TITLE                                        | PKG<br>NUM | CULT<br>RES<br>TYPE | SYSTEM-<br>WIDE<br>ISSUE | FUNDING<br>SOURCE | ACT<br>TYP    | CURRENT YEAR<br>1994 |     | OUTYEAR 1<br>1995 |     | OUTYEAR 2<br>1996 |     | OUTYEAR 3<br>1997 |     | TOTAL  |     |
|--------------------|------------------------------------------------------|------------|---------------------|--------------------------|-------------------|---------------|----------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|--------|-----|
|                    |                                                      |            |                     |                          |                   |               | \$\$                 | FTE | \$\$              | FTE | \$\$              | FTE | \$\$              | FTE | \$\$   | FTE |
| 001.000            | MONITOR AND<br>RESTORE<br>TIDEPOOLS.                 |            |                     |                          | N02 N09 \$-DONATE | RES           | 6.00                 | 0.1 | 0.0               | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 6.00   | 0.1 |
|                    |                                                      |            |                     |                          | PKBASE-OT         | INT           | 20.00                | 0.5 | 20.00             | 0.5 | 20.00             | 0.5 | 20.00             | 0.5 | 80.00  | 2.0 |
|                    |                                                      |            |                     |                          | \$-DONATE         | MON           | 0.0                  | 0.0 | 7.90              | 0.0 | 8.30              | 0.0 | 8.70              | 0.0 | 24.90  | 0.0 |
|                    |                                                      |            |                     |                          | Subtotal          |               | 26.00                | 0.6 | 27.90             | 0.5 | 28.30             | 0.5 | 28.70             | 0.5 | 110.90 | 2.1 |
| 002.000            | IMPLEMENT A GIS                                      |            |                     |                          | N16 N17 PKBASE-NR | MON           | 3.00                 | 0.1 | 0.0               | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 3.00   | 0.1 |
| 004.000            | IMPLEMENT<br>VEGETATION<br>MANAGEMENT PLAN           |            |                     |                          | N03 N05 PKBASE-NR | MIT           | 10.00                | 1.0 | 10.00             | 1.0 | 10.00             | 1.0 | 6.00              | 0.3 | 36.00  | 3.3 |
| 006.000            | MANAGE PEST<br>SPECIES                               |            |                     |                          | C12               | PKBASE-NR PRO | 2.00                 | 0.1 | 0.0               | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 2.00   | 0.1 |
| 007.000            | CONTROL EROSION<br>AND REHABILITATE<br>DAMAGED AREAS |            |                     |                          | CULL N06 N22      | PKBASE-NR MIT | 5.00                 | 0.3 | 5.00              | 0.3 | 5.00              | 0.3 | 5.00              | 0.3 | 20.00  | 1.2 |
| 008.000            | CONDUCT ECOLOGY<br>AND VEGETATIVE<br>HISTORY OF PARK |            |                     |                          | N07 N20           | RG-RM-NAT RES | 5.00                 | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 5.00   | 0.0 |
| 013.000            | MANAGE THE POINT<br>LOMA ECOLOGICAL<br>RESERVE       |            |                     |                          | N03 N06           | PKBASE-NR ADM | 3.00                 | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 3.00   | 0.0 |
| 014.000            | EXTERNAL THREAT<br>1                                 |            |                     |                          | N16 N11           | PKBASE-OT PRO | 10.00                | 0.1 | 10.00             | 0.1 | 0.0               | 0.0 | 0.0               | 0.0 | 20.00  | 0.2 |
|                    |                                                      |            |                     |                          |                   | PKBASE-OT ADM | 5.00                 | 0.1 | 0.0               | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 5.00   | 0.1 |
|                    |                                                      |            |                     |                          | Subtotal          |               | 15.00                | 0.2 | 10.00             | 0.1 | 0.00              | 0.0 | 0.00              | 0.0 | 25.00  | 0.3 |
| 016.000            | PREPARE<br>INVENTORY AND<br>MONITORING PLAN          |            |                     |                          | N03 N20           | PKBASE-NR ADM | 0.0                  | 0.0 | 2.00              | 0.0 | 0.0               | 0.0 | 0.0               | 0.0 | 2.00   | 0.0 |
| 9 projects printed |                                                      |            |                     |                          |                   |               |                      |     |                   |     |                   |     |                   |     |        |     |
| Grand Total        |                                                      |            |                     |                          |                   |               | 69.00                | 2.3 | 54.90             | 1.9 | 43.30             | 1.8 | 39.70             | 1.1 | 206.90 | 7.1 |

End of data

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PROGRAMMING SHEET 1  
CULTURAL  
CURRENT YEAR FUNDED ACTIVITIES  
(\$ in thousands)

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PARK: CAGR  
REGION:

| PROJECT<br>NUMBER  | PROJECT TITLE                                   | PKG<br>NUM | CULT<br>RES<br>TYPE | SYSTEM-<br>WIDE<br>ISSUE | FUNDING<br>SOURCE              | ACT<br>TYP | CURRENT YEAR<br>1994<br>\$\$ FTE |            | OUTYEAR 1<br>1995<br>\$\$ FTE |            | OUTYEAR 2<br>1996<br>\$\$ FTE |            | OUTYEAR 3<br>1997<br>\$\$ FTE |            | TOTAL<br>\$\$ FTE |            |
|--------------------|-------------------------------------------------|------------|---------------------|--------------------------|--------------------------------|------------|----------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------|------------|
| 002.000            | CARE FOR PARK<br>MUSEUM<br>COLLECTION           |            |                     | OBJC C16                 | PKBASE-OT INT<br>PKBASE-CR MIT |            | 9.00<br>6.00                     | 0.5<br>0.3 | 9.00<br>6.00                  | 0.5<br>0.3 | 9.00<br>6.00                  | 0.5<br>0.3 | 9.00<br>6.00                  | 0.5<br>0.3 | 36.00<br>24.00    | 2.0<br>1.2 |
|                    |                                                 |            |                     |                          | Subtotal                       |            | 15.00                            | 0.8        | 15.00                         | 0.8        | 15.00                         | 0.8        | 15.00                         | 0.8        | 60.00             | 3.2        |
| 006.000            | IMPROVE SECURITY 166<br>OF MUSEUM<br>COLLECTION |            |                     | OBJC C20                 | REP-REHAB PRO                  |            | 25.00                            | 0.0        | 0.0                           | 0.0        | 0.0                           | 0.0        | 0.0                           | 0.0        | 25.00             | 0.0        |
| 2 projects printed |                                                 |            |                     |                          | Grand Total                    |            | 40.00                            | 0.8        | 15.00                         | 0.8        | 15.00                         | 0.8        | 15.00                         | 0.8        | 85.00             | 3.2        |

End of data

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## PROGRAMMING SHEET 1

NATURAL and CULTURAL

CURRENT YEAR FUNDED ACTIVITIES

(\$ in thousands)

Page: 0001

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PARK: CABR

REGION: WRO

| PROJECT<br>NUMBER | PROJECT TITLE | PKG<br>NUM | CULT<br>RES<br>TYPE | SYSTEM-<br>WIDE<br>ISSUE | FUNDING<br>SOURCE | ACT<br>TYP | CURRENT YEAR<br>1994<br>\$\$ FTE | OUTYEAR 1<br>1995<br>\$\$ FTE | OUTYEAR 2<br>1996<br>\$\$ FTE | OUTYEAR 3<br>1997<br>\$\$ FTE | TOTAL<br>\$\$ FTE |
|-------------------|---------------|------------|---------------------|--------------------------|-------------------|------------|----------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------|
| No relevant data  |               |            |                     |                          |                   |            |                                  |                               |                               |                               |                   |

End of data

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PROGRAMMING SHEET 2  
NATURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

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PARK: CABK  
REGION: 00

| PK  | PROJECT | PROJECT TITL                                                       | PKG | CULT | SYSTEM | FUNDING                | ACT | STARTING YEAR | OUTYEAR 1 | OUTYEAR 2 | OUTYEAR 3 | TOTAL      |
|-----|---------|--------------------------------------------------------------------|-----|------|--------|------------------------|-----|---------------|-----------|-----------|-----------|------------|
| PRI | NUMBER  |                                                                    | NUM | RES  | WIDE   | SOURCE                 | TYP |               |           |           |           |            |
|     |         |                                                                    |     | TYPE | ISSUE  |                        |     | \$\$ FTE      | \$\$ FTE  | \$\$ FTE  | \$\$ FTE  | \$\$ FTE   |
| 2   | 001.000 | MONITOR AND RESTORE TIDEPOLS.                                      |     |      |        | N02 N09 PKBASE-NR      | PRO | 0.0 0.0       | 0.0 0.0   | 0.0 0.0   | 38.00 1.0 | 38.00 1.0  |
|     |         |                                                                    |     |      |        | PKBASE-NR              | ADM | 0.0 0.0       | 0.0 0.0   | 0.0 0.0   | 12.00 0.0 | 12.00 0.0  |
|     |         |                                                                    |     |      |        | Subtotal               |     | 0.00 0.0      | 0.00 0.0  | 0.00 0.0  | 50.00 1.0 | 50.00 1.0  |
| 4   | 009.000 | CONDUCT SURVEYS FOR R.T. AND E. PLANT SPECIES                      |     |      |        | N03 N20 RG-RM-NAT      | RES | 20.00 0.1     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 20.00 0.1  |
| 5   | 011.000 | INVENTORY AND MONITOR TERRESTRIAL VERTEBRATES                      | 163 |      |        | N17 N20 RG-NS-RES      | RES | 15.00 0.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 15.00 0.0  |
|     |         |                                                                    |     |      |        | RG-NS-RES              | MON | 0.0 0.0       | 5.00 0.0  | 5.00 0.0  | 5.00 0.0  | 15.00 0.0  |
|     |         |                                                                    |     |      |        | Subtotal               |     | 15.00 0.0     | 5.00 0.0  | 5.00 0.0  | 5.00 0.0  | 30.00 0.0  |
| 8   | 007.001 | CONTROL EROSION AND RESTORE ERODED AREAS RESTORE DRAINAGE BETW 1&2 |     |      |        | N06 N09 RG-RM-NAT      | MIT | 100.00 0.3    | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 100.00 0.3 |
| 12  | 007.000 | CONTROL EROSION AND REHABILITATE DAMAGED AREAS                     |     |      |        | CULL N06 N22 RG-REG-MT | MIT | 7.00 0.0      | 30.00 0.0 | 2.00 0.0  | 0.0 0.0   | 39.00 0.0  |
| 15  | 012.000 | MONITOR MARINE WATER QUALITY                                       |     |      |        | N11 N20 PKBASE-NR      | MON | 5.00 0.1      | 5.00 0.1  | 5.00 0.1  | 5.00 0.1  | 20.00 0.4  |
| 20  | 015.000 | WRITE AND IMPLEMENT FIRE MANAGEMENT PLAN                           |     |      |        | N06 N07 PKBASE-NR      | PRO | 30.00 0.5     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 30.00 0.5  |
| 21  | 018.000 | WRITE AND IMPLEMENT A PRESCRIBED BURN PLAN                         |     |      |        | N07 N06 RG-RM-NAT      | PRO | 30.00 0.3     | 2.00 0.1  | 2.00 0.1  | 2.00 0.1  | 36.00 0.6  |

continued...

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PROGRAMMING SHEET 2  
NATURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

Page: 0002  
FY: 94  
PARK: CABR  
REGION: WRO

| PK            | PROJECT | PROJECT TITL                                                        | PKG | CULT | SYSTEM- | FUNDING   | ACT | STARTING YEAR | OUTYEAR 1 | OUTYEAR 2 | OUTYEAR 3 | TOTAL      |
|---------------|---------|---------------------------------------------------------------------|-----|------|---------|-----------|-----|---------------|-----------|-----------|-----------|------------|
| PRI           | NUMBER  |                                                                     | NUM | RES  | WIDE    | SOURCE    | TYP |               |           |           |           |            |
|               |         |                                                                     |     | TYPE | ISSUE   |           |     | \$\$ FTE      | \$\$ FTE  | \$\$ FTE  | \$\$ FTE  | \$\$ FTE   |
| 22            | 019.000 | INVENTORY<br>INSECTS<br>FOUND IN<br>PARK                            |     | N20  | N17     | RG-RM-NAT | INT | 30.00 0.3     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 30.00 0.3  |
| 23            | 022.000 | ESTABLISH<br>BIRD<br>MONITORING<br>PROGRAM                          |     | N02  | N17     | VOL-INDEP | MON | 0.00 0.0      | 0.00 0.0  | 0.00 0.0  | 0.00 0.0  | 0.00 0.0   |
|               |         |                                                                     |     |      |         | RG-RM-NAT | MON | 15.00 0.3     | 15.00 0.3 | 15.00 0.3 | 15.00 0.3 | 60.00 1.2  |
|               |         |                                                                     |     |      |         | Subtotal  |     | 15.00 0.3     | 15.00 0.3 | 15.00 0.3 | 15.00 0.3 | 60.00 1.2  |
| 24            | 008.001 | CONDUCT AIR<br>QUALITY<br>PROGRAM<br>CONDUCT<br>VISIBILITY<br>MONIT |     | N14  |         | REG-OTHER | MON | 6.00 0.1      | 6.00 0.1  | 6.00 0.1  | 6.00 0.1  | 24.00 0.4  |
| 24            | 008.002 | CONDUCT AIR<br>QUALITY<br>PROGRAM<br>INTERPRET<br>AIR QUALITY       |     | N14  |         | AIR-QUAL  | MON | 40.00 0.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 40.00 0.0  |
| Project Total |         |                                                                     |     |      |         |           |     | 46.00 0.1     | 6.00 0.1  | 6.00 0.1  | 6.00 0.1  | 64.00 0.4  |
| 25            | 023.000 | ESTABLISH<br>LICHEN<br>MONITORING<br>PROGRAM                        |     | N17  | N24     | RG-RM-NAT | MON | 20.00 0.2     | 20.00 0.2 | 20.00 0.2 | 20.00 0.2 | 80.00 0.8  |
| 999           | 002.000 | IMPLEMENT A<br>GIS                                                  |     | N16  | N17     | PKBASE-NR | MON | 20.00 0.5     | 20.00 0.5 | 10.00 0.2 | 10.00 0.2 | 60.00 1.4  |
| 999           | 003.000 | CONDUCT<br>INVENTORY<br>AND<br>ASSESSMENT:<br>FLORA<br>COMMUNITY    |     | N20  |         | NON-NPS-O | MON | 0.0 0.0       | 10.00 0.3 | 10.00 0.3 | 0.0 0.0   | 20.00 0.6  |
|               |         |                                                                     |     |      |         | NON-NPS-O | ADM | 0.0 0.0       | 5.00 0.3  | 5.00 0.0  | 0.0 0.0   | 10.00 0.3  |
|               |         |                                                                     |     |      |         | Subtotal  |     | 0.00 0.0      | 15.00 0.6 | 15.00 0.3 | 0.00 0.0  | 30.00 0.9  |
| 999           | 013.000 | MANAGE THE<br>POINT LOMA<br>ECOLOGICAL<br>RESERVE                   |     | N03  | N06     | RG-RM-NAT | PRO | 35.00 1.0     | 35.00 1.0 | 37.00 1.0 | 0.0 0.0   | 107.00 3.0 |
|               |         |                                                                     |     |      |         | PKBASE-NR | PRO | 0.0 0.0       | 0.0 0.0   | 0.0 0.0   | 37.00 1.0 | 37.00 1.0  |
|               |         |                                                                     |     |      |         | Subtotal  |     | 35.00 1.0     | 35.00 1.0 | 37.00 1.0 | 37.00 1.0 | 144.00 4.0 |

continued...

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## PROGRAMMING SHEET 2

NATURAL

UNFUNDED ACTIVITIES

(\$ in thousands)

Page: 0003

FY: 24

PARK

REGION: WRO

| PK                  | PROJECT | PROJECT TITL | PKG | CULT | SYSTEM- | FUNDING               | ACT | STARTING YEAR | OUTYEAR 1  | OUTYEAR 2  | OUTYEAR 3  | TOTAL       |
|---------------------|---------|--------------|-----|------|---------|-----------------------|-----|---------------|------------|------------|------------|-------------|
| PRI                 | NUMBER  |              | NUM | RES  | WIDE    | SOURCE                | TYP |               |            |            |            |             |
|                     |         |              |     | TYPE | ISSUE   |                       |     | \$S FTE       | \$S FTE    | \$S FTE    | \$S FTE    | \$S FTE     |
| 999                 | 014.000 | EXTERNAL     |     |      |         | N16 N11 FED-OTHER PRO |     | 20.00 0.2     | 20.00 0.2  | 0.0 0.0    | 0.0 0.0    | 40.00 0.4   |
|                     |         | THREAT 1     |     |      |         |                       |     |               |            |            |            |             |
| 17 projects printed |         |              |     |      |         |                       |     |               |            |            |            |             |
| Grand Total         |         |              |     |      |         |                       |     | 393.00 3.9    | 173.00 3.1 | 117.00 2.3 | 150.00 3.0 | 833.00 12.3 |

End of data

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PROGRAMMING SHEET 2  
CULTURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

