9870 Central Coast Area Committee – Santa Cruz and Monterey Counties

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Central Coast Geographic Sub-Areas and Site Strategy Locations

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Central Coast Geographic Sub-Area 1 and Site Strategy Locations

Scale 1:150 000

0 2.5 5 Kilometers

0 2.5 5 Miles

9871 GRA 1 San Mateo/Santa Cruz County Line to Natural Bridges State Park

9871.1 Sensitive Sites

GRA 1 Map 1

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SITE SUMMARY

SITE: 3-110 (A) Waddell Creek Inlet and Beach

County	Santa Cruz
OSPR Map No.	062
Thomas Guide (2004 Monterey Bay Metro Area) Map #	929
USGS 7.5' Quad	Año Nuevo
Lat./Long.	N37° 05' / W 122° 17'
http://www.californiacoastline.org Image #s	200401153, 200401154, 6401-6404
Directions and access: From Santa Cruz, take Highway 1 north. Access directly from highway, 7.1 miles north of railroad crossing (just north of Davenport). Staging possible in parking lot just north of creek bed.	

SITE DESCRIPTION:
Minor fringing marsh beneath Highway 1 and a well-developed marsh inland of the bridge.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Present are waterfowl (*e.g.*, mallards and scoters), shorebirds (*e.g.*, threatened snowy plovers, sanderlings), and coastal seabirds including the endangered brown pelican. This anadromous stream provides habitat for steelhead trout, tidewater goby (candidate species), Coho salmon (candidate species), and the endangered San Francisco garter snake. Locally rare plant species include *Erysimum franciscanum*, *Agrostis californica*, and *Microserus decepiens*.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Dept. of Parks and Recreation, 24-hr (831) 649-2810
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
Site of Big Basin Redwoods State Park and Waddell Beach (recreational use). Major surfing and wind-surfing area. Across Highway 1 and near fringing marsh is one entrance toBig Basin Redwoods State Park.

SITE PROTECTION STRATEGY

Site: 3-110 (A) Waddell Creek Inlet and Beach

PROTECTION STRATEGY:
Block entrance (area just seaward of Highway 1 bridge) with sediment dike or sand bags; consider laying Texas intertidal boom along top of natural berm to enhance berm integrity. Remove wrack or move to points above high tide influence. Oil must be prevented from flowing under Highway 1 bridge and entering the marsh system. May need to install pipe below berm to allow for water flow.

Note: Sediment may be scarce following severe storms.

COLLECTION POINTS:
On south beach, seaward of sediment dike.

RECOMMENDED RESOURCES:

BOOM:	Some Texas intertidal boom for berm (or if this not available, consider laying two rows of swamp boom instead); some sorbent boom to enhance lagoon protection
SKIMMER:	N/A

INLET SKETCH MAP

Inlet Name WADDELL CREEK INLET, CA.

Recorder(s) MOH/TMM/KM

Date/Time 9 NOV. 1992; 0710

Tide Stage HIGH (0.0836 L45.4); AÑO NUEVO

Inlet Classification D

MODIFIED 28 JUNE 2005 LRE

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

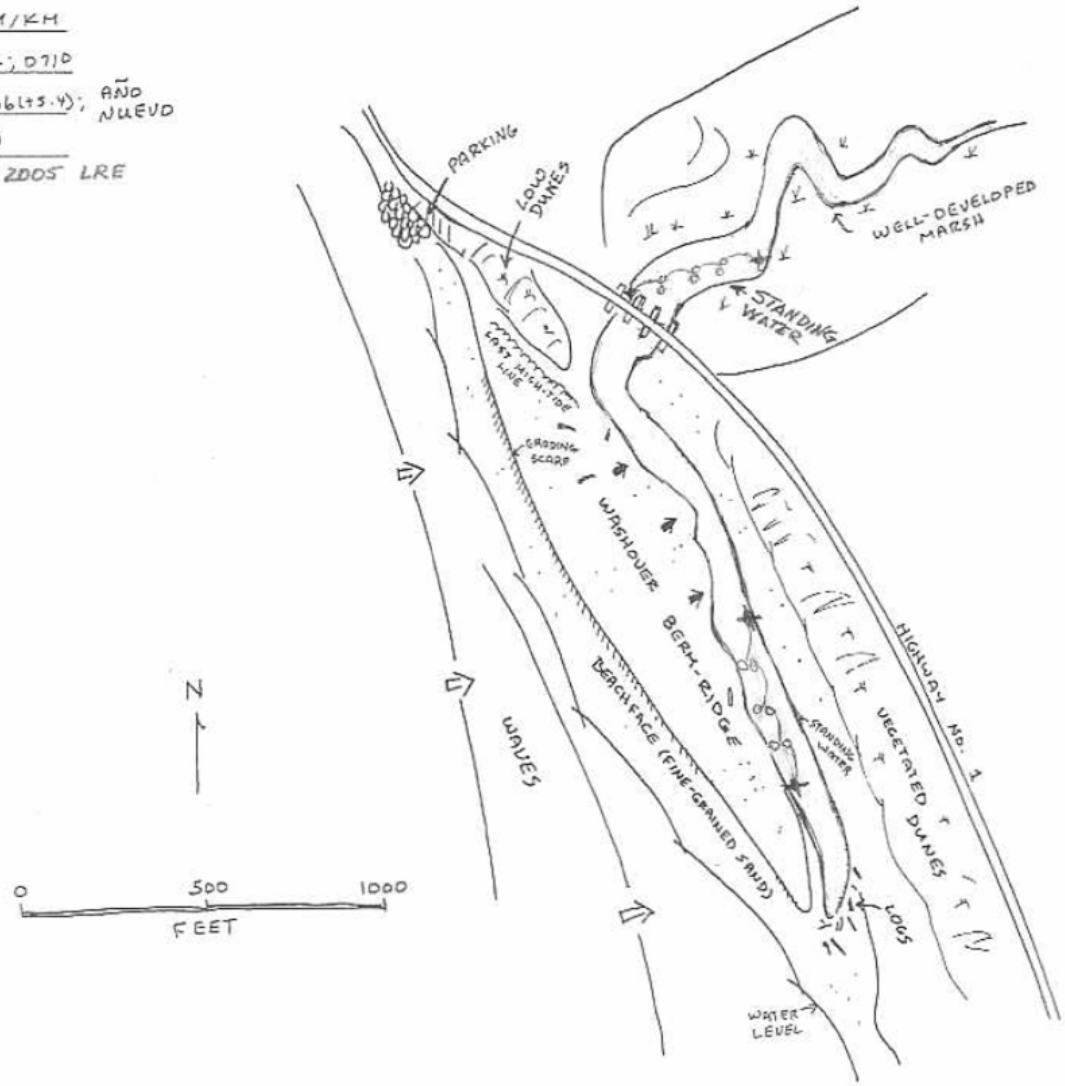
xxxxxxx — Recommended Oil-Catchment Area

