



 Environmental Sensitive Sites  
 Operational Division Lines

  
 Calif. Dept. of Fish and Wildlife  
 Office of Spill Prevention and Response  
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## ACP 3 - GRA 3 Environmental Sensitive Sites Monterey County

0 1.2 2.4 4.8 Miles  
 0 1.15 2.3 4.6 Kilometers



## **ACP 3 – North Monterey County**

9827 North Monterey County (GRA 3).....	2
9827.1 Geographic Response Strategies for Environmental Sensitive Sites.....	4
9827.1.1 GRA 3 Site Index .....	4
9827.2 Response Summary Tables .....	43
9827.3 Lists of Economic Resources Susceptible to Oiling .....	47
Figure 1: Environmental Sensitive Sites + Operational Divisions Overview .....	1

## 9827 North Monterey County (GRA 3)

North Monterey County begins at the Pajaro River. The coastline continues as long, sand beaches along the back of the bay until it reaches the Monterey Peninsula where the coastline shifts to wave-cut platform and pocket beaches. There are 10 Environmental sensitive sites in GRA 3 including Moss Landing and Monterey Harbors. GRA 3 includes Operational Divisions MT-Div A through MT-Div D. Elkhorn Slough extends inland of Moss Landing Harbor and holds an exceptionally diverse and abundant marsh ecosystem that is an essential part of the Pacific Flyway. Sea otters are present throughout ACP 3 but the largest concentration of otters reside in Elkhorn Slough and Moss Landing Harbor. The Salinas River is the northern range boundary for the endangered Smith's blue butterfly which can be found on seacliff buckwheat and coast buckwheat in vegetated dunes habitat. California tiger salamander and Santa Cruz long-toed salamanders reside in the Moss Landing and Elkhorn Slough. The north and south ends of the GRA receive heavy recreational use while the beaches between Moss Landing and Seaside experience low to moderate recreational use.

## 9827.1 Geographic Response Strategies for Environmental Sensitive Sites

### 9827.1.1 GRA 3 Site Index

<b>Site #</b>	<b>Site Name</b>	<b>Page #</b>
3-301	Zmudowski State Beach	5
3-305	Moss Landing Harbor	8
3-310	Elkhorn Slough	13
3-325	Salinas River State Beach	21
3-340	Salinas River	24
3-345	Marina State Beach	27
3-360	Monterey State Beach and Del Monte Beach	30
3-370	Monterey Harbor and U.S. Coast Guard Pier	33
3-380	Point Cabrillo	36
3-395	Point Pinos	40

**County:** Monterey**ACP Division/Segment:** MT - A - S001 MT - A - S002**NOAA Chart:** 18685**Map Book:** 1035**Decimal Degrees:** 36.83407 -121.8018**Site Description:**

Sand beach backed by vegetated dunes. Site includes all of Zmudowski State Beach. Receives little recreational use. Site upcoast boundary (36.842616°, -121.805100°), downcoast boundary (36.826232°, -121.798156°); length 1.19 miles. Site is within the Monterey Bay National Marine Sanctuary. Sensitive plant species and Northern legless lizard are present within the sand dunes along beach. Endangered Santa Cruz long-toed salamanders are present in grassland habitat and breed in McClusky Slough.

**Resources at Risk:***ESI and Habitat:* 3A Fine- to medium-grained sand beaches**List of Resources at Risk:**

	Resource Name	Status	Presence	Sensitivity
Amphibians	Santa Cruz long-toed salamander	FE, SE	Year-round	
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Reptiles	Northern legless lizard	SSC	Year-round	Sep-Nov

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

Type	Name/Title	Organization	Phone
C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

Western snowy plovers nest on beach Mar-Sep. Sensitive plant species and Northern legless lizard are present within the sand dunes along beach. Endangered Santa Cruz long-toed salamanders are present in grassland habitat.

**Hazard and Restrictions:**

Vehicle access to beach via gated road.

**Site Strategies:**

**Site Validation Level: II**

**Strategy: 3-301.1 Objective:** No Onsite Options: Consider Offshore Containment/Recovery/ART

*Strategy:* Onsite protection is not feasible due to coastline type.

a) Recommended response strategy is on-water containment and recovery.

b) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

**Last Page Update**

**Logistics:**

*Directions:* Parking area (201 Giberson Rd, Moss Landing, CA 95039); 19 parking spaces.

*Land Access:* Main parking area provides footpath access only. Vehicle access via gated dirt road which begins at main parking area.

*On-Water Limitations:* Nearest vessel launch site is Moss Landing Harbor (2 nautical miles).

*Facilities, Staging Areas, Command Posts, Available Equipment:* Portable toilet.

*Communications Problems:* None.





*County:* Monterey*ACP Division/Segment:* MT - B - S001*NOAA Chart:* 18685*Map Book:* 1055*Decimal Degrees:* 36.80617 -121.79041**Site Description:**

Moss Landing Harbor is spilt across the main channel of Elkhorn Slough into North Harbor and South Harbor; Highway 1 is the only route to travel between them by land. The Highway 1 bridge is the boundary between the Moss Landing and Elkhorn Slough ACP sites. Moss Landing Harbor is the primary commercial fishing port in the Monterey Bay region. The Marine Mammal Center operations for Monterey Bay are based out of Moss Landing Harbor. Moss Landing State Beach is adjacent to North Harbor. Moss Landing Beach (also called Island Beach or Sandholdt Beach) is adjacent to South Harbor. Moro Cojo Slough and the Old Salinas River channel empty into South Harbor. Tidal flats and salt marsh habitat are located within both North and South Harbor. Site is within the Monterey Bay National Marine Sanctuary. Nesting seabirds include Brandt's cormorant and Western gull. Significant brown pelican roosting site. Bank swallows were historically observed nesting in the area. Monterey ornate shrew has been observed south of South Harbor. Western snowy plovers frequent the sand beach in North Harbor and nest on Moss Landing State Beach Mar-Sep. Santa Cruz long-toed salamanders and California tiger salamanders are present in grassland habitat. Significant number of sea otters present year-round and often haul out inside the North Harbor jetty. Sensitive plant species in sand dune habitat.

**Resources at Risk:***ESI and Habitat:* 6B Riprap

7 Exposed tidal flat

8C Sheltered riprap

10A Salt - and brackish-water marshes

9A Sheltered tidal flats

**List of Resources at Risk:**

	<b>Resource Name</b>	<b>Status</b>	<b>Presence</b>	<b>Sensitivity</b>
Amphibians	California tiger salamander	FE, ST	Year-round	
Amphibians	Santa Cruz long-toed salamander	FE, SE	Year-round	
Birds	bank swallow	ST	Mar-Jul	Mar-Jul
Birds	seabird colony		Year-round	Apr-Aug
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Fish	longfin smelt	ST	Year-round	Jan-Mar
Fish	steelhead - Central/Northern California	FT	Year-round	Nov-Apr
Fish	tidewater goby	FE, SSC	Year-round	
Mammals	Monterey ornate shrew	SSC	Year-round	Feb-Oct
Mammals	pinnipeds	FP	Year-round	
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	Monterey gilia	FE, ST	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Plants	saline clover	SR	Year-round	

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C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Duty Phone, 24-hr	Moss Landing Harbor District	(831) 633-2461
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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**Additional Site Summary Comments:**

US Ecology stores response equipment in South Harbor. Moss Landing Power Plant is located directly east of South Harbor which includes a seawater intake; see Economic Site section. Moss Landing Marine Laboratories Aquaculture Facility operates a seawater intake that serves multiple end users in Moss Landing and utilizes a rapid alert system; see Economic Site section. Heavy on-water recreational use out of North Harbor during the summer. Surf area at Moss Landing Beach.

**Concerns and Advice to Responders:**

Heavy on-water recreational use out of North Harbor during the summer. Surf area at Moss Landing Beach. Western snowy plovers frequent the sand beach inside North Harbor and nest on Moss Landing State Beach Mar-Sep. Endangered Santa Cruz long-toed salamanders and threatened California tiger salamanders are present in grassland habitat. Large population of sea otters. Sensitive plant species in sand dune habitat.

**Hazard and Restrictions:**

Strong tidal current velocity through main channel. Tide conditions may limit vessel access beneath the Highway 1 bridge; maximum air draft 8 feet.

**Site Strategies:**

**Site Validation Level: II**

**Strategy: 3-305.1 Objective:** Deploy boom to protect Moss Landing North Harbor and Elkhorn Slough.

*Strategy:* This strategy may be utilized as an alternative or as a secondary containment for strategy 3-310.2. Deploy 1400 feet of boom from the harbor entrance north jetty to the south-west side of Highway 1 bridge. Both locations have permanent anchor points available. On the west side of Highway 1, the second anchor point away from the mouth of the slough should be used. Attach Danforth anchors or an additional 400 feet of boom angled back towards the Highway 1 bridge to prevent entrainment.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			1800	feet	
Boom	Sorbent			1800	feet	
Anchor	Danforth	43 pound		4		
Vessel	Skiff or Punt			2		
Staff				6		

**Strategy: 3-305.2 Objective:** Deploy boom to protect South Harbor.

*Strategy:* If a spill originates in the harbor this strategy would be implemented prior to 3-310.2. Deploy 1200 feet of boom from a location 200 feet south of permanent anchor point on Highway 1 (at the small sand beach) across south harbor to the southern extent of the sandy beach inside of the break wall (just north of Moss Landing Boat Works). Anchor boom if needed to prevent entrainment. Deploy sorbent boom behind hard boom.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			1200	feet	
Boom	Sorbent			1200	feet	
Anchor	Danforth	43 pound		2		
Vessel	Skiff or Punt			2		
Staff				4		

**Strategy: 3-305.3 Objective:** Deploy boom for additional protection of North Harbor.

*Strategy:* If oil cannot be contained within the main channel, deploy 900 feet of boom from the tip of the north inner harbor jetty across the north harbor entrance to the base of the boat ramp. Deploy sorbent boom behind hard boom.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			900	feet	
Boom	Sorbent			900	feet	
Anchor	Danforth	43 pu		2		
Vessel	Skiff or Punt			1		
Staff				4		

**Logistics:**

*Directions:* Moss Landing North Harbor parking (2486 CA-1, Moss Landing, CA 95039); over 200 parking spaces. Moss Landing South Harbor parking (7881 Sandholdt Rd, Moss Landing, CA 95039); over 200 parking spaces. Harbor District office in South Harbor.

*Land Access:* North channel entrance via Jetty Rd. (36.808350°, -121.788748°). South channel entrance via Sandholdt Rd. (36.806439°, -121.787903°).

*On-Water Limitations:* Launch ramps in North Harbor.