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PARK: CABR  
REGION: WRO

| PK  | PROJECT | PROJECT TITL                                                     | PKG | CULT | SYSTEM  | FUNDING    | ACT | STARTING YEAR | OUTYEAR 1 | OUTYEAR 2 | OUTYEAR 3 | TOTAL     |
|-----|---------|------------------------------------------------------------------|-----|------|---------|------------|-----|---------------|-----------|-----------|-----------|-----------|
| PRI | NUMBER  |                                                                  | NUM | RES  | WIDE    | SOURCE     | TYP |               |           |           |           |           |
|     |         |                                                                  |     | TYPE | ISSUE   |            |     | \$\$ FTE      | \$\$ FTE  | \$\$ FTE  | \$\$ FTE  | \$\$ FTE  |
| 0   | 011.000 | WRITE<br>HOUSEKEEPING<br>PLAN FOR<br>LIGHTHOUSE                  |     | OBJC | C15 C24 | PKBASE-CR  | PRO | 3.00 0.1      | 3.00 0.1  | 3.00 0.1  | 3.00 0.1  | 12.00 0.4 |
| 3   | 002.000 | CARE FOR<br>PARK MUSEUM<br>COLLECTION                            |     | OBJC | C16     | PKBASE-CR  | PRO | 12.40 0.7     | 12.80 0.7 | 13.20 0.7 | 13.80 0.7 | 52.20 2.8 |
| 6   | 009.000 | PREPARE<br>COLLECTION<br>MANAGEMENT<br>PLAN                      |     | OBJC | C09 C16 | PKBASE-CR  | PRO | 10.00 0.2     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 10.00 0.2 |
| 9   | 014.000 | PREPARE<br>MONITORING<br>PROTOCOL FOR<br>CABRILLO<br>STATUE      |     | OBJC | C01 C10 | RG-CR-MTN  | PRO | 20.00 0.2     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 20.00 0.2 |
| 10  | 015.000 | MONITOR<br>CONDITION OF<br>CABRILLO<br>STATUE                    |     | STRC | C19     | PKBASE-CR  | PRO | 2.00 0.1      | 2.00 0.1  | 2.00 0.1  | 2.00 0.1  | 8.00 0.4  |
| 11  | 012.000 | HISTORIC<br>STRUCTURES<br>REPORT,<br>MILITARY<br>STRUCTURES      |     | STRC | C01 C05 | PKBASE-CR  | PRO | 50.00 0.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 50.00 0.0 |
| 14  | 004.001 | STUDY NEED<br>FOR<br>ENVIRONMENTA<br>L CONTROLS<br>LIGHTHOUSE    |     | OBJC | C15 C16 | REP-REHAB  | PRO | 77.00 0.0     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 77.00 0.0 |
| 16  | 016.000 | ACQUIRE<br>AS-BUILT<br>CONSTRUCTION<br>DRAWINGS,<br>MILITARY STR |     | STRC | C01 C08 | SPECIAL-\$ | RES | 40.00 0.2     | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 40.00 0.2 |
| 16  | 010.000 | UPDATE<br>CULTURAL<br>RESOURCE<br>BIBLIOGRAPHY                   |     | COMB | C01     | PKBASE-CR  | RES | 3.00 0.2      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 3.00 0.2  |

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PROGRAMMING SHEET 2  
CULTURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

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PARK:  
REGION:

| PK                  | PROJECT | PROJECT TITL                                                     | PKG | CULT | SYSTEM- | FUNDING | ACT           | STARTING YEAR | OUTYEAR 1 | OUTYEAR 2 | OUTYEAR 3 | TOTAL      |
|---------------------|---------|------------------------------------------------------------------|-----|------|---------|---------|---------------|---------------|-----------|-----------|-----------|------------|
| PRI                 | NUMBER  |                                                                  | NUM | RES  | WIDE    | SOURCE  | TYP           |               |           |           |           |            |
|                     |         |                                                                  |     | TYPE | ISSUE   |         |               | \$ \$ FTE     | \$ \$ FTE | \$ \$ FTE | \$ \$ FTE | \$ \$ FTE  |
| 18                  | 005.000 | PREPARE<br>HSPG,<br>MILITARY<br>STRUCTURES                       |     | STRC | C06     | C15     | RG-CR-MTN PRO | 100.00 1.0    | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 100.00 1.0 |
| 19                  | 008.000 | CONDUCT<br>ARCHEOLOGICA<br>L OVERVIEW<br>AND<br>ASSESSMENT       |     | SITE | C01     | C14     | PKBASE-CR ADM | 6.00 0.2      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 6.00 0.2   |
| 999                 | 013.000 | PROVIDE<br>STABILIZATIO<br>N TREATMENT<br>FOR BASE END<br>STATIO |     | STRC | C12     | C15     | FED-OTHER PRO | 5.00 0.2      | 0.0 0.0   | 0.0 0.0   | 0.0 0.0   | 5.00 0.2   |
| 12 projects printed |         |                                                                  |     |      |         |         |               |               |           |           |           |            |
| Grand Total         |         |                                                                  |     |      |         |         |               | 328.40 3.1    | 17.80 0.9 | 18.20 0.9 | 18.80 0.9 | 383.20     |

End of data

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PROGRAMMING SHEET 2  
NATURAL and CULTURAL  
UNFUNDED ACTIVITIES  
(\$ in thousands)

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FY: 94  
PARK: CAGR  
REGION: WRO

| PK                 | PROJECT | PROJECT TITL | PKG | CULT | SYSTEM- | FUNDING       | ACT | STARTING YEAR | OUTYEAR 1 | OUTYEAR 2 | OUTYEAR 3 | TOTAL |     |        |     |        |     |
|--------------------|---------|--------------|-----|------|---------|---------------|-----|---------------|-----------|-----------|-----------|-------|-----|--------|-----|--------|-----|
| PRI                | NUMBER  |              | NUM | RES  | WIDE    | SOURCE        | TYP |               |           |           |           |       |     |        |     |        |     |
|                    |         |              |     | TYPE | ISSUE   |               |     | \$\$          | FTE       | \$\$      | FTE       | \$\$  | FTE |        |     |        |     |
| 1                  | 001.000 | INCREASE     |     | COMB | C24 N24 | PKBASE-NR PRO |     | 26.00         | 1.0       | 27.00     | 1.0       | 28.00 | 1.0 | 110.00 | 4.0 |        |     |
|                    |         | NATURAL AND  |     |      |         | PKBASE-NR ADM |     | 4.00          | 0.0       | 4.00      | 0.0       | 4.00  | 0.0 | 16.00  | 0.0 |        |     |
|                    |         | CULTURAL     |     |      |         |               |     |               |           |           |           |       |     |        |     |        |     |
|                    |         | MANAGEMENT   |     |      |         | Subtotal      |     | 30.00         | 1.0       | 31.00     | 1.0       | 32.00 | 1.0 | 126.00 | 4.0 |        |     |
|                    |         | STAFF        |     |      |         |               |     |               |           |           |           |       |     |        |     |        |     |
| 1                  | 001.002 | INCREASE     |     | COMB | N24 C26 | PKBASE-OT PRO |     | 19.00         | 1.0       | 19.00     | 1.0       | 19.00 | 1.0 | 77.00  | 4.0 |        |     |
|                    |         | NATURAL AND  |     |      |         | PKBASE-OT MIT |     | 5.00          | 0.0       | 5.00      | 1.0       | 5.00  | 0.0 | 21.00  | 1.0 |        |     |
|                    |         | CULTURAL     |     |      |         |               |     |               |           |           |           |       |     |        |     |        |     |
|                    |         | MANAGEMENT   |     |      |         | Subtotal      |     | 24.00         | 1.0       | 24.00     | 2.0       | 24.00 | 1.0 | 98.00  | 5.0 |        |     |
|                    |         | STAFF        |     |      |         |               |     |               |           |           |           |       |     |        |     |        |     |
|                    |         | PROGRAM      |     |      |         |               |     |               |           |           |           |       |     |        |     |        |     |
|                    |         | ADMINISTRATI |     |      |         |               |     |               |           |           |           |       |     |        |     |        |     |
|                    |         | ON           |     |      |         |               |     |               |           |           |           |       |     |        |     |        |     |
| 13                 | 002.000 | INTEGRATE    |     | COMB | N20 C19 | PKBASE-NR ADM |     | 40.00         | 0.0       | 2.00      | 0.0       | 2.00  | 0.0 | 46.00  | 0.0 |        |     |
|                    |         | MONITORING   |     |      |         | PKBASE-NR PRO |     | 0.0           | 0.0       | 7.00      | 0.2       | 7.00  | 0.2 | 21.00  | 0.6 |        |     |
|                    |         | FOR CULTURAL |     |      |         |               |     |               |           |           |           |       |     |        |     |        |     |
|                    |         | AND NATURAL  |     |      |         | Subtotal      |     | 40.00         | 0.0       | 9.00      | 0.2       | 9.00  | 0.2 | 67.00  | 0.6 |        |     |
|                    |         | RESOU        |     |      |         |               |     |               |           |           |           |       |     |        |     |        |     |
| 3 projects printed |         |              |     |      |         |               |     |               |           |           |           |       |     |        |     |        |     |
| Grand Total        |         |              |     |      |         |               |     | 94.00         | 2.0       | 64.00     | 3.2       | 65.00 | 2.2 | 68.00  | 2.2 | 291.00 | 9.6 |

End of data

PROJECT NUMBER: CABR-C-001.000

TITLE: RESTORE LIGHTHOUSE HISTORIC SCENE

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 50.00

SERVICEWIDE ISSUES: C13 REHAB/RESTORAT

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER: 133

PROBLEM STATEMENT:

Problem Statement: The Old Point Loma Lighthouse was constructed in 1854-55 and was in active use until 1891 when the new lighthouse was constructed at a lower elevation. It is one of the surviving original eight lighthouses built by the U.S. Government after California became part of the United States. After abandonment the building suffered from vandalism. In the early 1900s, the assistant keepers quarters and other wooden out buildings were torn down. It is believed that soldiers from nearby Fort Rosecrans removed the wooden buildings and reconstructed them in the form of personal housing closer to the fort's headquarters. The monument was created in 1913 by President Woodrow Wilson. In the 1930s, when the lighthouse and  $\frac{1}{2}$  acre of land were all there was to Cabrillo National Monument, the National Park Service repaired and restored the termite infested lighthouse, added a comfort station at the west side and graded a large parking lot all around the perimeter of the lighthouse for the visitors who were already coming to the park. The removal of the outbuildings and the creation of the parking lot obliterated the historic scene. In the Mission 66 period, additional lands and development occurred to enlarge the park to 80 acres and remove parking from the lighthouse area. In 1982, a large 2 acre parking lot south of the lighthouse was restored to native landscape. However, the large parking lot around the Lighthouse is still there and the outbuildings are still absent. The interpretive period of the Old Point Loma lighthouse is the 1880s. What exists now is an 1880s building surrounded by a modern parking lot, exotic vegetation, and no outbuildings. The scene is historically inaccurate giving the visiting public an incorrect historical interpretation of what occurred and what the area looked like.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Remove exotic vegetation and replace with native vegetation. Obtain accurate ground elevations using computer aided design and existing historic photographs and recreate historic ground contours. Remove most of the street paving leaving a perimeter path for visitor access. Recreate the historic outbuildings and

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-001.000

PS Page: 0002

move interpretive exhibits about the lighthouse into them.

This will answer questions in peoples minds and recreate the correct historic scene. It will avoid creating historical inaccuracies. It will bring back to life the Old Point Loma Lighthouse of 1880. Restoration of the historic scene was recommended in the Interpretive Prospectus (approved 1991).

Funding is needed to support the development of this project. First a development package is required to fully understand costs that will follow.

## BUDGET AND FTEs:

| -----FUNDED----- |     |      |                  |      |
|------------------|-----|------|------------------|------|
| Source           | Act | Type | Budget (\$1000s) | FTEs |
| Year 1:          |     |      |                  |      |
| Year 2:          |     |      |                  |      |
| Year 3:          |     |      |                  |      |
| Year 4:          |     |      |                  |      |

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

| -----UNFUNDED----- |            |      |                  |      |
|--------------------|------------|------|------------------|------|
| Source             | Act        | Type | Budget (\$1000s) | FTEs |
| Year 1:            | SPECIAL-\$ | MIT  | 50.00            | 0.0  |
| Year 2:            |            |      |                  |      |
| Year 3:            |            |      |                  |      |
| Year 4:            |            |      |                  |      |

|        |       |     |
|--------|-------|-----|
| Total: | 50.00 | 0.0 |
|--------|-------|-----|

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. Continue With current landscape. Historic authenticity is compromised. Visitors are given an incorrect view of what life was like in the 1880s period. The continuation of this inaccurate historic scene will impair the visitors appreciation of the park.

COMPLIANCE CODE(s): 106 NHPA

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-C-001.000  
PS Page: 0003

EXPLANATION:

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-C-002.000

PS Page: 0004

PROJECT NUMBER: CABR-C-002.000

TITLE: CARE FOR PARK MUSEUM COLLECTION

FUNDING STATUS: FUNDED: 60.00 UNFUNDED: 52.20

SERVICEWIDE ISSUES: C16 MUS STORAGE

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

Cabrillo N.M. has a museum collection of approximately 1200 items. Approximately 400 of these objects are on permanent exhibit in the Old Point Loma Lighthouse. The museum objects center primarily around the lighthouse, civilian and military history themes of the park, and the history of the monument.

To maintain the collection, there are a number of actions that need to be accomplished annually: prepare Collection Management Report (form 10-94); conduct Annual Inventory for Museum Property; IPM Monitoring; curatorial housekeeping, cleaning and waxing furniture, washing textiles, etc; curatorial record keeping (accession and catalog records); review and revise as necessary the Scope of Collection Statement; record and analyse temperatures and relative humidity of all spaces with museum objects; accession and catalog incoming objects. There are a large number of objects that need preservation treatment, and that have to be photographed. Environmental recording and some cataloging is being done at this time solely by .3 FTE of a GS-5 permanent position and is not adequate.

There was a full-time Museum Technician in the past but that position went to fee collection in 1988. An interpretive position has been assigned 30% of their duties to curatorial work. This position was filled in 1991. This 30% assignment is not adequate to accomplish the work that needs to be done to bring the collection up to standard. Currently, some work is done by volunteers, some work is done by the Chief Ranger, and the new collateral duty position is beginning to come on line.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Provide full-time permanent Museum Technician to care for the collection. This would ensure that a trained person would be on the staff to accomplish work that needs to be done to properly care for the museum collection. It would ensure continuity of work and record keeping. After work was brought up to standard, it would ensure that the park collection remains in compliance.

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## PROJECT STATEMENT SHEET

CABR-C-002.000

PS Page: 0005

## BUDGET AND FTEs:

| -----FUNDED----- |           |           |                  |      |
|------------------|-----------|-----------|------------------|------|
|                  | Source    | Act Type  | Budget (\$1000s) | FTEs |
| Year 1:          | PKBASE-OT | INT       | 9.00             | 0.5  |
|                  | PKBASE-CR | MIT       | 6.00             | 0.3  |
|                  |           | Subtotal: | 15.00            | 0.8  |
| Year 2:          | PKBASE-OT | INT       | 9.00             | 0.5  |
|                  | PKBASE-CR | MIT       | 6.00             | 0.3  |
|                  |           | Subtotal: | 15.00            | 0.8  |
| Year 3:          | PKBASE-OT | INT       | 9.00             | 0.5  |
|                  | PKBASE-CR | MIT       | 6.00             | 0.3  |
|                  |           | Subtotal: | 15.00            | 0.8  |
| Year 4:          | PKBASE-OT | INT       | 9.00             | 0.5  |
|                  | PKBASE-CR | MIT       | 6.00             | 0.3  |
|                  |           | Subtotal: | 15.00            | 0.8  |
|                  |           | Total:    | 60.00            | 3.2  |

| -----UNFUNDED----- |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-CR | PRO      | 12.40            | 0.7  |
| Year 2:            | PKBASE-CR | PRO      | 12.80            | 0.7  |
| Year 3:            | PKBASE-CR | PRO      | 13.20            | 0.7  |
| Year 4:            | PKBASE-CR | PRO      | 13.80            | 0.7  |
|                    |           | Total:   | 52.20            | 2.8  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. No Action. This will result in non-compliance with NPS-28, Manual for Museums, Museum Handbook: Part II, and Special Directive 80-1 (revised). Routine housekeeping, record keeping, environmental monitoring and analysis, elimination of backlog of uncataloged itmes will not be accomplished.

b. Management of collection as presently exists, 30% interpretive position, 5% Chief Ranger, and volunteers. This

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-C-002.000

PS Page: 0006

situation, even after the 30% position is trained and comes to a complete understanding of the collection, will not be able to complete all the work that comprises the proper care of the collection.

c. Management of collection through seasonal technicians. This solution would accomplish a great deal and money is being sought through cyclic maintenance monies. There would be no continuity of personnel and the backlog of work would not be accomplished.

COMPLIANCE CODE(s):

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-002.001

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PROJECT NUMBER: CABR-C-002.001

TITLE: CARE FOR PARK MUSEUM COLLECTION

SUBPROJECT TITLE: AUTOMATED CATALOGING SYS

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: C03 MUS CATALOGING

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

In fall 1987, the Automated National Catalog System (ANCS) was issued to field personnel from the Curatorial Services Division, WASO. It has been updated once since then. The Museum Technician at that time entered all existing catalog records into ANCS. It was updated in 1990 by a temporary hired with cooperating association money. However, the permanent Museum Technician resigned from the service and the job title has been changed to fee collection. There has been a full-time employee, assigned at 30% of her time, to the museum collection. There is a great deal of routine curatorial work and reports that occupy that 30%. As a result, there are many artifacts that have been donated to the park that have not been accessioned or catalogued including several hundred documents. There are also several hundred objects that need to be cataloged.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Accession and Catalog Items Using Monument Staff. Eliminate current backlog of artifacts needing to be catalogued and maintain at that level. The current 30% collateral duty position will begin cataloging objects but training must first be provided in ANCS to have this person perform to maximum. The optimum action would be to restore a full time person to the museum collection. The park museum technician should be responsible for accessioning and cataloging all items not currently in the ANCS. New items are constantly being added to the museum collection. Two hundred have been added in the last 1 ½ years.

## BUDGET AND FTEs:

-----FUND-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Year 2:

Proposal Date: 94

## PROJECT STATEMENT SHEET

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Year 3:

Year 4:

|        |       |      |     |
|--------|-------|------|-----|
| Total: | ===== | 0.00 | 0.0 |
|--------|-------|------|-----|

|                    |          |                  |      |
|--------------------|----------|------------------|------|
| -----UNFUNDED----- |          |                  |      |
| Source             | Act Type | Budget (\$1000s) | FTEs |

Year 1:

Year 2:

Year 3:

Year 4:

|        |       |      |     |
|--------|-------|------|-----|
| Total: | ===== | 0.00 | 0.0 |
|--------|-------|------|-----|

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. No Action. Artifacts and technical materials will remain uncatalogued. Material will not be available for use by the park staff. NPS standards will not be met.

b. Monument Staff Be Assigned Collateral Duty. This would increase work accomplishment but due to skill level of persons would not be a productive use of personnel.

COMPLIANCE CODE(s):

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-004.001

PS Page: 0009

PROJECT NUMBER: CABR-C-004.001

TITLE: STUDY NEED FOR ENVIRONMENTAL CONTROLS LIGHTHOUSE  
SUBPROJECT TITLE:

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 77.00

SERVICEWIDE ISSUES: C15 CONSERV TREAT C16 MUS STORAGE

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

There are approximately 400 artifacts on exhibit in the 19th century Old Point Loma Lighthouse. The lighthouse was furnished in the late 1960s. There are no environmental controls in the lighthouse to protect these artifacts. The humidity and temperature are monitored and show wide fluctuations from day-to-day and through the seasons. These artifacts are exposed to temperature and humidity variations, dust, and U-V light.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Study the need to install climate controls in lighthouse. A climate control system in this historic structure will need to be carefully designed and engineered to control temperature, humidity, and dust. This would retard the deterioration of artifacts and furnishings.