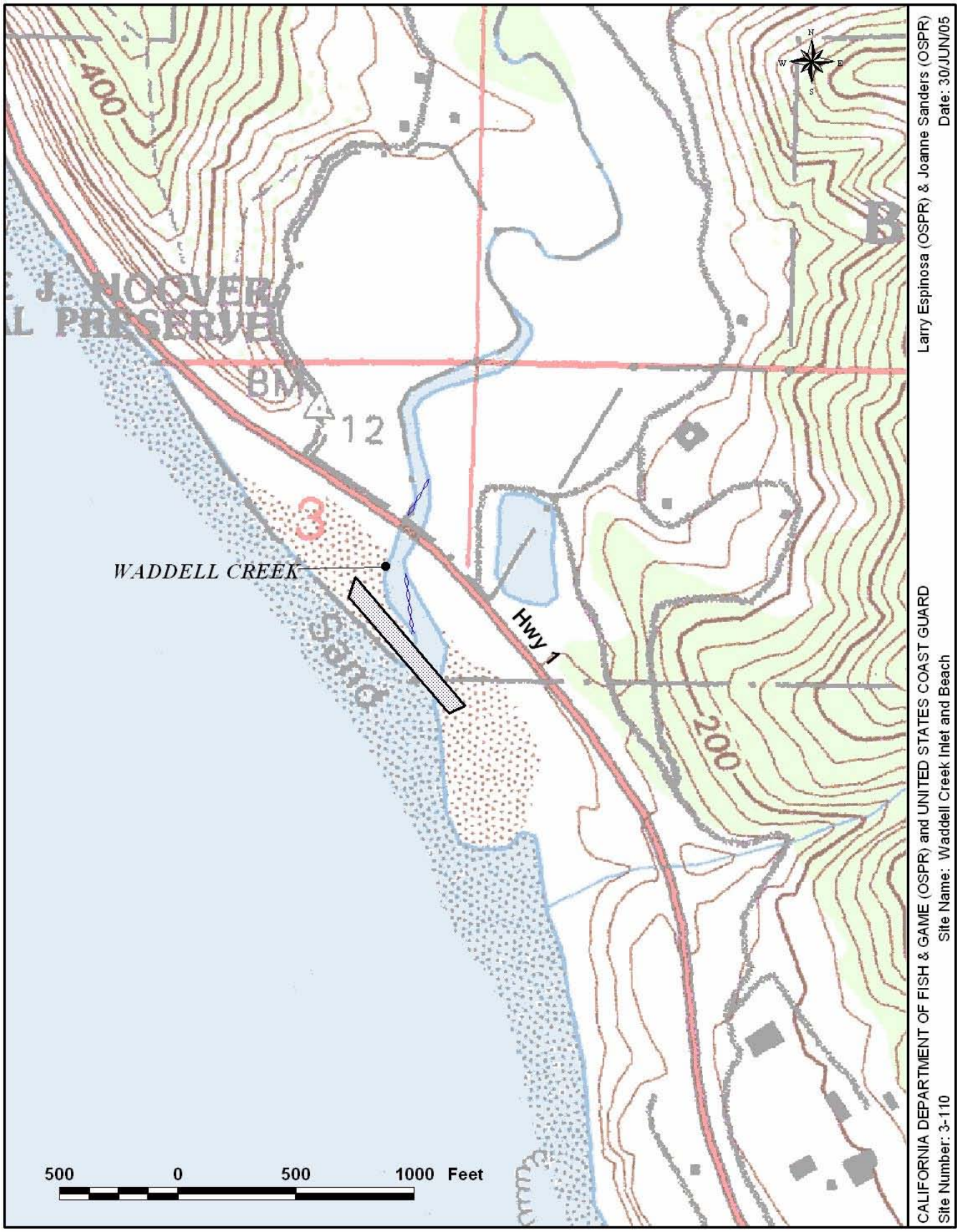
Salt-Water Marsh

Fresh-Water Marsh

High-Tide Overwash Zone

Last High-Tide Swash Line




CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Number: 3-110
Site Name: Waddell Creek Inlet and Beach
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 30/JUN/05
WADDELL CREEK
Hwy 1
Sand
3
BM
12
400
200
500
0
500
1000 Feet

SITE SUMMARY

SITE: 3-115 (B) Greyhound Rock and Inland (West of parking area)

County	Santa Cruz
OSPR Map No.	062
Thomas Guide (2004 Monterey Bay Metro Area) Map #	929
USGS 7.5' Quad	Año Nuevo
Lat./ Long.	N 37° 04' / W 122° 16'
http://www.californiacoastline.org Image #s	200401168
Directions and access: Access off Waddell Creek Beach (see Site 3-110).	

SITE DESCRIPTION:
Offshore rock.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Pacific harbor seal and elephant seal haul-out site. Inland is the locally rare plant *Erysimum fransiscanum*.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Santa Cruz County Open Space and Cultural Services, (831) 454-7900
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
State owned (Department of Fish and Game) - leased by Santa Cruz County. Recreational area.

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SITE SUMMARY

SITE: 3-120 (B) **Pelican Rock and Inland**

County	Santa Cruz
OSPR Map No.	062
Thomas Guide (2004 Monterey Bay Metro Area) Map #	929
USGS 7.5' Quad	Año Nuevo
Lat./ Long.	N 37° 04' / W 122° 16'
http://www.californiacoastline.org Image #s	200401168
Directions and access: Access off Waddell Creek Beach (see Site 3-110).	

SITE DESCRIPTION:
Offshore rock.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Pacific harbor seal and elephant seal haul-out site. Inland is the locally rare plant *Erysimum fransiscanum*.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Santa Cruz County Open Space and Cultural Services, (831) 454-7900
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
State owned (Department of Fish and Game) - leased by Santa Cruz County. Recreational area.

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SITE SUMMARY

SITE: 3-130 (A/B) Scott Creek Inlet and Molino Creek Inlet

County	Santa Cruz
OSPR Map No.	063
Thomas Guide (2004 Monterey Bay Metro Area) Map#	949
USGS 7.5' Quad	Davenport
Lat./ Long.	N 37° 02' / W 122° 14'
http://www.californiacoastline.org Image #s	200401209, 200401211, 6440-6443 (Scott Creek), 6444-6445 (Molino Creek)
Directions and access: Take Highway 1 north from Santa Cruz. Access directly off of highway, 2.3 miles past the railroad crossing (just north of Davenport). ATV & foot access only. Minimal staging area: Roadside parking for 25-30 sedan-sized vehicles. High-speed traffic hazard.	

SITE DESCRIPTION:
Scott Creek: Exposed sandy beach approximately 1 mile long. Small pond/lagoon/marsh behind beach and well-developed marsh inland of Highway 1.
Molino Creek: Small inlet at south edge of Scott Creek beach.

SEASONAL CONCERNS:
Birds and gobies present year round. Moderate to heavy waterfowl use during migratory season.

RESOURCES OF PRIMARY CONCERN:
Shorebirds and coastal seabirds, including endangered brown pelican, snowy plover (threatened), saltmarsh common yellowthroat and tricolored blackbird are all present, as is the San Francisco garter snake (endangered). Tidewater goby (candidate species), native Coho salmon (candidate species) and steelhead trout are found in the creek. Peregrine falcons (endangered) may be present. Plant species of concern (CNPS) within the coastal bluff scrub communities: Michael's piperia (*Piperia michaelii*). Rhinoceros auklets (*Cororhinca monocerata*), a state listed species of special concern, use the northernmost cliffs. Swanton Road is the site of an anadromous fish hatchery.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Monterey Bay Salmon and Trout Project, (831) 458-3095
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121
U.S. Fish and Wildlife Service, (805) 644-1766

REMARKS:
Snowy plover nesting area is a county restoration project, which limits access due to habitat restoration. Swanton Road is the site if the Monterey Bay Salmon and Trout Project (825 Big Creek Road, Davenport, CA 95017. Contact David Streig, 831-458-3095). USFWS will have anadromous fishery interests/concerns.

SITE PROTECTION STRATEGY

Site: 3-130 (A/B) Scott Creek Inlet

PROTECTION STRATEGY:
Block entrance (area seaward of Highway 1 bridge) with sediment dike or sand bags; consider laying Texas intertidal boom along top of natural berm to enhance berm integrity. Remove wrack or move to points above high tide influence. Oil must be prevented from flowing under Highway 1 bridge and entering the marsh system. May need to install pipe below berm to allow for water flow.

COLLECTION POINTS:
On south beach, seaward of sediment dike.

RECOMMENDED RESOURCES:
BOOM: Some Texas intertidal boom (or alternatively, 2 layers of swamp boom) for top of berm.

SKIMMER: N/A

SITE SUMMARY

SITE: 3-140 (C) **Davenport Pier**

County	Santa Cruz
OSPR Map No.	063
Thomas Guide (2004 Monterey Bay Metro Area) Map#	950
USGS 7.5' Quad	Davenport
Lat./ Long.	N 37° 00' / W 122° 12'
http://www.californiacoastline.org Image #s	200401247, 6467
Directions and access:	

SITE DESCRIPTION:
Remnants of old steel pier. Water access only. Steep cliff makes land access difficult or impossible.

SEASONAL CONCERNS:
Species of concern discussed below are present year round. Brandt's cormorants are present year round, and nest February-August (peak egg laying is in April).

RESOURCES OF PRIMARY CONCERN:
Brandt's cormorants roost on these pier pilings and nest February - August (peak egg-laying is in April). Depending on season, consider hazing.

SITE PROTECTION
Consider hazing.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
U.S. Abalone, (831) 457-2700
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
This is the only Brandt's cormorant roosting and nesting area in the County of Santa Cruz.

U.S. Abalone (245 Davenport Landing Road, Santa Cruz, CA 95083, phone 831-457-2700) is north of the Davenport Pier and Davenport Beach. It is a mariculture facility with a 6' diameter concrete fishway and a saltwater intake.

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SITE SUMMARY

SITE: 3-145 (A/B) San Vicente Creek / Davenport Beach

County	Santa Cruz
OSPR Map No.	063
Thomas Guide (2004 Monterey Bay Metro Area) Map#	970
USGS 7.5' Quad	Davenport
Lat./ Long.	N 37° 00' / W 122° 12'
http://www.californiacoastline.org Image #s	200401252, 200401254, 6470, 6471
Directions and access: The small town of Davenport is about 9 miles upcoast from Santa Cruz on Highway 1. San Vicente Creek is at the south edge of Davenport, with Davenport Beach at its mouth. Park along Hwy. 1 for access.	

SITE DESCRIPTION:
Medium to granular sandy beach. Two creek inlets on southern and northern extremes.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Native Coho salmon and steelhead trout migrate upstream and downstream when inlet is open to tidal flow. High populations of sand crabs and isopods on beach.

PROTECTION STRATEGY:
Maintain summertime berm at creek mouths if present, otherwise reestablish with sand bags or equivalent, and allow for water passage (with siphons) if creek flowing.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
Cultural sites located on bluff. Refer to Programmatic Agreement (ACP Appendix).

