SS CAPE MOHICAN

SAN FRANCISCO DRYDOCK OIL SPILL

SPILL FACTS

When: October 28, 1996

Who: *SS Cape Mohican*, Maritime Administration
San Francisco Drydock, Inc.

Where: San Francisco Dry Dock, Pier 70

What: 96,000 gallons fuel oil spilled into dry dock
40,000 gallons spilled into water

Cause: Human error

10 30 '96

SPILL COVERAGE

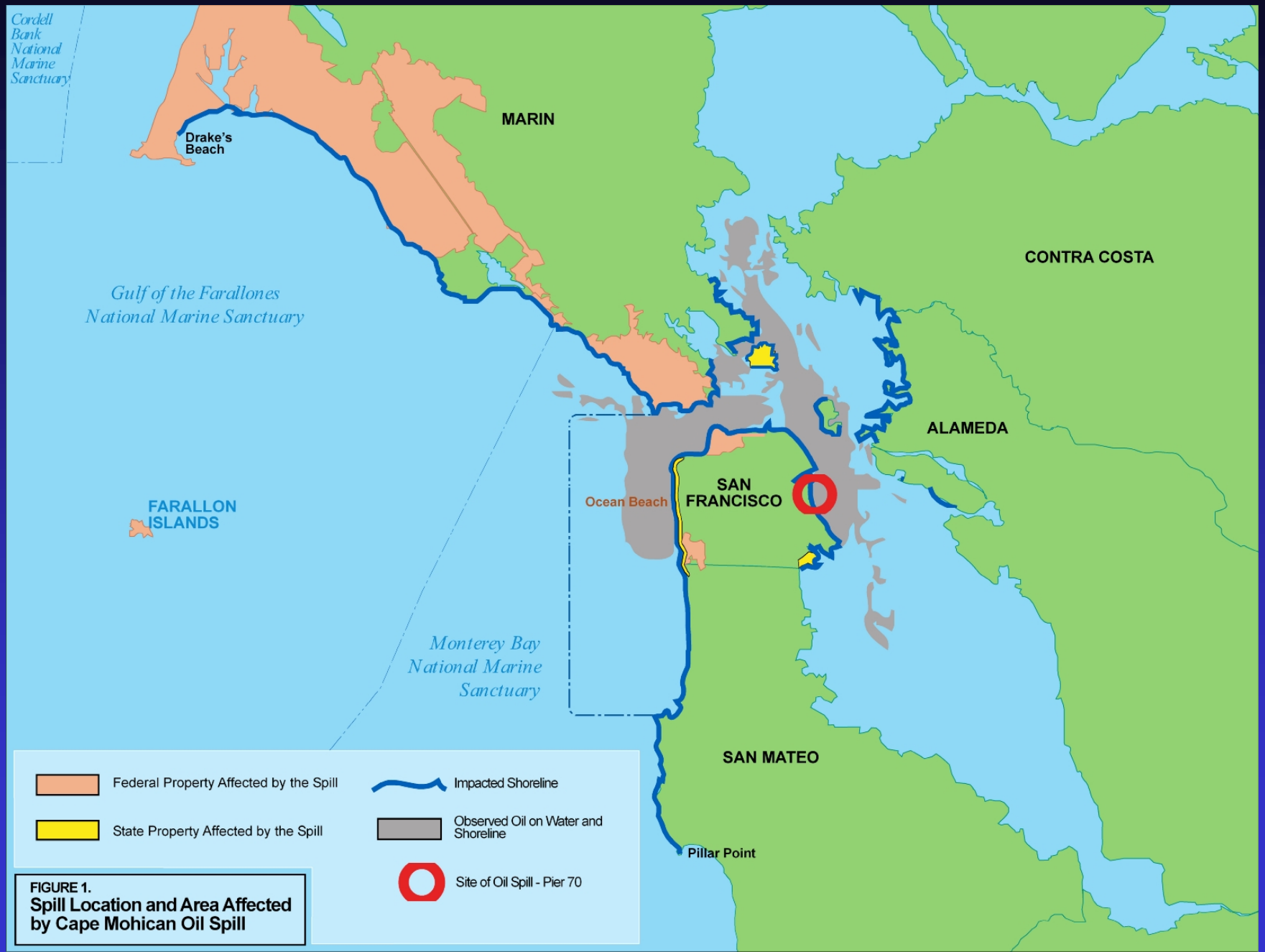


FIGURE 1.
Spill Location and Area Affected by Cape Mohican Oil Spill

GENERAL CATEGORIES OF IMPACT

- Habitat
- Wildlife
- Human Use

SUMMARY OF OILED HABITAT TYPES

	AREA (Acres)
Sandy Beaches	1,294
Rocky Intertidal	516
Mudflats / Wetlands	99
Piers / Pilings / Riprap	69
TOTAL	1,978