*Facilities, Staging Areas, Command Posts, Available Equipment:* US Ecology stores response equipment in South Harbor. Fuel dock in South Harbor. Moss Landing Harbor parking lots may be suitable for staging areas (north lot 3.8 acres, south lot 3 acres). Moss Landing Power Plant conference room may be available for use as a command post. Restrooms at North and South Harbor.

*Communications Problems:* None.



*County:* Monterey*ACP Division/Segment:* MT - B - S001*NOAA Chart:* 18685*Map Book:* 1055*Decimal Degrees:* 36.81 -121.7843**Site Description:**

Elkhorn Slough is the largest tidal salt marsh system in California outside of San Francisco Bay and is home to a diverse and abundant wildlife community, including a long list of threatened and endangered species. Indigenous peoples resided within the slough; the entire area holds considerable cultural and historic significance. The slough is over seven miles long and connects to the ocean through Moss Landing Harbor. Elkhorn Slough is a saltwater estuary with seasonal freshwater input from winter storms, but twice-daily tides cause almost all of the water exchange in the slough. Currents are particularly swift as they pass through restrictions at Highway 1 as well as the train trestle at Parson's Slough and have deeply scoured channels. Extensive marshes and tidal flats cover 2,500 acres scattered throughout the site. The Union Pacific railway lies near the eastern shoreline and has two trestles crossing smaller sloughs. The Elkhorn Slough National Estuarine Research Reserve is administered by the National Oceanic and Atmospheric Administration. The reserve is managed by the California Department of Fish and Wildlife. The Elkhorn Slough Foundation is a land trustee within the reserve. A substantial portion of the northern and western shore (Elkhorn Ranch) is owned by The David and Lucile Packard Foundation. Site is within the Elkhorn Slough State Marine Conservation Area, Elkhorn Slough State Marine Reserve, and Monterey Bay National Marine Sanctuary. Western snowy plovers nest at the Moss Landing State Wildlife Area Mar-Sep. Caspian terns nest in Parsons Slough Apr-Aug. Over 1,000 brown pelicans have been observed roosting within the slough, particularly on the south-facing bank of the Moss Landing State Wildlife Area. Endangered Santa Cruz long-toed salamanders and threatened California tiger salamanders are present in grassland habitat. Elkhorn Slough harbors the largest concentration of sea otters along the California coast which tend to accumulate near Yampah Marsh. Harbor seals haul out and pup at Seal Bend and other tidal flats. Several sensitive plant species are found throughout the slough, including the grassland near the power plant.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

- 7 Exposed tidal flat
- 9A Sheltered tidal flats
- 9B Vegetated low banks
- 8C Sheltered riprap
- 6B Riprap
- 10B Freshwater marshes

**List of Resources at Risk:**

	<b>Resource Name</b>	<b>Status</b>	<b>Presence</b>	<b>Sensitivity</b>
Amphibians	California red-legged frog	FT, SSC	Year-round	Nov-Mar
Amphibians	California tiger salamander	FE, ST	Year-round	
Amphibians	Santa Cruz long-toed salamander	FE, SE	Year-round	
Birds	California Ridgeway's rail	FE, SE	Year-round	Mar-Aug
Birds	seabird colony		Year-round	Apr-Aug
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Mammals	Pacific harbor seal	FP	Year-round	Feb-May
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	Choris' popcorn flower	SR	Year-round	
Plants	Eastwood's goldenbush	SR	Year-round	
Plants	fragrant fritillary	SR	Year-round	
Plants	Monterey gilia	FE, ST	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Plants	robust spineflower	FE	Year-round	
Plants	saline clover	SR	Year-round	
Plants	seaside bird's beak	SE	Year-round	
Reptiles	Western pond turtle	SSC	Year-round	May-Aug

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

Type	Name/Title	Organization	Phone
C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Manager	CDFW Moss Landing State Wildlife Area	(831) 649-7194
E	/Office	Elkhorn Slough National Estuarine Research Reserv	(831) 728-2822
E	/Duty Phone, 24-hr	Moss Landing Harbor District	(831) 633-2461
O	/Dispatch, 24-hr	Union Pacific Railroad	(888) 877-7267
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Heavy on-water recreational use. Due to its size and complexity, this site includes multiple protection strategies that are illustrated in four diagrams. Figure 1 - Overall site area. Figure 2 - Elkhorn Slough inlet and Moss Landing Harbor (Substrategy 3-310.2). Figure 3 - Parsons Slough inlet at train trestle (Substrategy 3-310.4). Figure 3 - Inlets to Moss Landing State Wildlife Area, Yampah Marsh, Minhoto Marsh, and Hester's Marsh (Substrategy 3-310.5). Figure 4 - Water control structures (Substrategy 3-310.3).

**Concerns and Advice to Responders:**

Heavy on-water recreational use. Western snowy plovers nest at the Moss Landing State Wildlife Area Mar-Sep. Caspian terns nest in Parsons Slough Apr-Aug. Brown pelicans roost on the south-facing bank of the Moss Landing State Wildlife Area. Endangered Santa Cruz long-toed salamanders and threatened California tiger salamanders are present in grassland habitat. Large population of sea otters, particularly near Yampah Marsh. Harbor seals at Seal Bend and other tidal flats Feb-May. Several sensitive plant species found throughout the slough, including the grassland near the power plant.

**Hazard and Restrictions:**

Railroad on eastern shoreline with frequent train traffic; crossing at Kirby Park does not have flashing lights or crossarms. Strong tidal current velocity through main channel. Tide conditions may limit vessel access beneath the Highway 1 bridge; maximum air draft 8 feet. Vehicle access to Moss Landing State Wildlife Area via gated gravel road.

**Site Strategies:****Site Validation Level: III**

**Strategy: 3-310.1 Objective:** Deploy boom to contain spill near source.

*Strategy:* This strategy applies to any location within the slough. Contain the spill as close to the source as possible based upon the location and nature of the spill. Consult tide tables and wind forecasts to determine the potential trajectory of the spill. The equipment listed below would be required in the event of a large spill.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			5700	feet	
Boom	Sorbent			5700	feet	
Anchor	Danforth	43 pound		10		
Anchor	Shore			5		
Vessel	Skiff or Punt			3		
Vessel	Hand-Launchable			2		
Staff				12		

**Strategy: 3-310.2 Objective:** Deploy boom to protect Elkhorn Slough.

*Strategy:* See Figures 1 and 2. Pre-set three 43-pound Danforth anchors east of the Highway 1 bridge along the planned deployment. The bottom is sand which ensures proper anchoring. Set a shore anchor on the north side of the slough in the area shown on Figure 1. There is a permanent anchor by the power plant outfall on the south side of the slough. Using the permanent anchor and the temporary shore anchor, deploy one strand of containment boom across the slough. Attach the Danforth anchors to prevent entrainment. If shore anchors are not available there are numerous other places to anchor boom including cypress trees and other permanent structures. Deploy one strand of sorbent boom behind the containment boom. Boats should be launched at the Moss Landing North Harbor launch ramp adjacent to Highway 1. Vessels with maximum air draft of 8 feet will be required to pass under the Highway 1 bridge. Higher profile boats can launch at Kirby Park although not recommended due to narrow channel and small boat ramp. Equipment such as vacuum trucks can be staged in the parking lot adjacent to Highway 1 or in the Moss Landing Wildlife Area.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			1400	feet	<i>Strategy Updated:</i>
Boom	Sorbent			1400	feet	<i>Last Test: 1/19/2018</i>
Anchor	Danforth	43 pound		4		
Anchor	Shore			2		
Vessel	Skiff or Punt			2		
Staff				6		



**Strategy: 3-310.3 Objective:** Close all water control structures in Elkhorn Slough.

*Strategy:* See Figure 4. Contact the Elkhorn Slough Reserve and Moss Landing Wildlife Area manager and request that staff close all water control structures. Contact county communications (911) to inform of spill and direct staff to close water control structures.

Table of Response Resources

**Last Page Update**

**Strategy: 3-310.4 Objective:** Deploy boom to protect Parsons Slough.

*Strategy:* See Figures 1 and 3. At the Parsons Slough trestle crossing, deploy approximately 400 feet of boom to the west of the trestle in a shallow chevron formation. Due to potential current under trestle and risk of entrainment a secondary deeper chevron formation may be deployed to ensure full containment of product released. Use a collection pocket in apex of boom. This strategy may require using a skiff that can be hand-carried over the levy if booming is necessary on the east side of the trestle. Oil collection will be conducted on-water or from the rail line using a high-rail skimmer. If access restricts equipment operations boom can be moved south into a modified chevron allowing more efficient skimming operations from shore-based strategies.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			800	feet	<i>Strategy Updated: Last Test: 1/19/2018</i>
Boom	Sorbent			800	feet	
Anchor	Danforth	43 pound		4		
Vessel	Skiff or Punt			1		
Vessel	Hand-carried			1		
Staff				4		

**Strategy: 3-310.5 Objective:** Deploy boom to protect marsh areas and side channels.

*Strategy:* See Figures 1 and 3. The specific shoreline protection strategies will depend on tide stage and oil movement but may include using deflection booms and lining the shoreline with sorbent boom. Primary areas of concern are Moss Landing State Wildlife Area, Yampah Marsh, Minhoto Marsh, and Hester's Marsh.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			1400	feet	
Boom	Sorbent			1400	feet	
Anchor	Danforth	43 pound		8		
Vessel	Skiff or Punt			2		
Staff				4		

**Logistics:**

*Directions:* Moss Landing North Harbor (2486 CA-1, Moss Landing, CA 95039); over 200 parking spaces. Moss Landing South Harbor (7881 Sandholdt Rd, Moss Landing, CA 95039); over 200 parking spaces. Kirby Park (Kirby Rd, Watsonville, CA 95076); 60 parking spaces. Elkhorn Slough National Estuarine Research Reserve office (1700 Elkhorn Rd, Watsonville, CA 95076); 72 parking spaces.

*Land Access:* Access to Moss Landing State Wildlife Area through gated CDFW property (2375 CA-1, Moss Landing, CA 95039). Access to Minhoto Marsh and Hester's Marsh through Moonglow Dairy property (357 Dolan Rd, Moss Landing, CA 95039). Access to Yampah Marsh and Parsons Slough from Via Tanques Rd. (36.806289°, -121.749075°). Hiking trails throughout slough originate at the Elkhorn Slough National Estuarine Research Reserve.

*On-Water Limitations:* Launch ramps in Moss Landing North Harbor. Launch ramp for small vessels at Kirby Park. Tide conditions may limit vessel access beneath the Highway 1 bridge, maximum air draft 8 feet.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Moss Landing Harbor parking lots may be suitable for staging areas (north lot 3.8 acres, south lot 3 acres). Moss Landing Power Plant conference room may be available for use as a command post. Restrooms at Moss Landing North Harbor and South Harbor. Portable toilet at Kirby Park.