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SITE SUMMARY

SITE: 3-150 (A/B) Liddell Creek and Bonny Doon Beach

County	Santa Cruz
OSPR Map No.	063
Thomas Guide (2004 Monterey Bay Metro Area) Map#	970
USGS 7.5' Quad	Davenport
Lat./ Long.	N 36° 59.8' / W 122° 11
http://www.californiacoastline.org Image #s	6478, 6479
Directions and access: Liddell Creek crosses Highway 1 about 8 miles north of Santa Cruz on Highway 1. The creek empties at Bonny Doon Beach. Parking is at dirt pull outs along the highway. Can use foot paths to cross railroad tracks and bluff to beach. Farm roads, when dry, may provide some close vehicle access.	

SITE DESCRIPTION:
Sandy beach, across from Bonny Doon Road. Sandy beach surrounded by mud and sandstone cliffs. Creek flowing out of base of eastern face of cliff through man-made tunnel. Marine terraces on north end of beach.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
This area is a migrant bird concentration point and an important resting and feeding area for migrating songbirds and snowy plover (shorebird). Liddell Creek is an anadromous fish stream for steelhead trout. Endangered plant species, *Tanacetum camphoratum*, can also be found. Potential cultural site on bluffs. Beach used by sun-bathers, surfers, and surf fishermen.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Private Ownership
Trust for Public Land, (415) 495-5660
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
Bonny Doon Beach is a recreation area.

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SITE SUMMARY

SITE: 3-155 (A/B) Yellow Bank Creek and Beach, Panther Beach

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	970
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	Yellow Bank Beach: N 36° 59.5' / W 122° 10.9' Panther Beach: N 36° 59.2' / W 122° 10'
http://www.californiacoastline.org Image #s	Yellow Bank Beach: 6482 Panther Beach: 7219119
Directions and access: Approximately 7 ¼ miles north of Santa Cruz on Highway 1, Yellow Bank Creek empties to the ocean at both Yellowbank and Panther Beaches. Yellowbank Beach is the smaller portion of the beach upcoast of the creek mouth. Panther Beach is downcoast of the mouth, and is broader and longer than Yellowbank Beach. Roadside parking, access by crossing tracks and bluff down to beach. Nearby farm roads may provide some vehicle access.	

SITE DESCRIPTION:
Main beach (Yellow Bank) is 100 yards long by 70 yards wide separated by Yellow Bank Creek and a small rock archway from another long, narrow beach (Panther Beach) to the south. Panther Beach is only accessible at low to medium tides. Marsh at mouth of Yellow Bank Creek and sea cave 0.4 miles SSE of marsh.

SEASONAL CONCERNS:
Species of concern discussed below are present year round. This is a **B** priority during summer months (*i.e.*, during periods of low or no flow, or lower tides).

RESOURCES OF PRIMARY CONCERN:
Black swift (DFG species of special concern, NDDB). Michael's piperia (*Piperia michaelii*, a CNPS plant species of concern) exists in the coastal scrub community. Steelhead trout present during high-flow periods.

PROTECTION STRATEGY:
Maintain summertime berm at creek mouth if present, otherwise reestablish with sand bags or equivalent, and allow for water passage (with siphons) if creek flowing.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Private Ownership
Trust for Public Land, (415) 495-5660
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
Black swift nest in a sea cave in a rocky coastal cliff (elev. 20 ft). Pair was observed gathering *Enteromorpha* algae from intertidal zone and carrying it to nest site (NDDB). Last seen 1988. Recreation areas.

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SITE SUMMARY

SITE: 3-160 (A/B) Laguna Creek Inlet & Beach

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	970
USGS 7.5' Quad	Davenport
Lat./ Long.	N 36° 58.8' / W 122° 09.7'
http://www.californiacoastline.org Image #s	6493, 7220006
Directions and access: From Santa Cruz, take Highway 1 about 6 ½ miles north. Pass the Baldwin Creek and Majors Creek Inlets. Walk up the hill and cross over the railroad tracks. May be able to access beach by ATV over the dune, although the route is very steep. Otherwise, access by foot only.	

SITE DESCRIPTION:
Laguna Creek is a deep pocket beach in summer with a natural berm six to eight feet high protecting the creek inlet, which is at north end of beach. The creek meanders around the base of a cliff that surrounds the beach, & exits at the south end of beach. The natural creek passage to the beach is through a hole cut through the cliff. The area becomes a wave-cut platform in winter. If sand is present, high winter flows may cause the creek to breach the berm. Oil may not reach creek mouth or marsh because the creek passes through a hole in the cliff. Even with heavy beach erosion in winter, oil may not reach the creek inlet.

SEASONAL CONCERNS:
Birds are present year round; steelhead trout may be present in winter, spring and fall.

RESOURCES OF PRIMARY CONCERN:
Coastal sea birds include brown pelicans (endangered); abundant shorebirds include western snowy plover (threatened). The federally listed rare San Francisco tree lupine
moth may be found in the coastal scrub plant community. Blasdale's bent grass (*Agrostis blasdalei*) and Michael's piperia (*Piperia michaelii*) are plant species in the bluff scrub community.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Private ownership, County owns easement
Trust for Public Land, (415) 495-5660
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
Laguna Creek Beach is a recreation area.

SITE PROTECTION STRATEGY

Site: 3-160 (A/B) Laguna Creek Inlet and Beach

PROTECTION STRATEGY:
Close off the overwashed inlet mouth with a sediment dike (medium-grained sand) or sand bags as appropriate.

COLLECTION POINTS:
On south beach, seaward of sediment dike. NOTE: No vehicle access to collection area.
Personnel can access inlet area by steep sand hill near railroad tracks.

RECOMMENDED RESOURCES:
BOOM: N/A
SKIMMER: N/A

INLET SKETCH MAP

LAGUNA CREEK

Inlet Name INLET, CA.

Recorder(s) MOH/TMM/KM

Date/Time 8 NOV. 1992; 1720

Tide Stage LOW @ 1500 (-0.2); AÑO NUEVO

Inlet Classification D

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

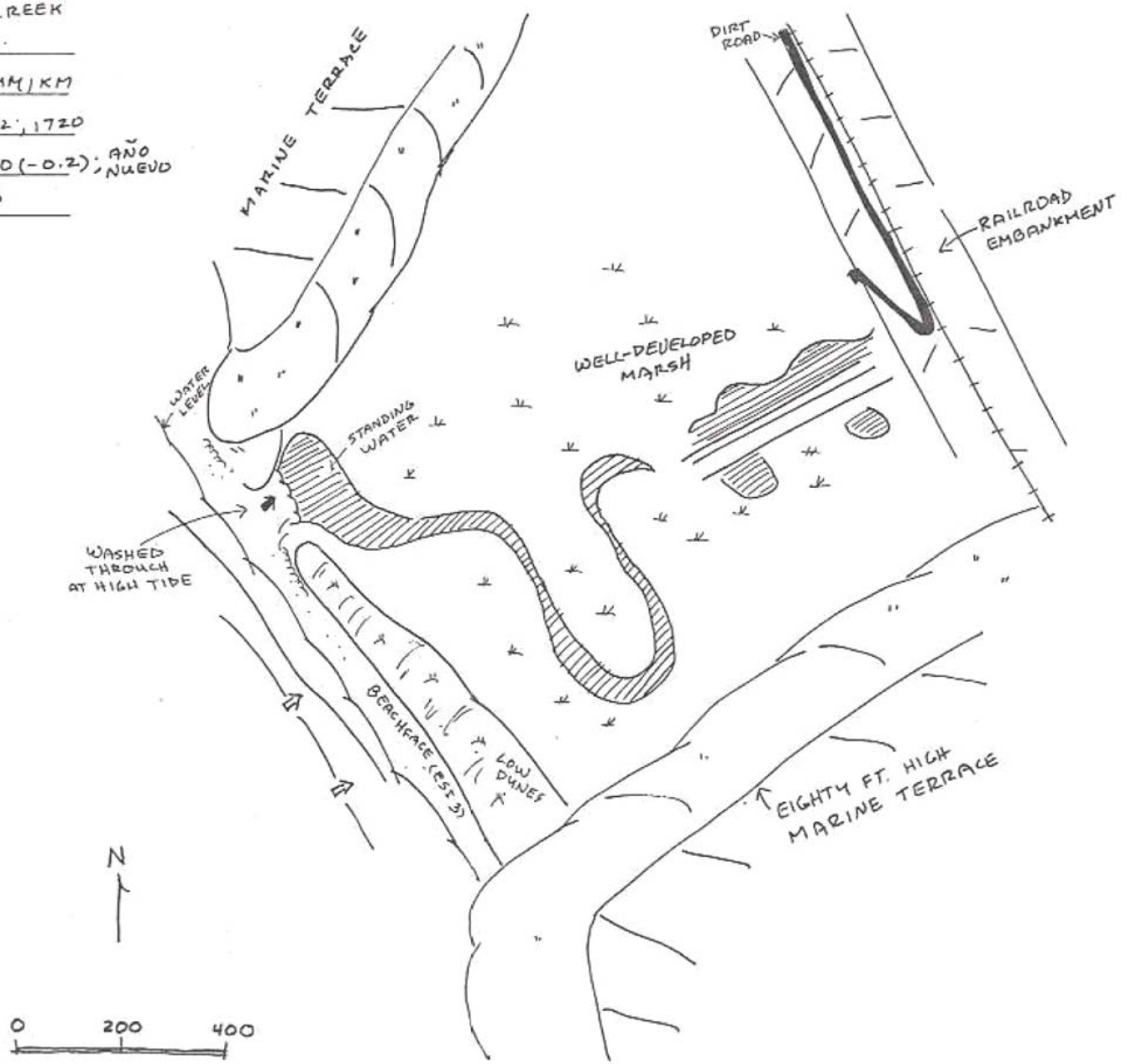
xxxxxxx — Recommended Oil-Catchment Area

