



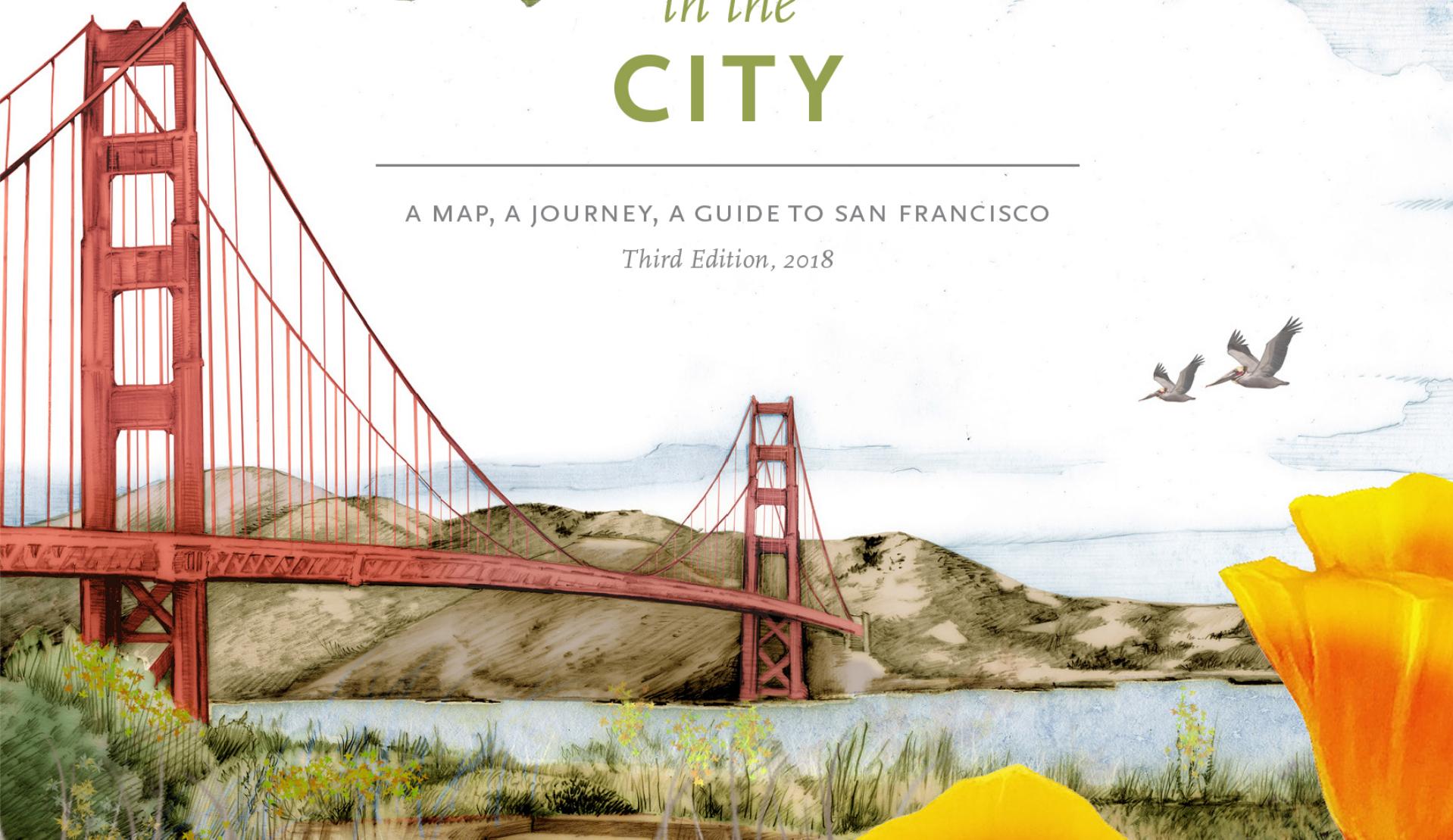
**Inspiring San Francisco to
discover local nature**