*Communications Problems:* None.

*Additional Operational Comments:*

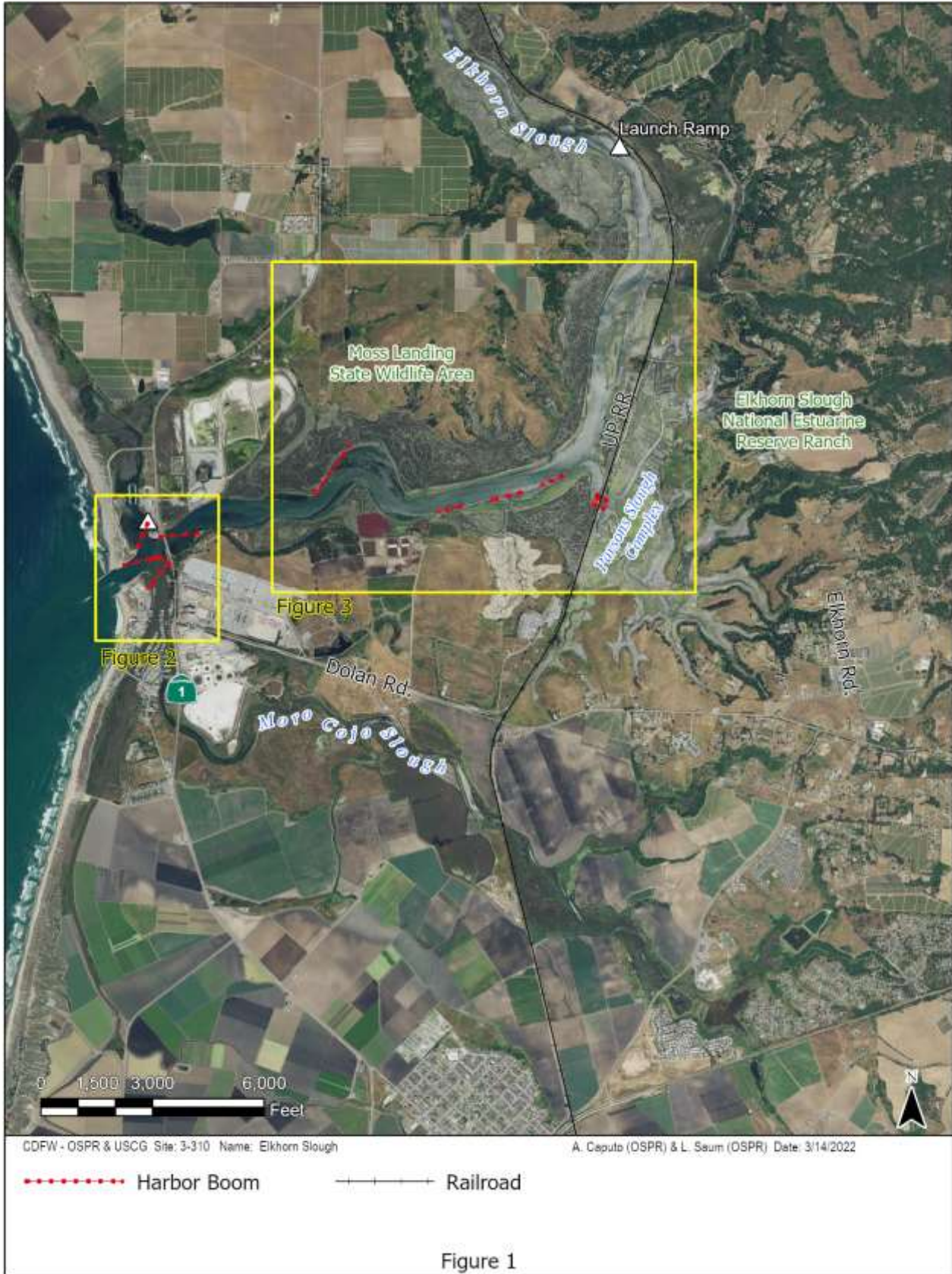
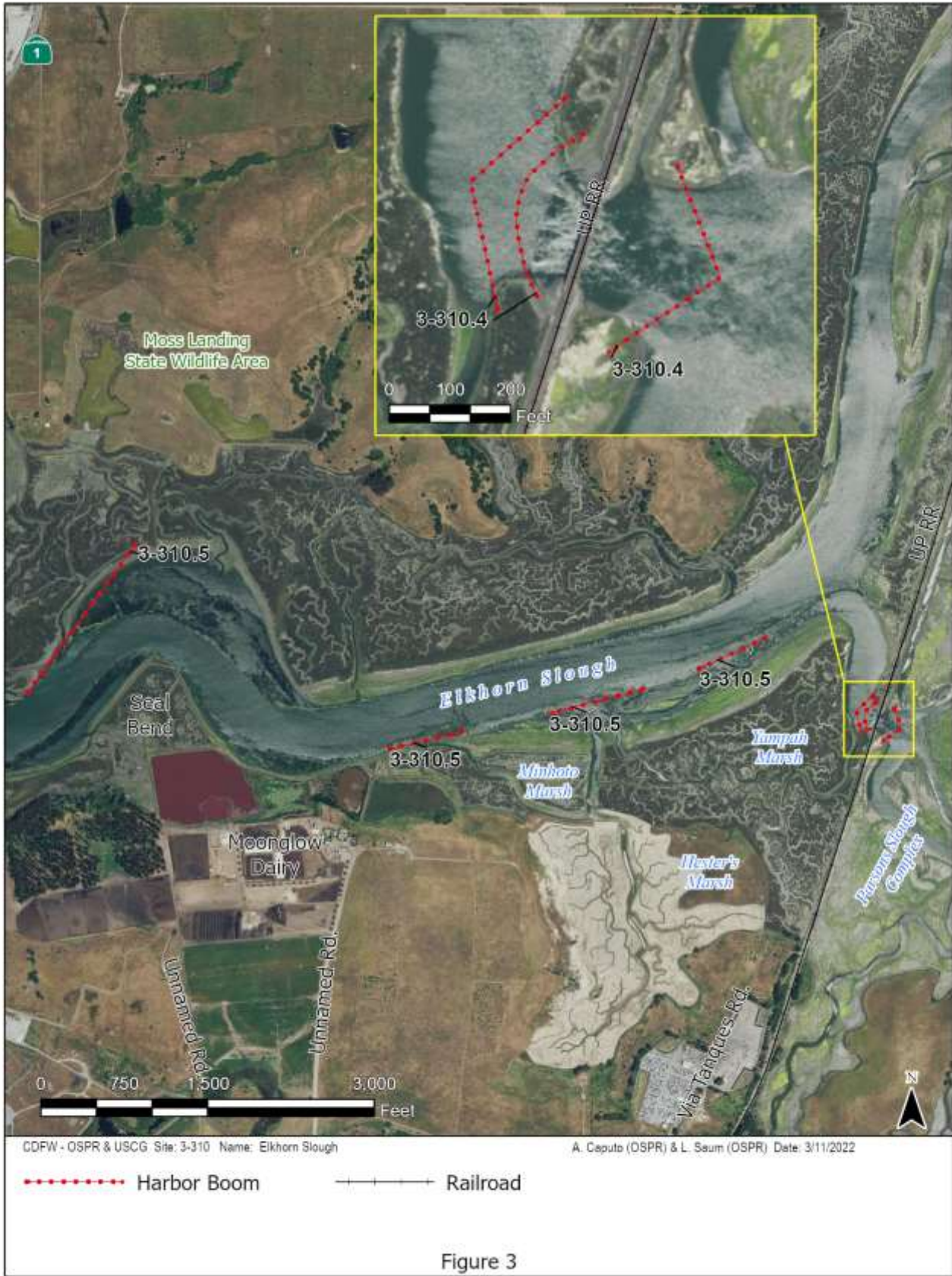






Figure 2









**County:** Monterey**ACP Division/Segment:** MT - C - S002 MT - C - S003 MT - C - S004**NOAA Chart:** 18685**Map Book:****Decimal Degrees:** 36.77605 -121.79786**Site Description:**

Continuous sand beach backed by steep, vegetated dunes. Site includes all of Salinas River State Beach extending from the Sandholdt Rd. bridge to the Salinas River. The Monterey Dunes Colony residential community is located within the dunes near the Salinas River. Site upcoast boundary (36.800698°, -121.789340°), downcoast boundary (36.752575°, -121.803442°); length 3.42 miles. Site is within the Monterey Bay National Marine Sanctuary. Caspian terns nest in vegetated dunes Apr-Aug. Several sensitive plant species and Northern legless lizard are present within the sand dunes along beach.

**Resources at Risk:***ESI and Habitat:* 3A Fine- to medium-grained sand beaches**List of Resources at Risk:**

	Resource Name	Status	Presence	Sensitivity
Birds	seabird colony		Year-round	Apr-Aug
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	coast wallflower	SR	Year-round	
Plants	Monterey qilia	FE, ST	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Plants	robust spineflower	FE	Year-round	
Reptiles	Northern legless lizard	SSC	Year-round	Sep-Nov

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C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Office	Monterey Dunes Colony Homeowners Association	(831) 633-4000
E	/Manager	USFWS Salinas River National Wildlife Refuge	(510) 792-0222
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	Elizabeth Petras/Biologist	National Marine Fisheries Service	(562) 980-3238
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Moderate recreational use.

**Concerns and Advice to Responders:**

Western snowy plovers nest on beach Mar-Sep. Sensitive plant species, Northern legless lizard, and nesting Caspian terns (Apr-Aug) are present within the sand dunes along beach.

**Hazard and Restrictions:**

Vehicle access to beach via gated farm road. Vehicles may only be able to transit the beach at low tide due to beach slope and deep sand.

**Site Strategies:****Site Validation Level: II**

**Strategy: 3-325.1 Objective:** No Onsite Options: Consider Offshore Containment/Recovery/ART

*Strategy:* Onsite protection is not feasible due to coastline type.

A) Recommended response strategy is on-water containment and recovery.

B) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

**Last Page Update****Logistics:**

*Directions:* Northern site access parking: Sandholdt lot off Sandholdt Rd. (36.799432°, -121.789111°); 38 parking spaces. North-central site access parking: Portrero lot off Portrero Rd. (36.790811°, -121.791723°); 50 parking spaces. South-central site access parking: Main parking lot (9004 Monterey Dunes Way, Moss Landing, CA 95039); 46 parking spaces. Southern site access: River mouth via farm roads off Main Monterey Dunes Way, gated (36.752153°, -121.802143°).