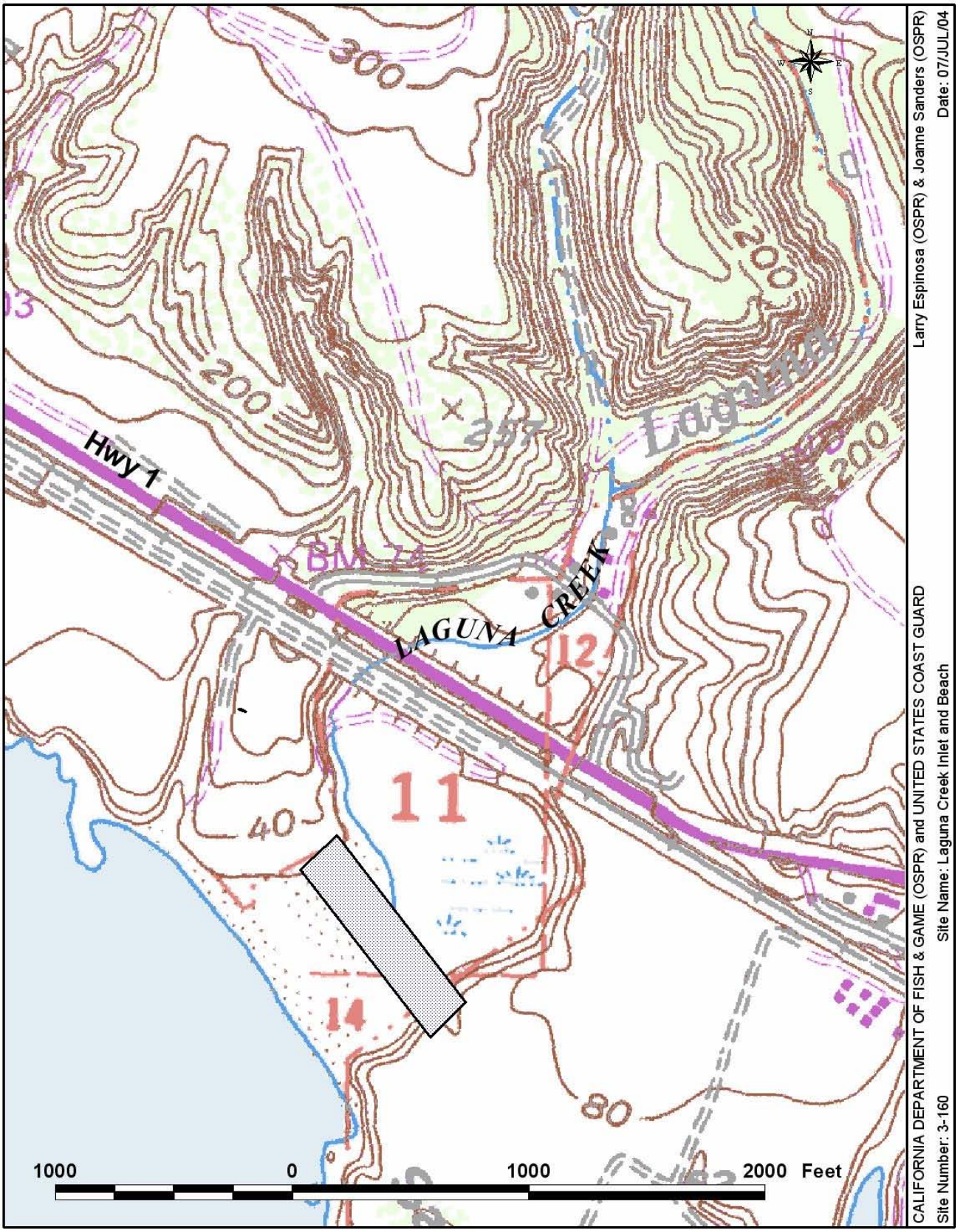
Salt-Water Marsh

Fresh-Water Marsh

High-Tide Overwash Zone

Last High-Tide Swash Line




300
200
200
200
357
Laguna
Hwy 1
BM 74
LAGUNA CREEK
12
11
40
14
80
1000
0
1000
2000 Feet
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Name: Laguna Creek Inlet and Beach
Site Number: 3-160
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 07/JUL/04

SITE SUMMARY

SITE: 3-165 (A/B) Majors Creek Inlet / Red, White and Blue Beach

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	970, 971
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 35° 58' / W 122° 08.9'
http://www.californiacoastline.org Image #s	200401306, 200401304
Directions and access: Access road to beach is private. From Santa Cruz, take Highway 1 north, past Wilder Creek and Baldwin Creek. Turn left on first road past Coast Road (approximately 1 mile). Cross the railroad tracks and turn left onto dirt road paralleling railroad tracks. Turn right onto dirt road with yellow closure bar/gate. Continue onto farm field skirting road. Access for personnel only. Vehicles can be driven to within 1/4 mile of inlet mouth. On south beach, seaward of sediment dike. NOTE: there is no entrance point for heavy equipment.	

SITE DESCRIPTION:
Majors Creek Inlet, also called Red, White, and Blue Beach. Medium/coarse sandy grain beach. Creek empties on west side of the beach. Washover terrace present and modest marsh in channel behind beach. Private access/campground.

SEASONAL CONCERNS:
Birds present year round; steelhead trout present winter, spring and fall.

RESOURCES OF PRIMARY CONCERN:
Coastal sea birds including brown pelicans (endangered) and cormorants. Black swift (CDFG species of special concern). Sea otters may be present. Steelhead trout in creek. There is a locally rare plant, *Erysimum fransicanum* in the area.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Private Ownership for Red/White/Blue Beach, Owner Edwards
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121
California Department of Parks and Recreation, 24 hour (831) 649-2810

REMARKS:
Private access. Campground. Black swift nest (elevation 20 ft.) located in seacave in a rocky coastal cliff above "second cave" in SE side of Sand Hill Bluff. Nest built of *Enteromorpha* algae (NDDB). Red, White and Blue Beach is a recreation area (nude beach).

SITE PROTECTION STRATEGY

Site: 3-165 (A/B) Majors Creek Inlet and Red, White and Blue Beach

PROTECTION STRATEGY:
Close off inlet with sediment dike (medium-grain sand) or appropriate equivalent.

COLLECTION POINTS:
Access for personnel only. Vehicles can be driven to within 1/4 mile of inlet mouth. On south beach, seaward of sediment dike. NOTE: there is no entrance point for heavy equipment.

SITE SUMMARY

SITE: 3-170 (A/B) Baldwin Creek Inlet / Four Mile Beach / Wilder Ranch

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	971, 991
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 57.7' / W 122° 07.7'
http://www.californiacoastline.org Image #s	6513, 6514, 6515, 6516
Directions and access: Access is difficult. From Santa Cruz, take Highway 1 north (toward Half Moon Bay), approximately 4 miles. Turn left onto Coast Road. Turn at your first right into private driveway (5515 Coast Road). Cross railroad tracks and turn left onto dirt road. Veer right into farm field and turn right onto field skirting road. Drive approximately 1/4 mile. Inlet is on the right. NOTE: Farm roads are soft plowed dirt.	

SITE DESCRIPTION:
Medium/coarse sandy beach. Heavily used by surfers. Modest marsh in channel behind beach. Northern boundary of Wilder Ranch, common name - Four Mile Beach.

SEASONAL CONCERNS:
Year round.

RESOURCES OF PRIMARY CONCERN:
Coastal sea birds including brown pelicans (endangered), cormorants, and snowy plover. Sea otters may be present. Tidewater goby (candidate for federal listing) and steelhead trout in the creek (NDDB).

TRUSTEE AGENCY/MANAGER/LOCAL EXPERT:
California Department of Parks and Recreation, 24 hour (831) 649-2810
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
Gobies last seen in 1984. Possibly extirpated. None observed in 1990, possibly due to drought.

Four-Mile Beach is part of Wilder Ranch State Park. Major surfing area.