Laura Castellini, Nature in the City Advisory Council

Nature in the CITY

A MAP, A JOURNEY, A GUIDE TO SAN FRANCISCO

Third Edition, 2018

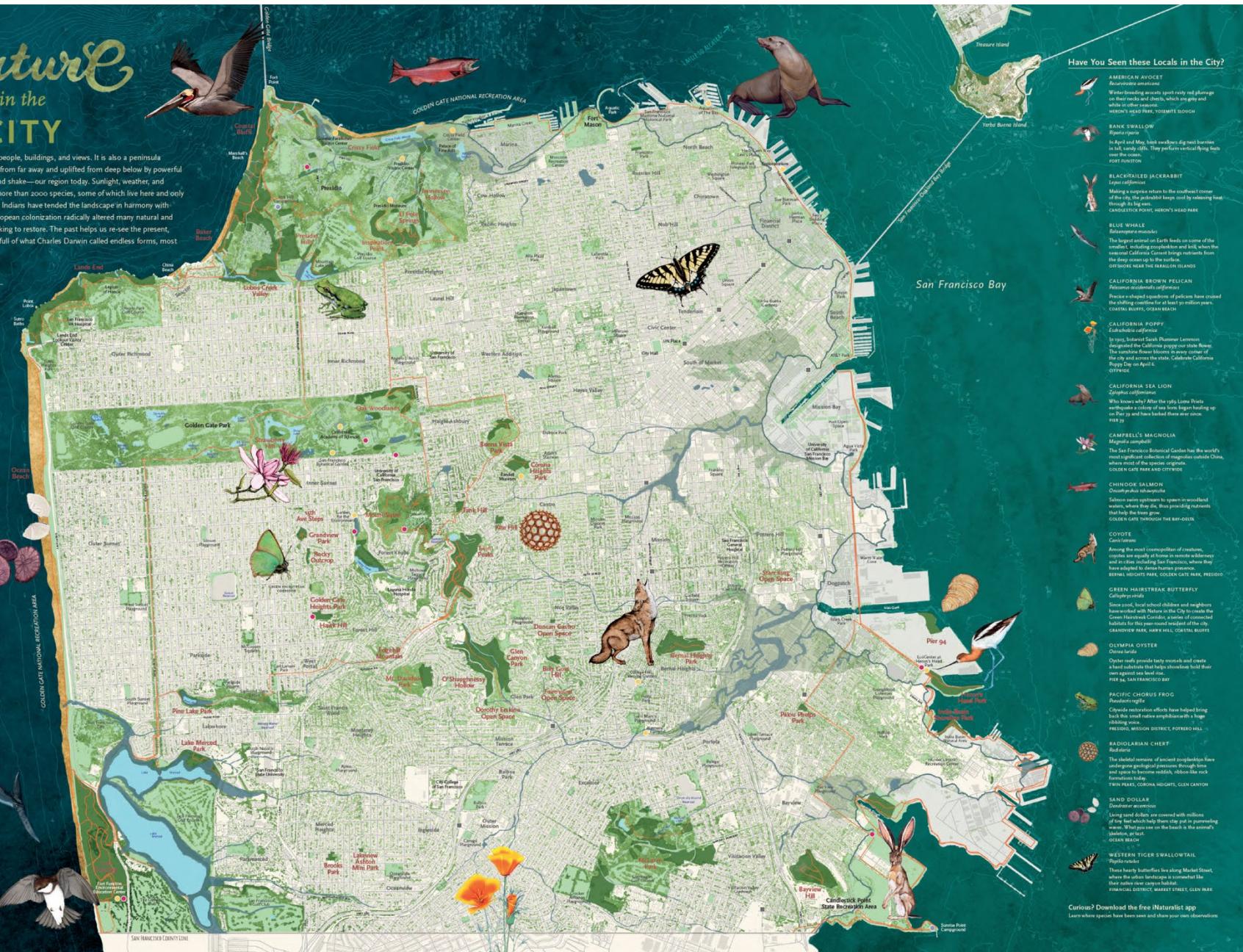


Nature in the CITY

What is San Francisco to you? The city is people, buildings, and views. It is also a peninsula made over millennia by rocks transported from far away and uplifted from deep below by powerful tectonic forces that continue to shape—and shake—our region today. Sunlight, weather, and geology create a biodiversity hotspot for more than 2000 species, some of which live here and only here. For countless generations, California Indians have tended the landscape in harmony with wild plants and animals. In the 1700s, European colonization radically altered many natural and cultural processes which today we are working to restore. The past helps us re-see the present, and move into a more harmonious future full of what Charles Darwin called endless forms, most beautiful.

EXPLORE AND DISCOVER

- NATURAL AREAS YOU CAN VISIT
- PARKS & OPEN PACES
- TREE COVER
- LAKES & WATERWAYS TODAY
- HISTORIC WETLANDS & WATERWAYS
- BEACHES
- NATIVE PLANT NURSERIES
- NATURE EDUCATION SITES
- CAMPGROUNDS
- BART & CALTRAIN
- HISTORIC SHORELINE
- SELECT TRAILS



Curious? Download the free iNaturalist app
Learn where species have been seen and share your own observations.

Shaping the City

Earthquakes rumble and the continents shift, bringing the rocks of yesterday to the trailsides of today. Ancient climatic cycles and volcanic grinding turn the rock into sedimentary rock, which then turns to sand to sustain native species and make our city unique. High hills of bedrock push up through sand. Below-ground basins have captured rains for millennia, storing it, and feeding creeks.

Laurel Hill, Twin Peaks

Long-term relationships between the landforms of time, ancient sea creatures that have sunk to the bottom of the ocean and been compressed into layered rock called chert. Serpentinite is a metamorphic rock to which plants like Franciscan manzanita are specially adapted. Wewetka have eaten cactus for thousands of years, and the root systems of native purple needlegrass extend deep into the soil, and some are hundreds of years old. California poppies give orange greetings to the day after year after year.



Resilient City

As the city has developed, we have treated the shoreline as a boundary rather than the vital connection it is between water and land. We have moved it, filled it in, and paved over its sponge-like ability to buffer storm surge, sea level rise, and big tidal events.

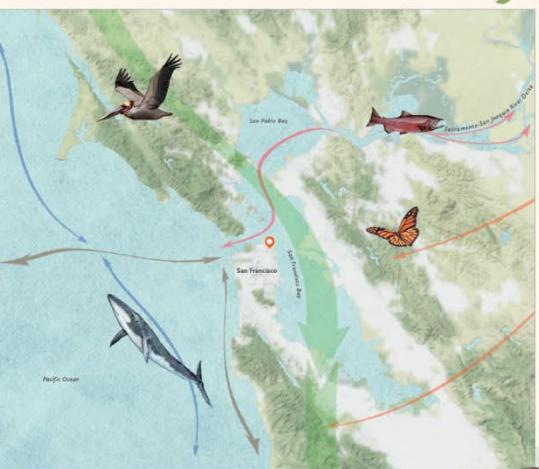
Habitat's Head

Back to the Future
San Francisco is a leader in ecological restoration, including thousands of miles of tidal wetlands. Olympia oysters and pikeminnow help restore healthy functioning that supports human systems coping with rapid change. We welcome back the American Avocet, and even the black-tailed jackrabbit. Once again, the coyote is part of the Pacific chorus frog—there are many Native Americans who have followed humans to the Bay Area. Our top predator along with the occasional mountain lion, coyotes help keep rodent populations in check.