OILED SHORELINE HABITAT TYPES

Habitat Type: Sandy Beach

Habitat Type: Rocky Intertidal

Habitat Type: Rocky Intertidal

Habitat Type: Tidal Mudflats

Habitat Type: Tidal Wetlands

Habitat Type: Waterfront Pier Pilings

WILDLIFE IMPACTS

- Birds (approx. 4,000)

Gulls	Cormorants	Pelicans
Grebes	Shorebirds	Waterfowl
Loons	Alcids	

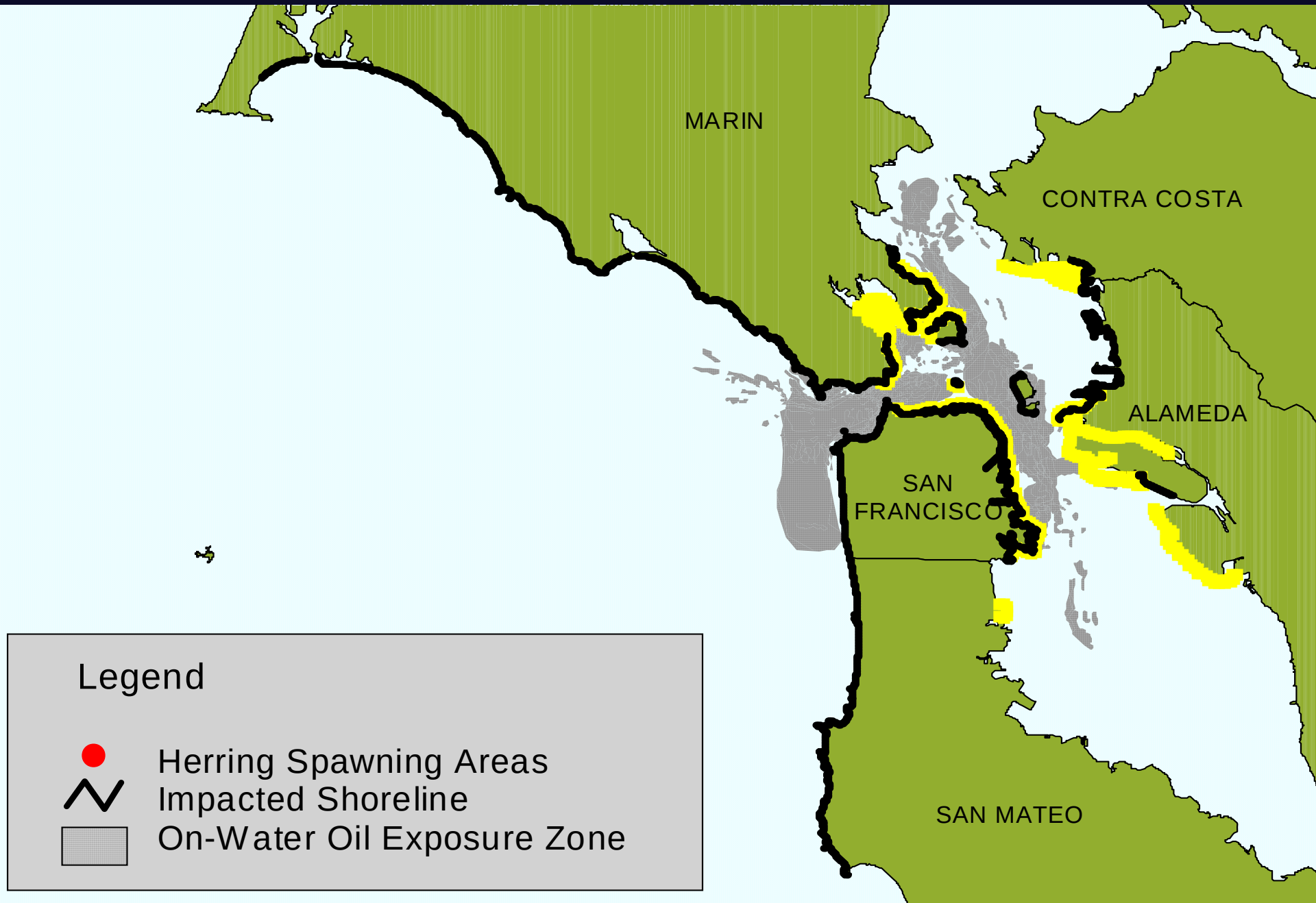
- Fish (Herring)
- Intertidal Plants and Animals