## BUDGET AND FTES:

| -----FUNDED-----   |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTES |
| Year 1:            |               |                  |      |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |
| Total:             |               | 0.00             | 0.0  |
| -----UNFUNDED----- |               |                  |      |
| Source             | Act Type      | Budget (\$1000s) | FTES |
| Year 1:            | REP-REHAB PRO | 77.00            | 0.0  |

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-C-004.001

PS Page: 0010

Year 2:

Year 3:

Year 4:

Total: 77.00 0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. No Action. The current deterioration of artifacts and exhibits will continue. This distracts from the exhibits. It fails to meet NPS standards for exhibits.

COMPLIANCE CODE(s): 106

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-005.000

PS Page: 0011

PROJECT NUMBER: CABR-C-005.000

TITLE: PREPARE HSPG, MILITARY STRUCTURES

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 100.00

SERVICEWIDE ISSUES: C06 NEED HSPGS C15 CONSERV TREAT

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

There are currently 17 military structures on the List of Classified Structures at Cabrillo. The LCS is being updated by Jamie Donohoe, WRO and additional structures will be added. They date from WW I and WW II, roughly 1905 to 1944 and were created by the U.S. Army Coast Artillery when monument land was part of Fort Rosecrans. A new National Register nomination for the monument has been prepared and is in WRO for review. The military structures were listed as contributing to the significance of the monument. None of the military structures remaining on Cabrillo National Monument have preservation guides. The impact on these structures is primarily weather, but there has also been some vandalism.

A regular maintenance schedule and treatment procedures needs to be developed for these buildings to allow management to preserve them as required by policy and law.

| IDLCS #'s | NAME                                   |
|-----------|----------------------------------------|
| 08206     | Bat. Com. Sta., Battery Humphreys      |
| 08207     | Base End Station, Woodward, Grant      |
| 08195     | Radio Station                          |
| 08208     | Battery Point Loma, guns 1 & 2         |
| 08211     | Searchlight # 15                       |
| 58568     | Generator Station Searchlight 15       |
| 58563     | Battery Pt Loma Storeroom/Sleeping Qtr |
| 58564     | Battery Pt. Loma Boundary Fence        |
| 08201     | Base End Station, Calef - Wilkeson     |
| 08203     | Base End Station, McGrath              |
| 08204     | Battery Bluff, South Gun               |
| 08205     | Battery Bluff, North Gun               |
| 08209     | Battery Pt. Loma Bunkr Comp Guns 3&4   |
| 08210     | Battery Pt Loma Panama Gun Mounts      |
| 58565     | Bayside Trail                          |
| 58566     | Base End Sta, Billy Goat Point         |
| 08197     | Electrical Connection Box              |
| 08198     | Searchlight Shelter, Walk-in           |

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## PROJECT STATEMENT SHEET

CABR-C-005.000

PS Page: 0012

|       |                                        |
|-------|----------------------------------------|
| 08199 | Generator Station Searchlights 18 & 19 |
| 08200 | Searchlight Shelter                    |
| 08202 | Base End Station, Calef - Wilkeson     |
| 08196 | Bat Com & Base End, Ashburn            |

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Prepare an HSPG for the military structures. This would enable the park to meet the requirements of the Organic Act of 1916, other preservation legislation, and NPS-28. Maintenance/preservation activities on the structures will follow a prescribed schedule and techniques and be accomplished within established guidelines.

A task directive, outlining the requirements and goals of the project, will be prepared by the Western Region Division of Park Historic Preservation.

The HSPG will be a working document, produced in loose-leaf format with the pages dated to facilitate updating without reprinting the entire document. The completed document will contain three major sections: instructions; schedules; and reference materials.

Personnel required for the compilation of this HSPG will be park maintenance personnel, a historical architect, a military historian, or possibly contract through DSC.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |

Year 1:

Year 2:

Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |

|         |               |        |     |
|---------|---------------|--------|-----|
| Year 1: | RG-CR-MTN PRO | 100.00 | 1.0 |
|---------|---------------|--------|-----|

Year 2:

Year 3:

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-C-005.000

PS Page: 0013

Year 4:

|        |        |     |
|--------|--------|-----|
|        | =====  |     |
| Total: | 100.00 | 1.0 |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No Action. Management of the military structures fails to meet the Standards in NPS-28 Cultural Resources Management Guidelines. The level of impact on the structures is from low to moderate. Without an HSPG, maintenance may not be performed on a regular basis and the correct preservation techniques applied.

COMPLIANCE CODE(s): DOC EXCL

EXPLANATION: 516 DM6 APP. 7.4 C(4)

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-006.000

PS Page: 0014

PROJECT NUMBER: CABR-C-006.000

TITLE: IMPROVE SECURITY OF MUSEUM COLLECTION

FUNDING STATUS: FUNDED: 25.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: C20 INADEQ SECURIT

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER: 166

## PROBLEM STATEMENT:

Neither the museum collection storage room nor the lighthouse where over 400 artifacts are on exhibit, have intrusion alarm security systems to protect the collection against theft or destruction. Many objects in the collection cannot be replaced and those that can, would be very costly to do so. The artifacts are vulnerable to theft and damage under current conditions.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Install intrusion alarm security system in lighthouse and museum collection storage room. This would offer the highest level of protection to the museum collection. The security system should be designed to fully integrate the security of the lighthouse artifacts and the museum storage monitored on a 24 hour basis. The security system would notify rangers via both radio or telephone, and NRaD security for after hours response.

## BUDGET AND FTEs:

| -----FUNDED-----   |               |          |                  |      |
|--------------------|---------------|----------|------------------|------|
|                    | Source        | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | REP-REHAB PRO |          | 25.00            | 0.0  |
| Year 2:            |               |          |                  |      |
| Year 3:            |               |          |                  |      |
| Year 4:            |               |          |                  |      |
|                    |               | Total:   | 25.00            | 0.0  |
| -----UNFUNDED----- |               |          |                  |      |
|                    | Source        | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |               |          |                  |      |

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-C-006.000

PS Page: 0015

Year 2:

Year 3:

Year 4:

Total:

=====

0.00

0.0

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No Action. Without an intrusion alarm system, the artifacts, both exhibited and stored, would remain vulnerable to theft and damage. The park would not be in compliance with Special Directive 80-1 (revised).

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 E

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-008.000

PS Page: 0016

PROJECT NUMBER: CABR-C-008.000

TITLE: CONDUCT ARCHEOLOGICAL OVERVIEW AND ASSESSMENT

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 6.00

SERVICEWIDE ISSUES: C01 INADEQUATE DOC C14 ARCH DATA RECV

CULTURAL RESOURCE TYPE CODE: SITE

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Cabrillo National Monument needs a comprehensive Archeological Overview and Assessment. This document will review and summarize existing archeological data and then evaluate that data. This document will serve as a first step in determining the need for a design of future studies.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Generate a document that: describes the natural environment; the park's cultural history; describes and evaluates past research; and archeological resources. Sections should include: lists of location of collections; relevant future research topics and possible methods; field records and archives available for future research; and bibliographic references.

## BUDGET AND FTES:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTES |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTES |
| Year 1:            | PKBASE-CR ADM | 6.00             | 0.2  |
| Year 2:            |               |                  |      |

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-C-008.000

PS Page: 0017

Year 3:

Year 4:

Total:

=====

6.00

0.2

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. No Action. This alternative will leave the park out of compliance with NPS-28 and other laws and policy of the National Park Service.

COMPLIANCE CODE(s):

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-009.000

PS Page: 0018

PROJECT NUMBER: CABR-C-009.000

TITLE: PREPARE COLLECTION MANAGEMENT PLAN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 25.00

SERVICEWIDE ISSUES: C09 NEED COLL MGMT C16 MUS STORAGE

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Management of the collection of historical, archival and archeological materials at Cabrillo National Monument is an on-going process. Over 1200 items are stored and/or displayed at the park. The park staff is responsible for the preservation of the collection in perpetuity. To assist in this work, a Collection Management Plan, required by NPS-28, needs to be written. This document would include a brief history of the collection and an overview of the present collection; a current Scope of Collection Statement with recommended changes to the statement; current status and recommendations regarding museum records; current status of museum exhibits with recommendations for improvement; current status with recommendations for improvement for museum security and fire detection/protection; current status with recommendations for museum staffing; and future planning/sources of funding. A Collection Condition Survey and Intergrated Pest Management Plan for objects on display and in storage should be included in the Collection Management Plan. With this plan, Cabrillo will be in compliance with the standards.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

A plan written by park and regional staff is the recommended solution.

## BUDGET AND FTEs:

| -----FUNDED----- |     |      |                  |      |
|------------------|-----|------|------------------|------|
| Source           | Act | Type | Budget (\$1000s) | FTEs |
| Year 1:          |     |      |                  |      |
| Year 2:          |     |      |                  |      |
| Year 3:          |     |      |                  |      |
| Year 4:          |     |      |                  |      |

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-009.000

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|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-CR PRO | 25.00            | 0.2  |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |

|        |       |     |
|--------|-------|-----|
| Total: | 25.00 | 0.2 |
|--------|-------|-----|

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. No Action. This would leave the park out of compliance with NPS-28.

b. Collection Management Plan Written By Park Staff. Existing staff does not have the experience, technical skill, or knowledge to prepare a concise, accurate plan.

c. Collection Management Plan Written By Outside Staff. The park could contract the plan to an outside agency.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 B(2)

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-010.000  
PS Page: 0020

PROJECT NUMBER: CABR-C-010.000

TITLE: UPDATE CULTURAL RESOURCE BIBLIOGRAPHY

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 3.00

SERVICEWIDE ISSUES: C01 INADEQUATE DOC

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The Cultural Resource Management Bibliography (CRBIB) is a list of resource information stored in Washington, D.C. The park should obtain a copy of this document, review it for completeness, and then update it.

There are also three major universities in San Diego and a search of their materials that reference park resources has never been done. A thorough search of all sources including SDSU, USD, and UCSD needs to be done, then incorporating the appropriate material into a more complete CRBIB.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Obtain the parks CRBIB from Washington. Review it. Review the available materials located at the institutional libraries of San Diego State University, University of San Diego, and University of California, San Diego in the fields of history of park related themes; archeology of the Point Loma peninsula; ethnography of the San Diego area; paleontology of the San Diego area; and other subjects, as appropriate. This review should be conducted by someone familiar with the resources needing review, and who is knowledgeable of the park. The study needs to be exhaustive and a thorough search accomplished. Materials relating to the above subjects should be brought together in a bibliography, and the Washington CRBIB updated.

## BUDGET AND FTEs:

|         | Source | Act Type | Budget (\$1000s) | FTEs |
|---------|--------|----------|------------------|------|
| Year 1: |        |          |                  |      |
| Year 2: |        |          |                  |      |
| Year 3: |        |          |                  |      |
| Year 4: |        |          |                  |      |

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-010.000

PS Page: 0021

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-CR RES | 3.00             | 0.2  |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |

|        |      |     |
|--------|------|-----|
| Total: | 3.00 | 0.2 |
|--------|------|-----|

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No Action. This alternative would leave us with no complete set of information relating to the parks cultural resources.

COMPLIANCE CODE(s):

EXPLANATION: 516 DM6 APP. 7.4 B(4)

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-011.000  
PS Page: 0022

PROJECT NUMBER: CABR-C-011.000

TITLE: WRITE HOUSEKEEPING PLAN FOR LIGHTHOUSE

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 12.00

SERVICEWIDE ISSUES: C15 CONSERV TREAT C24 INSUFF STAFF

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

There are approximately 400 artifacts on exhibit in the Old Point Loma Lighthouse. This exhibit was developed in the late 1960's, making it almost 30 years old. These furnishings do not receive routine care nor is there a plan, or sufficient personnel to clean, rotate, and replace with reproductions the artifacts that are exposed to humidity variations, dust, and U-V light.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Prepare a housekeeping plan for the lighthouse. First, a routine procedure for cleaning, rotating and treatment of the exhibits would be prepared along with identification of permanent personnel to accomplish the daily tasks. This would be part of the Museum Technicians duties as described in CABR-C-2 and would slow down the deterioration of furnishings in the lighthouse.

The hiring of a full time Museum Technician to accomplish the identified maintenance activities would accomplish this aspect of the project.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-011.000

PS Page: 0023

|         |               |       |     |
|---------|---------------|-------|-----|
| Year 1: | PKBASE-CR PRO | 3.00  | 0.1 |
| Year 2: | PKBASE-CR PRO | 3.00  | 0.1 |
| Year 3: | PKBASE-CR PRO | 3.00  | 0.1 |
| Year 4: | PKBASE-CR PRO | 3.00  | 0.1 |
| Total:  |               | 12.00 | 0.4 |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. No Action. The current deterioration of artifacts and exhibits will continue. This distracts from the exhibits. It fails to meet NPS standards for exhibits.

COMPLIANCE CODE(s):

EXPLANATION:

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-012.000

PS Page: 0024

PROJECT NUMBER: CABR-C-012.000

TITLE: HISTORIC STRUCTURES REPORT, MILITARY STRUCTURES

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 50.00

SERVICEWIDE ISSUES: C01 INADEQUATE DOC C05 NEED HSRS

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Cabrillo National Monument, through acquisition of excess military property added to the monument, has acquired more than 24 military structures. These structures date from the Spanish American War through World War II, 1903 through 1944. They consist of gun mounts at respective gun positions, base-end stations, generator stations, and searchlight facilities. A preliminary historic resource study, "The Guns of San Diego" by Erwin Thompson was completed in 1991. This covered the resource as a whole. The individual structures now need a historic structures report.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Collect, present, and evaluate historic, architectural, and engineering research findings on the military structures, and their setting, and make recommendations for treatment consistent with their significance, integrity, condition, and programmed use. Analyze and record all periods of construction, modifications, source materials, building techniques, evidence of use, and setting. Each report to contain a section on administration, physical history, analysis, and appendices.

## BUDGET AND FTEs:

|         | Source | Act Type | FUNDED<br>Budget (\$1000s) | FTEs |
|---------|--------|----------|----------------------------|------|
| Year 1: |        |          |                            |      |
| Year 2: |        |          |                            |      |
| Year 3: |        |          |                            |      |
| Year 4: |        |          |                            |      |
| Total:  |        |          | 0.00                       | 0.0  |

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-012.000

PS Page: 0025

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-CR PRO | 50.00            | 0.0  |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |
| Total:             |               | 50.00            | 0.0  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. No Action. This will leave the park out of compliance with NPS-28 standards and other law and policy. It will allow these military structures to further deteriorate.

COMPLIANCE CODE(s):

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-013.000

PS Page: 0026

PROJECT NUMBER: CABR-C-013.000

TITLE: PROVIDE STABILIZATION TREATMENT FOR BASE END STATIO

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 5.00

SERVICEWIDE ISSUES: C12 PRESERVE MGMT C15 CONSERV TREAT

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Located at Billy Goat Point are two WW I base end stations. One of these is on NPS property and received stabilization treatment in 1993. Located about 50 feet away upslope, is another base end station on Navy property. With concurrence of the Commanding Officer of NRaD, the structure needs to receive basic preservation treatment including applying linseed oil to wood surfaces, general cleanup resulting from vandalism over the years, and air abrading, priming and application of a finish coat of olive drab to metal surfaces exposed to the weather. This treatment will slow down the rate of deterioration of the structure.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Remove rust, prime and finish paint. Clean up debris. Apply linseed oil to wood surfaces. Help from the San Diego Urban Corps is readily available to accomplish this work.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | FED-OTHER PRO | 5.00             | 0.2  |

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-C-013.000

PS Page: 0027

Year 2:

Year 3:

Year 4:

Total:

=====

5.00

0.2

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. This is the present course of action. This course will eventually lead to complete destruction of this historic structure.

COMPLIANCE CODE(s): 106 DOC

EXPLANATION: 516 DM6 APP. 7.4 A(11)

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-014.000

PS Page: 0028

PROJECT NUMBER: CABR-C-014.000

TITLE: PREPARE MONITORING PROTOCOL FOR CABRILLO STATUE

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 20.00

SERVICEWIDE ISSUES: C01 INADEQUATE DOC C10 SPECIAL STUDY

CULTURAL RESOURCE TYPE CODE: OBJC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The present Cabrillo statue was replicated and dedicated in 1988. An exact duplicate of the original statue, it is made of limestone and cost over \$100,000 to reproduce. The old statue was badly deteriorated through the absorption of salt, which dried, expanded and exfoliated the surface of the statue. Oil from human hands also contributed to the deterioration. Located on a prominence overlooking the harbor it is constantly exposed to the marine environment. The condition of the new statue needs to be monitored so management can take appropriate action to slow deterioration of this cultural icon and centerpiece of the monument.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Prepare, and implement a monitoring protocol for the Cabrillo statue. Explore ways to prevent or slow down natural deterioration processes.

## BUDGET AND FTEs:

| -----FUNDED-----   |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            |               |                  |      |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |
| Total:             |               | 0.00             | 0.0  |
| -----UNFUNDED----- |               |                  |      |
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | RG-CR-MTN PRO | 20.00            | 0.2  |

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-C-014.000

PS Page: 0029

Year 2:

Year 3:

Year 4:

Total:

=====

20.00

0.2

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. This alternative may lead to the premature erosion of the limestone statue, and in turn to the expenditure of limited funds to replace the statue in the future.