SITE PROTECTION STRATEGY

Site: 3-170 (A/B) Baldwin Creek Inlet / Four Mile Beach/ Wilder Ranch

PROTECTION STRATEGY:
Close off inlet with sediment dike (medium-grained sand) or appropriate equivalent. Note: Sand may be scarce during erosion episodes.

COLLECTION POINTS:
On south beach, seaward of sediment dike.

RECOMMENDED RESOURCES:
BOOM: N/A
SKIMMER: N/A

SITE SUMMARY

SITE: 3-175 (A) Wilder Creek Inlet and Beach

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	991
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 56.8' / W 122° 04.9'
http://www.californiacoastline.org Image #s	580
Directions and access: Access is difficult**.** From Santa Cruz, take Highway 1 north (toward Half Moon Bay). Turn left at Wilder Ranch State Park. Follow this road to the park Headquarters and ask for further access directions. Areas around beach are high cliffs with few, if any, trails down to the beach.	

SITE DESCRIPTION:
Modest marsh in channel behind beach.

SEASONAL CONCERNS:
Year round.

RESOURCES OF PRIMARY CONCERN:
Wilder Creek Natural Preserve. Coastal sea birds including brown pelicans (endangered) and cormorants; shore birds including western snowy plovers (threatened), one of the largest populations in the state. Snowy plover nesting area. Sea otters may be present. Steelhead trout.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24 hour (831) 649-2810
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
Emergency access only. Contact Trustee.

Recreation area.

SITE PROTECTION STRATEGY

Site: 3-175 (A) Wilder Creek Inlet and Beach

PROTECTION STRATEGY:
Close off inlet with sediment dike (medium-grained sand) or appropriate equivalent. Note: Sand may be scarce during erosion episodes.

COLLECTION POINTS:
On south beach, seaward of sediment dike.

RECOMMENDED RESOURCES:
BOOM: N/A
SKIMMER: N/A

SITE SUMMARY

SITE: 3-180 (A/B) Offshore Rock N of Terrace Pt

County	Santa Cruz
OSPR Map No.	063
Thomas Guide (2004 Monterey Bay Metro Area) Map#	991
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 56.7' / W 122° 04'
http://www.californiacoastline.org Image #s	6552, 6553
Directions and access: Take Highway 1 north/Mission Street through west Santa Cruz. Jus before exiting Santa Cruz, turn left on Swift Street. Take Swift to Delaware and turn right on Delaware. Continue on Delaware to Long Marine Lab property (road name changes to Shaffer Road). Terrace Point has many research institutions, including Long Marine Lab (at end of Shaffer Road). Offshore Rock visible from end of Terrace Point, but access by boat only (launching at Santa Cruz harbor).	

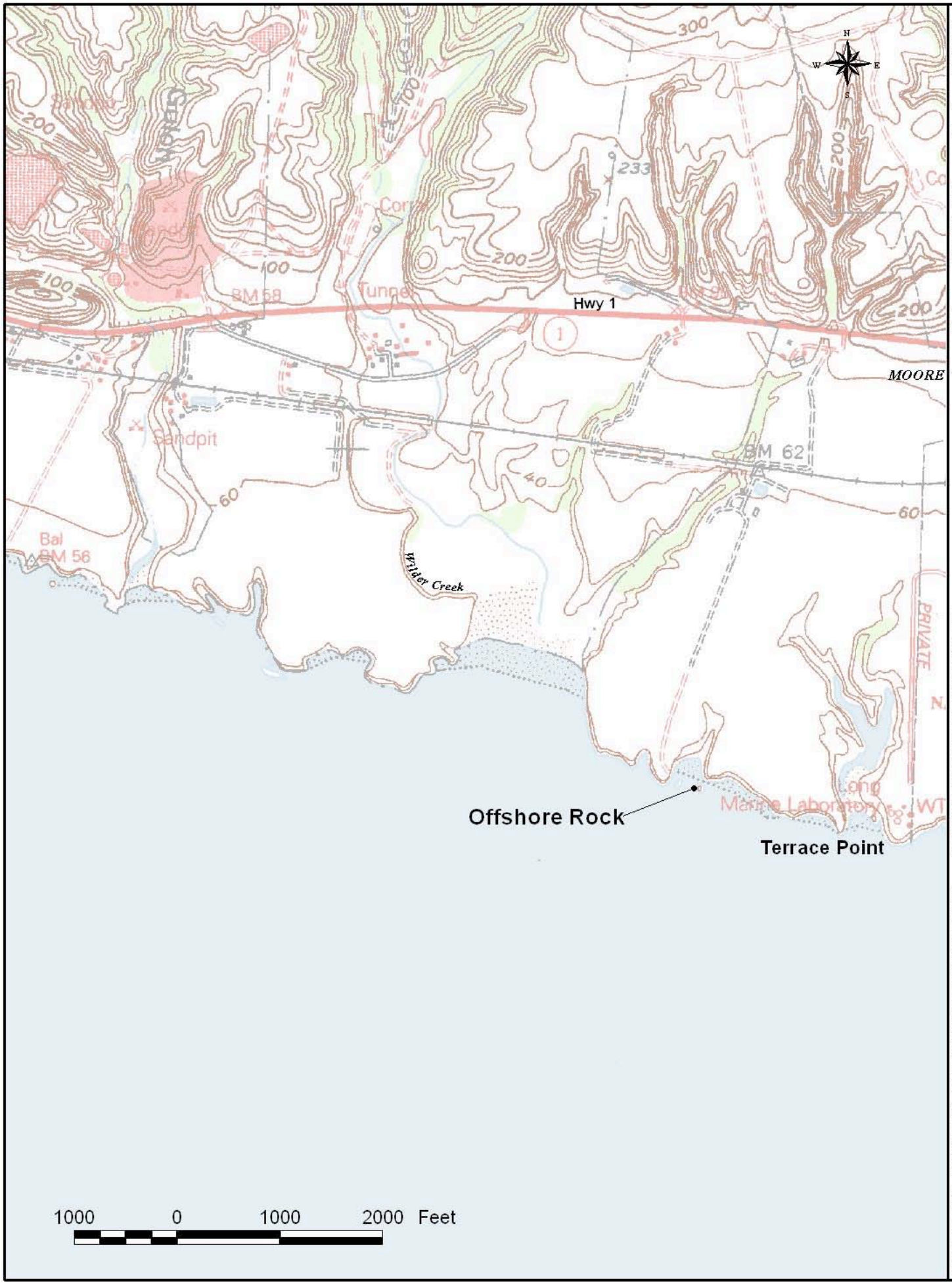
SITE DESCRIPTION:
Offshore rock with moderate- to high-energy ocean waves.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
This is a haulout for moderate numbers of California sea lions.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24 hour (831) 649-2810
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
None



CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD

Site Number: 3-180 Site Name: Offshore Rock, north of Terrace Point

Larry Espinosa (OSPR) & Joanne Sanders (OSPR) Date: 16/SEPT/05

SITE SUMMARY

SITE: 3-185 (A/B) Terrace Point / Younger Lagoon

County	Santa Cruz
OSPR Map No.	063
Thomas Guide (2004 Monterey Bay Metro Area) Map#	991
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 56.7' / W 122° 04'
http://www.californiacoastline.org Image #s	6552, 6553
Directions and access: Directions and access: Take Highway 1 north/Mission Street through west Santa Cruz. Jus before exiting Santa Cruz, turn left on Swift Street. Take Swift to Delaware and turn right on Delaware. Continue on Delaware to Long Marine Lab property (road name changes to Shaffer Road). Terrace Point has many research institutions, including Long Marine Lab (at end of Shaffer Road). Personnel at Long Marine Lab can guide access to Younger Lagoon.	

SITE DESCRIPTION:
Coarse sandy beach protects lagoon. Bar is known to breach during sufficient rainfall events each year (three times in 1993 and once in1994). Moderate-size dunes present.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Shorebirds and coastal seabirds. Local breeding cormorants known to roost on cliff. Lagoon heavily used by waterfowl.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Long Marine Laboratories (LML) (831) 459-2883 (admin)
Dr. Gary Griggs, Director LML (831) 459-2464
Dr. Dave Jessup, OSPR Marine Wildlife Veterinary Care and Research Center (831) 469-1726
Brian Walton, Oiled Wildlife Care Network (831) 588-3884, (831) 459-2466 (general)
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
Lagoon and surrounding area managed by the University of California. Long Marine Lab (and other agencies/facilities on Terrace Point) use LML saltwater intake and discharge lines. Captive marine mammals present in facilities. In addition to Long Marine Laboratories, this is also the site of CDFG/OSPR Marine Wildlife Veterinary Care and Research Center (MWVCRC), Predatory Bird Research Group, National Marine Fisheries Service, and Seymour Discovery Center. Oiled bird and mammal care in facilities at Terrace Point. Contact Gary Griggs (831-459-2883 [LML] and Dr. Dave Jessup 831-469-1728 [MWVCRC]).