Landscapes and Changing Shoreline

- Natural areas
- Tree cover
- Native plant nurseries
- Green Connections Plan
- Future shoreline/sea level rise



Seasonal Migration Routes

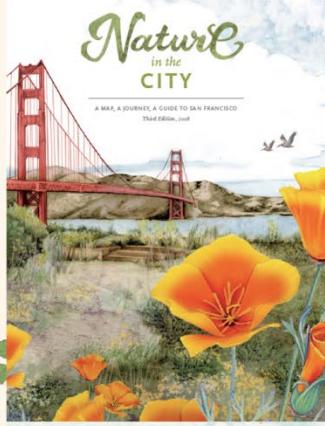
- Blue whale
- Whale sharks (summer/fall)
- Mexico and South America (winter/spring)
- California sea lion
- Monk seal (Alaskan Islands); breeding and birth (spring/summer)
- California coast (fall-winter)
- California condor
- Pacific salmon to Sacramento-San Joaquin River Delta watershed
- Monarch butterfly (western U.S.)
- Coyote (North America)
- California and western states (spring-summer)
- Pelican
- Gull (coastal areas and Channel Islands; summer/fall)
- Mexico (winter/spring)

Gardening the City

San Francisco is naturally a coastal scrub, grassland, and dune ecosystem, and nature guides our city first. For centuries, the Ohlone people made their homes, plowlands, and other strategies to support wild species. European Americans planted cities like Golden Gate Park, replacing native habitat, but some native species have adapted to introduced plants.

Stoneman Street

Cycles of Life
The acorn-burying Western Scrub-jay is responsible for planting acorns all over the iconic moist live oak trees. The burrowing eastern gray squirrel turns over the soil, replants seeds, and provides living space for other species. Introduced western magnolia thrive in our Mediterranean Climate. Community gardens and urban agriculture help restore habitat and meadow species, while green roofs, butterfly flights alongside commuters, finding unlikely habitat in planters and corner parks downtown. Community and rooftop gardens provide filling stations for bees, birds, and other species to help them on their way.



Many Stories, One City

This two-sided map offers five ways to see nature in San Francisco. The front presents a big picture of some species that have found a place to call home. Your map on the flip side explores ways we are learning to co-exist here. From the Bayshore to Ocean Beach, darting through traffic, alighting on flowers, digging into the earth, and flying overhead, an amazing abundance of creatures share their life journeys with ours.



Connecting the City

Natural connections play out over time, driven by seasonal, climatic, and geologic forces that result in California's unique species. The Bay is part of a regional circulation system, an estuary connecting the Pacific Ocean to the Delta made by the Sacramento and San Joaquin Rivers.

Pier 39

Here Comes the Sun
Summer sun currents help create fog and flat the marine food web. From the kelp to migrating blue whales, to fall, young Red-tailed Hawks make their first journey south across the Golden Gateway. Some California Brown Pelicans hang out here all winter, while others migrate. California sea lions give birth on the central coast, then come north to feed. Butterflies spend part of their life cycle in migration here. Chinook salmon fulfill their life's journey by swimming under the Golden Gate Bridge through fresh, brackish, and saltwater, completing the cycle at the heart of the Bay-Delta.



Find Your Nature in the City Everyday

Be curious and explore
Share your photos on Naturalist
Grow wildlife friendly plants
Volunteer at a local park

To learn more ways to engage, visit: www.natureinthebay.org/map

Acknowledgements

In the tradition of California Indians who have shaped San Francisco for thousands of years, we thank our grandparents, parents, and staff, and the people continue to teach us that stewardship is at the heart of our connection to nature.

Graphic Team	Map Team	Credit
Lock In Art, Graphic Designer	Geographic Information Systems	City of San Francisco, Parks and Recreation Department
Mike Elkin, Graphic Designer	Mike Hough, GIS Analyst, Writer	EPIC Foundation
Rebekah Johnson, Writer	Sean Schwenckwehr, Cartographer	EPIC Foundation
Erica Lomax, Writer	Barrie McCormick, Bill Brock, Alan Wang	EPIC Foundation
Tom Uwad Studio, Jane Kim, Artist	Dawnie Ruffo	EPIC Foundation
Lindsey Horng, Project Manager	EPIC Foundation	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
EPIC Foundation	Office of the Mayor, Michael Wiener, Michael Webster, Michael Wiener	EPIC Foundation
Lindsey Horng, Project Manager	Office of the Mayor, Michael Wiener, Michael Webster, Michael	



CALIFORNIA
ACADEMY OF
SCIENCES



SF Environment

Our home. Our city. Our planet.

A Department of the City and County of San Francisco

EJF Emanuel J. Friedman
PHILANTHROPIES

exploratorium®

San Francisco
Planning

INK DWELL



**Presidio
Trust**



San Francisco Public Library

Water & Reservoirs



Historic Water





Interdune freshwater pond in the Sunset District near present site of Sunset boulevard looking west in 1910c.

Image from original glass negative.

