

## M.1 INTRODUCTION

A number of sensitive and unique marine and coastal habitats occur along Southern California coastal area that could be affected by a spill event. These areas are recognized with respect to their economic and cultural importance and their environmental sensitivity by governmental agencies. An inventory of sensitive environmental areas in the Santa Barbara Channel is provided in Figure M-1. The Channel Islands are over 15 miles from the facilities but are included because of their significance environmentally, economically, and culturally.

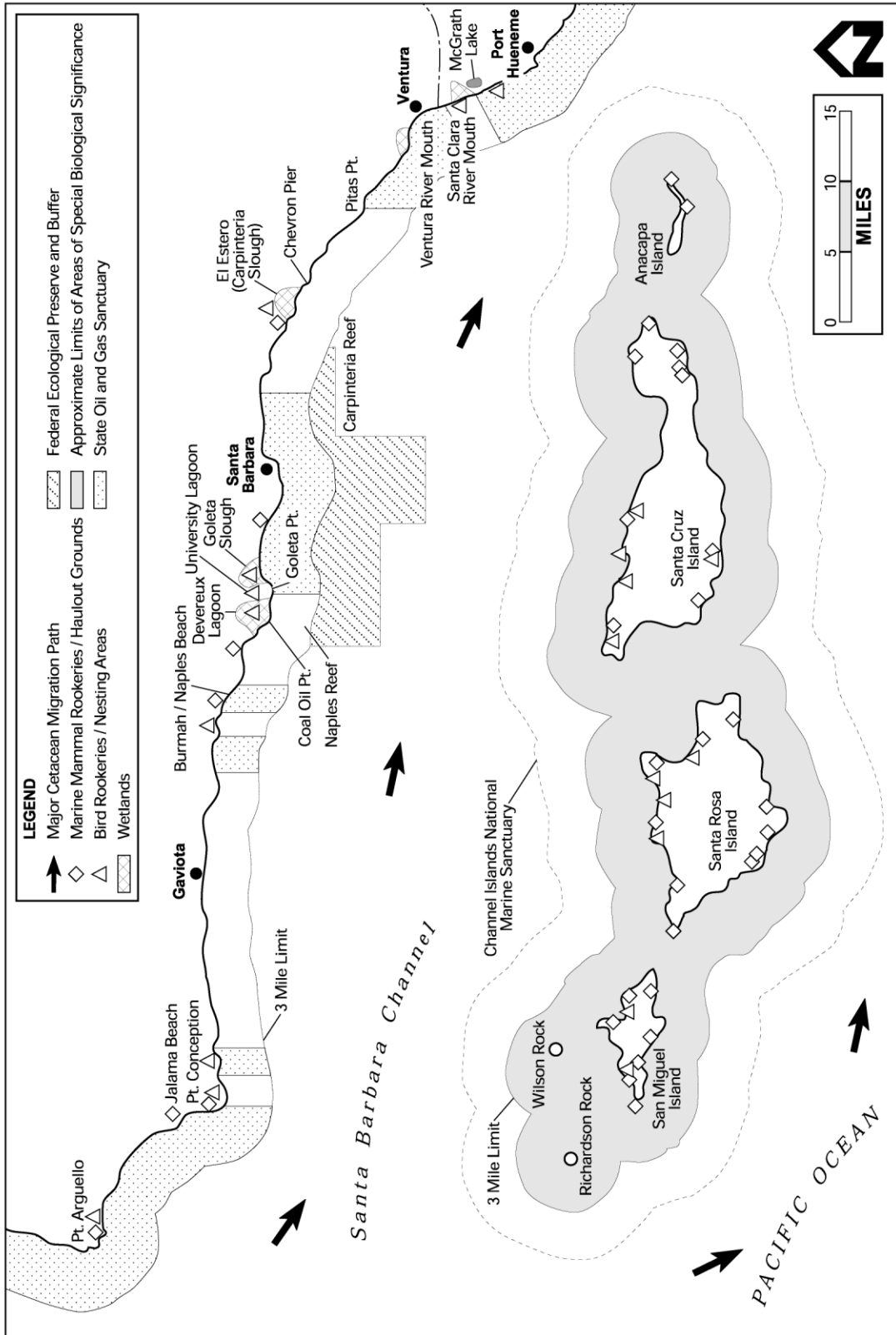
## M.2 ENVIRONMENTALLY SENSITIVE RESOURCES (ACP 2008: Sec 9812)