Phalarope

'96 11 3
Brown Pelican

Common Murre

HERRING SPAWNING AREAS



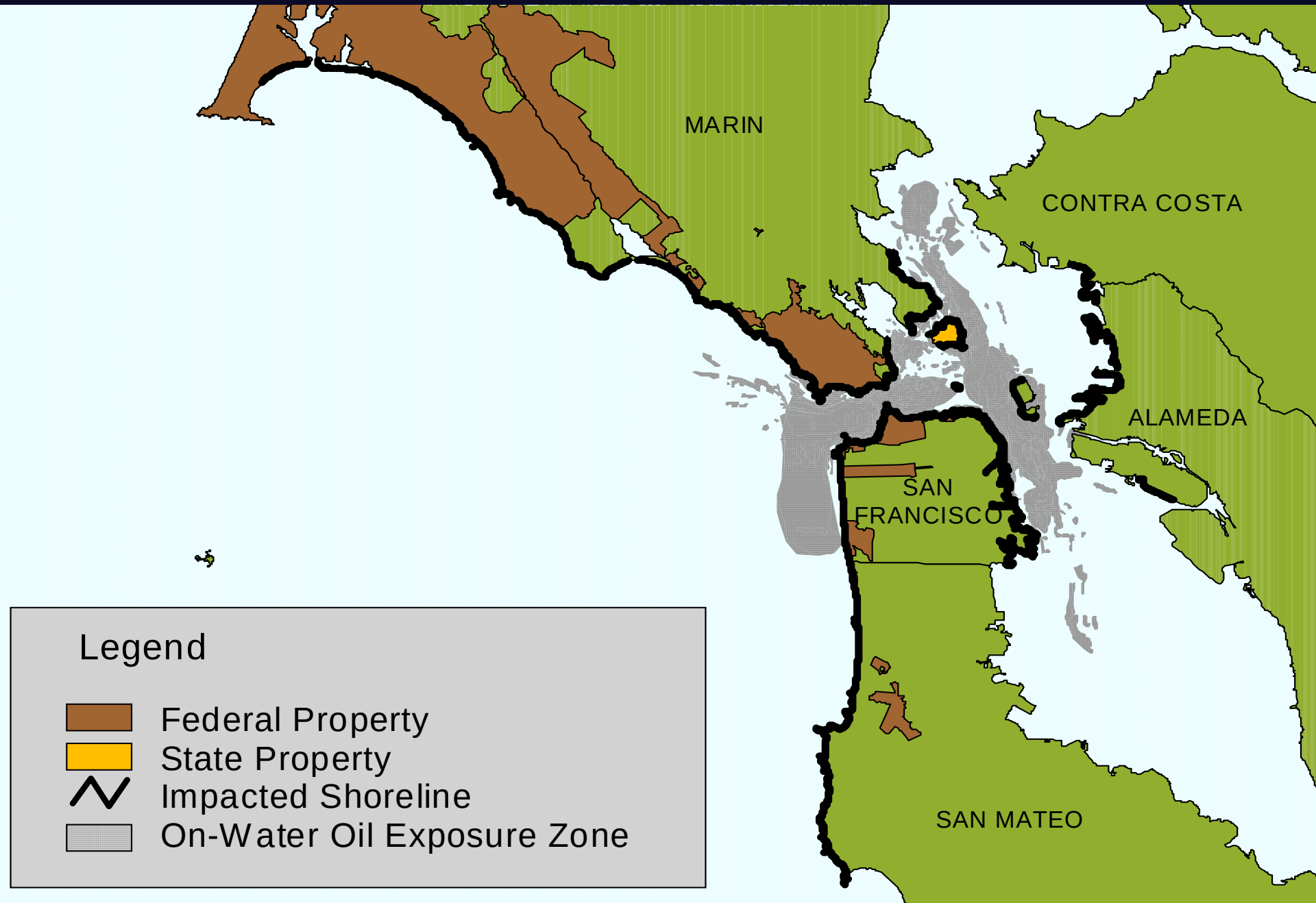
Spill-related Beach Closures

Pressure Washing at Angel Island

EXAMPLES OF PUBLIC USE AREAS AFFECTED BY THE SPILL

- Golden Gate National Recreation Area
- Point Reyes National Seashore
- Gulf of the Farallones National Marine Sanctuary
- Monterey Bay National Marine Sanctuary
- San Francisco Maritime National Historical Park
- Alcatraz Island
- Angel Island State Park
- Candlestick Point State Recreation Area
- Several Municipal Shorelines, Beaches, and Waterfronts