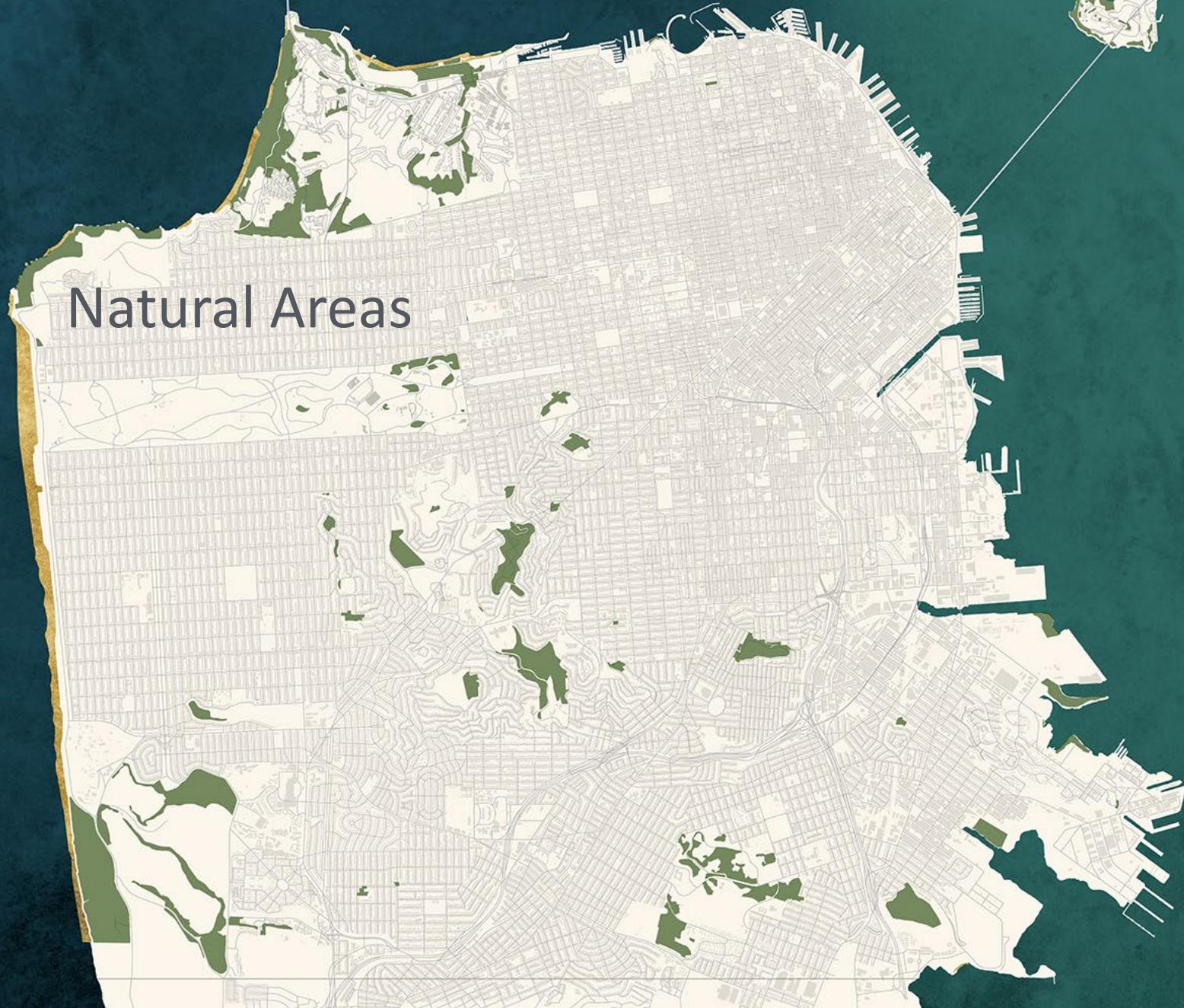
Willard Worden photograher.



Lake Merced looking west 1910c.
Image from original glass negative.
Willard Worden photographer.