Environmentally sensitive resources include:

- Shoreline types and associated marine resources.
- Presence of migratory and resident marine birds.
- Mammal migration routes and breeding, nursery, stopover, haul-out, and population concentration areas by season.
- Presence of aquatic resources.
- Presence of natural terrestrial animals, and plant resources in marine and upland associated environments.
- Presence of state/federal-listed rare, threatened or endangered species.
- Commercial and recreational fisheries including aquaculture sites, kelp leases, and other harvest areas.

Sensitive resources are identified and mapped in Area Contingency Plan (ACP) for Los Angeles/Long Beach (Northern /Southern Sector).

Figure M-1. Sensitive Resources in the Santa Barbara Channel.



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Sensitive sites identified on ACP maps are provided below in Table M-1.

**Table M-1. Environmentally Sensitive Areas**

Site No.	Sensitive Site Name
4-567-A	Point Conception/Government Point
4-570-A	Damsite Canyon Creek
4-572-B	San Augustine Creek
4-575-A	Arroyo El Bolito
4-580-A	Canada De Santa Anita
4-585-A	Canada Del Alegria
4-590-A	Canada Del Agua Caliente
4-605-C	Canada Del Alcatraz and Cementario Creek
4-601-A	Gaviota Creek
4-610-A	Refugio Creek
4-615-A	El Capitan Creek
4-620-A	Las Llagas
4-625-B	Naples, Dos Pueblos Creek
4-630-C	Eagle Canyon Creek
4-635-A	Tecolote Creek
4-640-A	Bell Canyon Creek
4-645-A	Devereux Slough
4-650-C	Goleta Point and Campus Lagoon
4-652-C	Goleta Beach
4-655-A	Goleta Slough
4-657-B	More Mesa/Goleta Rocks
4-660-A	Arroyo Burro Creek
4-662-C	Leadbetter Beach
4-665-A	Santa Barbara Harbor and Leadbetter Beach
4-670-A	Mission Creek; Laguna Channel
4-672-A	Sycamore Creek and Andree Clark Bird Refuge
4-674-A	Fernald Point Area
4-675-C	Summerland Beach
4-677-C	Loon Point and Elyse Creek
4-680-A	Arroyo Paredon Creek & Sandyland Area
4-685-A	Carpinteria Salt Marsh
4-690-A	Carpinteria Creek and State Beach
4-695-B	"Wave" Area, NW of Rincon Point
4-701-B	Rincon Point
4-705-C	Los Sauces Creek
4-711-C	Madranio Canyon
4-717-C	Javon Canyon
4-723-C	Padre Juan Canyon
4-729-C	A-Lease Canyon
4-735-C	Amphitheater Canyon
4-740-A	Ventura River
4-743-A	San Buenaventura State Beach
4-747-A	Ventura Harbor
4-750-A	Santa Clara River Estuary
4-761-A	McGrath State Beach, McGrath Lake
4-765-A	Mandalay State Beach
4-769-A	Oxnard State Beach
4-775-A	Channel Islands Harbor
4-780-A	Port of Hueneme

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**Table M-1. Environmentally Sensitive Areas**