*Land Access:* Vehicle access to beach from gated farm road off Monterey Dunes Way (southern site access). Vehicles can only transit the beach at low tide due to beach slope and deep sand. All other site access points to beach are footpath only.

*On-Water Limitations:* Nearest vessel launch site is Moss Landing Harbor (2 nautical miles).

*Facilities, Staging Areas, Command Posts, Available Equipment:* Portable toilets at Sandholdt, Portrero, and Main parking areas.

*Communications Problems:* None.





**County:** Monterey **ACP Division/Segment:** MT - C - S003**NOAA Chart:** 18685**Map Book:** 1075**Decimal Degrees:** 36.75011 -121.80383**Site Description:**

The Salinas River supports a well-developed brackish marsh habitat that extends from the river mouth to the Highway 1 bridge. Freshwater marsh and riparian habitat begin upstream of the Highway 1 bridge. The Salinas River mouth location is highly variable within a one-mile stretch of beach. A natural sand berm forms during low outflow. The river mouth extends into Salinas River State Beach to the north and the Salinas National Wildlife Refuge to the south. Site is within the Monterey Bay National Marine Sanctuary. Sensitive plant species and Northern legless lizard are present within the vegetated dunes. Over 1,000 brown pelicans have been observed roosting near the river mouth. Nesting colony of bank swallows along the river mouth banks. Nesting seabirds in the surrounding area include Caspian tern, Forster's tern, elegant tern, and was historically a nesting site for least tern. The Salinas River is the northern boundary for the endangered Smith's blue butterfly range which can be found on seacliff buckwheat and coast buckwheat in vegetated dunes habitat.

**Resources at Risk:****ESI and Habitat:** 3A Fine- to medium-grained sand beaches

7 Exposed tidal flat

10A Salt - and brackish-water marshes

**List of Resources at Risk:**

	<b>Resource Name</b>	<b>Status</b>	<b>Presence</b>	<b>Sensitivity</b>
Birds	bank swallow	ST	Mar-Jul	Mar-Jul
Birds	seabird colony		Year-round	Apr-Aug
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Fish	Monterey hitch	SSC	Year-round	May-Aug
Fish	steelhead - Central/Northern California	FT	Year-round	Nov-Apr
Fish	tidewater goby	FE, SSC	Year-round	
Insects	Smith's blue butterfly	FE	Year-round	
Mammals	Monterey ornate shrew	SSC	Year-round	Feb-Oct
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	coast wallflower	SR	Year-round	
Plants	Monterey qilia	FE, ST	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Reptiles	Northern legless lizard	SSC	Year-round	Sep-Nov

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

<b>Type</b>	<b>Name/Title</b>	<b>Organization</b>	<b>Phone</b>
C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Manager	USFWS Salinas River National Wildlife Refuge	(510) 792-0222
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

**Concerns and Advice to Responders:**

Western snowy plovers nest on beach Mar-Sep. Sensitive plant species, Northern legless lizard, and nesting seabirds (Apr-Aug) are present within the sand dunes along beach.

**Hazard and Restrictions:**

Remote location. Vehicle access to beach via gated farm road. Vehicles may only be able to transit the beach at low tide due to beach slope and deep sand.

**Site Strategies:****Site Validation Level: II****Strategy: 3-340.1 Objective:** Build Berm

*Strategy:* Exclude oil from river by building a sediment berm with native sand using heavy equipment. May need to install PVC pipe below berm to allow for water outflow. Place sorbent boom 30 feet upstream of berm.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Bulldozer or Loader				1		
PVC Pipe		6 inch		500	feet	
Boom	Sorbent			300	feet	
Stakes				2		
Staff				10		

**Strategy: 3-340.2 Objective:** Deploy Containment Boom

*Strategy:* Exclude oil from river with two rows of swamp boom. Line upstream side of swamp boom with sorbent boom.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp			2000	feet	
Boom	Sorbent			2000	feet	
Anchor	Danforth			4		
Stakes				4		
Vessel	Skiff or Punt			1		
Staff				5		

**Logistics:**

*Directions:* North river mouth access: farm roads off Main Monterey Dunes Way, gated (36.752153°, -121.802143°). South river mouth access: Marina State Beach, 3.3 miles south of Salinas River (36.698474°, -121.808925°); 49 parking spaces.

*Land Access:* Heavy equipment access to beach from both site access points. Vehicles may only be able to transit the beach from the southern access at low tide due to beach slope and deep sand.

*On-Water Limitations:* Nearest vessel launch site is Moss Landing Harbor (4 nautical miles). May be possible to launch skiff from the northern river mouth bank.

*Facilities, Staging Areas, Command Posts, Available Equipment:* Restrooms at southern site access.

*Communications Problems:* None.





*County:* Monterey*ACP Division/Segment:* MT - C - S006*NOAA Chart:* 18685*Map Book:* 1094*Decimal Degrees:* 36.6905 -121.81151**Site Description:**

Sand beach backed by vegetated dunes. Site includes all of Marina State Beach which begins slightly north of the main parking lot and extends to the south end of Lake Ct. where Fort Ord State Beach begins. Site upcoast boundary (36.699437°, -121.809392°), downcoast boundary (36.682464°, -121.814129°); length 1.2 miles. Site is within the Monterey Bay National Marine Sanctuary. Many sensitive plant species and Northern legless lizard are present within the sand dunes along beach.

**Resources at Risk:***ESI and Habitat:* 3A Fine- to medium-grained sand beaches**List of Resources at Risk:**

	Resource Name	Status	Presence	Sensitivity
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Insects	Smith's blue butterfly	FE	Year-round	
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	coast wallflower	SR	Year-round	
Plants	Eastwood's goldenbush	SR	Year-round	
Plants	Menzies' wallflower	FE, SE	Year-round	
Plants	Monterey qilia	FE, ST	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Plants	Point Reyes horkelia	SR	Year-round	
Plants	Santa Cruz wallflower	FE, SE	Year-round	
Plants	seaside bird's beak	SE	Year-round	
Plants	robust spineflower	FE	Year-round	
Reptiles	Northern legless lizard	SSC	Year-round	Sep-Nov

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

Type	Name/Title	Organization	Phone
C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Desalination facility north of site; see Economic Site section. Moderate recreational use. A State Park Peace Officer residence is located near the entrance gate.

**Concerns and Advice to Responders:**

Western snowy plovers nest on beach Mar-Sep. Sensitive plant species and Northern legless lizard are present within the sand dunes along beach.

**Hazard and Restrictions:**

Reservation Rd. is gated before 0800 hours and 30 minutes after sunset.

**Site Strategies:****Site Validation Level: II**

**Strategy: 3-345.1 Objective:** No Onsite Options: Consider Offshore Containment/Recovery/ART

*Strategy:* Onsite protection is not feasible due to coastline type.

A) Recommended response strategy is on-water containment and recovery.

B) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

**Last Page Update****Logistics:**

*Directions:* Northern site access parking: Marina State Beach main parking lot from Reservation Rd.

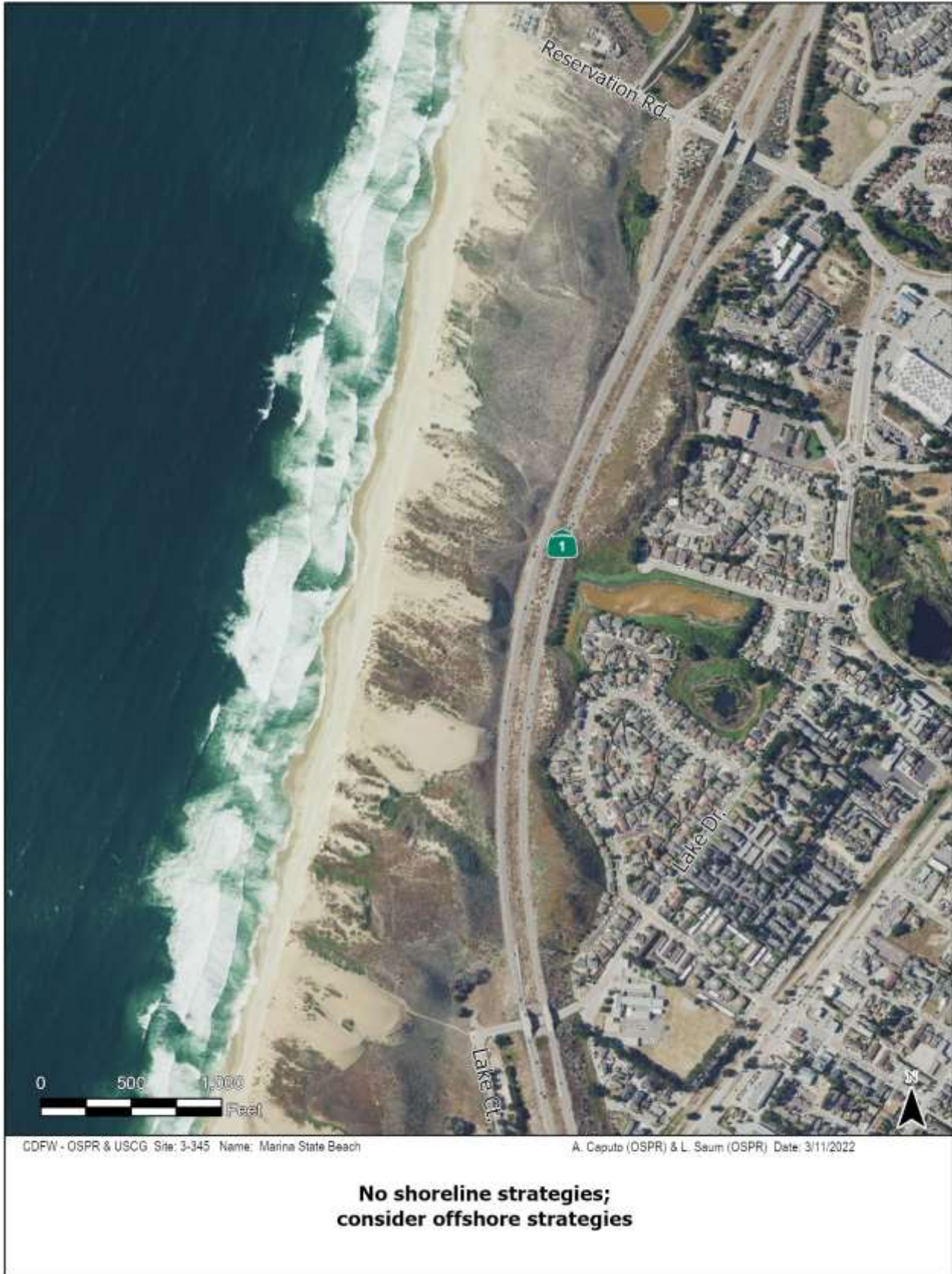
(36.698474°, -121.808925°); 49 parking spaces. Southern site access parking: on Lake Ct. (36.680337°, -121.809441°); 10 parking spaces.