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SITE SUMMARY

SITE: 3-190 (A/B) Moore Creek / Natural Bridges State Park

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	991, 992
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 56.8' / W 122 03.56'
http://www.californiacoastline.org Image #s	587, 6561, 6562
Directions and access: Take Highway 1 north/Mission Street through west Santa Cruz. Just before exiting Santa Cruz, turn left on Swift Street. Take Swift to Delaware and turn right on Delaware. Turn left on Swanton Blvd., and then right at Crespi Court to enter Natural Bridges State Park. Moore Creek provides very light/seasonal flow at upcoast edge of park, but does not usually flow to ocean.	

SITE DESCRIPTION:
Natural Bridges Beach State Park/Moore Creek. Sandy beach and sand-stone bluffs. Rocky platforms located at southwest and arch rock formation on east corner. Moore Creek drains into small marsh on west side, creek mouth to 0.25 mile upstream. Rocky intertidal region adjacent to beach. Resident dwellings nearby.

SEASONAL CONCERNS:
Year round.

RESOURCES OF PRIMARY CONCERN:
Western snowy plovers (threatened), brown pelicans (endangered), black swifts (CDFG species of special concern), and tidewater goby (candidate for federal listing).

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
High recreation use. Black swift nest in sea cave in a rocky coastal cliff (elevation 20 ft.); last seen 1988 (NDDB). Gobies possibly extirpated. None observed in 1990 possibly due to drought (NDDB). Nearby Monarch butterfly site.

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9871.2 Cultural, Historical, Archeological & Economic Resources

For general information about cultural, historical and archeological resources, and the **Programmatic Agreement on Protection of historic properties during emergency response under the national oil and hazardous substances pollution contingency plan**, please refer to section 9802.1. The table below lists the cultural, historical, archaeological and economic resources for this Geographic Response Area.

Central Coast Geographic Response Area 1

San Mateo/Santa Cruz County line to Natural Bridges State Park

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Includes all of this Geographic Sub-Area		E	Monterey Bay National Marine Sanctuary 299 Foam Street, Monterey, CA 93940	Superintendent (831) 647-4201 (831) 647-4260 FAX	N
Lat: 37° 06' 26'' N to 36° 56' 53" N		D	Commercial Fishing Grounds (salmon, rockfish, sole, squid, albacore, etc.)	Santa Cruz Fisherman's Marketing Association P.O. Box 2975 Santa Cruz, CA 95062 Tom Canale -- President (831) 426-3640	N
Waddell Creek Inlet	3-110	E	Big Basin Redwoods State Park Recreational area	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Waddell Beach	3-110	E	Waddell Creek State Beach Recreational area Major surfing and wind-surfing area Parking area nearby that can provide beach access	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Greyhound Rock and inland	3-115	E	Greyhound Rock Beach Recreational area Access off Waddell Creek Beach (Dept. of Fish and Game owns the land but leases it to Santa Cruz County Open Spaces and Cultural Services)	Santa Cruz County Open Space and Cultural Services (831) 454-7900 Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Scott Creek Inlet and Molino Creek Inlet	3-130	D	Monterey Bay Salmon and Trout Project 825 Big Creek Road Davenport, CA 95017 Swanton Road is the site of the hatchery. USFWS will have anadramous fishery interests/concerns.	David Streig (831) 458-3095 Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours) USFWS (805) 644-1766	N

Central Coast Geographic Response Area 1, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Davenport Pier (Davenport Landing Road)	3-140	D	U.S. Abalone 245 Davenport Landing Road P.O. Box 2184 Santa Cruz, CA 95083 Mariculture facility 6' diameter concrete fishway Saltwater intake	Dave Ebert (831) 457-2700	N
Davenport Pier, San Vicente Creek, and Davenport Beach	3-140 (for Davenport Pier) 3-145 (for San Vicente Creek/Davenport Beach)	E	Davenport Landing Beach Recreational area	Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Liddell Creek and Bonny Doon Beach	3-150	E	Bonny Doon Beach Recreational area	Trust for Public Land (415) 495-5660 Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Yellowbank Creek and Beach	3-155	E	Yellowbank Beach Recreational area	Trust for Public Land (415) 495-5660 Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Panther Beach	3-155	E	Panther Beach Recreational area	Trust for Public Land (415) 495-5660 Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Majors Creek Inlet & Red, White and Blue Beach	3-165	E	Red, White and Blue Beach Recreational area	Private ownership (beach and campground); Owner Edwards. Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours) CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N

Central Coast Geographic Response Area 1, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Baldwin Creek Inlet, Four Mile Beach, and Wilder Ranch	3-170	E	4-Mile Beach (part of Wilder Ranch State Park) Major surfing area	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Wilder Creek Inlet and Beach	3-175	E	Wilder Ranch State Park Recreation area	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Terrace Point	3-185	D	Long Marine Laboratories (LML) University of California, Santa Cruz Santa Cruz, CA 95064 Saltwater intake and discharge lines; Research Facility (including captive marine mammals); Seymour Discovery Center	Dr. Gary Griggs, Director (831) 459-2464 Long Marine Labs (admin) (831) 459-2883	N
Terrace Point	3-185	D	Office of Spill Prevention and Response Marine Wildlife Veterinary Care and Research Center 1451 Shaffer Road Santa Cruz, CA 95064 Uses saltwater intake and discharge lines of LML; Research facility; Oiled wildlife care	Dr. Dave Jessup (831) 469-1726 (831) 469-1723 (FAX) Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	Y
Terrace Point	3-185	D	Oiled Wildlife Care Network Predatory Bird Research Group (Proposed new facility) Uses saltwater intake and discharge lines of LML; Research facility; Oiled bird care	Brian Walton (831) 588-3884 Oiled Wildlife Care Network Predatory Bird Research Group (831) 459-2466	N

9871.21 Other Resources and Species of Concern

Wildlife in Santa Cruz and Monterey Counties is abundant and diverse. Offshore waters serve as migratory corridors for several whale species. Nearshore waters and coastal marshes are critical components of the Pacific Flyway. Local streams and lagoons support spawning runs of salmon and steelhead. Special status species include southern sea otters, snowy plovers, and brown pelicans.

Both Monterey and Santa Cruz Counties lie within the Monterey Bay National Marine Sanctuary, an indication of the high non-market values placed on living natural resources and their habitats.

Coastal waters support intensive commercial fishing efforts. To counterbalance fishing effort and to not only protect but enhance fish populations, recent state and federal legislation has been signed into law that directs fisheries management agencies to establish Marine Protected Areas. When defined, those new areas will be noted in future revisions of the ACP.

The Monterey Bay Aquarium is a focal point of tourist interest. Sport fishing, SCUBA diving, kayaking and whale-watching are but a few of the many tourist activities dependent upon healthy and abundant wildlife populations.

Monterey Bay is home to several academic and private research institutions, which are home to world-class investigations on a broad spectrum of marine science. These facilities include Long Marine Laboratory (University of California at Santa Cruz), Moss Landing Marine Laboratory (California State University), Monterey Bay Aquarium Research Institute, and Hopkins Marine Station (Stanford University). California State University, Monterey Bay also has an active teaching program and research efforts focused on marine science.

These remarks apply to all GRAs within the area covered by the Central Coast Area Contingency Plan (ACP3).

9871.22 Essential Fish Habitat

Please see Section 9801.2 for a discussion of this topic.

9871.3 Operational Divisions

Operational Divisions do not necessarily correspond to GRA boundaries. Instead, they reflect a subdivision of Santa Cruz and Monterey county coastline that will enable the Operations Section of the Unified Command to make reasonable crew assignments for effective response. They are presented here, on two maps, one for each county. Specific spill responses may cause alterations of these suggested boundaries.

Please note the Elkhorn Slough Geographic Response Plan (Site 3-310) also contains Operational Divisions, which should be considered subdivisions of the open coast Divisions.