Site No.	Sensitive Site Name
4-783-A	Ormand Beach Wetlands and State Beach
4-787-A	Laguna Point
4-790-A	Mugu Lagoon
4-800-A	San Miguel Island, Pt. Bennett Area
4-803-A	San Miguel Island, Castle Rock Area
4-806-A	San Miguel Island, Easy Simonton Cove
4-809-A	San Miguel Island, Harris Pt. To Bat Rock
4-812-A	San Miguel Island, Cuyler Harbor, East Side
4-813-A	San Miguel Island, Prince Island
4-815-A	San Miguel Island, Bay Point Area
4-818-A	San Miguel Island, South Side
4-820-A	Santa Rosa Island, West End
4-824-A	Santa Rosa Island, North Central Area
4-829-A	Santa Rosa Island, NE End
4-834-A	Santa Rosa Island, Lagoon (east Side)
4-839-A	Santa Rosa Island, SE End
4-844-A	Santa Rosa Island, Ford Point Area
4-848-A	Santa Rosa Island, South Point Area
4-850-A	Santa Cruz Island, Posa Anchorage
4-852-A	Santa Cruz Island, Christi Ranch Area
4-855-A	Santa Cruz Island, NW Area
4-858-A	Santa Cruz Island, Prisoners Harbor
4-861-A	Santa Cruz Island, Water Harbor Area
4-864-A	Santa Cruz Island, NE End
4-867-A	Santa Cruz Island, Sandstone Pt. Area
4-870-A	Santa Cruz Island, Valley Anchorage Area
4-873-A	Santa Cruz Island, Bowen Pt. To Coches Prietos
4-876-A	Santa Cruz Island, Willows Anchorage
4-878-A	Santa Cruz Island, Punta Arena Area and Gull Island
4-880-A	Anacapa Island

Using OSPR maps, sensitive areas are mapped and prioritized (Codes A, B, and C) according to an environmental sensitivity ranking. A Site Summary Sheet is provided for each sensitive site and includes information on the site's:

- Location: U.S.G.S. quad, longitude and latitude, Thomas Guide.
- Site Description.
- Seasonal and special resource concerns.
- Resources of primary concern.
- Cultural, historical and archeological sensitivities
- Trustee Agency/Local Expert contacts.

A second sheet for each sensitive area, the Site Strategy Sheet, specifically addresses protection, containment, and cleanup strategies, including recommended techniques, equipment considerations, and access and logistics information.

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Resources of concern in the area of Venoco's facilities and pipelines are summarized in Table M-2.

**M.3 ECONOMIC AND CULTURAL RESOURCES (ACP 2008: Sec 9812, 9813, 9814)**

Economic and cultural resources include:

- Public beaches, parks, marinas, boat ramps, and diving areas.
- Industrial and drinking water intakes, power plants, salt pond intakes.
- Offshore oil and gas leases and associated drilling platforms.
- Historical/archaeological sites.
- Areas of cultural or economic significance to Native Americans.
- Major waterways and vessel traffic patterns that are likely to be impacted.

The ACP contains a discussion of economically significant areas in a similar fashion as addressed for environmentally sensitive areas in Section M.2. Priority ranking codes D, E, and F are used to signify lower priorities for protection. The economic resources that may be affected, along with the appropriate priority ranking code for each resource, are summarized in Table M-3.

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Table M-2. Inventory of Potentially Affected Natural Resources.

<b>INVENTORY OF POTENTIALLY AFFECTED NATURAL RESOURCES</b>	
<p><b>Marine Mammals</b> Harbor Seal (pupping off Carpinteria) California Sea Lion Northern Elephant Seal</p> <p><b>Seabirds</b> Brown Pelican (SE, FE) California Least Tern (SE, FE) Light Footed Clapper Rail (SE, FE) Belding's Savannah Sparrow (SE) Coastal California Gnatcatcher (FT) Western Snowy Plover (FT) Brandt's Cormorant Pelagic Cormorant Western Gull Pigeon Guillemot Red-necked Grebe Surf Scooter Black Skimmer Pacific Loon Red-throated Loon Common Loon Sandpipers Hérons</p> <p><b>Upland Birds</b> Northern Harrier (CSC) White-tailed Kite (SE) Golden Eagle (LC) Loggerhead Shrike (CSC) Coast Horned Lark (CSC) Lark Sparrow (LC) Grasshopper Sparrow (CSC) Yellow Warbler (CSC) Yellow Breasted Chat (CSC) Tricolored Blackbird (CSC)</p> <p><b>Fin Fish</b> Tidewater Goby (FE) Steelhead Trout (FE) California Grunion (during spawning) Surf Perch Halibut Northern Anchovy Corbina White Sea Bass Bonita Thresher Shark Yellowtail California Barracuda Jack Mackerel</p> <p><b>Coastal Upland Wildlife</b> Monarch Butterfly (CSC) California Red-legged frog (FE, SE) Badger (CSC)</p>	<p><b>Shellfish</b> Pismo Clam Abalone Spiny Lobster Crab Red Rock Shrimp</p> <p><b>Plants</b> Salt Marsh Bird's Beak (FE, SE) Spartina Eelgrass Pickleweed</p> <p><b>Upland Plants</b> Santa Barbara Honeysuckle</p> <p><b>Habitat/Reserves</b> Point Conception to Ellwood Naples Reef Burmah Beach Tecolote Creek Coal Oil Point Devereux Slough and Lagoon University Lagoon Goleta Rocks/Slouch/Point Offshore City of Santa Barbara El Estero Lagoon Allesandro Lagoon – Ventura River Mouth Santa Clara River Estuary Natural Preserve Mugu Lagoon Lagoons Wetlands Creek mouths Dunes</p> <p><b>Channel Islands</b> San Miguel Island Santa Rosa Island Santa Cruz Island Anacapa Island</p> <p><b>Key:</b> <i>SE: State Endangered,</i> <i>FE: Federal Endangered;</i> <i>FT: Federal Threatened,</i> <i>CSC:Species of special concern in California,</i> <i>LC:Local Concern,</i></p> <p><b>Sources:</b> <i>ACP;</i> <i>OSPR Guidance Documents;</i> <i>CDFG Natural Diversity Database;</i> <i>MRS Biological Resources Survey For The</i> <i>Proposed Venoco Ellwood Pipeline Route</i></p>