*Land Access:* Vehicle access from Marina State Beach main parking lot. Southern parking area provides footpath access only.

*On-Water Limitations:* Nearest vessel launch sites are Moss Landing Harbor (7 nautical miles) and Monterey Harbor (6 nautical miles).

*Facilities, Staging Areas, Command Posts, Available Equipment:* Restrooms at northern parking lot.

*Communications Problems:* None.





*County:* Monterey*ACP Division/Segment:* MT - C - S008 MT - C - S009*NOAA Chart:* 18685*Map Book:* 1134, 1133*Decimal Degrees:* 36.60644 -121.86647**Site Description:**

Sand beach backed by a mixture of vegetated dunes and urban development. Site includes all of Monterey State Beach and Del Monte Beach which have non-contiguous property lines. Monterey State Beach is interspersed with stretches of private property at the hotel and residential area at Tide Ave. Seaside State Beach is a day use area within Monterey State Beach. The northern section of Del Monte Beach at Tide Ave. is locally referred to as Casa Verde Beach. The Naval Postgraduate School owns the section of beach between the end of Spray Ave. and Monterey Bay Park, though there are no restrictions for public access. Del Monte Beach is managed by the City of Monterey. Site upcoast boundary (36.618982°, -121.851233°), downcoast boundary (36.601557°, -121.889678°); length 2.58 miles. Site is within the Monterey Bay National Marine Sanctuary. Many sensitive plant species and Northern legless lizard are present within the sand dunes along beach.

**Resources at Risk:***ESI and Habitat:* 3A Fine- to medium-grained sand beaches**List of Resources at Risk:**

	Resource Name	Status	Presence	Sensitivity
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Insects	Smith's blue butterfly	FE	Year-round	
Mammals	Monterey ornate shrew	SSC	Year-round	Feb-Oct
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	beach layia	FE, SE	Year-round	
Plants	coast wallflower	SR	Year-round	
Plants	Eastwood's goldenbush	SR	Year-round	
Plants	Kellogg's horkelia	SR	Year-round	
Plants	Monterey gilia	FE, ST	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Plants	northern curly-leaved monardella	SR	Year-round	
Plants	seaside bird's beak	SE	Year-round	
Reptiles	Northern legless lizard	SSC	Year-round	Sep-Nov

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

Type	Name/Title	Organization	Phone
C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Office	City of Monterey - Parks and Beaches	(831) 646-3860
E	/Quarterdeck, 24-hr	Naval Postgraduate School	(831) 656-2441
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Desalination facility on site; see Economic Site section. Heavy recreational use. The outlet of Roberts Lake which serves as a stormwater outfall for the City of Seaside is adjacent to the Seaside State Beach Parking lot.

**Concerns and Advice to Responders:**

Heavy recreational use. Western snowy plovers nest on beach Mar-Sep. Sensitive plant species and Northern legless lizard are present within the sand dunes along beach.

**Hazard and Restrictions:****Site Strategies:****Site Validation Level: II**

**Strategy: 3-360.1 Objective:** No Onsite Options: Consider Offshore Containment/Recovery/ART

*Strategy:* Onsite protection is not feasible due to coastline type.

A) Recommended response strategy is on-water containment and recovery.

B) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

**Last Page Update****Logistics:**

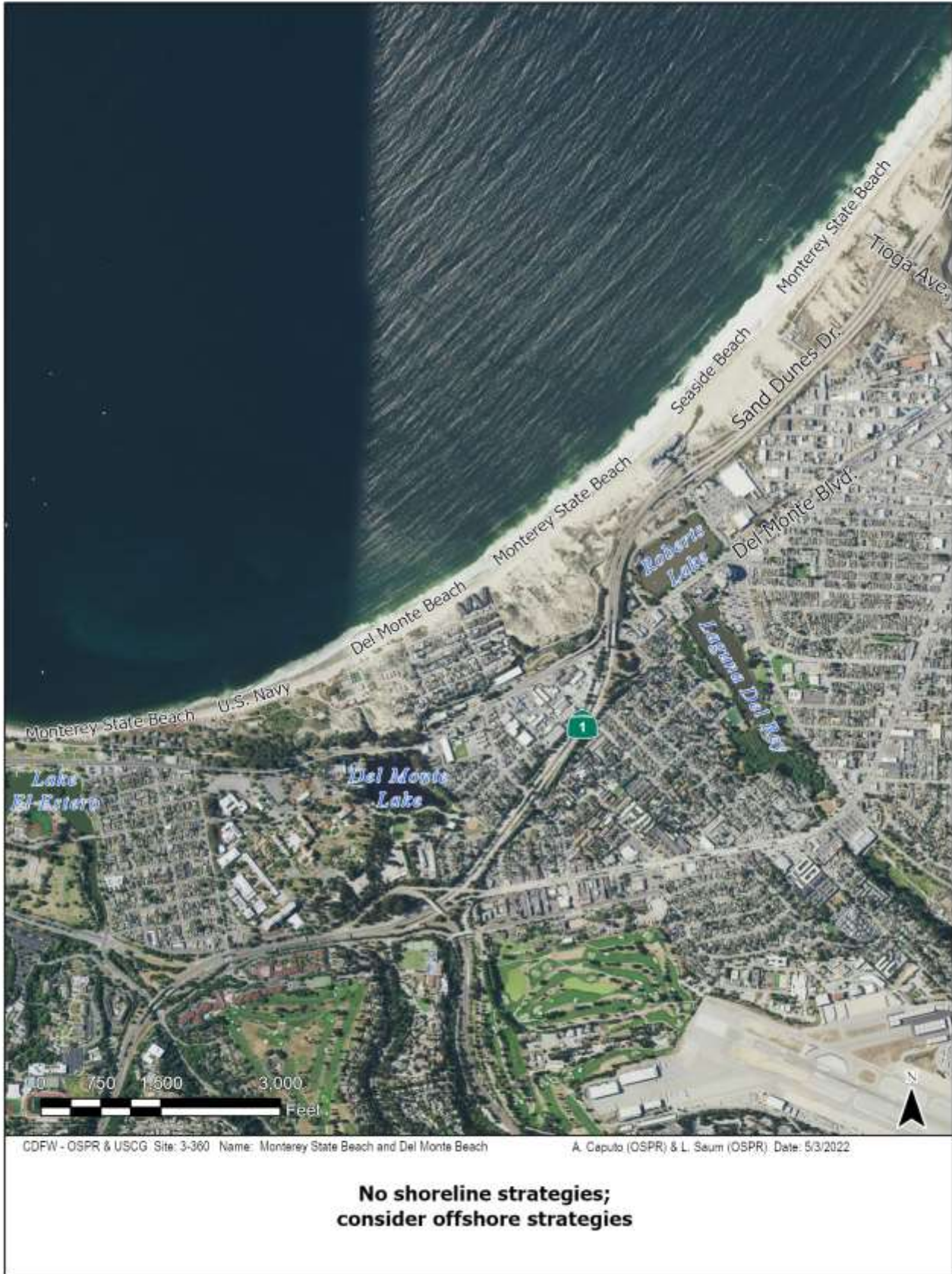
*Directions:* Northern site access parking: Tioga Ave. (36.618741°, -121.850667°); 16 parking spaces. North-central site access parking: Seaside State Beach lot off Sand Dunes Dr. (36.611477°, -121.857646°); 39 parking spaces. South-central site access parking: on Tide Ave. (36.604584°, -121.868627°); 60 parking spaces. Southern site access parking: near Monterey Bay Kayaks (559 Del Monte Blvd, Monterey, CA 93940); 30 parking spaces.

*Land Access:* Vehicle access from Seaside State Beach and from southern site access parking. Footpath access from Tioga Rd. and Tide Ave. parking areas.

*On-Water Limitations:* Nearest vessel launch site is Monterey Harbor (1 nautical mile).

*Facilities, Staging Areas, Command Posts, Available Equipment:* Wharf parking lots can support a large staging area (6 acres total). Portable toilets at Seaside State Beach parking area and off West Bay St. Restrooms at Municipal Wharf parking lot.

*Communications Problems:* None.



**County:** Monterey**ACP Division/Segment:** MT - D - S001**NOAA Chart:** 18685**Map Book:** 1133**Decimal Degrees:** 36.60667 -121.8901**Site Description:**

Monterey Harbor is managed by the City of Monterey. It is bounded by the U.S. Coast Guard Pier to the north and the Municipal Wharf 2 to the southeast. There is an open-water moorage east of Municipal Wharf 2. The U.S. Coast Guard Pier base structure is permeable riprap. An impervious concrete sea wall extends under Municipal Wharf 2 from Del Monte Beach to the midway point of the wharf. Old Fisherman's Wharf and an open-water mooring are located in the central of the harbor. Breakwater Cove Marina is adjacent to the Coast Guard Pier. Coast Guard and City of Monterey Fire Department vessel are stationed along the Coast Guard Pier. Site is within the Monterey Bay National Marine Sanctuary and the seaward wall of the Coast Guard Pier is within the Edward F. Ricketts State Marine Conservation Area. The Coast Guard Pier is a haulout site for sea lions and a nesting colony of Brandt's cormorants. Pigeon guillemot and Western gull also nest on site. Significant brown pelicans roosting site; 500-1,000 birds have been observed. Northern legless lizard is found in the dunes between Old Fisherman's Wharf and Breakwater Cove. Sea otters are frequently found throughout the harbor.

**Resources at Risk:***ESI and Habitat:* 8C Sheltered riprap

8B Sheltered solid man-made structures

6B Riprap

1B Exposed solid man-made structures

5 Mixed sand and gravel beaches

**List of Resources at Risk:**

	Resource Name	Status	Presence	Sensitivity
Birds	seabird colony		Year-round	Apr-Aug
Mammals	pinnipeds	FP	Year-round	
Mammals	Southern sea otter	FT, SP	Year-round	
Reptiles	Northern legless lizard	SSC	Year-round	Sep-Nov

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

Type	Name/Title	Organization	Phone
C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Office	Monterey Harbor, City of Monterey	(831) 646-3950
E	/Office	U.S. Coast Guard Station Monterey	(831) 647-7300
O	/Duty Phone, 24-hr	City of Monterey Fire Department	(831) 901-5002
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

U.S. Coast Guard Station Monterey located across Foam St. City of Monterey Fire Department maintains an OSPR-granted spill response equipment trailer. Monterey Harbor Office located west of Municipal Wharf 2.