Sea Level Rise



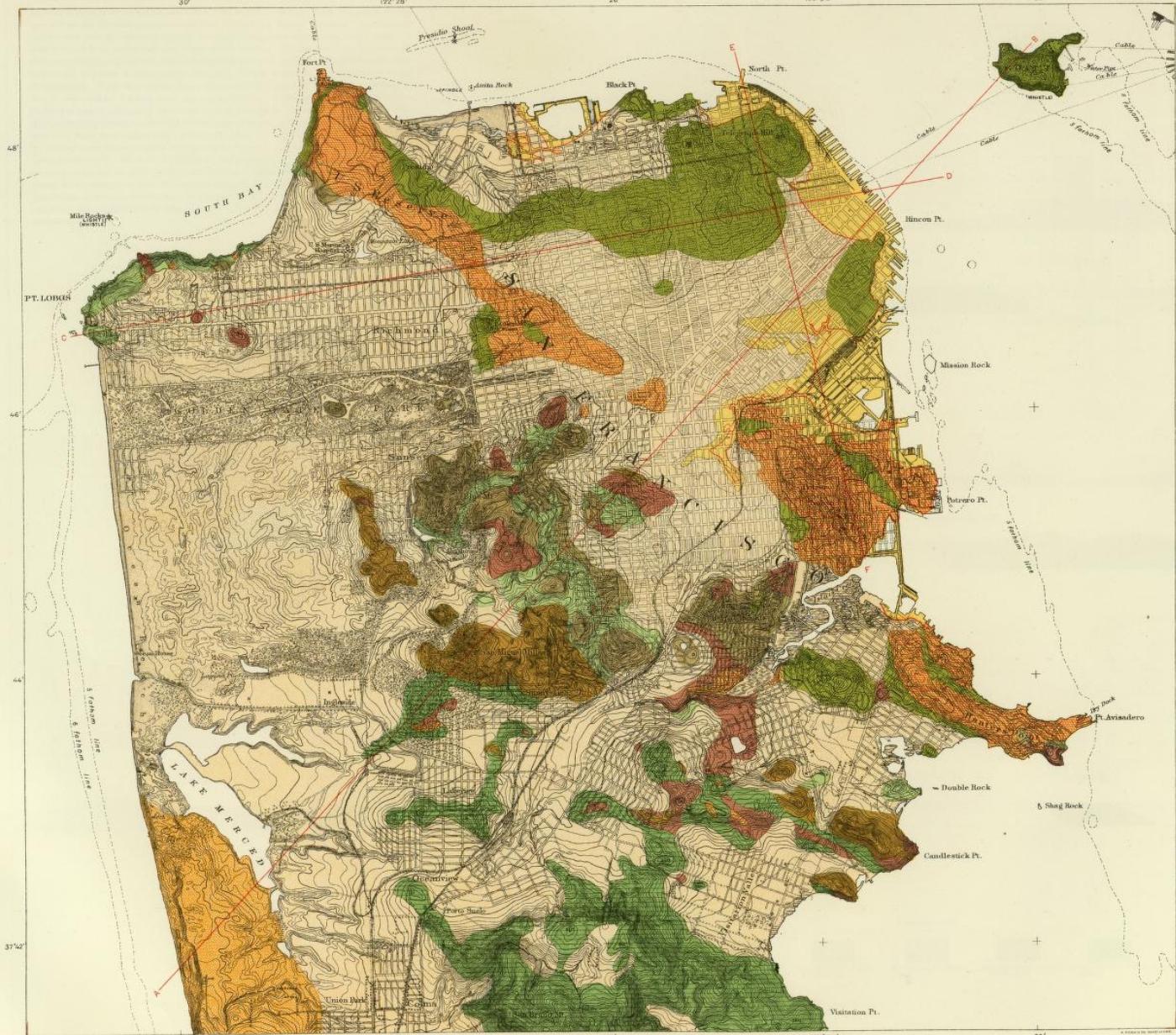


Natural Areas



Parks & Open Spaces





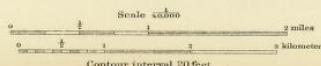
LEGEND

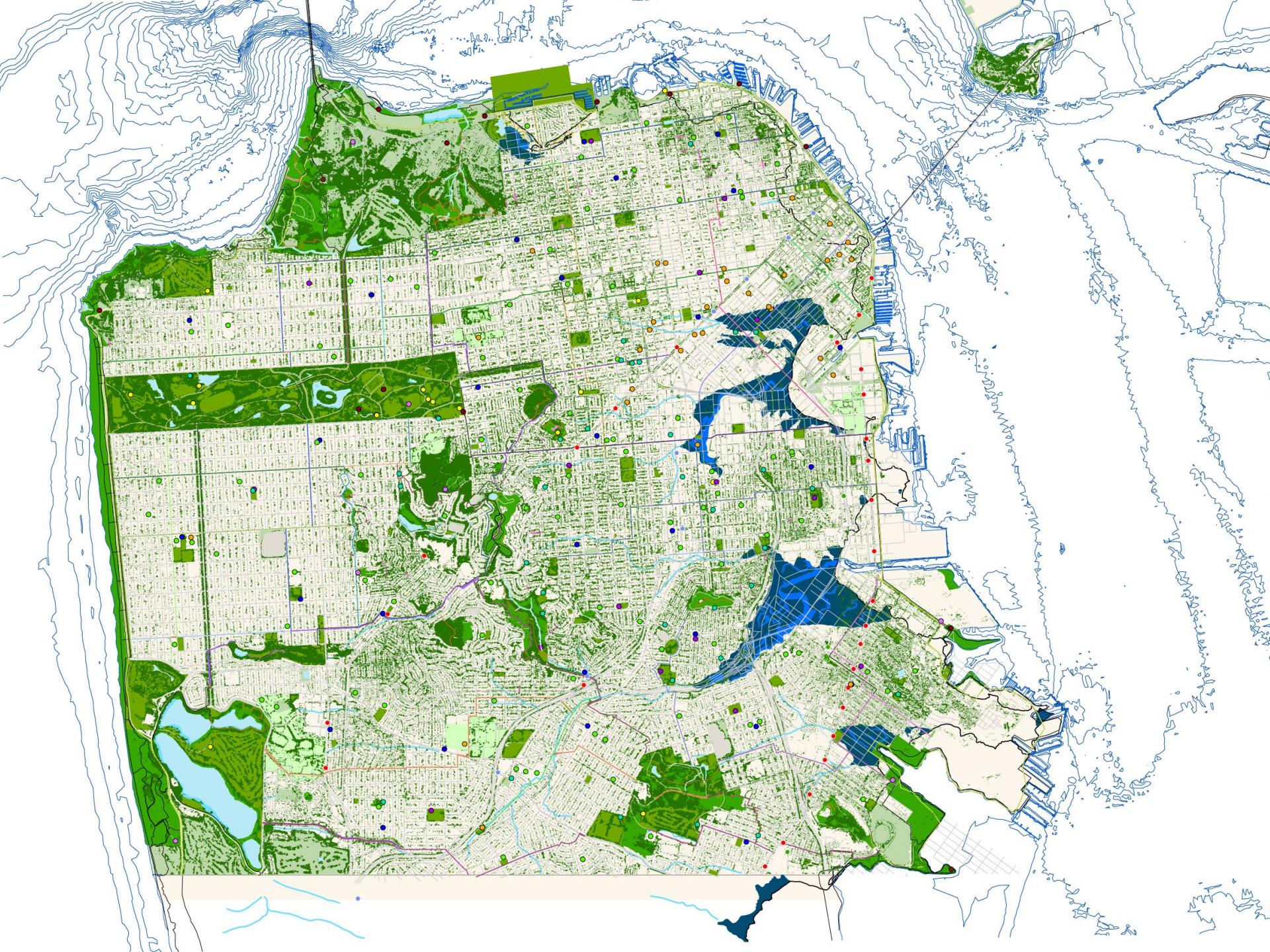
- Made land.
 - Pleistocene and Recent Marine and terrestrial sand and alluvium.
 - Pliocene-Miocene Series Sandstone, pebbly conglomerate, sandy gravel, and one thin shale bed.
 - Serpentinized peridotite intrusive in the Franciscan.
 - Spheroidal basalt and diabase chiefly intrusive in the Franciscan.
 - sandstone—bioturbated position not well determined—probably older than formations listed below.
 - Upper formation of red-tinted chert.
 - Middle formation of sandstones.
 - Lower formation of red-tinted chert.
 - Lower formation of sandstones.
- Original shore line of city.

