

or additional volunteer opportunities. nvolved in caring for its natural resources, call om 9-12. For additional nd click on Volunteer Program. The Friends of Glen anyon Park work every third Saturday of the month 584-8576. learn more about Glen Canyon, including getting 831-6328 or go to www.parks.sfgov.org Plant Society at www.cnps-yerbabuena.org, You can also check out the California details, call Jean Conner

Francisco, CA 94117 Areas and Volunteer Programs Lodge

San Francisco Recreation & Par



garter snake, Thamnophis sirtalis, take advantage of the alligator lizard, Gerrhonotus coeruleus, and the common contributes to erosion. Reptiles like the San Francisco and foliose lichens offer us another example of plant adapted species survive. The powdery dudleya, Dudleya -llaw vino; a challenging habitat for plant life; only well-

# **Formations** ດໄen Canyon's Fabulous Rock

of sediment were uplifted from the ocean floor by settled to the ocean floor as they died. These layers dordanisms called radiolaria, which from sediments made up of the shells of microscopic dramatic chert formations. These rock outcrops are Glen Canyon Park is well known for its steep slopes and

Scarce water supply and shallow soils make the rock

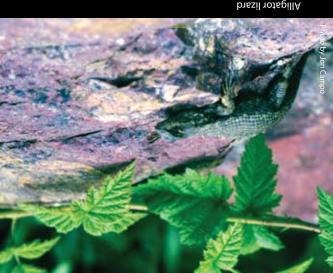


and Wildlife Service.

hunting in the grassland.



hills of San Francisco.



threatened or endangered species by the U.S. Fish

thriving grassland and coastal scrub communities,

Francisco peninsula may have looked before it was

settled extensively. Geologically, the rocky chert

variety of habitats in the park. The western slopes

native lupine species flourish in the eastern slope's

grassland community. Glen Canyon Park also hosts

a variety of animal life, from the Red-tailed Hawks,

Buteo jamaicensis, that soar above the rock outcrops

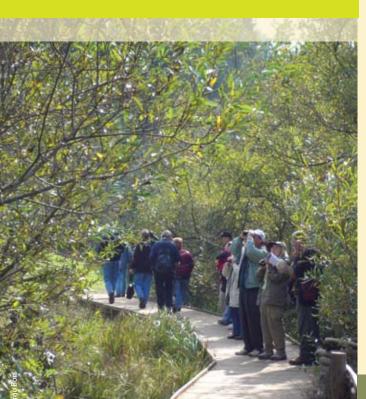
to the coyotes, Canis latrans, that have been sighted

of the park are home to eucalyptus trees, while

outcrops add another facet of diversity to the

Glen Canyon Park's steep slopes also support

which suggest how much of the northern San



**San Francisco** 

Glen Canyon Park

## NATURE'S BOUNTY: A Rich Diversity of Wildlife

Two hundred and fifty years ago, many fresh-water creeks wove through the peninsula, eventually feeding into the Bay and the Pacific Ocean. Today only six above-ground creeks remain in the city, and one of them is Islais Creek in Glen Canyon Park. The creek is named for the Ohlone word "islay," meaning cherry, and refers to the wild cherry trees that grow in the park and throughout the creek's watershed. Although urban development has greatly altered the creek's natural flow, its year-round water and surrounding vegetation continue to function as an important habitat area for animals, including coyotes, resident and migratory birds, and insects.

The creek is also potential habitat for the San Francisco forktail damselfly, Ischnura gemina. This native arthropod is a candidate for classification as a

The Great-horned Owl , Bubo

The coyote brush, Baccharis pilularis, is another unique member of the coastal scrub community. This native bush provides shelter for birds and other small animals and food for insects, but it does not rely on animals for pollination or seed dispersal. The coyote brush parts occur on separate plants, a relatively uncommon condition in the plant kingdom. This separation of the sexes on to different plants prohibits self-fertilization in the species. Wind carries pollen from the male plant to be seen in the fall.



Naturalists enjoying Glen Canyon's boardwalk.