COMPLIANCE CODE(s): 106 DOC

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-015.000

PS Page: 0030

PROJECT NUMBER: CABR-C-015.000

TITLE: MONITOR CONDITION OF CABRILLO STATUE

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 8.00

SERVICEWIDE ISSUES: C19 INADEQ MONITOR

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

At the current time, the condition of the limestone Cabrillo statue is monitored informally through casual observation. The park staff does not have any guidance for regularly and systematically monitoring, evaluating, and recording the statues condition.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Implement a regular and systematic statue monitoring program based on protocol prepared as a result of project statement CABR-C-014.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-CR PRO | 2.00             | 0.1  |
| Year 2:            | PKBASE-CR PRO | 2.00             | 0.1  |
| Year 3:            | PKBASE-CR PRO | 2.00             | 0.1  |
| Year 4:            | PKBASE-CR PRO | 2.00             | 0.1  |

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-015.000

PS Page: 0031

Total:

8.00

0.4

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. Implementation of the no action alternative will result in deterioration of the statue. This would eventually result in an expensive replacement cost. The last statue lasted from 1940 to 1986, 46 years in a corrosive marine environment. That is a good estimate of the life cycle of the present statue without protection.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-C-016.000

PS Page: 0032

PROJECT NUMBER: CABR-C-016.000

TITLE: ACQUIRE AS-BUILT CONSTRUCTION DRAWINGS, MILITARY STR

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 40.00

SERVICEWIDE ISSUES: C01 INADEQUATE DOC C08 NEED ADMN HIST

CULTURAL RESOURCE TYPE CODE: STRC

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Twenty-seven WW I and WW II structures on the List of Classified Structures at this park are associated with coast defense of the United States. We do not have as-built drawings for many of those structures. We need to acquire those drawings for background information.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Send a historian to National Archives in Washington, D.C. and/or Carlisle Barracks in Pennsylvania to research for and acquire the needed information.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |                |                  |      |
|--------------------|----------------|------------------|------|
| Source             | Act Type       | Budget (\$1000s) | FTEs |
| Year 1:            | SPECIAL-\$ RES | 40.00            | 0.2  |
| Year 2:            |                |                  |      |
| Year 3:            |                |                  |      |

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PROJECT STATEMENT SHEET

CABR-C-016.000

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Year 4:

=====  
Total: 40.00 0.2

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. This alternative would result in a lack of knowledge that is available to us through research. This lack of knowledge would result in information we need for preservation, not being available.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-I-001.000  
PS Page: 0034

PROJECT NUMBER: CABR-I-001.000

TITLE: INCREASE NATURAL AND CULTURAL MANAGEMENT STAFF

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 246.00

SERVICEWIDE ISSUES: C24 INSUFF STAFF N24 OTHER

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

There is inadequate staff to conduct basic research, monitor condition of the park's resources and plan and implement a comprehensive cultural and natural resources management program for Cabrillo National Monument in accordance with with Cultural Resource Management Guideline NPS-28, Natural Resource Management Guidelines, NPS-77, NPS Management Policies (December 1988), and National Park Service Organic Act.

The Chief Ranger currently performs natural and cultural resource planning and field work, supervises fee collection, law enforcement supervision and field work, and has collateral duties of park historian, hazardous materials response, computer system operator, range master, among other things. Because of this work load, a number of tasks that are crucial to resource management do not receive the attention they require.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Establish and fill a full-time Resource Management Specialist, GS-9 position to perform the following actions to bring the monument into compliance with law and NPS policy.

- 1) Conduct monitoring programs for natural and cultural resources, including threatened and endangered species.
- 2) Assist in oversight, facilitation, and review of research activities in the monument.
- 3) Maintain resources basic information: forms, records, studies, bibliographies, sources.
- 4) Assist in the coordination of the Archeological Clearance Program.
- 5) Yearly review/update of museum Scope of Collection Statement.
- 6) Yearly review/update resource management priority lists, 10-238's.
- 7) Perform biennial review/update of Natural and Cultural Resource Management Plan.
- 8) Prepare responses to special reports and status on

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## PROJECT STATEMENT SHEET

CABR-I-001.000

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- special program efforts.
- 9) Assist in supervision and coordination with volunteers and staff in one time cultural/natural resource projects.
  - 10) Advise management regarding resource needs in Statement for Management and Outline of Planning Requirements.
  - 11) Assist in providing adequate storage, protection, environmental conditions to park collections and historic structures.
  - 12) Assist in ensuring compliance with NEPA.
  - 13) Assist in preparing XXX forms and other NHPA compliance for all resource management activities.
  - 14) Serve as Integrated Pest Management coordinator and ensure compliance with policies and procedures.
  - 15) Implement Historic Furnishings Report.
  - 16) Implement Natural and Cultural Resource Projects.
  - 17) Update and maintain List of Classified Structures.
  - 18) Assist with data input and output direction in the park Geographical Information System.
  - 19) Perform routine administration of cultural and natural resources management at the park

Establishment of this position is critical to the success of this entire plan and is related to all other projects in the plan.

Establishment of a Resource Management Specialist position would allow the monument to administer a comprehensive resource management program and achieve requirements of the NPS Organic Act of 1916, Endangered Species Act, National Historic Preservation Act of 1966, amended 1980, National Environmental Policy Act of 1969, NPS-28, NPS-77, Act for Administration of 1970, USDI Standards and Guidelines, and administrative requirements.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-I-001.000  
PS Page: 0036

|         |               |        |     |
|---------|---------------|--------|-----|
| Year 1: | PKBASE-NR PRO | 26.00  | 1.0 |
|         | PKBASE-NR ADM | 4.00   | 0.0 |
|         | PKBASE-NR PRO | 30.00  | 0.0 |
|         | Subtotal:     | 60.00  | 1.0 |
| Year 2: | PKBASE-NR PRO | 27.00  | 1.0 |
|         | PKBASE-NR ADM | 4.00   | 0.0 |
|         | PKBASE-NR PRO | 30.00  | 0.0 |
|         | Subtotal:     | 61.00  | 1.0 |
| Year 3: | PKBASE-NR PRO | 28.00  | 1.0 |
|         | PKBASE-NR ADM | 4.00   | 0.0 |
|         | PKBASE-NR PRO | 30.00  | 0.0 |
|         | Subtotal:     | 62.00  | 1.0 |
| Year 4: | PKBASE-NR PRO | 29.00  | 1.0 |
|         | PKBASE-NR ADM | 4.00   | 0.0 |
|         | PKBASE-NR PRO | 30.00  | 0.0 |
|         | Subtotal:     | 63.00  | 1.0 |
|         | Total:        | 246.00 | 4.0 |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. No Action. This option fails to provide the necessary level of resource management staff for the monument. It is an unacceptable alternative.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 E

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-I-001.002

PS Page: 0037

PROJECT NUMBER: CABR-I-001.002

TITLE: INCREASE NATURAL AND CULTURAL MANAGEMENT STAFF  
SUBPROJECT TITLE: PROGRAM ADMINISTRATION

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 98.00

SERVICEWIDE ISSUES: N24 OTHER C26 OTHER

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The park needs administrative support to sustain it's cultural and natural resources management program by preparing annual and one time reports, letters, memos, order supplies, account for property, and maintain office equipment.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Employ a secretary who has general knowledge of cultural and natural resource programs of the National Park Service and administrative skills to accomplish work in support of an effective resource management program.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-OT PRO | 19.00            | 1.0  |
|                    | PKBASE-OT MIT | 5.00             | 0.0  |
| Subtotal:          |               | 24.00            | 1.0  |
| Year 2:            | PKBASE-OT PRO | 19.00            | 1.0  |

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-I-001.002  
PS Page: 0038

|         |               |       |     |
|---------|---------------|-------|-----|
|         | PKBASE-OT MIT | 5.00  | 1.0 |
|         | Subtotal:     | 24.00 | 2.0 |
| Year 3: | PKBASE-OT PRO | 19.00 | 1.0 |
|         | PKBASE-OT MIT | 5.00  | 0.0 |
|         | Subtotal:     | 24.00 | 1.0 |
| Year 4: | PKBASE-OT PRO | 20.00 | 1.0 |
|         | PKBASE-OT MIT | 6.00  | 0.0 |
|         | Subtotal:     | 26.00 | 1.0 |
|         | Total:        | 98.00 | 5.0 |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No Action. This would increase workload of monument's only secretary and slow down accomplishment in an area of both increasing importance in cultural and natural resource management.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 B

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-I-002.000

PS Page: 0039

PROJECT NUMBER: CABR-I-002.000

TITLE: INTEGRATE MONITORING FOR CULTURAL AND NATURAL RESOU

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 67.00

SERVICEWIDE ISSUES: N20 BASELINE DATA C19 INADEQ MONITOR

CULTURAL RESOURCE TYPE CODE: COMB

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

Problem Statement: This resource management plan calls for the conduct of a wide variety of studies to delineate and quantify cultural and ecological values of Cabrillo National Monument. These studies will also recommend long-term monitoring protocols for each of the respective components. If these individual protocols are not integrated into a coherent and unified program for the monument their value will be depreciated. Monitoring will provide the Superintendent with a direct measure of the health and stability of the park. This integrated monitoring program must be carefully designed, coordinated, and interpreted to minimize the costs but maximize the return. This project is needed in order to focus the necessary professional judgement, experience, and analysis on this specific resources management program to address all the needs of the program and provide for the staff needed to implement an integrated monitoring effort.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Integrate Individual Monitoring Protocols into a Unified Long-Term Monitoring Program. This option would ensure that the Superintendent and staff are able to manage Cabrillo National Monument natural resources from an empirical knowledge base. Informed decisions are more likely to protect the monument than are educated guesses and intuition. Currently, such an integrated monitoring system does not exist.

The first step in this project is to evaluate the several protocols that will be individual studies in this plan. The best of these protocols should be integrated into an overall long-term monitoring program for the monument to provide an empirical assessment of general ecosystem and cultural resource health and trends. In an area as small as Cabrillo this monitoring system should be designed to be simple but effective. The funds necessary for training park staff and implementing this monitoring program must be obtained in the monument base budget.

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-I-002.000

PS Page: 0040

## BUDGET AND FTEs:

-----FUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Year 2:

Year 3:

Year 4:

=====  
Total: 0.00 0.0

-----UNFUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1: PKBASE-NR ADM 40.00 0.0

Year 2: PKBASE-NR PRO 7.00 0.2

PKBASE-NR ADM 2.00 0.0

-----  
Subtotal: 9.00 0.2

Year 3: PKBASE-NR PRO 7.00 0.2

PKBASE-NR ADM 2.00 0.0

-----  
Subtotal: 9.00 0.2

Year 4: PKBASE-NR PRO 7.00 0.2

PKBASE-NR ADM 2.00 0.0

-----  
Subtotal: 9.00 0.2

=====  
Total: 67.00 0.6

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. No Action. This option entails continuing to operate the monument without any systematic or programmatic long-term monitoring program. Periodic inspections are conducted and maintenance is conducted but no monitoring of park resources (other than the Tidepool program and terrestrial vegetation) has been designed or implemented.

COMPLIANCE CODE(s): HSPG NHPA

EXPLANATION: MONITORING OF ARCHEO AND HIST SITES

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-N-001.000

PS Page: 0041

PROJECT NUMBER: CABR-N-001.000

TITLE: MONITOR AND RESTORE TIDEPOOLS.

FUNDING STATUS: FUNDED: 110.90 UNFUNDED: 50.00

SERVICEWIDE ISSUES: N02 T&E ANIMAL N09 COASTAL DYNAM

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

The rocky intertidal zone in the Monument is one of the best tidepool communities in San Diego County and Southern California.

Unrestricted visitor access and use threaten the integrity of this ecosystem and its value as an example of an intertidal community. Human impacts on intertidal resources include trampling and specimen collection. Interpretive and management techniques need to be developed to provide access to a healthy intertidal ecosystem for as many visitors as possible without impairing the resource. A monitoring protocol to assess ecosystem health has been developed and implemented to evaluate visitor impacts and efficacy of management controls on visitor activities. We are now in the fourth year of the five year monitoring program.

An inventory of plants and invertebrates conducted in 1976 revealed 269 species in six major intertidal habitats (Zedler 1976) and 31 additional taxa were added during studies of public use conducted in 1977 (Zedler 1978). These studies documented significant visitor impacts from trampling and suggested that existing use levels of 50 to 100 people per day exceeded resource carrying capacity. Monitoring of the dominant, mid-level algal turf from 1977 through 1987 revealed little discernable visitor impact, however it was noted that algal turf is resistant to visitor impacts and at this site is naturally adapted to high levels of physical disturbance (Joan Stewart pers. comm. 1988). A draft work plan for management of rocky intertidal resource management was prepared by G.E. Davis (Research Marine Biologist, Channel Islands National Park) in 1987 which suggested development of a monitoring program and experimental zoning of visitor use.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Continue implementing existing monitoring protocol to: 1) routinely assess the health of the intertidal ecosystem based on population dynamics of selected algal, invertebrate, and shorebird species, and 2) determine visitor activities and use

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patterns. A monitoring program will be used to evaluate the feasibility of establishing visitor use zones. Visitor access to the intertidal zone is controlled by providing a single, safe, point of entry. Within the intertidal zone, visitor use may be stratified, reflecting existing use patterns, to provide zones of unrestricted, partially restricted, and restricted (no public access) use. In the area closest to the access point, a trail may be designated to concentrate visitor impact and reduce impacts on adjacent tidepools. The monitoring program will be used to compare resource conditions in each of these management zones, and thereby evaluate these visitor management techniques.

Three years are needed to design and initiate a monitoring program, two years to test visitor use zoning concepts. Long-term monitoring would continue as an ongoing operational activity to evaluate the condition of the tidepools and visitor impacts.

This program, currently funded by the park cooperating association should be funded through the park base after 1995. If this money is not obtained, it may be possible to fund it through existing funds using seasonal employees.

Funds for training of park staff in implementation of protocols is included.

## BUDGET AND FTEs:

|         | Source    | Act Type  | FUNDED<br>Budget (\$1000s) | FTEs |
|---------|-----------|-----------|----------------------------|------|
| Year 1: | \$-DONATE | RES       | 6.00                       | 0.1  |
|         | PKBASE-OT | INT       | 20.00                      | 0.5  |
|         |           | Subtotal: | 26.00                      | 0.6  |
| Year 2: | \$-DONATE | MON       | 7.90                       | 0.0  |
|         | PKBASE-OT | INT       | 20.00                      | 0.5  |
|         |           | Subtotal: | 27.90                      | 0.5  |
| Year 3: | \$-DONATE | MON       | 8.30                       | 0.0  |
|         | PKBASE-OT | INT       | 20.00                      | 0.5  |
|         |           | Subtotal: | 28.30                      | 0.5  |
| Year 4: | \$-DONATE | MON       | 8.70                       | 0.0  |
|         | PKBASE-OT | INT       | 20.00                      | 0.5  |
|         |           | Subtotal: | 28.70                      | 0.5  |
|         |           | Total:    | 110.90                     | 2.1  |

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-----UNFUNDED-----

|         | Source    | Act Type  | Budget (\$1000s) | FTEs |
|---------|-----------|-----------|------------------|------|
| Year 1: |           |           |                  |      |
| Year 2: |           |           |                  |      |
| Year 3: |           |           |                  |      |
| Year 4: | PKBASE-NR | PRO       | 38.00            | 1.0  |
|         | PKBASE-NR | ADM       | 12.00            | 0.0  |
|         |           | Subtotal: | 50.00            | 1.0  |
|         |           | Total:    | 50.00            | 1.0  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. No Action. The nature and character of the intertidal ecosystem will probably continue to be adversely effected. As nearby "unprotected" sites are destroyed by coastal development, trampling, and collecting, the probability that monument resources will be spared will decline significantly. Without development of enlightened visitor management techniques, the only management option available to protect the resource will be to severely restrict or deny visitor access to the intertidal zone.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 E

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PROJECT STATEMENT SHEET

CABR-N-002.000

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PROJECT NUMBER: CABR-N-002.000

TITLE: IMPLEMENT A GIS

FUNDING STATUS: FUNDED: 3.00 UNFUNDED: 60.00

SERVICEWIDE ISSUES: N16 NEAR-PARK DEV N17 BIODIVERSITY

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

Park neighbors, which include the City of San Diego Wastewater Treatment Plant, the Naval Command, Control, and Ocean Surveillance Center (NCCOSC), and the Naval Submarine Base, are rapidly growing. The City has a \$4 billion improvement program under consideration in waste treatment. NCCOSC is growing by an additional 2000 employees, about five new operations, and has been upgraded from a Captaincy to Admiral. This and other urban growth in the area, is causing the park to look beyond its boundaries to see how these neighboring developments will impact our viewshed and park biotic community.

The biotic community of coastal sage scrub is a diminishing resource of increasing significance. There are approximately 2000 acres of coastal sage scrub left in the world. The park owns approximately 120 acres of this diminishing resource. Recent proposals by the Navy indicate that they are interested in developing an Ecological Reserve Area on Point Loma to preserve this ecotype. It would include both Navy and NPS lands. The park would then be able to better protect its biotic community.

A Geographic Information System (GIS) is vital to correctly understand and manage this growth and the impact on the park, and help us care for the natural and cultural resources we administer.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Implement a GIS system at the park. This option is an effective way to obtain, store, analyze, and display information needed to properly manage and protect the resources of Cabrillo National Monument. The following are some needs that will be met by this system.

1. Viewshed analysis to enable us to visualize nearby development that will impact park and communicate these impacts to decision makers.

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2. Overlay and visualize various related resources and display the relationship among them.
3. Commit to a data bank, information currently stored as a corporate memory in employees heads.
4. Outline utility corridors through park.
5. Outline geographic and historic changes occurring in the park.
6. Map precise location, using global positioning system (GPS) technology, of all known historic structures in and adjacent to park to facilitate protection and long-term care.
7. Generate maps which delineate sensitive areas such as archeological sites, historic structures, threatened and endangered vegetation corridors, viewsheds, and animal habitats to evaluate impacts of projects on park resources and values and facilitate NEPA and Section 106 compliance.
8. Use system to educate public regarding resources and their importance. The GIS would help illustrate the effects NPS, Navy, and City of San Diego projects would have on adjacent park resources, as well as resources on adjacent land.
9. Map precise location, using GPS technology, of all known archeological sites to facilitate care and monitor condition.
10. Map location, using GPS technology, of threatened and endangered species found in park to facilitate monitoring and protection.
11. Map the Point Loma Ecological Reserve area and the sensitive plant and animal communities therein. Monitor condition of indicator species and enter data and document needed studies. Use reserve as control group for comparative studies of park and Reserve ecosystem.
12. Map location and parameters of alien plant infestations in park and monitor as areas diminish in size due to plant removal.
13. Develop trail plan and map. Monitor effectiveness of closure of social trails and development of special trails.
14. Map locations of sensitive plants, and animals in tidepools. Map locations of transects, photo plots, plot visitor use, and bird count data for long-term monitoring program begun in 1990.
15. Map areas susceptible to erosion, particularly road culverts and coastal area. Document changes to these areas and extrapolate extent of erosion over established intervals.

16. Using GPS technology, locate contemporary buildings and other structures to produce maps for administrative purposes and to improve efficiency of maintenance operation.

The GIS will help management communicate and articulate problems and implement better solutions to resources management problems.

This proposal will require acquisition of hardware, training in the use of software, and acquisition and input of data.

Cooperative agreements and contracts with University of Arizona CPSU, or other institutions can be used to convert data already available in Arc Info into Idrisi, and allow for some digitizing work to be accomplished.