IMPACTED PUBLIC LANDS



EXAMPLES OF HUMAN USES AFFECTED BY THE SPILL

- General Beach Use
- Walking, Jogging, Riding
- Sightseeing
- Wildlife Viewing
- Surfing
- Sport Fishing
- Recreational Boating
- Educational Trips
- Swimming

Recreational Boating

Historic Ships Oiled

Cape Mohican /San Francisco Drydock Legal Context

- Primary Statutes
  - Clean Water Act
  - Oil Pollution Act
  - Park System Resources Protection Act
  - National Marine Sanctuaries Act
  - California Oil Spill Prevention and Response Act
  - California Fish and Game Code

Cape Mohican /San Francisco Drydock Legal Context

- Trustees/Plaintiffs
  - California Department of Fish and Game
  - California Department of Parks and Recreation
  - U.S. Department of the Interior
    - National Park Service
    - Fish and Wildlife Service
  - National Oceanic and Atmospheric Administration

Cape Mohican /San Francisco Drydock Legal Context

- Consent Decree
  - Approved by the Court on September 15, 1998
  - $3,445,000 to restore injured natural and national park system resources
  - $180,000 for State park areas and services
  - Provides for public input to Trustees in the development of a restoration plan
  - Requires funds be spent in accordance with law and with Memorandum of Understanding (MOU) signed by Trustees

Cape Mohican /San Francisco Drydock Legal Context

- Memorandum of Understanding
  - Allocates funds to following categories:
    - * Sandy/Rocky Beach Habitat - $500,000
    - * Wetland/Mudflat Habitat - $400,000
    - * Fisheries and Water Quality - $425,000
    - * Bird Restoration and Enhancement - $800,000
    - * Lost Human Use of National and State Parks - $1,030,000
    - * Restoration Planning, Implementation, and Oversight - $470,000

D R A F T

SS Cape Mohican Oil Spill Draft Restoration Plan and Environmental Assessment

Prepared by the *SS Cape Mohican* Trustee Council:

United States of America

State of California

THRESHOLD EVALUATION CRITERIA

Restoration Projects must:

- Be Technically Feasible
- Be Consistent with Restoration Goals
- Be Compliant with Laws
- Not Harm Public Health and Safety

ADDITIONAL EVALUATION CRITERIA

Restoration Projects should:

- Provide a close relationship to spill location, impacted natural resources and services
- Avoid further injuries
- Have a high likelihood of success
- Benefit multiple resources and services
- Provide timely benefits
- Provide protection and long-term duration of benefits
- Have potential collaborative funding
- Have high benefits relative to cost
- Have an accurate cost estimate
- Contribute to a comprehensive range of projects

PROPOSED RESTORATION PROJECT SITES

FIGURE 2.
Location of Proposed Restoration Projects

PROPOSED RESTORATION PROJECTS

Wetlands / Mudflats Habitat Category

- Giacomini Coastal Wetland Restoration
  $435,348
- Hamilton Wetlands Restoration
  $500,000

Sandy / Rocky Beach Habitat Category

- Sandy Beach Habitat Restoration at PRNS
  $303,214
- Protection of Duxbury Reef through Education
  $360,000

PROPOSED RESTORATION PROJECTS

Fisheries and Water Quality Category

- Herring Spawning Habitat Enhancement
  $456,596
- Wetland Restoration at Pier 98
  $146,920
- Steelhead Stream Habitat Enhancement
  $40,000
- Wetland Enhancement at Pier 94
  $400,300

PROPOSED RESTORATION PROJECTS

Bird Restoration Category

- Shorebird Habitat Protection at GGNRA
  $23,500
- Least Tern Habitat Enhancement
  $141,000
- Acquisition, Enhancement and Management of Red Rock
  $800,000
- Exotic Cordgrass Wetlands Eradication
  $246,000
- Farallon Island Seabird Restoration
  a) Exotic Vegetation Control $143,750
  b) Removal of Concrete Slabs $143,750
  c) Control of Exotic Mice $390,195
- Marin Islands Enhancement $86,350

PROPOSED RESTORATION PROJECTS

Lost Human Use Category

- Angel Island State Park Trail Enhancement
  $180,000
- Crissy Restoration and Public Access
  $850,000

NON-PREFERRED ALTERNATIVES

- Entry Triangle Marsh Wetland Restoration
- Bolinas Lagoon Wetland Restoration
- Tubbs Island Levee Setback
- Herring Stock Assessment
- Eelgrass Restoration in San Francisco Bay
- Creation of Artificial Herring Spawning Habitat
- Treasure Island Wetland Restoration
- Waterbird Conservation Project
- Big Lagoon Wetland Restoration Project
- Wetlands Walkway at Candlestick Point
- Tern Nesting Enhancement at Bair Island

Thank you for coming!