**Concerns and Advice to Responders:****Hazard and Restrictions:**

U.S. Coast Guard Pier, gated access for vehicle and pedestrian traffic.

**Site Strategies:****Site Validation Level: II**

**Strategy: 3-370.1 Objective:** Primary booming to exclude oil from harbor entrance.

*Strategy:* Exclude oil by deploying two overlapping lengths of boom from seaward tip of Coast Guard Pier to the junction of the exterior marina seawall. The overlapping lengths will make a vessel traffic opening which faces toward shore. The length from the Coast Guard Pier should extend about 700 feet toward the Municipal Wharf 2 and terminate near Buoy Red "2." The boom from the seawall should extend about 1300 feet toward the Coast Guard Pier. This overlap should be at least about 100 feet wide and at least 200-300 feet long. An additional length of boom (two times the width of traffic lane) should be available to close the opening when there is significant threat of oil movement through the opening. Each end of the traffic opening will need a mooring weight with surface buoy for boom attachment to keep the opening clear for navigation (no lengthy anchor lines to foul props.) Special care must be given to the attachment of boom at marina seawall to allow for tidal fluctuations and to avoid hang-ups in pilings. On the east end of the Coast Guard Pier, link boom to substrategy 3-375.4 to maximize oil exclusion.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			2400	feet	
Anchor	Danforth	43 pound		7		
Misc.	Mooring weights w/ surface buoy			2		
Vessel	Boom Boat			2		
Staff				6		

**Strategy: 3-370.2 Objective:** Back-up booming to exclude oil from harbor entrance.

*Strategy:* This is a second layer of boom deployed behind and parallel to substrategy 3-370.1. Deploy boom from the end of Coast Guard Pier to the leeward side of Municipal Wharf 2 or the seawall running south from the wharf.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp			2400	feet	
Anchor	Danforth	43 pound		5		
Vessel	Boom Boat			1		
Staff				3		

**Strategy: 3-370.3 Objective:** Exclude oil from inside wall of U.S. Coast Guard Pier.

*Strategy:* Deploy harbor boom from the exclusion harbor boom at the entrance (substrategy 3-370.1) along the entire inside length of the Coast Guard Pier.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp			1500	feet	
Anchor	Danforth	25 pound		3		
Vessel	Boom Boat			1		
Staff				3		

**Strategy: 3-370.4 Objective:** Primary booming to exclude oil from outside wall of U.S. Coast Guard Pier.  
**Strategy:** Deploy boom in a flat chevron along length of outside Coast Guard Pier wall. Link to substrategy 3-370.1.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			3000	feet	
Anchor	Danforth	43 pound		3		
Vessel	Boom Boat			2		
Vessel	Skiff or Punt			1		
Staff				6		

**Strategy: 3-370.5 Objective:** Back-up booming to exclude oil from outside wall of U.S. Coast Guard Pier.  
**Strategy:** Deploy a second layer of boom inside substrategy 3-370.4. Leave at least 30 feet distance between the layers.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp			3000	feet	
Anchor	Danforth	43 pound		3		
Vessel	Boom Boat			2		
Vessel	Skiff or Punt			1		
Staff				6		

**Strategy: 3-370.6 Objective:** Contain oil from within the harbor.

**Strategy:** Deploy boom in a sufficient perimeter to contain releasing oil. Watch for oil carried beyond containment by currents and provide secondary containment in such a case.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp			800	feet	
Anchor	Danforth	25 pound		6		
Vessel	Skiff or Punt			1		
Staff				2		

### Logistics:

**Directions:** Monterey Harbor Office (250 Figueroa St, Monterey, CA 93940); over 400 parking spaces. Breakwater Cove (32 Cannery Row, Monterey, CA 93940); 109 parking spaces.

**Land Access:** Vehicle access and parking on Municipal Wharf 2. Vehicle and pedestrian access on Coast Guard Pier, gated.

**On-Water Limitations:** Launch ramps located near Monterey Harbor Office and Breakwater Cove. Hoist (3-ton). Small craft refueling dock.

**Facilities, Staging Areas, Command Posts, Available Equipment:** City of Monterey Fire Department maintains an OSPR-granted spill response equipment trailer. Wharf parking lots can support a large staging area (6 acres total). Restrooms at beginning of Municipal Wharf 2 at Del Monte Beach and at Breakwater Cove.

**Communications Problems:** None.







**County:** Monterey **ACP Division/Segment:** MT - D - S005**NOAA Chart:** 18685**Map Book:** 1113**Decimal Degrees:** 36.62166 -121.90427**Site Description:**

Site area includes the rocky shoreline and wave-cut platform of Point Cabrillo and the sandy pocket beaches to the east and west of the point. The pocket beach to the west of the point is called West Beach. The Stanford University Hopkins Marine Station research facility and campus are on site. Site upcoast boundary (36.618719°, -121.902358°), downcoast boundary (36.620916°, -121.906688°); length 0.46 miles. Site is within the Lovers Point - Julia Platt State Marine Reserve, Hopkins Marine Life Refuge, Bureau of Land Management California Coastal National Monument, Monterey Bay National Marine Sanctuary, and is a California Area of Special Biological Significance. West Beach is a significant year-round haulout and rookery for harbor seals. Black oystercatchers nest on the rocky shoreline.

**Resources at Risk:****ESI and Habitat:** 2A Exposed wave-cut platforms in bedrock, mud, or clay

4 Coarse-grained sand beaches

5 Mixed sand and gravel beaches

3A Fine- to medium-grained sand beaches

**List of Resources at Risk:**

	<b>Resource Name</b>	<b>Status</b>	<b>Presence</b>	<b>Sensitivity</b>
Birds	peregrine falcon	FP, SP	Year-round	Mar-Jun
Birds	seabird colony		Year-round	Apr-Aug
Insects	Smith's blue butterfly	FE	Year-round	
Invertebrates	black abalone	FE	Year-round	Apr-Sep
Mammals	Pacific harbor seal	FP	Year-round	Feb-May
Mammals	Southern sea otter	FT, SP	Year-round	

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

<b>Type</b>	<b>Name/Title</b>	<b>Organization</b>	<b>Phone</b>
C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Office	Hopkins Marine Station of Stanford University	(831) 655-6249
T	/Natural Resources Specialist	BLM, CA Coastal National Monument	(831) 582-2200
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Monterey Bay Aquarium operates a seawater intake nearby which also serves the Hopkins Marine Station; see Economic Site section.

**Concerns and Advice to Responders:**

Harbor seals pup on West Beach Feb-May and haul out year-round.

**Hazard and Restrictions:**

Gated entry to university property.

**Site Strategies:**

**Site Validation Level: II**

**Strategy: 3-380.1 Objective:** No Onsite Options: Consider Offshore Containment/Recovery/ART

*Strategy:* Onsite protection is not feasible due to coastline type.

A) Recommended response strategy is on-water containment and recovery.

B) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

**Last Page Update**

**Logistics:**

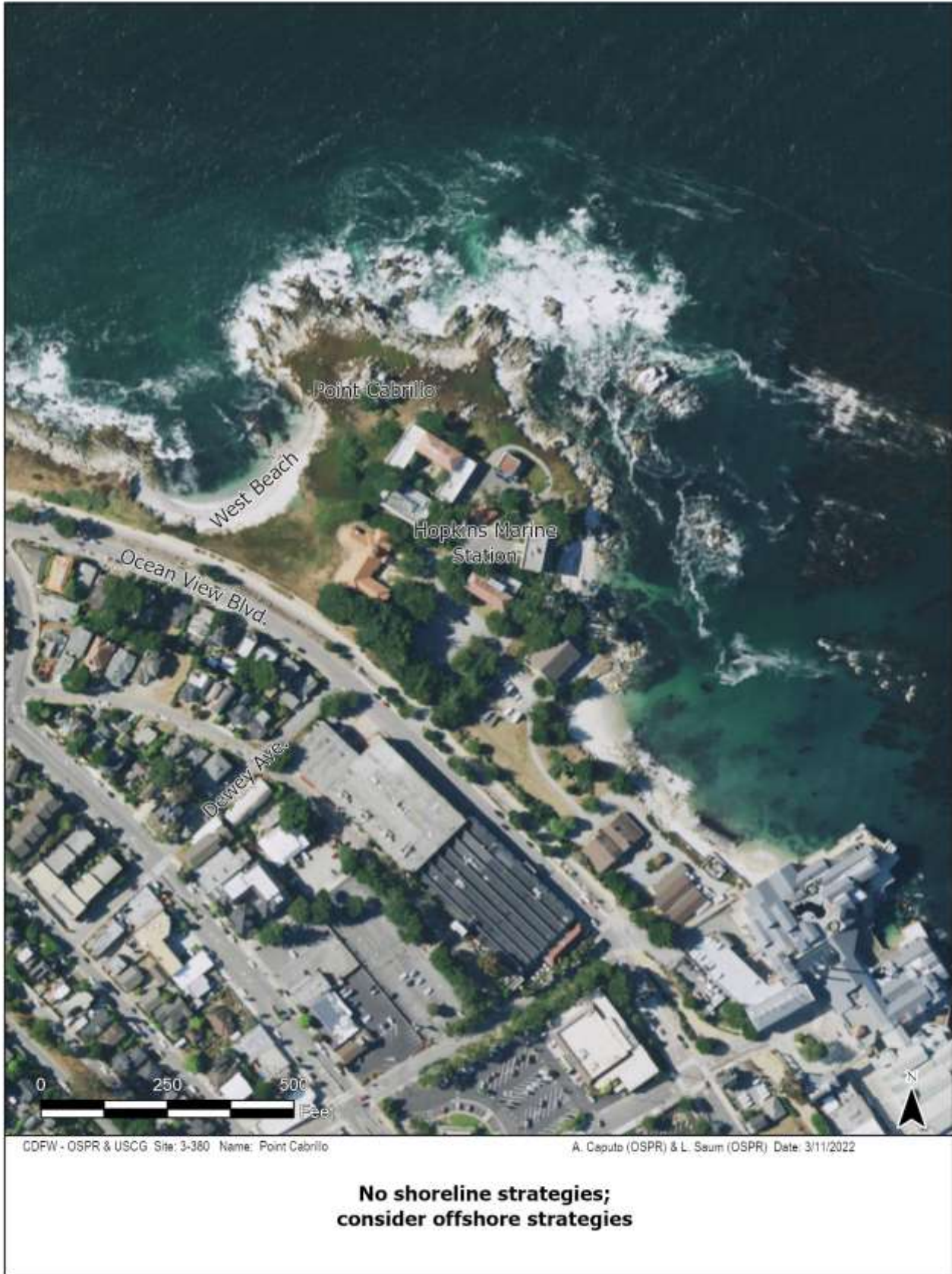
*Directions:* Stanford University Hopkins Marine Station (DeNault Family Research Laboratory, 120 Ocean View Blvd, Pacific Grove, CA 93950); 40 parking spaces.