GEOLOGICAL MAP OF THE CITY OF SAN FRANCISCO

BY ANDREW C. LAWSON

TO ACCOMPANY THE PAPER BY H. O. WOOD





Nature in the **CITY**

What is San Francisco to you? The city is people, buildings, and views. It is also a peninsula made over millennia by rocks transported from far away and uplifted from deep below by powerful tectonic forces that continue to shape—and shake—our region today. Sunlight, weather, and geology create a biodiversity hotspot for more than 2,000 species, some of which live here and only here. For countless generations, California Indians have tended the landscape in harmony with wild plants and animals. In the 1700s, European colonization radically altered many natural and cultural processes which today we are working to restore. The past helps us re-see the present, and move into a more harmonious future full of what Charles Darwin called endless forms, most beautiful: life.

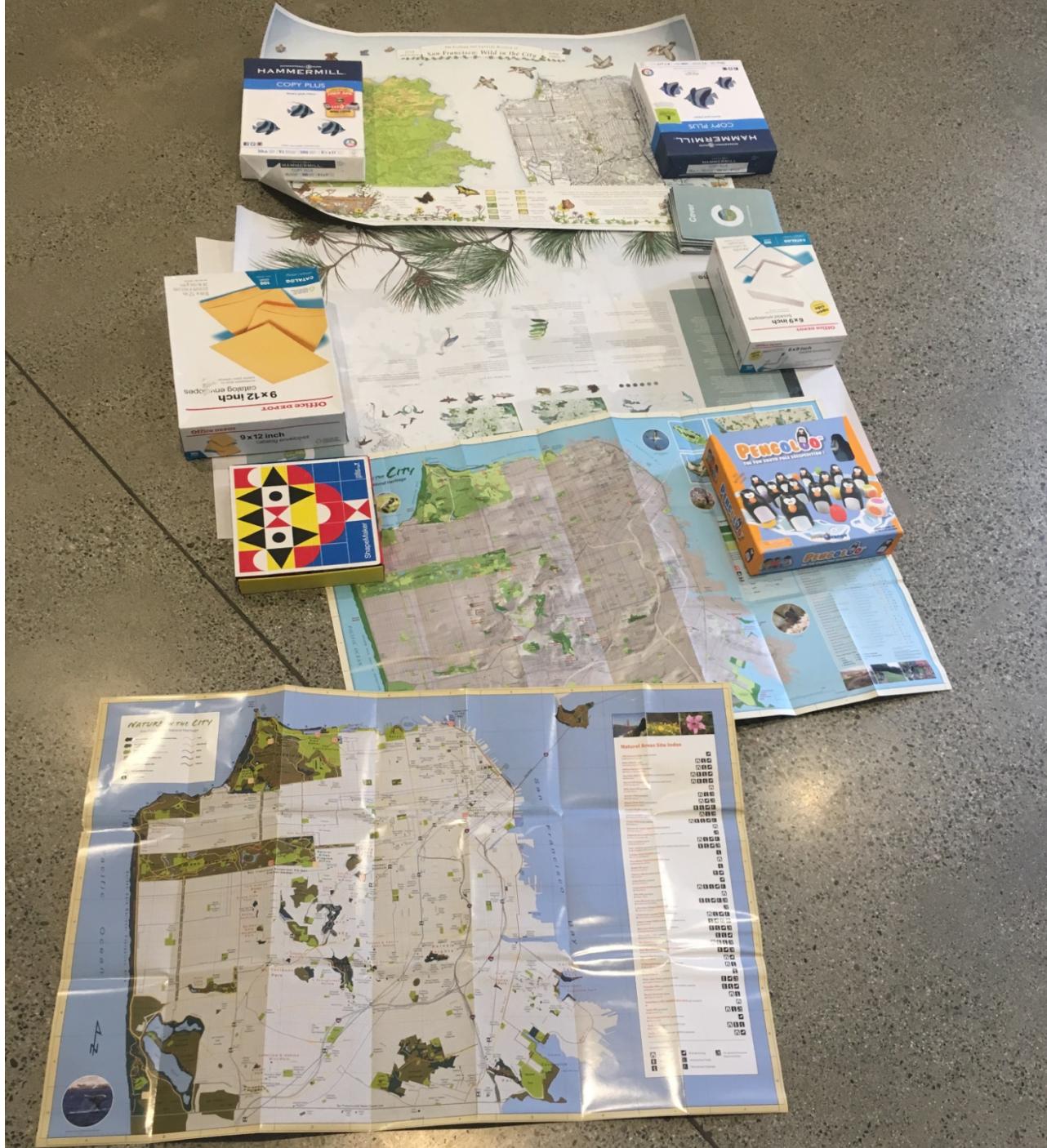
EXPLORE AND DISCOVER

-  NATURAL AREAS YOU CAN VISIT
 -  PARKS & OPEN SPACES
 -  TREE COVER
 -  LAKES & WATERWAYS TODAY
 -  HISTORIC WETLANDS & WATERWAYS
 -  BEACHES
 -  NATIVE PLANT NURSERIES
 -  NATURE EDUCATION SITES
 -  CAMPGROUNDS
 -  BART & CALTRAIN
 -  HISTORIC SHORELINE
 -  SELECT TRAILS



Curious? Download the free iNaturalist app
Learn where species have been seen and share your own observations.