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Table M-3. Inventory of Potentially Affected Economic Resources.

<b>INVENTORY OF POTENTIALLY AFFECTED ECONOMIC RESOURCES</b>	
<p><b>Mariculture Areas – D<sup>1</sup></b>                      Port Hueneme Area – Stellar Biotechnologies                      Ormond Beach Area – C.I. Marine Resources Institute                      SB Harbor, Stearns Wharf – Eaglenet Sea Farms                      Santa Barbara – Henry’s Sea Ranch, AB Tec, Pacific Seafood, Sea Ventures Ent. Inc., South Coast Shellfish                      Ellwood – Goleta – Neushul Mariculture Inc.                      Goleta-Dos Pueblos Cultured Abalone                      Conception Bay-Abalone Co.</p> <p><b>Water Intakes</b>                      Edison Mandalay Bay                      Edison Ormond Beach                      City of Santa Barbara Sea Water Intake                      Marine Science Institute (UCSB) Sea Water System</p> <p><b>Parks – E<sup>1</sup></b>                      Gaviota State Park                      Refugio State Beach Park                      El Capitan State Beach Park                      Santa Barbara Shores Beach Access                      Isla Vista Beach                      Goleta Beach County Park                      Arroyo Burro Beach                      West Beach Santa Barbara                      Stearns Wharf                      Chase Palm Park                      East Beach / Butterfly Beach                      Hammonds Beach                      Eucalyptus Lane                      Miramar Beach                      Lookout County Park                      Loon Point                      Carpinteria City &amp; State Beaches                      Rincon Beach County Park                      Hobson County Park                      Rincon Parkway North (camping/picnicking)                      Faria County Park                      Rincon Parkway South (camping/picnicking)                      Emma K. Wood State Beach                      Ventura River Bicycle Path                      San Buenaventura State Beach                      Channel Islands National Park Headquarters                      McGrath State Beach                      Oxnard State Beach</p>	<p><b>Parks – E<sup>1</sup></b>                      Port Hueneme State Park                      Point Mugu State Park</p> <p><b>Marine Services &amp; Commercial Fishing – E<sup>1</sup></b>                      Santa Barbara Harbor                      Carpinteria Pier                      Ventura Harbor &amp; Village                      Ventura Yacht Club                      Ventura Isle and West Marinas                      Vintage Marina                      Channel Islands Harbor                      Anacapa Isle Marina                      Bahia Cabrillo Yacht Landing                      Channel Islands Commercial Fishing Marina                      Channel Islands Marina and Landing                      Channel Islands Small Boat Marina                      Cisco Sportfishing                      Pacific Corinthian Marina                      Peninsula Yacht Anchorage</p> <p><b>Tourist Areas – F<sup>1</sup></b>                      City of Santa Barbara                      Carpinteria                      Rincon Point (surfing)                      La Conchita Beach                      Mussel Shoals Beach                      Oil Piers Beach                      Solimar Beach                      Ventura Pier                      Oxnard Shores                      Hollywood Beach                      Silver Strand                      Ormond Beach</p> <p><b>Cultural Resources</b>                      None identified (a cultural resource specialist would advise the spill response team as necessary)</p>
<p><b>Sources:</b> ACP, OSPR Guidance Documents</p>	
<p><sup>1</sup> <b>Priority Rankings:</b></p> <p>D = Economic activities and resources which require high water quality for their operation or existence.</p> <p>E = Facilities, businesses, or resources which directly use coastal or bay waters within their economic activity and which are at risk of oiling from a spill in marine waters.</p> <p>F = Marine-associated facilities, businesses, and resources.</p>	