*Land Access:* Point and adjacent sand pocket beaches are only accessible through Stanford University property. Foot access only to beaches and coastline.

*On-Water Limitations:* Nearest vessel launch site is Monterey Harbor (1 nautical mile).

*Facilities, Staging Areas, Command Posts, Available Equipment:* None.

*Communications Problems:* None.



*County:* Monterey*ACP Division/Segment:* MT - D - S007 MT - E - S001*NOAA Chart:* 18685*Map Book:* 1113*Decimal Degrees:* 36.63745 -121.93576**Site Description:**

Point Pinos is exposed rocky coastline at the northern tip of the Monterey Peninsula. The site boundary begins at Asilomar Ave. and follows Ocean View Blvd. to Jewell Ave. The Asilomar Coastal Trail walking path follows Ocean View Blvd. The Great Tide Pool is located toward Lighthouse Ave. Site upcoast boundary (36.637275°, -121.930248°), downcoast boundary (36.631149°, -121.938021°); length 0.85 miles. Site is within the Pacific Grove Marine Gardens State Marine Conservation Area, Asilomar State Marine Reserve, Pacific Grove Marine Gardens Fish Refuge, Bureau of Land Management California Coastal National Monument, Monterey Bay National Marine Sanctuary, and is a California Area of Special Biological Significance. Black oystercatchers nest on the rocky shoreline. Brown pelicans roost on offshore rocks beyond the point. Sensitive plant species and Northern legless lizard are present within the coastal scrub habitat along the walking path. Oiled birds may seek out Crespi Pond to preen.

**Resources at Risk:***ESI and Habitat:* 5 Mixed sand and gravel beaches

2A Exposed wave-cut platforms in bedrock, mud, or clay

4 Coarse-grained sand beaches

**List of Resources at Risk:**

	Resource Name	Status	Presence	Sensitivity
Birds	seabird colony		Year-round	Apr-Aug
Insects	Smith's blue butterfly	FE	Year-round	
Invertebrates	black abalone	FE	Year-round	Apr-Sep
Mammals	pinnipeds	FP	Year-round	
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	Menzies' wallflower	FE, SE	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Plants	Tidestrom's lupine	FE, SE	Year-round	
Reptiles	Northern legless lizard	SSC	Year-round	Sep-Nov

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

**List of Key Contacts:**

Type	Name/Title	Organization	Phone
C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
T	/Natural Resources Specialist	BLM, CA Coastal National Monument	(831) 582-2200
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

**Additional Site Summary Comments:**

Moderate recreational use.



**Concerns and Advice to Responders:**

Seabird nesting on rocky shoreline. Sensitive plant species and Northern legless lizard are present within the dunes and vegetation along the walking path. Stay on walking paths. Do not disturb vegetation.

**Hazard and Restrictions:****Site Strategies:****Site Validation Level: II**

**Strategy: 3-395.1 Objective:** No Onsite Options: Consider Offshore Containment/Recovery/ART

*Strategy:* Onsite protection is not feasible due to coastline type.

A) Recommended response strategy is on-water containment and recovery.

B) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

**Last Page Update****Logistics:**

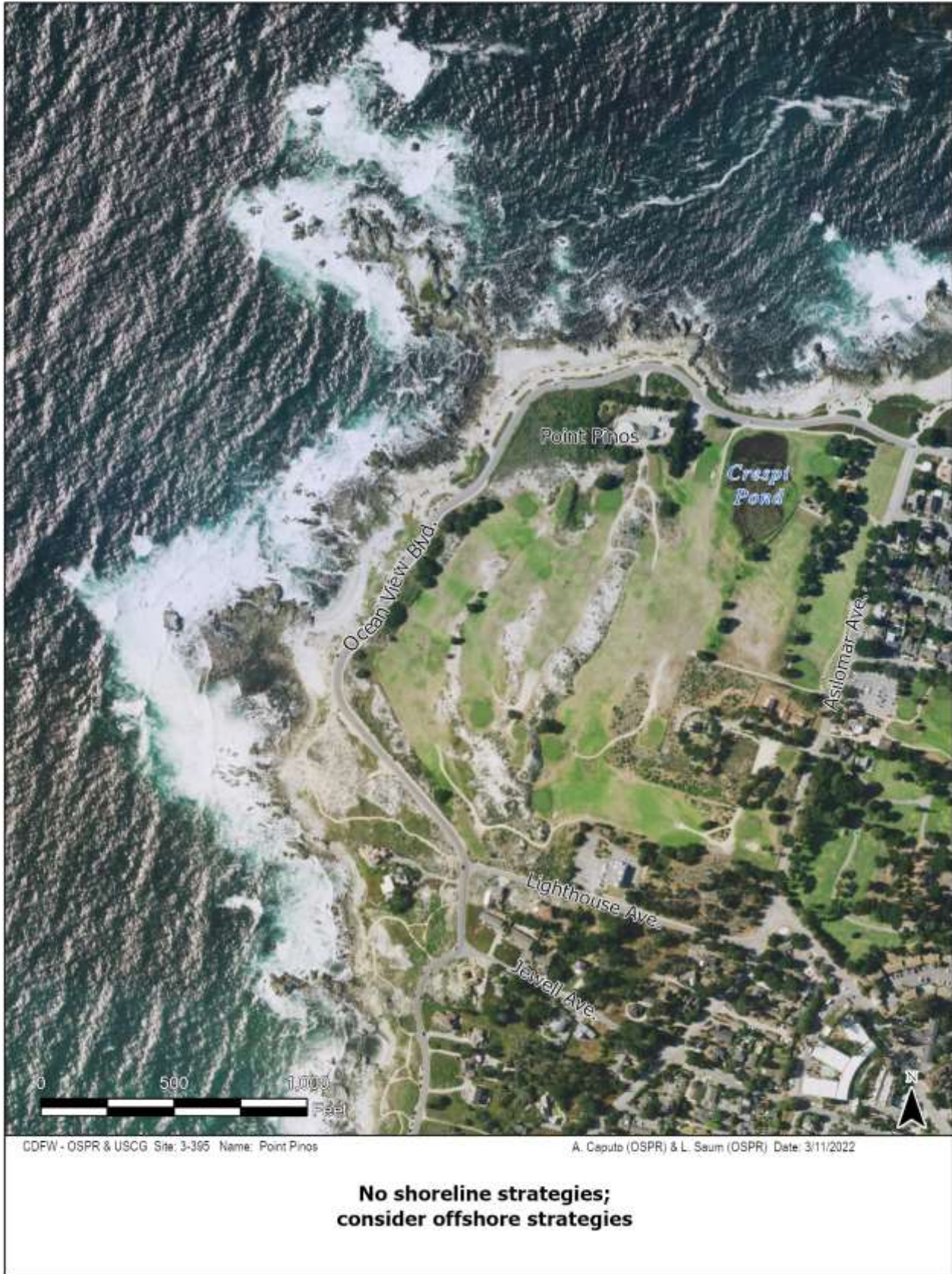
*Directions:* Northern parking: dirt pull out offset from Ocean View Blvd. southbound lane (36.636771°, -121.931639°); 14 parking spaces. Southern parking: shoulder of Ocean View Blvd. southbound lane (36.632941°, -121.937698°); 4 parking spaces. Additional parking on the southbound shoulder and a turnout slightly offset from the southbound lane of Ocean View Blvd; 30 parking spaces in total.

*Land Access:* Coastal access by footpath only. Consistent access to pocket beaches along Asilomar Coastal Trail walking path. Do not disturb coastal vegetation. Several dirt parking areas off Ocean View Blvd. along entire site area with access to walking trail.

*On-Water Limitations:* Nearest vessel launch site is Monterey Harbor (3 nautical miles).

*Facilities, Staging Areas, Command Posts, Available Equipment:* Restroom west of Crespi Pond (36.636699°, -121.933742°).

*Communications Problems:* None.



## **9827.2 Response Summary Tables**

A summary of the response resources is listed by site and sub-strategy next.

## Summary of ACP 3 GRA 3 Response Resources by Site and Sub-Strategy

**Site**      **Site Name**

**Sub-Strategy**      **PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT**

Equipment	Sub-Type	Size/Unit	QTY/Unit
<b>3-301      Zmudowski State Beach</b>			
<b>.1 - No Onsite Options: Consider Offshore Containment/Recovery/ART</b>			
<b>3-305      Moss Landing Harbor</b>			
<b>.1 - Deploy boom to protect Moss Landing North Harbor and Elkhorn Slough.</b>			
Vessel	Skiff or Punt		2
Boom	Sorbent		1800 feet
Anchor	Danforth	43 pound	4
Staff			6
Boom	Harbor		1800 feet
<b>.2 - Deploy boom to protect South Harbor.</b>			
Anchor	Danforth	43 pound	2
Boom	Harbor		1200 feet
Boom	Sorbent		1200 feet
Vessel	Skiff or Punt		2
Staff			4
<b>.3 - Deploy boom for additional protection of North Harbor.</b>			
Vessel	Skiff or Punt		1
Anchor	Danforth	43 pu	2
Boom	Harbor		900 feet
Boom	Sorbent		900 feet
Staff			4
<b>3-310      Elkhorn Slough</b>			
<b>.1 - Deploy boom to contain spill near source.</b>			
Boom	Sorbent		5700 feet
Staff			12
Vessel	Hand-Launchable		2
Vessel	Skiff or Punt		3
Anchor	Shore		5
Anchor	Danforth	43 pound	10
Boom	Harbor		5700 feet
<b>.2 - Deploy boom to protect Elkhorn Slough.</b>			
Staff			6
Boom	Sorbent		1400 feet
Anchor	Danforth	43 pound	4
Anchor	Shore		2
Vessel	Skiff or Punt		2
Boom	Harbor		1400 feet
<b>.3 - Close all water control structures in Elkhorn Slough.</b>			
<b>.4 - Deploy boom to protect Parsons Slough.</b>			
Boom	Harbor		800 feet
Anchor	Danforth	43 pound	4
Vessel	Skiff or Punt		1
Vessel	Hand-carried		1
Staff			4
Boom	Sorbent		800 feet
<b>.5 - Deploy boom to protect marsh areas and side channels.</b>			
Staff			4
Boom	Sorbent		1400 feet
Vessel	Skiff or Punt		2
Boom	Harbor		1400 feet
Anchor	Danforth	43 pound	8
<b>3-325      Salinas River State Beach</b>			
<b>.1 - No Onsite Options: Consider Offshore Containment/Recovery/ART</b>			