ACP 3 OPERATIONAL DIVISIONS

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9872 GRA 2 Point Santa Cruz to Pajaro River

9872.1 Sensitive Sites

GRA 2 Map 1

Site 3-200 (B) Point Santa Cruz/Lighthouse Field State Beach 3
Site 3-205 (A) Santa Cruz Municipal Wharf/Santa Cruz Beach.....5
Site 3-210 (A) San Lorenzo River Inlet 7
Site 3-220 (B) Santa Cruz Harbor entrance 11
Site 3-230 (A/B) Schwans Lagoon Inlet.....15
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9872.22 Essential Fish Habitat

9872.3 Shoreline Operational Divisions.....1

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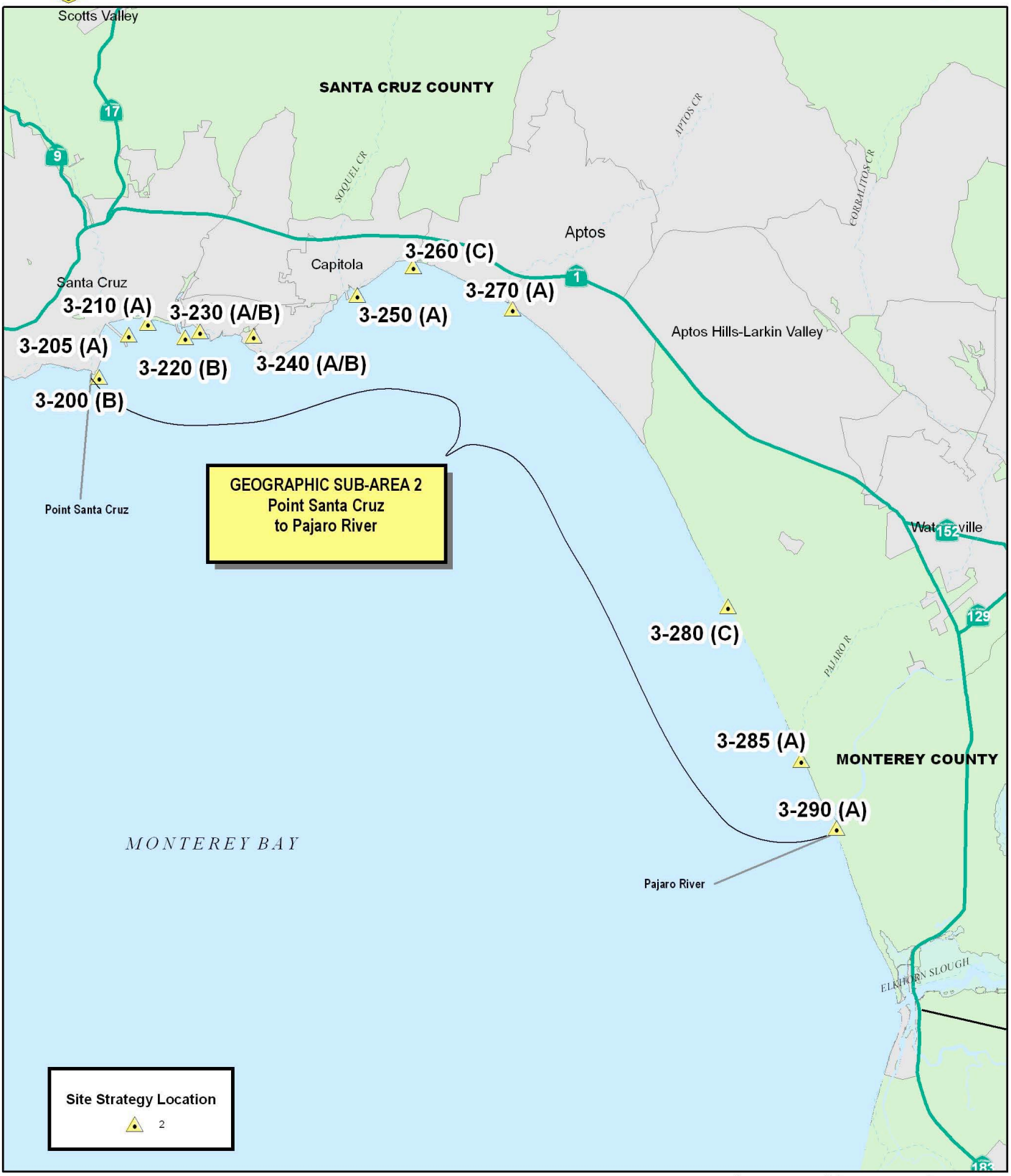
Central Coast Geographic Sub-Area 2 and Site Strategy Locations



Scale 1:130 000

0 2.5 5 Kilometers

0 2.5 5 Miles

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SITE SUMMARY

SITE: 3-200 (B) Point Santa Cruz / Lighthouse Field State Beach

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	992
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 56.9' / W 122° 01.6'
http://www.californiacoastline.org Image #s	6590
Directions and access: Take Highway 1 north/Mission Street through west Santa Cruz. Turn left onto Bay street and at the ocean (West Cliff Drive) turn right and go upcoast approximately ¾ mile to Pont Santa Cruz. Lighthouse Field State Beach straddles East Cliff Drive. Parking lot at lighthouse, access is by foot via unstable cliffs or a set of stairs a few hundred yards upcoast from the lighthouse.	

SITE DESCRIPTION:
Rocky headland and small pocket beaches.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Haulout for moderate numbers of California sea lions. Endangered brown pelicans (endangered), and black swifts (DFG species of special concern) nest here.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
City of Santa Cruz (831) 420-6050
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
Steamer's Lane important as high-use surfing area (offshore Lighthouse Field). City of Santa Cruz Municipal Wastewater Treatment Facility discharge nearby.

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SITE SUMMARY

SITE: 3-205 (A) Santa Cruz Municipal Wharf & Santa Cruz Beach

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	992
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 57.7' / W 122° 01.2'
http://www.californiacoastline.org Image #s	6605, 6606, 6607, 6608, 6609
Directions and access: Take Highway 1 north to Santa Cruz, or Highway 17 south to Santa Cruz. From either, take Ocean street (Highway 1 goes around a sharp "fishhook" turn to place you on Ocean Street from the left lane, while Highway 17 south will put you directly on Ocean if you stay in the left lane). Take Ocean to Laurel and turn right. At Front street turn left. Front Street ends at the Santa Cruz Municipal Wharf, with Santa Cruz Beach extending to either side of the Wharf.	

SITE DESCRIPTION:
Long wharf and fishing piers with beach areas on either side. Rocky cliffs short distance away on upcoast side. Area of high recreational use (including surfing, wind-surfing).

SEASONAL CONCERNS:
Year round.

RESOURCES OF PRIMARY CONCERN:
Haulout for moderate numbers of California sea lions. Brown pelicans (endangered), and black swifts (CDFG species of special concern) nest here.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
City of Santa Cruz Municipal Wharf, (831) 420-6025
California Department of Parks and Recreation, 24-hour (831) 649-2810
West Coast Santa Cruz Hotel, (831) 426-4330
Santa Cruz Beach Boardwalk, Seaside Company (831) 423-5590
Santa Cruz Harbor Master, (831) 475-6161 (General), (831) 475-6162 (24-hr)
Santa Cruz City Police, (831) 420-5800 (24-hour)
Small Craft Refueling Dock, Shamrock Charters (831) 476-2648
Santa Cruz Yacht Club, (831) 425-0690
Harbor Marine Inc., (831) 475-3131

REMARKS:
Coast Guard Reserve Lifeguard Headquarters located on the pier. Nearby waterfront hotel (West Coast Santa Cruz Hotel). Significant tourist destination.

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SITE SUMMARY

SITE: 3-210 (A) **San Lorenzo River Inlet**

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	992
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 57.6' / W 122° 00.8'
http://www.californiacoastline.org Image #s	616, 617, 6613, 6614
Directions and access: From Santa Cruz, take Highway 1 south to Ocean Avenue off ramp. Follow Ocean Avenue 2 miles and turn right onto San Lorenzo Boulevard. Turn left onto Riverside Avenue. Turn left onto Beach Street, and follow it into the Santa Cruz Boardwalk parking lot. Access east bank via Boardwalk. Beach is hard and can support traffic.	

SITE DESCRIPTION:
River mouth maintained as dredged flood-control channel. Open water and sand flats within tidal prism serve as resting habitat for birds and riparian wildlife.

SEASONAL CONCERNS:
Year round.

RESOURCES OF PRIMARY CONCERN:
Coastal seabirds including brown pelicans (endangered); shorebirds. California sea lions also present. Anadromous stream with Coho salmon and steelhead trout.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERT:
City of Santa Cruz, (831) 420-6025

REMARKS:
Site of Santa Cruz Beach and Boardwalk; high recreational use.

SITE PROTECTION STRATEGY

Site: 3-210 (A) San Lorenzo River Inlet

PROTECTION STRATEGY:
During optimal conditions (extremely low discharge and moderate surf), every attempt should be made to block entrance to inlet with a sediment dike or appropriate equivalent. Should the dike fail, or conditions not allow dike construction, a series of deflection booms should be employed to divert oil to sandy west bank of river (or east bank if more desirable).

COLLECTION POINTS:
A skimmer should be placed in the channel, inland of primary and secondary diversion booms, in the event that entrainment occurs during flood tides. Vacuum trucks equipped with duck-billed skimmers should be placed on west (or east) shore of river at collection points of primary and secondary diversion booms.

RECOMMENDED RESOURCES:

BOOM:	800’ of 18" harbor boom
SKIMMERS:	(1) Self-propelled, (2) Duck-bill head

INLET SKETCH MAP

SAN LORENZO RIVER

Inlet Name INLET, CA.