#### BUDGET AND FTEs:

| -----FUNDED-----   |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-NR | MON      | 3.00             | 0.1  |
| Year 2:            |           |          |                  |      |
| Year 3:            |           |          |                  |      |
| Year 4:            |           |          |                  |      |
| Total:             |           |          | 3.00             | 0.1  |
| -----UNFUNDED----- |           |          |                  |      |
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | PKBASE-NR | MON      | 20.00            | 0.5  |
| Year 2:            | PKBASE-NR | MON      | 20.00            | 0.5  |
| Year 3:            | PKBASE-NR | MON      | 10.00            | 0.2  |
| Year 4:            | PKBASE-NR | MON      | 10.00            | 0.2  |
| Total:             |           |          | 60.00            | 1.4  |

#### (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a. Take No Action. Do not implement the GIS system and continue to monitor growth and change via manual methods. This is a basic response to change that is occurring in the area and one that the park has been following. The magnitude of the problem, and the consequences of those problems make this method inadequate. The

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full impact of growth and vegetation management cannot be adequately monitored.

b. Take A Modified GIS Approach. This has been accomplished through mylar mapping and high altitude photo imaging. These systems help but are not adequate.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.6

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PROJECT STATEMENT SHEET

CABR-N-003.000

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PROJECT NUMBER: CABR-N-003.000

TITLE: CONDUCT INVENTORY AND ASSESSMENT: FLORA COMMUNITY

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 30.00

SERVICEWIDE ISSUES: N20 BASELINE DATA

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

There is a need for a comprehensive inventory of the park's flora and the development of a long-term program to monitor the vegetative components of park ecosystems and the changes that occur to these systems.

A number of non-systematic floral inventories have been performed within Cabrillo National Monument. Recent efforts have been made to synthesize this data into one comprehensive list. However, a thorough systematic inventory of the park is still needed to verify this list and to establish reliable baseline data. This inventory will allow resource managers to assess the extent of individual plant species and plant communities, and provide quantitative data describing the rarity or abundance of native and alien plants. Further, it will allow managers to assess the extent of the invasion of alien plants and the potential threats alien plants may pose to native species and communities.

The second need is to establish a long-term monitoring program for the plant communities within the monument. Data gathered from this program will describe the species composition of the plant communities, identify variations within a community, and changes occurring within the community through time.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Conduct Vegetation and Flora Inventory and Assessment: This project will provide management a baseline from which changes in the distribution and/or abundance of individual species and plant communities may be assessed. This increases management's ability to address changes in the natural resources of the monument and implement resource management programs as needed. Close monitoring of the flora can serve as an early warning system for undesirable changes and increases management's ability to respond effectively to these changes in a timely manner. Additional botanical information will be provided for interpretive programs.

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The project would consist of two components: a) a systematic inventory of the flora of the monument, and b) the development of a long-term monitoring program for the plant communities. Data collected will document the occurrence and abundance of rare and common species of the monument. The floral inventory will supplement information gathered to date. This information may be provided to the interpretive staff in a checklist format if desired.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |  |
|------------------|----------|------------------|------|--|
| Source           | Act Type | Budget (\$1000s) | FTEs |  |
| Year 1:          |          |                  |      |  |
| Year 2:          |          |                  |      |  |
| Year 3:          |          |                  |      |  |
| Year 4:          |          |                  |      |  |
| Total:           |          | 0.00             | 0.0  |  |

| -----UNFUNDED----- |               |                  |      |  |
|--------------------|---------------|------------------|------|--|
| Source             | Act Type      | Budget (\$1000s) | FTEs |  |
| Year 1:            |               |                  |      |  |
| Year 2:            | NON-NPS-O MON | 10.00            | 0.3  |  |
|                    | NON-NPS-O ADM | 5.00             | 0.3  |  |
| Subtotal:          |               | 15.00            | 0.6  |  |
| Year 3:            | NON-NPS-O MON | 10.00            | 0.3  |  |
|                    | NON-NPS-O ADM | 5.00             | 0.0  |  |
| Subtotal:          |               | 15.00            | 0.3  |  |
| Year 4:            |               |                  |      |  |
| Total:             |               | 30.00            | 0.9  |  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a.) Conduct Vegetation Type Survey and Assessment Only: This will assist management in the monitoring of long-term changes in the plant communities of the monument, allowing the early detection of undesirable changes, e.g. the increased rarity of individual species, or the potentially invasive nature of alien

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species. This program alone will not provide managers with a thorough inventory of the species present within the monument.

b.) Conduct Flora Inventory and Assessment Only: Data from this effort will assist management in detecting undesirable changes, e.g. the loss of native species and/or the new introduction of an alien species. This effort alone will not allow managers to interpret the process of change that is occurring, but only to document the change. This lack of understanding the processes leaves the manager without the knowledge necessary to implement appropriate management actions.

c.) No Action: This will not allow management to detect changes in the vegetation and flora of the monument and without the knowledge to sufficiently manage the vegetative resources. Further information for interpretation of botanical parameters would not be available.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 E

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PROJECT STATEMENT SHEET

CABR-N-004.000  
PS Page: 0051

PROJECT NUMBER: CABR-N-004.000

TITLE: IMPLEMENT VEGETATION MANAGEMENT PLAN

FUNDING STATUS: FUNDED: 36.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: N03 T&E PLANTS N05 NON-NAT PLANTS

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

In the 1940s, US Army personnel planted eucalytus and other non-native species in what is now the monument. The National Park Service, in the 1930s and 1960s did extensive planting of other exotics, many of which easily escape cultivation. This exotic flora needs to be removed for a number of reasons: to bring the park into compliance with NPS policies; to comply with the A. Starker Leopold Report of 1965; and to restore native habitat. This exotic vegetation needs to be removed, but wholesale and quick removal would result in a compromise of public acceptance. The project needs to be carried out over time to lessen the impact of these changes.

This project will be carried out to restore native plant communities. Cabrillo National Monument is home to many plants that are on the edge of becoming listed as rare and endangered. The USFWS has declared that all plant communities in the park are either sensitive or endangered based on the global ranking indices from the California Natural Diversity Data Base. The quantity of the types of biotic communities found in the park has decreased throughout the state due to heavy urban development. As the amount of this vegetation type diminishes state-wide, its relative importance increases. Management of the Natural Zone will include gradual removal of exotics, such as eucalyptus, melaleuca, acacia, ice plant, and others. These will be replaced with natives, or natural processes will be allowed to revegetate areas. The park Vegetation Management Plan, which guides our efforts has been completed, had public review, and a NEPA Finding Of No Significant Impact has been reached.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Implementation of the Vegetation Management Plan will allow correct management of the exotic and native terrestrial vegetation and, in the end, produce the most healthy native vegetation for the park. The goal is to properly manage the parks resources, conserve water, and restore and enhance native vegetation. This plan will take many years to fully accomplish.

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Follow up action will be required for many years to eliminate sprouts from seed beds that are under these exotic plants. Acacia, myoporum, eucalyptus, and other plants escape cultivation and invade the native zones easily.

Large amounts of work can be accomplish through volunteer labor.

## BUDGET AND FTEs:

| -----FUNDED----- |           |          |                  |      |
|------------------|-----------|----------|------------------|------|
|                  | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          | PKBASE-NR | MIT      | 10.00            | 1.0  |
| Year 2:          | PKBASE-NR | MIT      | 10.00            | 1.0  |
| Year 3:          | PKBASE-NR | MIT      | 10.00            | 1.0  |
| Year 4:          | PKBASE-NR | MIT      | 6.00             | 0.3  |
| Total:           |           |          | 36.00            | 3.3  |

| -----UNFUNDED----- |        |          |                  |      |
|--------------------|--------|----------|------------------|------|
|                    | Source | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |        |          |                  |      |
| Year 2:            |        |          |                  |      |
| Year 3:            |        |          |                  |      |
| Year 4:            |        |          |                  |      |
| Total:             |        |          | 0.00             | 0.0  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a.) No Action. This would allow exotic/alien plants introduced into the park and Point Loma over the last 100 years to continue to invade and out compete natives in the Natural Zone. This will result in a further diminishment of an already sensitive, and in some cases endangered, ecotype.

b.) Partial action on selected plants. This will yield partial success. The targeted plants will be removed from the environment. But the several plants that escape cultivation will continue to crowd out the endangered ecotypes.

COMPLIANCE CODE(s): EXCL

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CABR-N-004.000

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EXPLANATION: 516 DM6 APP. 7.4 E(6)

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-006.000  
PS Page: 0054

PROJECT NUMBER: CABR-N-006.000

TITLE: MANAGE PEST SPECIES

FUNDING STATUS: FUNDED: 2.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: C12 PRESERVE MGMT

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Cabrillo National Monument has insect, plant and mammal pests that sometimes pass threshold limits. An IPM plan needs to be drawn up in compliance with NPS policy and guidelines.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Write IPM plan following general outline of Integrated Pest Management training received in 1993.

## BUDGET AND FTES:

| -----FUNDED----- |               |          |                       |
|------------------|---------------|----------|-----------------------|
|                  | Source        | Act Type | Budget (\$1000s) FTES |
| Year 1:          | PKBASE-NR PRO |          | 2.00 0.1              |
| Year 2:          |               |          |                       |
| Year 3:          |               |          |                       |
| Year 4:          |               |          |                       |
| Total:           |               |          | 2.00 0.1              |

| -----UNFUNDED----- |        |          |                       |
|--------------------|--------|----------|-----------------------|
|                    | Source | Act Type | Budget (\$1000s) FTES |
| Year 1:            |        |          |                       |
| Year 2:            |        |          |                       |
| Year 3:            |        |          |                       |
| Year 4:            |        |          |                       |
| Total:             |        |          | 0.00 0.0              |

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CABR-N-006.000

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(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No Action. Following this alternative, proper action would not be taken when threshold limits are reached.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 B

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-007.000

PS Page: 0056

PROJECT NUMBER: CABR-N-007.000

TITLE: CONTROL EROSION AND REHABILITATE DAMAGED AREAS

FUNDING STATUS: FUNDED: 20.00 UNFUNDED: 39.00

SERVICEWIDE ISSUES: N06 LAND USE PRAC N22 VIS USE-DEV ZN

CULTURAL RESOURCE TYPE CODE: CULL

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

High visitor use near the shoreline, together with salt deposition from the ocean, and wind and rain, have denuded slopes of vegetation. In addition, surfaced roadways cause rain to accumulate, and improper drainage features channel runoff causing massive erosion during heavy winter storms. There are three areas on the west side where this is occurring. Visitors create social trails, killing vegetation and causing soils to erode during periods of rain. As a result, native vegetation has been extensively damaged. Past efforts at control have been partially unsuccessful. Visitor control, soil blankets, reseeding, water bars, and check dams have been established. Complete abatement needs continual action. This would lead to an effective plan for controlling erosion. Rehabilitation of the eroded areas would be accomplished through reshaping, revegetation, and channeling runoff.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Obtain Professional Assistance to Define the Problem and Recommend Satisfactory Treatment. Treatment options may include reshaping and recontouring the eroded sites near the splash zone, reshaping and recontouring the eroded sites (using heavy mechanical equipment) and replanting. Mulching and temporary drip water systems may be necessary, with native plant materials (seeds, 1 gallon stock, 4 inch plants, etc).

Erosion control should not extend to natural erosion processes created by ocean wave action.

Much of this work can be accomplished by Cabrillo staff.

## BUDGET AND FTEs:

| -----FUNDED----- |               |          |                  |      |
|------------------|---------------|----------|------------------|------|
|                  | Source        | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          | PKBASE-NR MIT |          | 5.00             | 0.3  |

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|         |               |      |     |
|---------|---------------|------|-----|
| Year 2: | PKBASE-NR MIT | 5.00 | 0.3 |
| Year 3: | PKBASE-NR MIT | 5.00 | 0.3 |
| Year 4: | PKBASE-NR MIT | 5.00 | 0.3 |

|        |       |     |
|--------|-------|-----|
| Total: | 20.00 | 1.2 |
|--------|-------|-----|

## -----UNFUNDED-----

|         | Source        | Act Type | Budget (\$1000s) | FTEs |
|---------|---------------|----------|------------------|------|
| Year 1: | RG-REG-MT MIT |          | 7.00             | 0.0  |
| Year 2: | RG-REG-MT MIT |          | 30.00            | 0.0  |
| Year 3: | RG-REG-MT MIT |          | 2.00             | 0.0  |
| Year 4: |               |          |                  |      |

|        |       |     |
|--------|-------|-----|
| Total: | 39.00 | 0.0 |
|--------|-------|-----|

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a.) No Action. In spite of efforts to limit visitor access, recovery of vegetation on severely eroded and exposed sites is very slow and ultimately may not be effective. Storm flows will continue during heavy winter rains which occur every five to ten years. This results in further damage to existing vegetation, modern developments, and historic features.

b.) Partial Action. This alternative is currently in process. Eroded areas are treated on a case by case basis as money and time permit. Large scale erosion problems are not addressed due to lack of money, expertise, and labor.

COMPLIANCE CODE(s): NHPA EXCL

EXPLANATION: 516 DM6 APP. 7.4 E(4)

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PROJECT STATEMENT SHEET

CABR-N-007.001  
PS Page: 0058

PROJECT NUMBER: CABR-N-007.001

TITLE: CONTROL EROSION AND RESTORE ERODED AREAS  
SUBPROJECT TITLE: RESTORE DRAINAGE BETW 1&2

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 100.00

SERVICEWIDE ISSUES: N06 LAND USE PRAC N09 COASTAL DYNAM

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

Cabrillo and Gatchell Roads were improved by the City of San Diego in the 1960s to provide an access to the San Diego Wastewater Treatment Plant. When they were constructed, all drainage features were designed to protect the road surface, not the down hill slope. Consequently, over the last 30 years there has been enormous down slope erosion. It has scoured a ten foot wide, fifteen foot deep, and 500 foot long hole just north of parking area 1. This problem can only be controlled by containment of the water to the first non-erodeable feature which happens to be the Pacific Ocean. Surfaced roadways cause rain water to concentrate. The rain then washes out gullies because of inadequate erosion protection down slope. Over time, uncontrolled erosion can destroy visitor use developments, including parking lots, walkways, roads, historic structures and vegetation. Past efforts at control have been unsuccessful. Visitor control and check dams have been established, but have not been successful and have only compounded the problem. Erosion cannot be controlled without a professional evaluation of the problem. This would lead to the preparation of an effective plan for abating the effects of concentrated runoff. Rehabilitation of the eroded areas would be accomplished through reshaping, revegetation, and channeling runoff.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

These heavily eroded areas can only be corrected by containing and channeling the water so it does not come into contact with the soft down slope soils. The recommended method of doing this is to channel the water in culvert pipe. The pipe then continues on the surface to carry the water to the Pacific Ocean. Native vegetation will be planted along the pipe. With time, this vegetation will obscure the pipe completely.

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CABR-N-007.001

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## BUDGET AND FTEs:

| -----FUNDED----- |     |      |                  |      |
|------------------|-----|------|------------------|------|
| Source           | Act | Type | Budget (\$1000s) | FTEs |
| Year 1:          |     |      |                  |      |
| Year 2:          |     |      |                  |      |
| Year 3:          |     |      |                  |      |
| Year 4:          |     |      |                  |      |
| Total:           |     |      | 0.00             | 0.0  |

| -----UNFUNDED----- |           |      |                  |      |
|--------------------|-----------|------|------------------|------|
| Source             | Act       | Type | Budget (\$1000s) | FTEs |
| Year 1:            | RG-RM-NAT | MIT  | 100.00           | 0.3  |
| Year 2:            |           |      |                  |      |
| Year 3:            |           |      |                  |      |
| Year 4:            |           |      |                  |      |
| Total:             |           |      | 100.00           | 0.3  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No Action. This will allow the current erosion problem to continue resulting in further severe resource damage.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 E(4)

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-N-008.001  
PS Page: 0060

PROJECT NUMBER: CABR-N-008.001

TITLE: CONDUCT AIR QUALITY PROGRAM

SUBPROJECT TITLE: CONDUCT VISIBILITY MONIT

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 24.00

SERVICEWIDE ISSUES: N14 AIR POLLUTION

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

The National Park Service at Cabrillo National Monument has a unique opportunity to inform the visiting public of the effects of pollution in the San Diego area. One of the major features of the park is its view, which at times can extend 125 miles north to the San Bernardino mountains, south 35 miles into Mexico, and west 70 miles to San Clemente Island. Included within that span are the 3.5 million persons who inhabit the region. Over the last ten years, visibility has deteriorated because of the presence of air pollution over an increasing number of days through the year. Visibility as an air-quality value is at risk in this park.

The County of San Diego Air Pollution Control District monitors air quality in San Diego through the Air Pollution Control District, 9150 Chesapeake Drive, San Diego, California 92123-1096, 694-3333. They monitor ozone, carbon monoxide, particulates, nitrogen dioxide, sulphur dioxide, and lead.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Conduct Visibility Monitoring. Compile photographic documentation of the view and the effects of pollution on the view from the monument. A dedicated camera and stand could be set up east of the administration building, looking east. Photographs could be taken on a random or scheduled basis, developed and then analyzed to determine air visibility quality through the year. Results of this analysis could then be presented in the next phase of this plan, CABR-N-008-002, interpretation of air quality.

This could be accomplished by training of resource management staff, training existing staff in collateral duties, by contract, by NPS research scientists, or by cooperative agreement with a suitable academic institution.

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-008.001

PS Page: 0061

## BUDGET AND FTEs:

-----FUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Year 2:

Year 3:

Year 4:

=====

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

-----UNFUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1: REG-OTHER MON 6.00 0.1

Year 2: REG-OTHER MON 6.00 0.1

Year 3: REG-OTHER MON 6.00 0.1

Year 4: REG-OTHER MON 6.00 0.1

=====

|        |       |     |
|--------|-------|-----|
| Total: | 24.00 | 0.4 |
|--------|-------|-----|

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No Action. This would not allow us to present to the visiting public in graphic detail what is happening to the viewshed at Cabrillo National Monument. The public that visits the park would remain largely unaware of environmental degradation.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-008.002  
PS Page: 0062

PROJECT NUMBER: CABR-N-008.002

TITLE: CONDUCT AIR QUALITY PROGRAM

SUBPROJECT TITLE: INTERPRET AIR QUALITY

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 40.00

SERVICEWIDE ISSUES: N14 AIR POLLUTION

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The National Park Service at Cabrillo National Monument has a unique opportunity to inform the parks 1.5 million annual visitors from around the world of degraded air quality in the San Diego area. Visibility on good days extends 125 miles north, 35 miles south and 70 miles west. Within the metropolitan area, 3.5 million persons reside. Over the past ten years visibility has deteriorated because of the presence of air pollution. After monitoring and analysis occur as stated in CABR-N-008-001, interpretation of those results should be started.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Interpret Air Quality in the San Diego Area. The final format for presentation of this project should be developed by the park and regional office interpretive staff at the appropriate time. At this time however, it is felt that a photographic display and text describing research results and showing the varying visibility impairment over time. This should be presented to the visiting public in the area of the view building with its compelling view of San Diego and the surrounding mountains, and in interpretive programs given at the park.