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This Plan does not attempt to identify the location of sites or areas of importance to Native Americans. Many coastal areas of significance to Native Americans are known or have been identified in the public literature; however, some are often confidential. Many confidential locations are held at regional Information Centers throughout the state and by local Native American organizations. There are numerous public agencies and individuals that should be contacted during a significant oil spill incident. Refer to the ACP 2008, Sections 9812.21 for the contact lists.

**M.4 WILDLIFE CARE AND REHABILITATION (ACP 2008: Sec 3600-3640; Region IX Regional Contingency Plan – Section XXII Wildlife Response Plane for California June 2005)**

**M.4.1 Introduction**

The protection, rescue, and rehabilitation of wildlife that are or may be endangered by a release of oil to the environment is a high-priority issue during the development and implementation of spill response procedures.

The activities involved in a wildlife response include:

- Protection.
- Rescue.
- Stabilization.
- Medical treatment.
- Transport.
- Cleaning.
- Rehabilitation and husbandry.
- Release.

Detail information on wildlife rescue and rehabilitation is included in the Federal Region IX Regional Contingency Plan, Sections XXII a and b.

**M.4.2 Contacts**

Wildlife resources are considered public resources and can only be managed, manipulated, or treated under the authority of the following trustee agencies:

- California Department of Fish and Game.
- U.S. Fish and Wildlife Service.
- National Marine Fisheries.

The federal permits required for hazing, collecting, or holding live animals are presented in Table M-4. Each of the trustee agencies has jurisdiction over specific wildlife resources. Many of

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the activities related to the protection, recovery, and/or rehabilitation of wildlife require either permits or permission of the trustee agencies.

**Table M-4. Federal Permits Required.**

<b>FEDERAL PERMITS REQUIRED</b>				
<b>Wildlife Resource</b>	<b>U.S. Fish and Wildlife Service</b>		<b>National Marine Fisheries Service</b>	
	<b>Collect and Hold</b>	<b>Haze</b>	<b>Collect and Hold</b>	<b>Haze</b>
Migratory Birds	Yes	No*	No	No
Sea Otters	Yes	Yes	No	No
Whales, Porpoises, Seals, And Sea Lions	No	No	Yes	Yes
Terrestrial Mammals, Fishes, And Non-Threatened Reptiles	No	No	No	No
Threatened Or Endangered Sea Turtles	No	No	Yes	Yes
* A USFWS permit is needed to haze species managed by the USFWS under the Endangered Species Act.				

The establishment and execution of an effective wildlife response therefore requires early communications between Venoco and the trustees. These communications should include:

- Scope and nature of the wildlife response.
- Identification of the wildlife responder.
- Identification of wildlife resources.
- Prioritization of actions.

Venoco has designated the California Oiled Wildlife Care Network (OWCN) as its wildlife responder. In the event of an oil spill to water, Venoco will ask OSPR, representing the State in the Unified Command, to make the call to activate the OWCN. (All activities of the Network, including rescue, triage, treatment, cleaning, rehabilitation, and release are subject to approval of the trustee representatives.)

**M.5 MAPS OF SENSITIVE RESOURCES**

OSPR and NOAA have prepared an Environmental Sensitivity Maps Index (ESI) Atlas for California. These maps are available to spill response and include information on:

- Shoreline Habitat Types.
- Human Use Features (e.g. access, boat camps, water intakes).
- Sensitive Biological Resources (including seasonal data).

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