**Site Site Name**

**Sub-Strategy PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT**

Equipment	Sub-Type	Size/Unit	QTY/Unit
<b>3-340 Salinas River</b>			
<b>.1 - Build Berm</b>			
Staff			10
Bulldozer or Loader			1
PVC Pipe		6 inch	500 feet
Stakes			2
Boom	Sorbent		300 feet
<b>.2 - Deploy Containment Boom</b>			
Boom	Sorbent		2000 feet
Anchor	Danforth		4
Vessel	Skiff or Punt		1
Boom	Swamp		2000 feet
Staff			5
Stakes			4
<b>3-345 Marina State Beach</b>			
<b>.1 - No Onsite Options: Consider Offshore Containment/Recovery/ART</b>			
<b>3-360 Monterey State Beach and Del Monte Beach</b>			
<b>.1 - No Onsite Options: Consider Offshore Containment/Recovery/ART</b>			
<b>3-370 Monterey Harbor and U.S. Coast Guard Pier</b>			
<b>.1 - Primary booming to exclude oil from harbor entrance.</b>			
Vessel	Boom Boat		2
Misc.	Mooring weights w/ surface buoy		2
Anchor	Danforth	43 pound	7
Boom	Harbor		2400 feet
Staff			6
<b>.2 - Back-up booming to exclude oil from harbor entrance.</b>			
Staff			3
Anchor	Danforth	43 pound	5
Boom	Swamp		2400 feet
Vessel	Boom Boat		1
<b>.3 - Exclude oil from inside wall of U.S. Coast Guard Pier.</b>			
Boom	Swamp		1500 feet
Anchor	Danforth	25 pound	3
Vessel	Boom Boat		1
Staff			3
<b>.4 - Primary booming to exclude oil from outside wall of U.S. Coast Guard Pier.</b>			
Anchor	Danforth	43 pound	3
Staff			6
Vessel	Boom Boat		2
Boom	Harbor		3000 feet
Vessel	Skiff or Punt		1
<b>.5 - Back-up booming to exclude oil from outside wall of U.S. Coast Guard Pier.</b>			
Anchor	Danforth	43 pound	3
Vessel	Boom Boat		2
Vessel	Skiff or Punt		1
Staff			6
Boom	Swamp		3000 feet
<b>.6 - Contain oil from within the harbor.</b>			
Staff			2
Boom	Swamp		800 feet
Anchor	Danforth	25 pound	6
Vessel	Skiff or Punt		1
<b>3-380 Point Cabrillo</b>			
<b>.1 - No Onsite Options: Consider Offshore Containment/Recovery/ART</b>			

*Site*      *Site Name*

Sub-      PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT  
Strategy

Equipment

Sub-Type

Size/Unit

QTY/Unit

**3-395**      *Point Pinos*

.1 - No Onsite Options: Consider Offshore Containment/Recovery/ART

### **9827.3 Lists of Economic Resources Susceptible to Oiling**

A summary of Human Health and Safety Sites and Economic Resources is listed by GRA next. Refer to Section 9804 for more information.

Economic Sites - GRA 3

Site Information	Site Number & Location	Lat/Long & Priority
<p><b>Monterey Bay Aquarium Research Institute</b>                      7700 Sandholdt Rd                      Moss Landing CA 95039                      Phone: (831) 775-1700</p> <p><b>Site Description:</b> Seawater intake, operated by Moss Landing Marine Laboratories Aquaculture Facility.</p>	<p>Site Number: 3-3-MT-100-D                      Operational Division: MT - B</p>	<p>Aquariums and Marine Labs <b>D</b>                      Lat/Long: 36.8017 -121.78796</p>
<p><b>Moss Landing Marine Labs. - Aquaculture B</b>                      7722 Sandholdt Rd                      Moss Landing CA 95039                      Phone: (831) 771-4400</p> <p><b>Site Description:</b> San Jose State University. Seawater intake. Operates the offshore intake that serves many end users in Moss Landing. Utilizes a rapid alert system for all end users.</p>	<p>Site Number: 3-3-MT-105-D                      Operational Division: MT - B</p>	<p>Aquariums and Marine Labs <b>D</b>                      Lat/Long: 36.80112 -121.78883</p>
<p><b>Monterey Bay Seaweeds</b>                      7722 Sandholdt Rd                      Moss Landing CA 95039                      Phone: (831) 224-3444</p> <p><b>Site Description:</b> Seawater intake, operated by Moss Landing Marine Laboratories Aquaculture Facility.</p>	<p>Site Number: 3-3-MT-110-D                      Operational Division: MT - B</p>	<p>Aquaculture and Mariculture <b>D</b>                      Lat/Long: 36.8006 -121.78899</p>
<p><b>Moss Landing Marine Laboratories</b>                      8272 Moss Landing Rd                      Moss Landing CA 95039                      Phone: (831) 771-4400</p> <p><b>Site Description:</b> San Jose State University. Seawater intake, operated by Moss Landing Marine Laboratories Aquaculture Facility.</p>	<p>Site Number: 3-3-MT-115-D                      Operational Division: MT - B</p>	<p>Aquariums and Marine Labs <b>D</b>                      Lat/Long: 36.79445 -121.78666</p>
<p><b>Luminant Moss Landing Power Plant</b>                      7301 CA-1                      Moss Landing CA 95039                      Phone: (831) 633-6700</p> <p><b>Site Description:</b> Natural gas power plant and lithium battery energy storage facility. Seawater intake.</p>	<p>Site Number: 3-3-MT-120-HHS                      Operational Division: MT - B</p>	<p>Human Health and Safety or Critical Infrastructure                      Lat/Long: 36.80502 -121.77856</p>
<p><b>Marina Coast Water District Desalination P</b>                      11 Reservation Rd                      Marina CA 93933                      Phone: (831) 384-6131</p> <p><b>Site Description:</b> Municipal drinking water source. Seawater intake.</p>	<p>Site Number: 3-3-MT-125-HHS                      Operational Division: MT - C</p>	<p>Human Health and Safety or Critical Infrastructure                      Lat/Long: 36.69916 -121.80852</p>
<p><b>Fort Ord Dunes State Park</b>                      Beach Range Rd                      Marina CA 93933                      Phone: (831) 649-2836</p> <p><b>Site Description:</b> California State Parks</p>	<p>Site Number: 3-3-MT-130-D                      Operational Division: MT - C</p>	<p>Parks, Beaches, Recreational Areas <b>D</b>                      Lat/Long: 36.66042 -121.82081</p>
<p><b>Sand City Beach</b>                      501 Tioga Ave                      Sand City CA 93955                      Phone: (831) 755-4895</p> <p><b>Site Description:</b> County of Monterey and private landowner</p>	<p>Site Number: 3-3-MT-135-D                      Operational Division: MT - C</p>	<p>Parks, Beaches, Recreational Areas <b>D</b>                      Lat/Long: 36.62256 -121.84761</p>
<p><b>Monterey One Water Desalination Plant</b>                      293 Mar Vista Dr                      Sand City CA 93955                      Phone: (831) 372-3367</p> <p><b>Site Description:</b> Municipal drinking water source. Seawater intake.</p>	<p>Site Number: 3-3-MT-140-HHS                      Operational Division: MT - C</p>	<p>Human Health and Safety or Critical Infrastructure                      Lat/Long: 36.6153 -121.85343</p>
<p><b>Monterey Abalone Company</b>                      160 Municipal Wharf #2                      Monterey CA 93940                      Phone: (831) 646-0350</p> <p><b>Site Description:</b> Aquaculture under wharf</p>	<p>Site Number: 3-3-MT-145-D                      Operational Division: MT - D</p>	<p>Aquaculture and Mariculture <b>D</b>                      Lat/Long: 36.60563 -121.88942</p>



Economic Sites - GRA 3

Site Information	Site Number & Location	Lat/Long & Priority
<p><b>San Carlos Beach Park</b>                      136 Cannery Row                      Monterey CA 93940                      Phone: (831) 646-3860  <b>Site Description:</b> City of Monterey</p>	<p>Site Number: 3-3-MT-150-D                      Operational Division: MT -D</p>	<p>Parks, Beaches, Recreational Areas <b>D</b>                      Lat/Long: 36.609876 -121.896233</p>
<p><b>MacAbee Beach</b>                      622 Cannery Row                      Monterey CA 93940                      Phone: (831) 646-3860  <b>Site Description:</b> City of Monterey</p>	<p>Site Number: 3-3-MT-155-D                      Operational Division: MT -D</p>	<p>Parks, Beaches, Recreational Areas <b>D</b>                      Lat/Long: 36.61582 -121.8994</p>
<p><b>Monterey Bay Aqaurium</b>                      886 Cannery Row                      Monterey CA 93940                      Phone: (831) 648-4800  <b>Site Description:</b> Seawater intake. Operates the intake that also serves Hopkins Marine Station.</p>	<p>Site Number: 3-3-MT-160-D                      Operational Division: MT -D</p>	<p>Aquariums and Marine Labs <b>D</b>                      Lat/Long: 36.61841 -121.90185</p>
<p><b>Hopkins Marine Station</b>                      120 Ocean View Blvd                      Pacific Grove CA 93950                      Phone: (831) 655-6200  <b>Site Description:</b> Stanford University. Seawater intake, operated by Monterey Bay Aquarium.</p>	<p>Site Number: 3-3-MT-165-D                      Operational Division: MT -D</p>	<p>Aquariums and Marine Labs <b>D</b>                      Lat/Long: 36.62 -121.90433</p>
<p><b>Lover's Point Park and Beach</b>                      618 Ocean View Blvd                      Pacific Grove CA 93950                      Phone: (831) 648-3134  <b>Site Description:</b> City of Pacific Grove</p>	<p>Site Number: 3-3-MT-170-D                      Operational Division: MT -D</p>	<p>Parks, Beaches, Recreational Areas <b>D</b>                      Lat/Long: 36.62532 -121.91661</p>
<p><b>Perkins Park/Shoreline Park</b>                      Beach St and Ocean View Blvd                      Pacific Grove CA 93950                      Phone: (831) 648-3134  <b>Site Description:</b> City of Pacific Grove</p>	<p>Site Number: 3-3-MT-175-D                      Operational Division: MT -D</p>	<p>Parks, Beaches, Recreational Areas <b>D</b>                      Lat/Long: 36.63212 -121.92231</p>