## BUDGET AND FTEs:

|         | Source | Act Type | FUNDED<br>Budget (\$1000s) | FTEs |
|---------|--------|----------|----------------------------|------|
| Year 1: |        |          |                            |      |
| Year 2: |        |          |                            |      |
| Year 3: |        |          |                            |      |
| Year 4: |        |          |                            |      |
| Total:  |        |          | 0.00                       | 0.0  |

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-008.002

PS Page: 0063

| -----UNFUNDED----- |          |          |                  |      |
|--------------------|----------|----------|------------------|------|
|                    | Source   | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | AIR-QUAL | MON      | 40.00            | 0.0  |
| Year 2:            |          |          |                  |      |
| Year 3:            |          |          |                  |      |
| Year 4:            |          |          |                  |      |
| Total:             |          |          | 40.00            | 0.0  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No Action Alternative. This would not allow us to present to the visiting public a graphic detail of what is happening to our view shed at Cabrillo National Monument. The public that visits the park would remain unaware of environmental degradation.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.11

Proposal Date: 94

PROJECT NUMBER: CABR-N-009.000

TITLE: CONDUCT SURVEYS FOR R.T. AND E. PLANT SPECIES

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 20.00

SERVICEWIDE ISSUES: N03 T&E PLANTS N20 BASELINE DATA

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

PROBLEM STATEMENT:

Management does not have a comprehensive list of plant species occurring within Cabrillo National Monument. Plants within the park that may be rare, threatened, or endangered by the Federal or State Government (USFWS 1990, CDFG 1990) or by the California Native Plant Society (CNPS) (Smith and Berg, 1988) have not been listed. The National Park Service is required under the Endangered Species Act to ensure that actions undertaken do not threaten the continued existence of species recognized as threatened or endangered under the act. Further, management policies of the NPS are to treat candidate species as 'listed' species. It is critical to the management species that all rare, threatened, or endangered species be identified.

Of the vegetation types occurring on Point Loma, Diegan Coastal Sage Scrub habitat has been given a G2, Global endangered ranking by the California Natural Diversity Data Base (NDDB, 1992). Maritime Sage Scrub type has been given an extremely endangered G1 global ranking by the California NDDB. Southern Coastal Bluff Scrub also has an extremely endangered G1 rating. The USFWS considers all southern maritime chaparral habitat on Point Loma to be sensitive, and any proposed actions that would affect this resource should be addressed in the NEPA process. This information concerns the types, not any individual plants.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Conduct an inventory of the plants at Cabrillo National Monument and put the location of any rare, threatened, or endangered species in the park GIS. This would allow the park to comply with the law and help prevent adverse actions through ignorance. The study could be carried out by National Park Research Scientists, by contract, or through cooperative agreement with a suitable academic institution.

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-009.000  
PS Page: 0065

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | RG-RM-NAT RES | 20.00            | 0.1  |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |
| Total:             |               | 20.00            | 0.1  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a.) No Action. This alternative is not acceptable. It would leave the park in a position of not complying with applicable State and Federal Laws.

b.) Use Neighboring Studies. While cheaper, this action will never tell the park what species it has. Results would only imply what exists at Cabrillo National Monument. Since the park has been relatively more protected than neighboring properties, the chance that we have plants not found nearby exists.

COMPLIANCE CODE(s): OTHER EXCL

EXPLANATION: 516 DM6 APP. 7.4 E

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-010.000

PS Page: 0066

PROJECT NUMBER: CABR-N-010.000

TITLE: CONDUCT ECOLOGY AND VEGETATIVE HISTORY OF PARK

FUNDING STATUS: FUNDED: 5.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: N07 NAT FIRE REGM N20 BASELINE DATA

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The native vegetation of Cabrillo National Monument is dominated by mixed southern maritime chaparral on north facing slopes and maritime succulent sage scrub on south facing and west facing slopes. Although much of the present monument land may have been modified by modern human use between 1769 - the date of first European/Mexican occupation of the Point Loma/San Diego region and the present, it is becoming increasingly important as an example of native vegetation due to the continuing urbanization of the region. The U.S. Fish and Wildlife Service considers all vegetation on Point Loma to be sensitive. In order to manage this increasingly valuable resource, it is essential to understand the history of the vegetation and the successional processes which influence its development.

Important issues which should be addressed include the natural role of fire in these vegetation types, the local fire history, past effects of domestic livestock use, and the possibility that trees, possibly Torrey Pine and Oak, may have occurred on Point Loma. Tree stumps were reportedly found during historic times in the 1840s. If the ecological and fire history studies suggest that fire is an important natural component of the ecosystem, then a fire management plan, designed to restore fire by prescribed burning, should be prepared in conjunction with the U.S. Navy.

Preliminary field studies have indicated that the fire cycle in coastal sage scrub is every eighty to one hundred twenty years. The increased humidity because of the oceans proximity accounts for this longer cycle. Field studies have also shown the age of this ecotype to be ninety years at time of writing.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Conduct a study of the ecology and vegetative history. Study the vegetation history (based on ages, fire scars, written history, and other sources, species population dynamics, role of fire and other matters) to clearly define the natural dynamics of the

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## PROJECT STATEMENT SHEET

CABR-N-010.000

PS Page: 0067

native vegetation of the monument and Point Loma, the recent human changes (including fire control), and the probable future successional trends in the Natural Vegetation Zone of the monument. The results of this study could be used as a basis for preparing a fire management plan (presently full suppression) if appropriate.

This vegetation study will require a field study with good sampling design conducted by a competent scientist. It could be carried out by NPS research scientists, by contract, or through a cooperative agreement with a suitable academic institution.

## BUDGET AND FTEs:

| -----FUNDED----- |           |          |                  |      |
|------------------|-----------|----------|------------------|------|
|                  | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          | RG-RM-NAT | RES      | 5.00             | 0.0  |
| Year 2:          |           |          |                  |      |
| Year 3:          |           |          |                  |      |
| Year 4:          |           |          |                  |      |
| Total:           |           |          | 5.00             | 0.0  |

| -----UNFUNDED----- |        |          |                  |      |
|--------------------|--------|----------|------------------|------|
|                    | Source | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |        |          |                  |      |
| Year 2:            |        |          |                  |      |
| Year 3:            |        |          |                  |      |
| Year 4:            |        |          |                  |      |
| Total:             |        |          | 0.00             | 0.0  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a.) No Action. Southern maritime chaparral and coastal sage scrub have a history of burning at varied intervals and intensity followed by resprouting and germination of buried seed. This renewal of the vegetation often results in a flush of short lived and relatively rare species. No real successional pattern resulting from the absence of fire over long intervals has yet been determined, largely because as stands age, fuels continue to accumulate and eventually some source of ignition results in a

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PROJECT STATEMENT SHEET

CABR-N-010.000

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fire, sometimes fire storms. The No Action alternative means that park managers will not have the basic information required to prepare an appropriate management plan which takes into account the role of fire in the perpetuation of monument vegetation.

COMPLIANCE CODE(s): . EXCL

EXPLANATION: 516 DM6 APP. 7.4 E

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-N-011.000  
PS Page: 0069

PROJECT NUMBER: CABR-N-011.000

TITLE: INVENTORY AND MONITOR TERRESTRIAL VERTEBRATES

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 30.00

SERVICEWIDE ISSUES: N17 BIODIVERSITY N20 BASELINE DATA

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER: 163

PROBLEM STATEMENT:

Cabrillo National Monument has been reduced to the equivalent of a small island by development on Point Loma and urbanization of the surrounding region. The vertebrate fauna of the peninsula is known generally from studies conducted for the U.S. Navy "Terrestrial Biological Survey and Inventory of Navy Property on Point Loma, San Diego, CA. Woodward-Clyde Assoc., 1981" and "Terrestrial Biological Survey and Inventory of Navy Property on Point Loma, San Diego, CA., Advanced Sciences, Inc., 1992." We do not have much information about vertebrates within the monument.

As the loss of surrounding habitat continues, the monument will become increasingly important for both common and sensitive mammals, amphibians, and reptiles, including the San Diego Coast Horned Lizard, Coronado Skink, Orange-Throated Whiptail, Coastal Western Whiptail, Northern Red Diamond Rattlesnake, San Diego Ringneck Snake, Coastal Rosy Boa, Coast Patch-nosed Snake, Southern California Rufous-Crowned Sparrow, Loggerhead Shrike, California Horned Lark, Elegant Tern, Double-Crested Cormorant, Western Grebe, Great Blue Heron, Black-Crowned Night Heron, Great Egret, Snowy Egret, Caspian Tern, California Gnat Catcher, Peregrine Falcon, San Diego Desert Woodrat, Northwestern San Diego Pocket Mouse, Pacific Little Pocket Mouse, Great Western Mastiff Bat, and California Leaf-Nosed Bat. These animals are presently endangered or Category 2 species.

DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Conduct an Inventory and Establish Methods For Periodic Re-evaluation of Selected Species Populations (Monitoring). This would be the first thorough inventory of the terrestrial vertebrates of the monument. Long-term population monitoring would provide information necessary to understand the relationship of the vertebrates to vegetation changes, "insularization" of the monument, effects of air pollution, and loss of genetic diversity. While these factors may be of little interest to the historic aspects of the monument, the biological

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## PROJECT STATEMENT SHEET

CABR-N-011.000

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value of the monument resources are increasingly valuable to understanding the natural ecosystems of Point Loma against the background of urbanization.

The monument should be systematically inventoried using live trapping and other techniques appropriate for the terrestrial vertebrates. Methods for periodically resampling representative species populations would be developed and initiated. The work could be conducted as a contract, a cooperative agreement between the NPS and a local educational institution, or by NBS science staff.

## BUDGET AND FTEs:

| -----FUNDED-----   |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |           |          |                  |      |
| Year 2:            |           |          |                  |      |
| Year 3:            |           |          |                  |      |
| Year 4:            |           |          |                  |      |
|                    |           | Total:   | 0.00             | 0.0  |
| -----UNFUNDED----- |           |          |                  |      |
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | RG-NS-RES | RES      | 15.00            | 0.0  |
| Year 2:            | RG-NS-RES | MON      | 5.00             | 0.0  |
| Year 3:            | RG-NS-RES | MON      | 5.00             | 0.0  |
| Year 4:            | RG-NS-RES | MON      | 5.00             | 0.0  |
|                    |           | Total:   | 30.00            | 0.0  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a.) No Action. Occasional observations of common native terrestrial vertebrates will be reported to park staff and informal inventories will be prepared from time to time. These will not represent a valid sample upon which to base any resource evaluation or management action.

COMPLIANCE CODE(s): EXCL

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-N-011.000

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EXPLANATION: 516 DM6 APP. 7.4 E

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-012.000  
PS Page: 0072

PROJECT NUMBER: CABR-N-012.000

TITLE: MONITOR MARINE WATER QUALITY

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 20.00

SERVICEWIDE ISSUES: N11 WATER QUAL-EXT N20 BASELINE DATA

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Three major sources of water borne pollution threaten marine resources under the administration of the monument: discharges and spills from San Diego Bay; discharges from Naval Research and Development facilities (NCCOSC); and discharges and spills from the Point Loma Wastewater Treatment Plant. Primary responsibilities for monitoring water quality and pollutant effects lie with the San Diego Water Quality Control Board, the California Department of Fish and Game (CDF&G), the Federal Environmental Protection Agency (EPA), the State of California Environmental Protection Agency, the National Oceanic and Atmospheric Administration (NOAA), and the U.S. Coast Guard (USCG). Each of these agencies has one or more programs in place. Generally, the USCG is the lead agency in ocean matters.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Monitor Marine Quality and Pollutant Levels in Biota. This action will provide for the acquisition of information needed to assure resource protection. One method would be to collaborate with principal monitoring agencies to obtain information on water quality and pollutant levels, (MWQCB, City of San Diego, NOAA, EPA). Explore development of formal relationships (MOU, MOA, etc.) with the agencies to ensure regular sampling and to maintain high awareness of monument resources and concerns. Participate in regional monitoring programs, such as NOAA Status and Trends surveys and California Mussell Watch. Monitor water quality reports and chart seasonal and ongoing trends.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |

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Year 4:

|                    |           |          |                       |
|--------------------|-----------|----------|-----------------------|
|                    |           | =====    |                       |
| Total:             |           | 0.00     | 0.0                   |
| -----UNFUNDED----- |           |          |                       |
|                    | Source    | Act Type | Budget (\$1000s) FTEs |
| Year 1:            | PKBASE-NR | MON      | 5.00 0.1              |
| Year 2:            | PKBASE-NR | MON      | 5.00 0.1              |
| Year 3:            | PKBASE-NR | MON      | 5.00 0.1              |
| Year 4:            | PKBASE-NR | MON      | 5.00 0.1              |
|                    |           | =====    |                       |
| Total:             |           | 20.00    | 0.4                   |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

a.) No Action Alternative. Unless the monument staff actively participates in a monitoring program, the marine resources in the monument will continue to be adversely effected and the causes of the impacts will go undetected. Other agencies may continue to concentrate on other areas within the region.

b.) Partial Action. Monitor particular pollutants insofar as information can be gathered from other agencies monitoring this resource. This action will provide some information, but damage to the resource could occur without management's knowledge.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM6 APP. 7.4 E(2)

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-013.000

PS Page: 0074

PROJECT NUMBER: CABR-N-013.000

TITLE: MANAGE THE POINT LOMA ECOLOGICAL RESERVE

FUNDING STATUS: FUNDED: 3.00 UNFUNDED: 144.00

SERVICEWIDE ISSUES: N03 T&amp;E PLANTS N06 LAND USE PRAC

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

The U.S. Navy, City of San Diego, and Cabrillo National Monument have come together out of mutual need to inventory, monitor and protect 700 acre tract of land containing a great many rare, threatened, and endangered plants and animals. This joining of interests is resulting in the formation of the Point Loma Ecological Reserve. There are 91 State and Federally listed species within this Reserve. Cabrillo National Monument needs to actively participate in this interagency cooperative venture to protect unique and diminishing resources.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Enter into an agreement with the U.S. Navy, Southwest Division Naval Facilities Engineering Command, to properly manage the 700 acre Point Loma Ecological Reserve which includes both NPS and Navy lands. At this time there is a strong possibility that reserve management will fall to the NPS, as a land management agency. Management of the ecological reserve may encompass many actions unforeseen at the time of this writing. This may include influencing actions taken on surrounding Navy lands, including inventorying, monitoring, experimentation with living systems, prescribed burning and other land management practices not currently being done on Point Loma. At the current time the U.S. Navy is the primary driving force in the plan. A great deal of money has been spent by the Navy in developing criteria and articulating what the reserve will be. Cabrillo National Monument has been the benefactor of a great deal of biological work accomplished by private consulting firms under contract to the U.S. Navy.

## BUDGET AND FTEs:

|         | Source    | Act Type | FUNDED<br>Budget (\$1000s) | FTEs |
|---------|-----------|----------|----------------------------|------|
| Year 1: | PKBASE-NR | ADM      | 3.00                       | 0.0  |
| Year 2: |           |          |                            |      |

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-013.000

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Year 3:

Year 4:

|        |      |     |
|--------|------|-----|
| Total: | 3.00 | 0.0 |
|--------|------|-----|

| -----UNFUNDED----- |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | RG-RM-NAT | PRO      | 35.00            | 1.0  |
| Year 2:            | RG-RM-NAT | PRO      | 35.00            | 1.0  |
| Year 3:            | RG-RM-NAT | PRO      | 37.00            | 1.0  |
| Year 4:            | PKBASE-NR | PRO      | 37.00            | 1.0  |
| Total:             |           |          | 144.00           | 4.0  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. Because of the sensitive nature of the natural resources in the park, and the impact the ecological reserve will have on those natural resources, No Action is innappropriate and not defendable. Too much will occur that will have a direct impact on the park's natural resources to not participate in the plan.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-014.000

PS Page: 0076

PROJECT NUMBER: CABR-N-014.000

TITLE: EXTERNAL THREAT 1

FUNDING STATUS: FUNDED: 25.00 UNFUNDED: 40.00

SERVICEWIDE ISSUES: N16 NEAR-PARK DEV N11 WATER QUAL-EXT

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Cabrillo National Monument has a significant external threat to the park in the proposed expansion of the City of San Diego Point Loma Wastewater Treatment Plant. This industrial facility, located on the northwest boundary of the park is undergoing major development due to the increased population of southern California, and in response to a suit by the Federal EPA to upgrade from advanced primary treatment to secondary treatment of sewage passing through the plant. Development at the plant has been ongoing for the last 15 years but due to a large hill, and prevailing winds, does not impact the park viewshed and odors are not a problem. There is also significant impact to park roads from truck traffic. Impending development over the last several years has targeted removal of the hill and building major sewage processing facilities immediately adjacent to the park boundary. The effect of these two actions will have a major negative impact on the park. The historic viewshed and the natural scenic viewshed will be impacted. Odors from the plant will negatively impact the park. Truck traffic will increase over park roads. The City Clean Water Program which controls this development, at this point in time, seems oblivious to the negative impact their development will have on the park.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Community outreach and discussions with elected officials have been used in the immediate past and continues to be the best alternative for preventing negative development in this area. There are other paths available to the park which have not yet been utilized. No action can be taken without Regional concurrence. Outside groups and agencies involved are: Naval Research and Development, Naval Command, Control, and Ocean Surveillance Center, Naval Submarine Base, Fort Rosecrans Cemetery, The Point Loma Association, local City elected leaders, and other interested parties and individuals.

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-014.000

PS Page: 0077

## BUDGET AND FTEs:

| -----FUNDED----- |           |           |                  |      |
|------------------|-----------|-----------|------------------|------|
|                  | Source    | Act Type  | Budget (\$1000s) | FTEs |
| Year 1:          | PKBASE-OT | PRO       | 10.00            | 0.1  |
|                  | PKBASE-OT | ADM       | 5.00             | 0.1  |
|                  |           | Subtotal: | 15.00            | 0.2  |
| Year 2:          | PKBASE-OT | PRO       | 10.00            | 0.1  |
| Year 3:          |           |           |                  |      |
| Year 4:          |           |           |                  |      |
|                  |           | Total:    | 25.00            | 0.3  |

| -----UNFUNDED----- |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | FED-OTHER | PRO      | 20.00            | 0.2  |
| Year 2:            | FED-OTHER | PRO      | 20.00            | 0.2  |
| Year 3:            |           |          |                  |      |
| Year 4:            |           |          |                  |      |
|                    |           | Total:   | 40.00            | 0.4  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. This alternative is unacceptable to the health and well being of this park.