Making the Map





Welcome

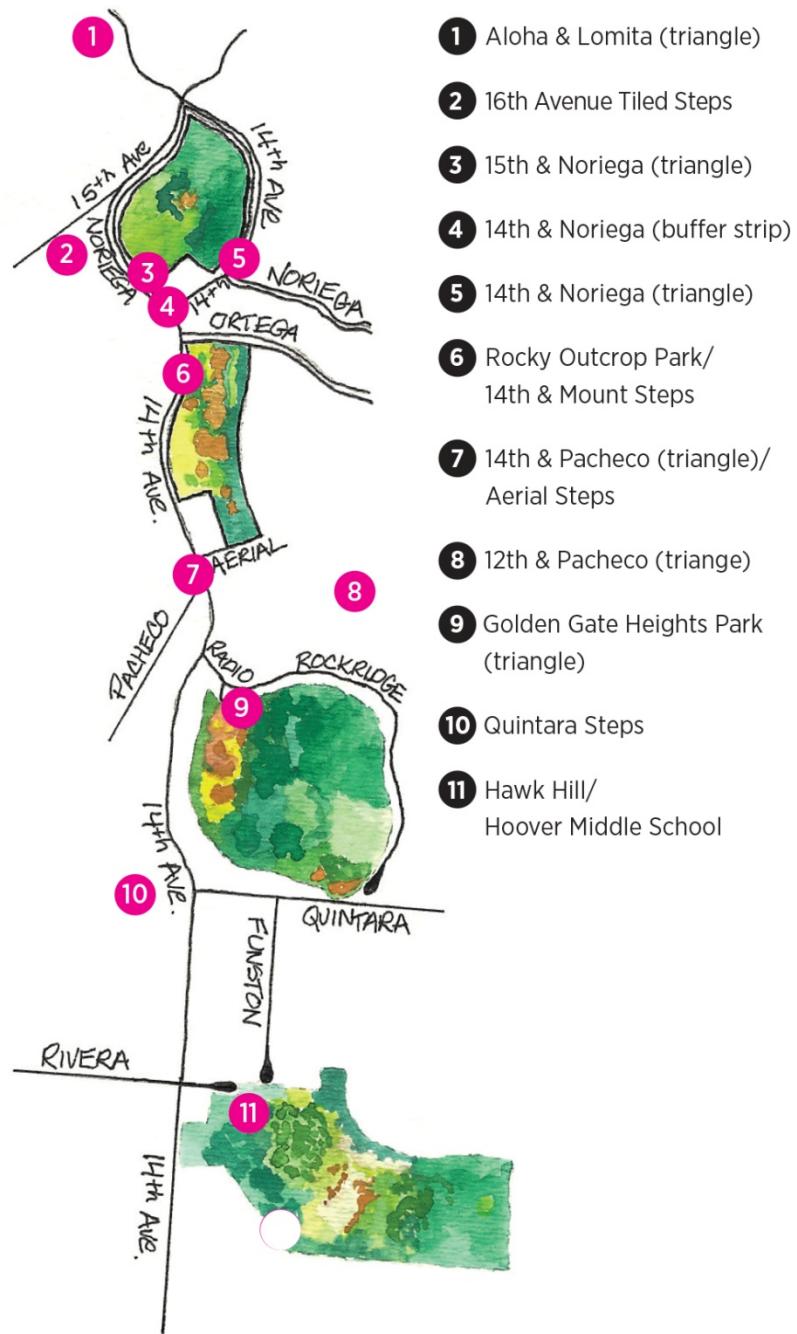
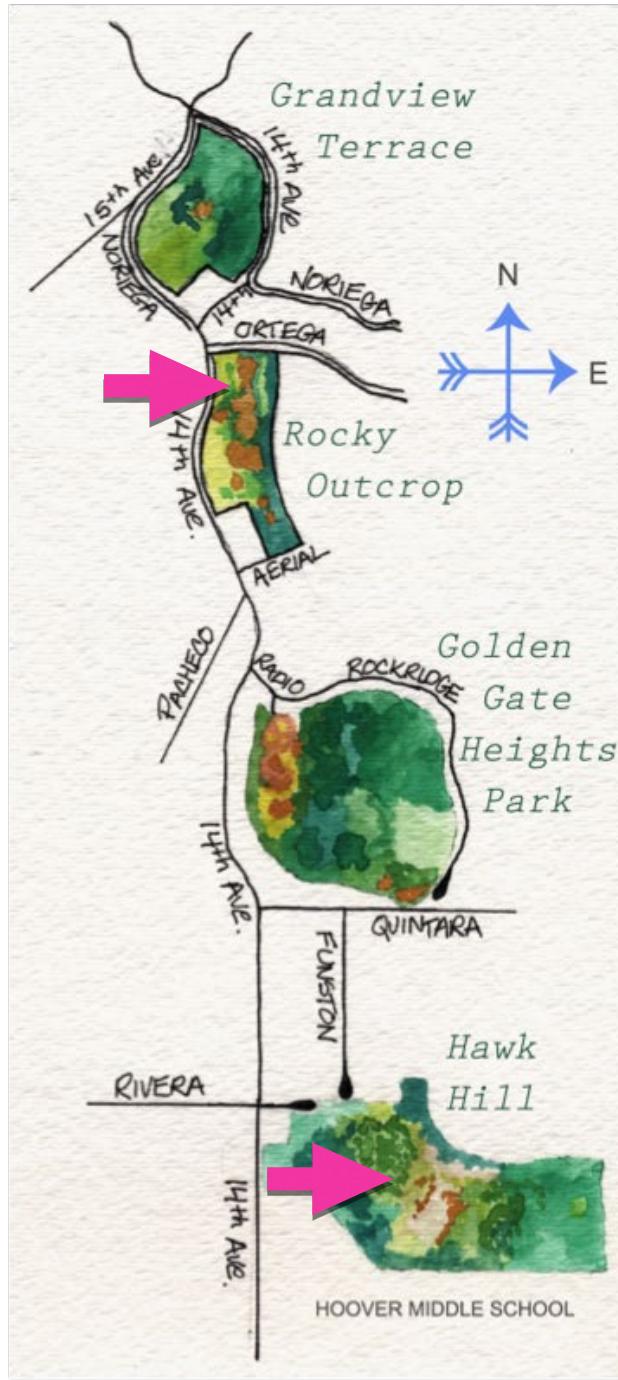