Glen Park is one of the city's 31 significant natural resources areas managed by the San Francisco Recreation and Park Department. In addition to its outstanding views, the park boasts some of the city's largest and most accessible rock outcrops. The park also encompasses Islais Creek, one of four remaining free-flowing creeks in the city. Islais Creek supports a diverse streamside community of thriving willow trees and prehistoric horsetail, and serves as an important resting place for migratory birds. Each year, birds traveling from as far away as Alaska and Tierra del Fuego in Chile depend on Islais Creek as a stopping point as they cross the Golden Gate.



virginianus is more often heard than seen. This widespread owl inhabits Glen Canyon's mature woodlands. By day Great-horned Owls try to stay hidden, usually roosting high up in large trees and using their brown tones to camouflage with bark. By night this large owl

flies from perch to perch and can catch its food in pitch darkness. Favorite prey of Great-horned Owls in Glen Canyon include rodents, roosting birds and even skunks!

### Great Horned Owl

Glen Canyon is home to Islais Creek, one of six remaining above-ground creeks in San Francisco. These include Mission Creek which still flows into the Bay at China Basin, Grey Fox Creek in McLaren Park, and three in the



Presidio called Lobos, Dragonfly, and Tennessee Hollow Creeks. Water-loving plants such as willow trees and other deciduous trees and shrubs dominate this plant community, which also consists of currant, horsetail, seep monkey flower, and red columbine.

Columbine, Aquilegia Formosa



Over 250 species of insects are associated with coyote brush.



Glen Canyon Park is located off of O'Shaughnessy Boulevard and Elk Street

Park Size: 70 acres Natural Area Size: 60 acres





## **Red-Tailed Hawk**

This widespread and common raptor adapts well to new conditions and thrives in San Francisco. Gracefully soaring red-tails can be spotted hunting voles and gophers in parks,



## LAND USE HISTORY:

**Hunting Ground to Urban Oasis** 

People have enjoyed Glen Canyon for hundreds of years. Ohlone Indians hunted on the site, and in the late eighteenth century it became grazing land for Mission Dolores. During Mexican rule in the 1840s, the park site was part of Jose Noe's Rancho San Miguel, and in early American times it was a haven for smugglers and cattle rustlers who allegedly hid in Devil's Cave and Dead Man's Cave.

## or rats and pigeons anywhere in the city. Glen

Red-Tailed Hawk, Buteo jamaicensis

Canyon has some of the largest grasslands in San Francisco, making it home to field mice, birds, and even ground squirrels and snakes. Good hunting areas and large trees in the Canyon make it possible for several pairs of Red-tailed Hawks to nest in the area. As in all raptors, the female Red-tailed Hawk is one third larger than the male.

## **Red-Shouldered Hawk**

The striking orange tones, striped tail and white wing patches of a Red-shouldered Hawk are often the best way to separate it from the more familiar Red-tailed Hawk. The smaller and more local Red-shouldered Hawk is better adapted to hunt



within forests than its larger cousin and biggest competitor, the Red-tailed Hawk. The Redshouldered Hawk is often seen hunting from a power pole or low in tree and hunts for gophers, lizards and grasshoppers. This hawk has become significantly more common in San Francisco in the last 10 to 20 years. In the 1850s Adolph Sutro bought 1,200 acres of Rancho San Miguel, including Glen Canyon. In 1886, with the help of school children, Sutro planted pines, Monterey cypress, acacia and blue gum eucalyptus, species which still thrive in the park today.

Glen Canyon had already become the site of the first commercial dynamite manufacturing operation in the United States. Run by the Giant Powder Company, the plant began operating in 1868 but was completely destroyed in an explosion the next year. In 1889 Adolf Sutro's heirs sold the land to the Crocker Real Estate Company, which constructed an amusement park with an aviary, bowling alley, small zoo, and attractions such as a tightrope walk across the canyon and balloon ascents. The area was purchased by the City of San Francisco in 1922 for \$30,000. In 1941, O'Shaughnessy Boulevard was completed and

cut off the watershed on the west side of the park, further diminishing Islais Creek. Silver Tree Day Camp was established that same year. In the 1970s, a plan to widen O'Shaughnessy Boulevard and make it part of the freeway system was defeated by community opposition led by the "Gum Tree" ladies.



Volunteers working in Glen Canyon

Red-Shouldered Hawk, Buteo lineatus