COMPLIANCE CODE(s): EXCL EXCL

EXPLANATION: 516 DM2 APP. 2, 1.9

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-015.000

PS Page: 0078

PROJECT NUMBER: CABR-N-015.000

TITLE: WRITE AND IMPLEMENT FIRE MANAGEMENT PLAN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 30.00

SERVICEWIDE ISSUES: N06 LAND USE PRAC N07 NAT FIRE REGM

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Cabrillo National Monument does not have a fire management plan. The park relies solely on the nearby Federal Fire Department for suppression of structure and wildland fires. Some presuppression activities and supplies are maintained by the park. Employees are red carded as a career enhancement activity. The park needs a fire management plan so natural resources can be managed in a manner consistent with NPS policies and practices.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Write and implement a fire management plan for the park and submit for Regional review. Outside expertise and help must be sought to accomplish this. This will allow the park to be in compliance with Service policy. It will allow actions to be taken that are tentatively deemed desirable.

## BUDGET AND FTES:

| -----FUNDED-----   |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTES |
| Year 1:            |               |                  |      |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |
| Year 4:            |               |                  |      |
| Total:             |               | 0.00             | 0.0  |
| -----UNFUNDED----- |               |                  |      |
| Source             | Act Type      | Budget (\$1000s) | FTES |
| Year 1:            | PKBASE-NR PRO | 30.00            | 0.5  |
| Year 2:            |               |                  |      |

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-N-015.000

PS Page: 0079

Year 3:

Year 4:

Total:

=====

30.00

0.5

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No Action. This is presently the course of action the park is taking and does not adequately meet the needs of the park. Elements of the natural resources management plan require a plan to be written and the park to implement NPS policy.

COMPLIANCE CODE(s): EXCL EA

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-016.000  
PS Page: 0080

PROJECT NUMBER: CABR-N-016.000

TITLE: PREPARE INVENTORY AND MONITORING PLAN

FUNDING STATUS: FUNDED: 2.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: N03 T&amp;E PLANTS N20 BASELINE DATA

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

National Park Service policy, (NPS-75) requires that an Inventory and Monitoring Plan be written and implemented for each unit of the National Park System. This plan is both required and desirable for this park.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Prepare an Inventory and Monitoring Plan following the outline and guidelines contained in NPS-75. Write, submit for review, and implement it at Cabrillo National Monument.

## BUDGET AND FTEs:

| -----FUNDED----- |               |                  |      |
|------------------|---------------|------------------|------|
| Source           | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:          |               |                  |      |
| Year 2:          | PKBASE-NR ADM | 2.00             | 0.0  |
| Year 3:          |               |                  |      |
| Year 4:          |               |                  |      |
| Total:           |               | 2.00             | 0.0  |

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |          |                  |      |
| Year 2:            |          |                  |      |
| Year 3:            |          |                  |      |
| Year 4:            |          |                  |      |

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-016.000

PS Page: 0081

Total:

0.00

0.0

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. This has been the action that the park has been following. Because of the wide variety of ecotypes, and species found in the park, including 84 State and Federally listed species, no action is inconsistent with NPS policy and will contribute to the loss of sensitive habitat and individual plant and animal species.

COMPLIANCE CODE(s): DOC

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-018.000  
PS Page: 0082

PROJECT NUMBER: CABR-N-018.000

TITLE: WRITE AND IMPLEMENT A PRESCRIBED BURN PLAN

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 36.00

SERVICEWIDE ISSUES: N07 NAT FIRE REGM N06 LAND USE PRAC

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Cabrillo National Monument has long followed a policy of complete suppression of all fires in the Natural Zone. The native vegetation, primarily coastal sage scrub, is fire dependent. The policy of fire suppression is causing change to occur by the senescence and dying off of many species endemic to the ecotype. At this time, 1994, fire has not occurred in the park to any extent for 95 years. The fire cycle of inland chaparral is about 25 years. The fire cycle of coastal sage scrub may be as much as every 90 to 120 years. We are in the period when fire should occur. It would be much better to have this fire within prescription and when we are prepared for it rather than have a fire storm.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Write a prescribed burn plan, outline the prescription, coordinate with neighboring agencies through the Point Loma Ecological Reserve and implement whatever actions are determined to be appropriate as a result of the plan. Conduct prescribed burns at the park.

## BUDGET AND FTEs:

|         | Source | Act Type | FUNDED<br>Budget (\$1000s) | FTEs |
|---------|--------|----------|----------------------------|------|
| Year 1: |        |          |                            |      |
| Year 2: |        |          |                            |      |
| Year 3: |        |          |                            |      |
| Year 4: |        |          |                            |      |
| Total:  |        |          | 0.00                       | 0.0  |

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-018.000

PS Page: 0083

| -----UNFUNDED----- |           |          |                  |      |
|--------------------|-----------|----------|------------------|------|
|                    | Source    | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            | RG-RM-NAT | PRO      | 30.00            | 0.3  |
| Year 2:            | RG-RM-NAT | PRO      | 2.00             | 0.1  |
| Year 3:            | RG-RM-NAT | PRO      | 2.00             | 0.1  |
| Year 4:            | RG-RM-NAT | PRO      | 2.00             | 0.1  |
| Total:             |           |          | 36.00            | 0.6  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. This is the present course of action. it is believed to be detrimental to the survival of the natural resources of this park.

COMPLIANCE CODE(s): EA OTHER

EXPLANATION: 516 DM2 APP. 2, 1.10

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-019.000

PS Page: 0084

PROJECT NUMBER: CABR-N-019.000

TITLE: INVENTORY INSECTS FOUND IN PARK

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 30.00

SERVICEWIDE ISSUES: N20 BASELINE DATA N17 BIODIVERSITY

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Cabrillo National Monument does not have an inventory of insects found in the park. There is a complete lack of information regarding an entire class. A base-line inventory needs to be initiated, which will lead to the development of a program to monitor insect species found in the park.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Conduct an inventory of insects found in the park. This inventory should be conducted at various times of the day, at various altitudes from the ground, in differing ecotypes, and at different times of the year. It could be undertaken by a local university or the NPS CPSU at Davis or Tucson.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |               |                  |      |
|--------------------|---------------|------------------|------|
| Source             | Act Type      | Budget (\$1000s) | FTEs |
| Year 1:            | RG-RM-NAT INT | 30.00            | 0.3  |
| Year 2:            |               |                  |      |
| Year 3:            |               |                  |      |

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-N-019.000

PS Page: 0085

Year 4:

Total:

=====

30.00

0.3

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. This is the present course the park is taking and has resulted in our present state of ignorance. This ignorance needs to be overcome.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-020.000

PS Page: 0086

PROJECT NUMBER: CABR-N-020.000

TITLE: EXTERNAL THREAT 2

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 0.00

SERVICEWIDE ISSUES: N11 WATER QUAL-EXT

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

San Diego Bay is polluted. Although many living organisms occupy the bay, PCB's, heavy metals and other pollutants are in the bay.

The bay waters empty at low tides twice a day, and then this water passes over the park tidepools. Several observations have been made in our tidepool monitoring program. California mussels are in decline, abalone are in decline even though they are not harvested in this location. Cause and effect have not been determined, but the possibility of a connection exists.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Continue the tidepool monitoring program, and implement the marine water quality monitoring program. Analyse both for trends. Develop contacts with interested groups outside the park and try to implement change.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |
| Total:           |          | 0.00             | 0.0  |

| -----UNFUNDED----- |          |                  |      |
|--------------------|----------|------------------|------|
| Source             | Act Type | Budget (\$1000s) | FTEs |
| Year 1:            |          |                  |      |
| Year 2:            |          |                  |      |

Proposal Date: 94

PROJECT STATEMENT SHEET

CABR-N-020.000  
PS Page: 0087

Year 3:

Year 4:

|        |       |     |
|--------|-------|-----|
| Total: | ===== |     |
|        | 0.00  | 0.0 |

(OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. Through this alternative things will continue as there now are. Invertebrate population levels may also continue their decline.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-022.000

PS Page: 0088

PROJECT NUMBER: CABR-N-022.000

TITLE: ESTABLISH BIRD MONITORING PROGRAM

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 60.00

SERVICEWIDE ISSUES: N02 T&amp;E ANIMAL N17 BIODIVERSITY

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

An adequate bird inventory exists at the park. Over 361 species have been observed here. Cabrillo National Monument and the Point Loma peninsula are on the Pacific flyway. The Audubon Society has conducted yearly bird counts for over 20 years. There are 55 species at the park that are either State or Federally listed. We do not have enough information to properly care for birds and maintain optimum bird habitat. What these birds do from year to year, their seasonal, yearly, and other fluctuations are unknown. Birds are an important part of the park's ecosystem, and elicit a great deal of interest from birding groups that frequent the park.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Establish a long-term bird monitoring program to provide management with the information it needs to ensure the survival of birds on Point Loma. The Audubon bird censuses would be a good starting point. This data could be distilled into a working start for the program. Since hundreds of birders watch birds at this park already, they could possibly be enlisted into a monitoring program. Given time, an FTE, and a computer, a monitoring program could easily come together.

## BUDGET AND FTEs:

| -----FUNDED----- |          |                  |      |
|------------------|----------|------------------|------|
| Source           | Act Type | Budget (\$1000s) | FTEs |
| Year 1:          |          |                  |      |
| Year 2:          |          |                  |      |
| Year 3:          |          |                  |      |
| Year 4:          |          |                  |      |

Total:

0.00

0.0

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-022.000

PS Page: 0089

| -----UNFUNDED----- |           |           |                  |      |
|--------------------|-----------|-----------|------------------|------|
|                    | Source    | Act Type  | Budget (\$1000s) | FTEs |
| Year 1:            | VOL-INDEP | MON       | 0.00             | 0.0  |
|                    | RG-RM-NAT | MON       | 15.00            | 0.3  |
|                    |           | Subtotal: | 15.00            | 0.3  |
| Year 2:            | VOL-INDEP | MON       | 0.00             | 0.0  |
|                    | RG-RM-NAT | MON       | 15.00            | 0.3  |
|                    |           | Subtotal: | 15.00            | 0.3  |
| Year 3:            | VOL-INDEP | MON       | 0.00             | 0.0  |
|                    | RG-RM-NAT | MON       | 15.00            | 0.3  |
|                    |           | Subtotal: | 15.00            | 0.3  |
| Year 4:            | VOL-INDEP | MON       | 0.00             | 0.0  |
|                    | RG-RM-NAT | MON       | 15.00            | 0.3  |
|                    |           | Subtotal: | 15.00            | 0.3  |
|                    |           | Total:    | 60.00            | 1.2  |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. This is the course of action the park is presently taking. Monitoring bird species could give the park valuable scientific, biodiversity, and interpretive information.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-023.000  
PS Page: 0090

PROJECT NUMBER: CABR-N-023.000

TITLE: ESTABLISH LICHEN MONITORING PROGRAM

FUNDING STATUS: FUNDED: 0.00 UNFUNDED: 80.00

SERVICEWIDE ISSUES: N17 BIODIVERSITY N24 OTHER

CULTURAL RESOURCE TYPE CODE: N/A

10-238 PACKAGE NUMBER:

## PROBLEM STATEMENT:

Cabrillo National Monument is on a veritable "island" west of the City of San Diego and has an abundant lichen population, including one lichen only found in the continental US. Lichens are believed to be sensitive to air pollution and a good indication of air quality. A number of species once present in the park no longer exist. Attempts at re-introduction of former species have been unsuccessful. A program for monitoring these lichens could reveal valuable information on those remaining lichens found in the park.

## DESCRIPTION OF RECOMMENDED PROJECT OR ACTIVITY:

Establish a long-term program for monitoring lichens at this park.

## BUDGET AND FTEs:

-----FUND-----  
Source Act Type Budget (\$1000s) FTEs

Year 1:

Year 2:

Year 3:

Year 4:

=====

|        |      |     |
|--------|------|-----|
| Total: | 0.00 | 0.0 |
|--------|------|-----|

-----UNFUNDED-----  
Source Act Type Budget (\$1000s) FTEs

Year 1: RG-RM-NAT MON 20.00 0.2

Year 2: RG-RM-NAT MON 20.00 0.2

Year 3: RG-RM-NAT MON 20.00 0.2

Proposal Date: 94

## PROJECT STATEMENT SHEET

CABR-N-023.000

PS Page: 0091

|         |               |       |     |
|---------|---------------|-------|-----|
| Year 4: | RG-RM-NAT MON | 20.00 | 0.2 |
| Total:  |               | 80.00 | 0.8 |

## (OPTIONAL) ALTERNATIVE ACTIONS/SOLUTIONS AND IMPACTS:

No action. This is the direction the park is taking now. As a result, park staff remains ignorant regarding the health and diversity of lichens and their role in the coastal sage scrub ecotype and in indicating air quality in the region. No action is not acceptable either by policy or law.

COMPLIANCE CODE(s): EXCL

EXPLANATION: 516 DM2 APP. 2, 1.6

Proposal Date: 94

APPENDIX 1  
LIST OF COMPLETED PROJECTS

Natural Resources

1. One acre of asphalt parking lot removed and converted to native vegetation with ten native species.
2. Ongoing exotic vegetation removal. Program to date: 60 mature eucalyptus removed; 360 adult acacia from eleven separate areas of park; Klamath weed, *Hypericum perforatum*, 97% removal of a two acre stand; African fountain grass, needs constant monitoring; castor bean, *Ricinus communis* L., complete eradication, needs monitoring; jade plant, 70% removal, ongoing; wild fennel, *Foeniculum vulgare*, 3 year program, 50% removal; Russian thistle *Salsola iberica*, low level control, only reseeds in disturbed areas; Monterey cypress, 7 mature trees removed, ongoing; *Oxalis corniculata* L., control just started; *Carpobrotus edulis*, control started, estimated 10 tons removed in FY93, estimated twenty acres in park will take several years to accomplish; many others.
3. Tidepool monitoring system started in 1989, one year remaining, conducted by Gary Davis, Channel Islands, funded by Cabrillo Historical Association.
4. Erosion control and revegetation of 4 acres of 12 sites in park. Ongoing.
5. Purchase of hardware and software for park GIS system. Gis plan written and submitted. Contract with CPSU, U of A, Tucson provided initial digitized data for Idrisi software and initial training for technician.
6. 40 acres of park vegetation placed in exclosures to allow vegetation to recover where plant growth is slow or easily impacted by visitors. Exclosures monitored, repaired, and improved.

Cultural Resources

1. Performed preservation treatment on wood and metal surfaces of 17 WW I and WW II structures per regional directives.
2. Extensive repair to Old Point Loma Lighthouse roof and tower under regionally administered contract, 1983.
3. Old Point Loma Lighthouse doors and windows stripped to bare wood and repaired, repainted, regional monies, 1991.
4. Two original shadow box, shell frame paintings of Old Point Loma Lighthouse given extensive preservation treatment, 1992

and 1993.

5. Museum storage doubled in size, created special cabinet for document storage, 17th century split ladderback chair appraised, museum collection reviewed, 1992.
6. Discovered and made available the only remaining Civil War sling cart in existence. Presently at Fort Pulaski.
7. Publications:
  - At Park
    - Guns of San Diego, 1991, Historic Resource Study, by Erwin Thompson.
    - Administrative History, 1988, by Susan Lehman.
    - The 19th Coast Artillery and Fort Rosecrans: Remembrances, 1993, by Howard Overton.
    - History of Cabrillo Historical Association by Kay Leahy, 1989.
    - Oral History Project, by Pamela Morton, 1985.
    - Lighthouse History Report, by Bill Michaels, 1991.
    - Oral Histories completed 1966, transcribed 1992, by Ross Holland.
  - At Region
    - List of Classified Structures, Jamie Donohoe, 1993.
    - Historic Landscape Study, Hank Florence, 1993.
  - Denver Service Center
    - Historic Structures Preservation Guide, 1986.

APPENDIX 2  
INVENTORY OF EXOTIC PLANTS  
CABRILLO NATIONAL MONUMENT

- \* indicates exotic plants.  
# indicates exotics believed to be totally removed from park.  
» indicates exotic targeted for removal and in process by Resource Management Plan and Vegetation Management Plan.