Green Hairstreak Corridor







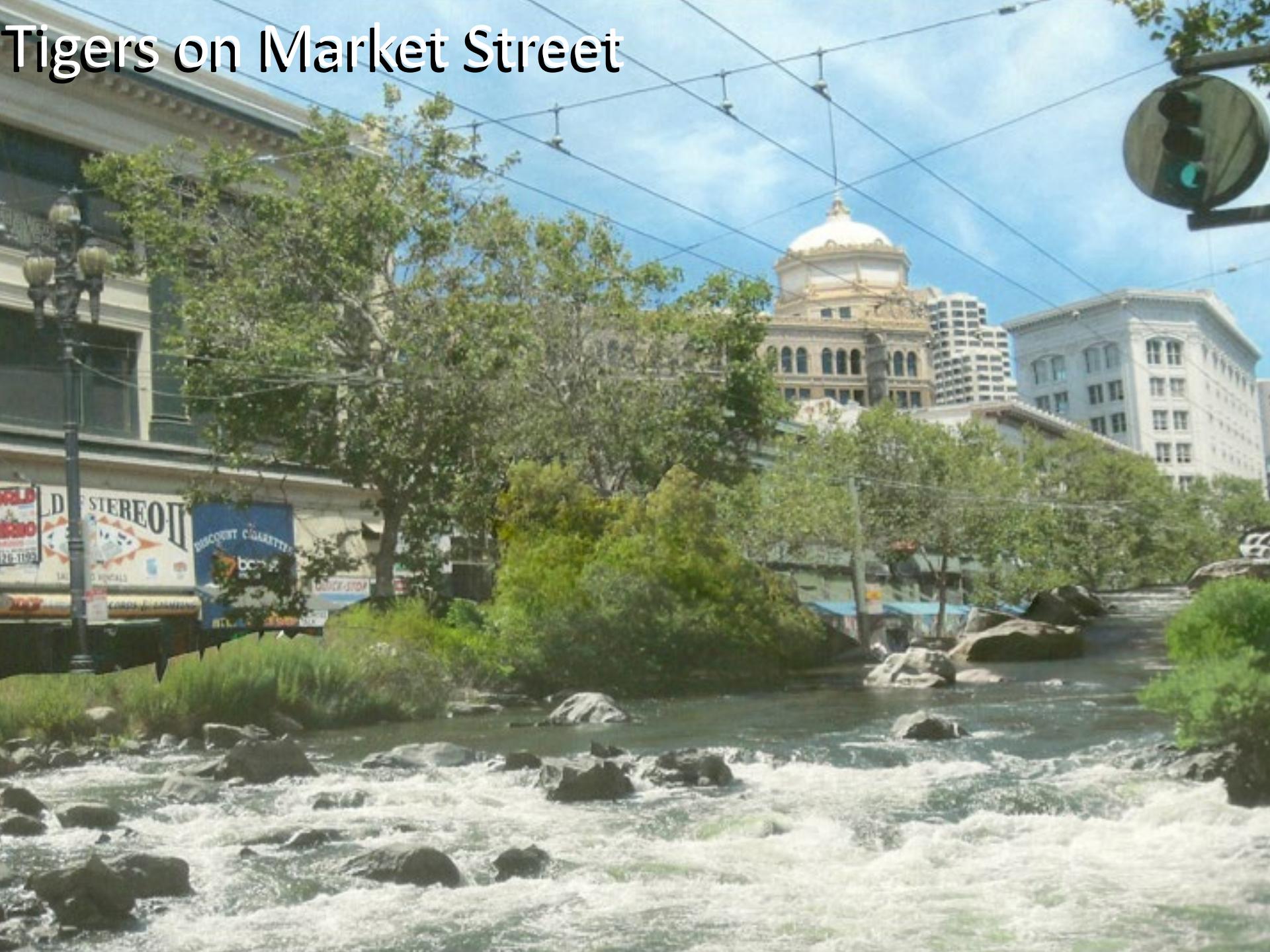




Precinto
Mural
Ente
Cruca



Tigers on Market Street







Adah's Stairway









Backyard Natives Nursery Network







Thank You!

Laura Castellini
Nature in the City Advisory Council
ljcsf@hotmail.com
Natureinthecity.org
[@natureinSF](https://twitter.com/natureinSF)