Technical Names

Common Names

CONIFERAE

CUPRESSACEAE

|                                 |                  |
|---------------------------------|------------------|
| <u>Cupressus Forbesii</u> * »   | Tecate cypress   |
| <u>Cupressus macrocarpa</u> * » | Monterey cypress |
| <u>Juniperus conferta</u> *     | shore juniper    |

PINACEAE

|                           |                     |
|---------------------------|---------------------|
| <u>Pinus muricata</u> *   | Bishop pine         |
| <u>Pinus thunbergii</u> * | Japanese black pine |
| <u>Pinus torreyana</u> *  | Torrey pine         |

DICOTYLEDONOUS FLOWERING PLANTS

AIZOACEAE

|                                        |                          |
|----------------------------------------|--------------------------|
| <u>Carpobrotus edulis</u> * »          | Ice plant, hottentot-fig |
| <u>Mesembryanthemum crystallinum</u> * | crystalline iceplant     |
| <u>Mesembryanthemum nodiflorum</u> *   | small-flowered iceplant  |
| <u>Malephora crocea</u> *              |                          |

ANACARDIACEAE

|                           |                      |
|---------------------------|----------------------|
| <u>Cissus rhombifolis</u> | grape ivy            |
| <u>Shinus molle</u> * #   | Peruvian pepper tree |

APIACEAE

|                               |                             |
|-------------------------------|-----------------------------|
| <u>Apium leptophyllum</u> *   | marsh parsnip               |
| <u>Foeniculum vulgare</u> * » | fennel, flea bane, licorice |

ARALIACEAE

|                       |             |
|-----------------------|-------------|
| <u>Hedera helix</u> * | English ivy |
|-----------------------|-------------|

ASTERACEAE

|                               |          |
|-------------------------------|----------|
| <u>Centaurea melitensis</u> * | tecalote |
|-------------------------------|----------|

|                                   |                       |
|-----------------------------------|-----------------------|
| <u>Centaurea solstitialis</u> *   | yellow star-thistle   |
| <u>Chrysanthemum coronarium</u> * | garland chrysanthemum |
| <u>Conyza bonariensis</u> *       | flax-leaved fleabane  |
| <u>Cotula coronopifolia</u> *     | brass buttons         |
| <u>Dimorphotheca ecklonis</u> *   | cape-marigold         |
| <u>Gazania longiscapa</u> *       | gazania               |
| <u>Gazania pavonia</u> *          | gazania               |
| <u>Gnaphalium luteo-album</u> *   | weedy everlasting     |
| <u>Hedypnois cretica</u> *        |                       |
| <u>Senecio vulgaris</u> *         | common groundsel      |
| <u>Xanthium spinosum</u> *        | spiny clotbur         |

#### BRASSICACEAE

|                                               |                      |
|-----------------------------------------------|----------------------|
| <u>Brassica geniculata</u> *                  | short-podded mustard |
| <u>Brassica nigra</u> *                       | black mustard        |
| <u>Cakile edentula</u> ssp. <u>edentula</u> * | sea rocket           |
| <u>Descurania sophia</u> *                    | flix-weed            |
| <u>Lepidium</u> sp. *                         | peppergrass          |
| <u>Raphinus sativus</u> *                     | wild radish          |

#### CARYOPHYLLACEAE

|                         |               |
|-------------------------|---------------|
| <u>Silene gallica</u> * | windmill pink |
|-------------------------|---------------|

#### CHENOPODIACEAE

|                               |                     |
|-------------------------------|---------------------|
| <u>Atriplex semibaccata</u> * | Australian saltbush |
| <u>Bassia hyssopifolia</u> *  | five-hook bassia    |
| <u>Chenopodium album</u> *    | white goosefoot     |
| <u>Salsola iberica</u> * »    | Russian-thistle     |

#### CONVOLVULACEAE

|                                  |                   |
|----------------------------------|-------------------|
| <u>Convolvulus arvensis</u> L. * | white morninglory |
|----------------------------------|-------------------|

#### ELEAGNACEAE

|                                 |               |
|---------------------------------|---------------|
| <u>Elaeagnus angustifolia</u> * | Russian-olive |
|---------------------------------|---------------|

#### EUPHORBIACEAE

|                             |              |
|-----------------------------|--------------|
| <u>Euphorbia peplus</u> *   | petty spurge |
| <u>Ricinus communis</u> * # | castor bean  |

#### FABACEAE

|                              |                     |
|------------------------------|---------------------|
| <u>Acacia</u> sp.* »         | Acacia              |
| <u>Medicago polymorpha</u> * | bur-clover          |
| <u>Melilotus albus</u> *     | white sweet-clover  |
| <u>Melilotus indicus</u> * » | yellow sweet-clover |

# GERANIACEAE

|                          |               |
|--------------------------|---------------|
| <u>Erodium</u> sp. *     | filaree       |
| <u>Geranium</u> sp. *    | geranium      |
| <u>Pelargonium</u> sp. * | fish geranium |

# HYPERICACEAE

|                                  |              |
|----------------------------------|--------------|
| <u>Hypericum canariensis</u> * » | Klamath weed |
|----------------------------------|--------------|

# LAMIACEAE

|                            |           |
|----------------------------|-----------|
| <u>Marrubium vulgare</u> * | horehound |
|----------------------------|-----------|

# MALVACEAE

|                         |              |
|-------------------------|--------------|
| <u>Malva neglecta</u> * | cheese plant |
|-------------------------|--------------|

# MYOPORACEAE

|                            |          |
|----------------------------|----------|
| <u>Myoporum laetum</u> * » | myoporum |
|----------------------------|----------|

# MYRTACEAE

|                                     |             |
|-------------------------------------|-------------|
| <u>Callistemon citrinus</u> * »     | bottlebrush |
| <u>Eucalyptus camaldulensis</u> * » | red gum     |
| <u>Eucalyptus ficifolia</u> * »     |             |

# OXALIDACEAE

|                                                       |        |
|-------------------------------------------------------|--------|
| <u>Oxalis corniculata</u> ssp. <u>corniculata</u> * » | Oxalis |
|-------------------------------------------------------|--------|

# PITTOSPORACEAE

|                                   |             |
|-----------------------------------|-------------|
| <u>Pittosporum crassifolium</u> * | pittosporum |
| <u>Pittosporum tobira</u> *       | mock orange |

# PLUMBAGINACEAE

|                            |         |
|----------------------------|---------|
| <u>Limonium sinuatum</u> * | statice |
|----------------------------|---------|

# POLYGONACEAE

|                              |                 |
|------------------------------|-----------------|
| <u>Polygonum aviculare</u> * | common knotweed |
|------------------------------|-----------------|

# PRIMULACEAE

|                             |                   |
|-----------------------------|-------------------|
| <u>Anagallis arvensis</u> * | scarlet pimpernel |
|-----------------------------|-------------------|

# SCROPHULARIACEAE

Hebe elliptica \*

hebe

SOLANACEAE

Nicotiana glauca \* »

tree tobacco

MONOCOTYLEDONOUS FLOWERING PLANTS

ARECACEAE

Phoenix canariensis \* #

POACEAE

Agrostis stolonifera \*

redtop

Avena fatua \*

oat grass

Bromus diandrus \*

ripgut brome

Bromus mollis \*

soft chess

Bromus rubens \*

red brome

Cortaderia atacamensis \* #

pampas grass

Cynodon dactylon \*

bermuda grass

Digitaria sanguinalis \*

crabgrass

Lamarckia aurea \*

goldentop

Pennisetum setaceum \* »

fountain grass

Polypogon monspeliensis \*

rabbitsfoot grass

UNKNOWN FAMILY

Ajuga reptans atropurpurea \*

carpet bugle

Agapanthus africanus \*

lily of the Nile

Callistemon citrinus \*

red bottlebrush

Carrisa grandiflora \*

Natal plum

Dodonea viscoa \*

dodonea

Hakea suaveolens \*

needle bush

Leptospermum laevigatum \*

Australian tea

Meleleuca quinquerervia \*

meleleuca

Xylosma congestum

xylosma

### APPENDIX 3

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## APPENDIX 4

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ATTACHMENT 2  
ACCOMPLISHMENTS REPORT FOR FY 93  
CABRILLO NATIONAL MONUMENT

N02 CABR-MONITOR AND RESTORE TIDEPOOLS (N01): Continued with monitoring program in tidepool study area. Research conducted by Gary E. Davis and John M. Engle. Fourth year of a five year program. Technical reports produced. \$8,700.00 funded by cooperating association.

N16 CABR-IMPLEMENT A GIS (N-2): A Dell 486 with a 1.6 gigabyte HD, a 24" x 36" digitizing tablet, HP Paintjet, and Idrisi software were purchased. Using ArcInfo, USGS DEM, and Grass data files acquired elsewhere, data were converted by DSC, and CPSU, Tucson, Arizona into Idrisi. Basic training in the software was provided by Tucson, and by WRO GIS specialist to park operator. \$12,000 funded from park base.

N20 CABR-CONDUCT INVENTORY AND ASSESSMENT: FLORA COMMUNITY (N-3): CPSU Davis scientist Dr. Kathryn McEachern initiated an inventory and monitoring study of park terrestrial vegetation. Study started in 1993 continues into 1994. Study collection to be retained by UCSB. \$25,000 funded by WRO.

N03 CABR-IMPLEMENT VEGETATION MANAGEMENT PLAN (N-4): Using park resource management staff, a YCC crew and over 12 Eagle Scout project crews, the following was removed from the park: 40 eucalyptus; 300 acacia; 10 tons of ice plant. 200 native plants were purchased from local nursery and planted. 600 native plants were grown in park nursery and planted. \$35,000 funded from park base.

C12 CABR-MANAGE PEST SPECIES (N-6): Park employee was sent to Integrated Pest Management training in Savannah, Georgia. Upon completion, IPM request sheets were submitted for desired program and approved. Several non-toxic removal programs were conducted against yellow jackets and mice. Program works satisfactorily. \$2300 funded by park base.

N06 CABR-CONTROL EROSION AND REHABILITATE DAMAGED AREAS (N-7): Using erosion control matting and drip irrigation, 3 areas of at least 200 square feet were treated to control erosion. \$5,000 funded from park base.

N07 CABR-CONDUCT ECOLOGY AND VEGETATIVE HISTORY OF PARK (N-10): A study of vegetation history of the park was also funded by Dr. McEachern using a graduate student from SDSU. Using aerial photographs, historical records, and annual plant growth ring information, history will be constructed. Vegetative history started in 1993 continues into 1994. \$5,000 funded by WRO.

N03 CABR-USN - NPS POINT LOMA ECOLOGICAL RESERVE (N-13): The Point

Loma Ecological Reserve concept is proceeding. It is a multi-agency plan to protect 700 acres of sensitive coastal sage scrub found on the peninsula. Cabrillo N.M. owns 20% of the land. Other participants are four Navy installations. Cabrillo N.M. is targeted to become the land manager of the Reserve. Funded by \$60,000 USN monies.

N24 C24 CABR-INCREASE NATURAL AND CULTURAL MANAGEMENT STAFF (I-1): Position descriptions were written and approved by Regional for a GS-9 Resource Management Specialist, and a GS-5 Biological Technician in 1993. \$1,000 funded by park base.

C13 CABR-RESTORE LIGHTHOUSE HISTORIC SCENE (C-1): A Historic Landscape Analysis was completed in 1993. An Interpretive Prospectus (in 1991), and a GMP under way for the next few years will continue to further the lighthouse restoration.

C16 CABR-CARE FOR PARK MUSEUM COLLECTION (C-2): A GS-5 park ranger position description remains at 30% collateral duty museum curation. Full-time position not yet realized. \$5,000 funded by park base.

C15 CABR-STUDY NEED FOR ENVIRONMENTAL CONTROLS, LIGHTHOUSE (C-4): Hydrothermograph readings for calendar year 1992 were graphed to show fluctuations in humidity and temperature. A light meter was used to determine UV levels. Accomplished by volunteer.

C12 CABR-REVIEW AND REVISE SCOPE OF COLLECTION STATEMENT (C-7): Scope of collection was written and submitted for regional review by park staff in 1993. \$1,000 funded by park base.

ATTACHMENT 3  
FY 94 NATURAL RESOURCE PROJECTS  
CABRILLO NATIONAL MONUMENT

C13 CABR-RESTORE LIGHTHOUSE HISTORIC SCENE (C-1): Continue developing GMP through 1994 and identify restoration of the historic scene at the Old Point Loma Lighthouse as proposed alternative. Park base \$4,000; WRO funding \$40,000.

C16 CABR-CARE FOR PARK MUSEUM COLLECTION (C-2): A GS-5 park ranger will devote 30% of time as collateral duty in museum curation. Full-time position not yet realized. \$5,000 funded by park base.

C20 CABR-IMPROVE SECURITY OF MUSEUM COLLECTION (C-6): Honeywell started installation in late 1993, which continues until now (March, 94), of a fire and intrusion alarm system in the lighthouse, museum storage, administration building, and visitor center. Installation will be complete in another month. Funded by \$25,000 regional repair/rehab funds.

C12 CABR-PROVIDE STABILIZATION TREATMENT FOR BASE END STATION (C-13): A WW I base end station, 50 feet off of NPS property will be given basic preservation treatment contingent on DOD Legacy funding which has not yet been received. \$2,000 in Legacy funding.

N24 C24 CABR-INCREASE NATURAL AND CULTURAL MANAGEMENT STAFF (I-1): Position descriptions written and approved in 1993. Recruitment for GS-5 Biological Technician started. Position will be funded by park base, \$12,000. GS-9 Resource Management Specialist funding has been requested through Legacy funding, which has not been determined at this time, \$35,000 per year for 5 years.

N02 CABR-MONITOR AND RESTORE TIDEPOOLS (N-1): Continued with monitoring program in tidepool study area. Research conducted by Gary E. Davis and John M. Engle. Fifth year of a five year program. Technical reports produced. \$8,700 funded by cooperating association.

N16 CABR-IMPLEMENT A GIS (N-2): Park purchased hardware and software in 1993. 1994 will see more training and a large amount of data that the Navy has produced in ArcInfo format. After this is obtained by the park, it will be converted into Idrisi. \$7,000 regional base funding.

N20 CABR-CONDUCT INVENTORY AND ASSESSMENT: FLORA COMMUNITY (N-3): The flora study by Dr. McEachern will continue into 1994 to capture plants that occur seasonally. The monitoring plots will be established. Funded by region in 1993.

N03 CABR-IMPLEMENT VEGETATION MANAGEMENT PLAN (N-4): The work will continue in the park removing eucalyptus and ice plant. If Legacy funding is obtained, work will continue into the Point Loma

Ecological Reserve, outside park boundaries. \$35,000 DOD Legacy funding has been requested. \$35,000 park base for a YCC crew, resource management staff, and Eagle Scout projects.

C12 CABR-MANAGE PEST SPECIES (N-6): IPM request sheets will be submitted for desired programs. Several non-toxic removal programs will be conducted against yellow jackets and mice. Program works satisfactorily. \$1,300 funded by park base.

N06 CABR-CONTROL EROSION AND REHABILITATE DAMAGED AREAS (N-7): Using erosion control matting, and drip irrigation, several areas will be treated to control erosion. \$5,000 funded from park base.

N07 CABR-CONDUCT ECOLOGY AND VEGETATIVE HISTORY OF PARK (N-10): A study of vegetation history of the park funded by Dr. McEachern using a graduate student from SDSU continues into 1994. Using aerial photographs, historical records, and annual plant growth ring information, history will be reconstructed. \$5,000 funded by WRO.

N11 CABR-MONITOR MARINE WATER QUALITY (N-12): Using existing marine water monitoring program information, develop information regarding the quality, condition and trends affecting marine intertidal area, possibly relating this data to degradation of the tidepools. We have received initial word that \$32,000 in DOD Legacy funding will be provided.

N06 CABR-PARTICIPATE IN THE POINT LOMA ECOLOGICAL RESERVE (N-13): A memorandum of understanding for all participating agencies is being drafted for signature. A Biological Survey and Inventory has been written by a \$60,000 Navy contract. The Navy proposes that NPS/Cabrillo National Monument manage the Reserve. \$35,000 in funding from DOD Legacy program has been requested.

N03 CABR-PREPARE INVENTORY AND MONITORING PLAN (N-16): The park's Inventory and Monitoring Plan was prepared and submitted for review in March, 1994. \$10,000, park base funded.

## Cabrillo National Monument

**SUMMARY CHART FOR ARCHEOLOGICAL SITES**

| Significance     |    | Condition |      |      |           |         | Impacts |          |     |         | Documentation |      |      |
|------------------|----|-----------|------|------|-----------|---------|---------|----------|-----|---------|---------------|------|------|
|                  |    | Good      | Fair | Poor | Destroyed | Unknown | Severe  | Moderate | Low | Unknown | Good          | Fair | Poor |
| National         |    |           |      |      |           |         |         |          |     |         |               |      |      |
| State & Regional |    |           |      |      |           |         |         |          |     |         |               |      |      |
| Local            |    |           |      |      |           |         |         |          |     |         |               |      |      |
| Not Evaluated    | 10 |           |      |      |           | 10      |         |          | 10  |         |               |      | 10   |
| <b>TOTALS</b>    | 10 |           |      |      |           | 10      |         |          | 10  |         |               |      | 10   |

## Cabrillo National Monument

**SUMMARY CHART FOR STRUCTURES**

| Significance     |    | Condition |      |      |         | Impacts |          |     |         | Documentation |      |      |
|------------------|----|-----------|------|------|---------|---------|----------|-----|---------|---------------|------|------|
|                  |    | Good      | Fair | Poor | Unknown | Severe  | Moderate | Low | Unknown | Good          | Fair | Poor |
| National         | 1  | 1         |      |      |         |         |          | 1   |         | 1             |      |      |
| State & Regional |    |           |      |      |         |         |          |     |         |               |      |      |
| Local            |    |           |      |      |         |         |          |     |         |               |      |      |
| Not Evaluated    | 21 |           | 21   |      |         |         |          | 21  |         |               | 21   |      |
| <b>TOTALS</b>    | 22 | 1         | 21   |      |         |         |          | 22  |         | 1             | 21   |      |

## SUMMARY CHART FOR OBJECTS

| <b>DOCUMENTATION</b><br><small>Form 10 25+ Submitted to National Catalog<br/>at Harper's Ferry</small> | Archeology | Ethnology | History | Archives | Biology | Paleontology | Geology | TOTALS |
|--------------------------------------------------------------------------------------------------------|------------|-----------|---------|----------|---------|--------------|---------|--------|
| Registration Data Only                                                                                 |            |           |         |          |         |              |         |        |
| Registration & Catalog Data                                                                            |            |           |         |          |         |              |         |        |
| Total Items Cataloged                                                                                  | 12         |           | 1140    | 50       |         |              |         | 1202   |
| Backlog to be Cataloged                                                                                |            |           | 100     |          |         |              |         | 100    |
| Total Collection Summary                                                                               | 12         |           | 1240    | 50       |         |              |         | 1302   |

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| <b>CONDITION</b><br><small>The percentage of collection in the following<br/>categories</small> | Archeology | Ethnology | History | Archives | Biology | Paleontology | Geology |
|-------------------------------------------------------------------------------------------------|------------|-----------|---------|----------|---------|--------------|---------|
| Excellent                                                                                       |            |           | 10      |          |         |              |         |
| Good                                                                                            | 6          |           | 630     | 50       |         |              |         |
| Fair                                                                                            | 6          |           | 500     |          |         |              |         |
| Poor                                                                                            |            |           |         |          |         |              |         |
| Unknown                                                                                         |            |           |         |          |         |              |         |

Cabrillo National Monument

# SUMMARY CHART FOR CULTURAL LANDSCAPES

| Significance     |   | Condition |      |      |         | Impacts |          |     |         | Documentation |      |      |
|------------------|---|-----------|------|------|---------|---------|----------|-----|---------|---------------|------|------|
|                  |   | Good      | Fair | Poor | Unknown | Severe  | Moderate | Low | Unknown | Good          | Fair | Poor |
| National         | 1 |           |      | 1    |         |         |          | 1   |         |               | 1    |      |
| State & Regional |   |           |      |      |         |         |          |     |         |               |      |      |
| Local            |   |           |      |      |         |         |          |     |         |               |      |      |
| Not Evaluated    |   |           |      |      |         |         |          |     |         |               |      |      |
| TOTALS           | 1 |           |      | 1    |         |         |          | 1   |         |               | 1    |      |