Recorder(s) MOH/TMM/KM

Date/Time 8 NOV. 1992 ; 1615

Tide Stage LOW @ 1510 (-0.2); SANTA CRUZ

Inlet Classification B

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

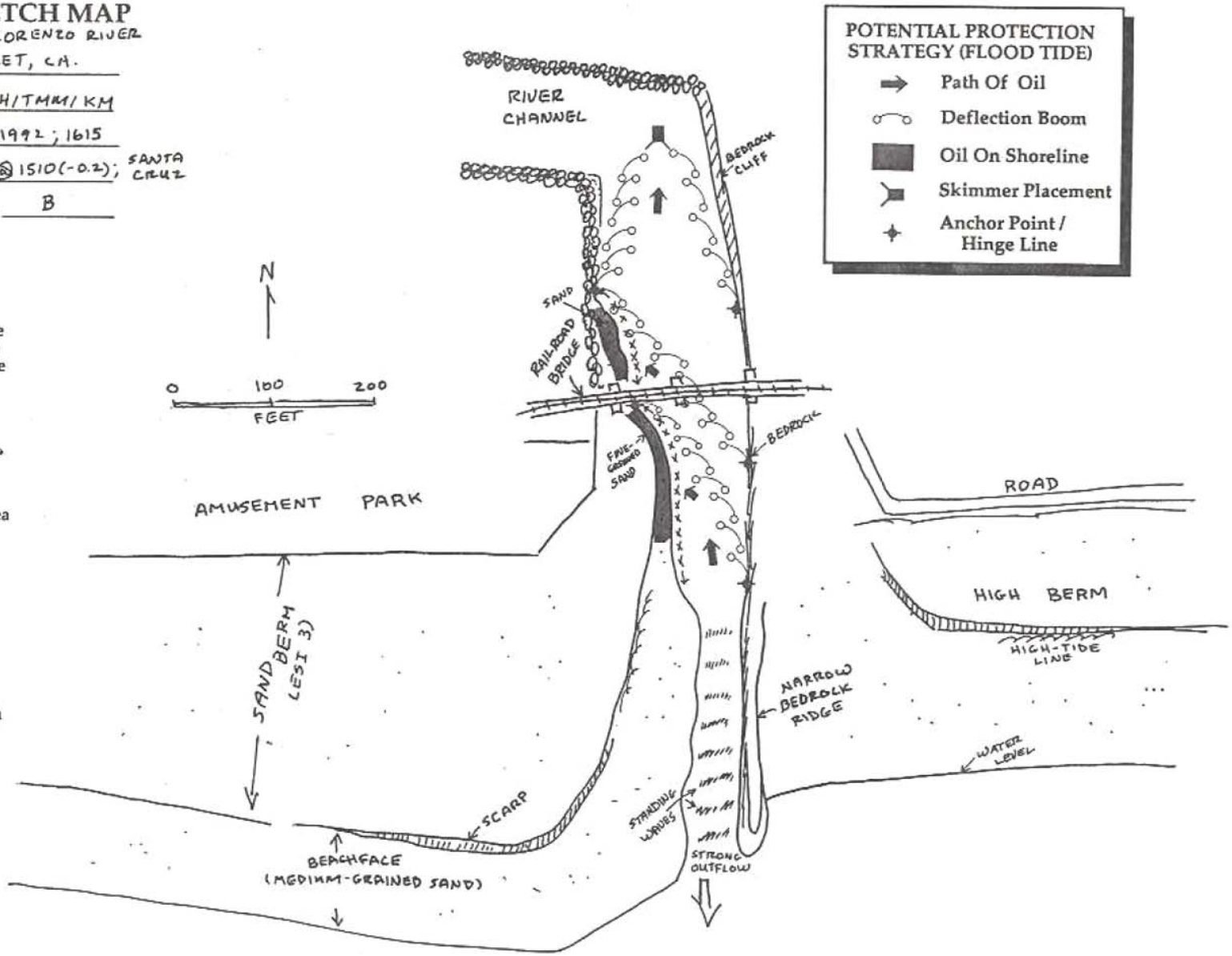
Recommended Oil-Catchment Area

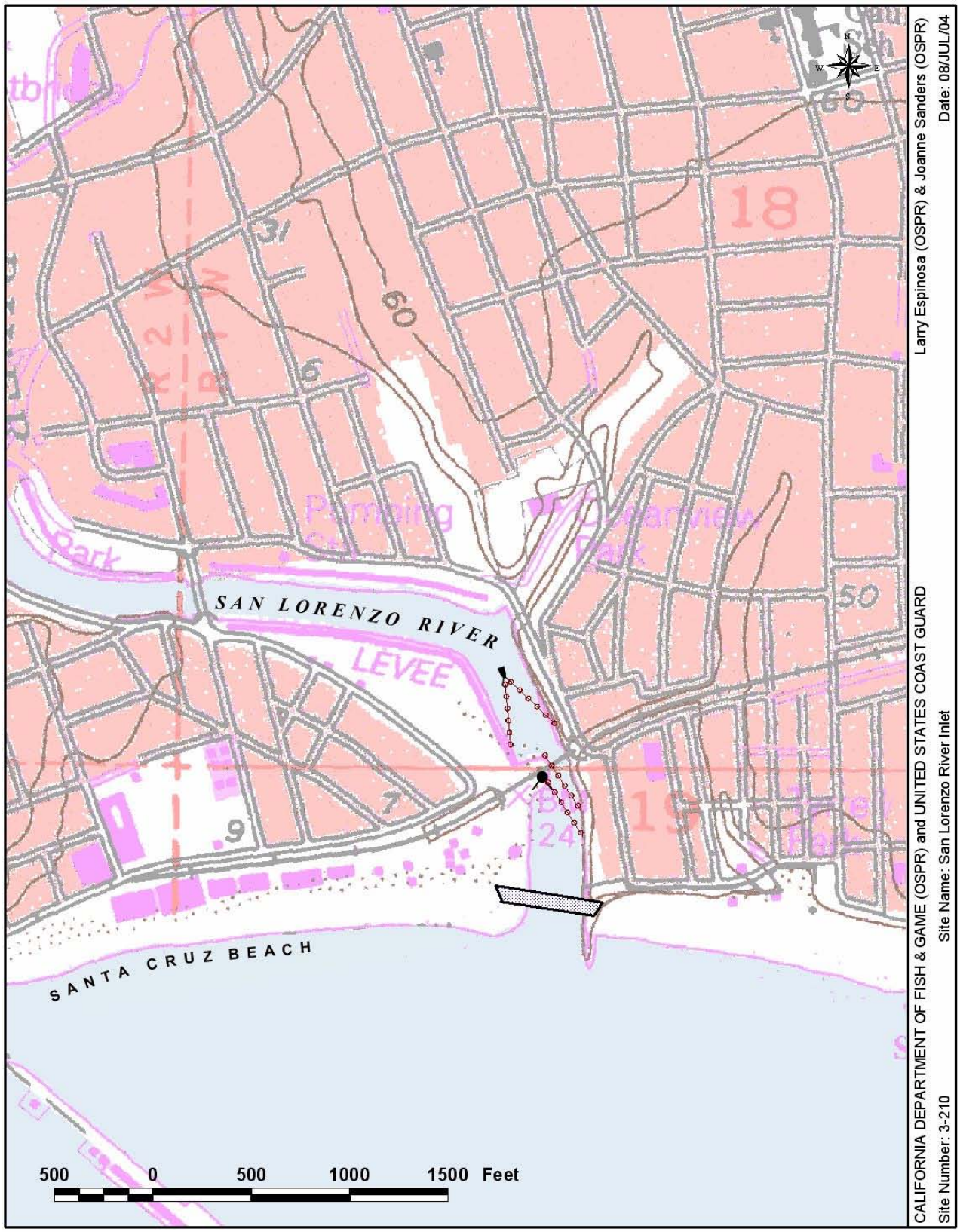
Salt-Water Marsh

Fresh-Water Marsh

High-Tide Overwash Zone

Last High-Tide Swash Line




SAN LORENZO RIVER
LEVEE
SANTA CRUZ BEACH
Pumping Ctr
Harbor View Park
Park
18
19
50
60
31
6
7
9
24
500 0 500 1000 1500 Feet
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Number: 3-210
Site Name: San Lorenzo River Inlet
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 08/JUL/04

SITE SUMMARY

SITE: 3-220 (B) Santa Cruz Harbor Entrance

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	992
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 57.5' / W 122° 00.2'
http://www.californiacoastline.org Image #s	6621, 6622, 6623
Directions and access: Take Highway 1 north toward Santa Cruz. Take Soquel Drive (if going north on highway) or Soquel Avenue (if going south) exit. Need to be on west die of Highway 1, so if taking Soquel Drive, turn left at the stoplight to cross back over the highway. The road changes its name form Soquel Drive to Soquel Avenue at the overcrossing. Once over the highway, proceed north on Soquel Avenue to 7th Avenue and turn left. About 1 mile along 7th, turn right onto Brommer if you want to go to the upper end of the Santa Cruz Harbor. To get to the other side of the harbor, stay on Eaton (changes name to East Cliff Drive), turn left on Seabright, left on Atlantic, left on Mariner. To get to the lower end (harbor mouth), stay on 7th Avenue to Eaton. Turn right on Eaton, left on 5th Avenue. Entrances to harbor parking lots will be on the right.	

SITE DESCRIPTION:
Santa Cruz Harbor entrance (also known as Woods Lagoon).

SEASONAL CONCERNS:
Year round

RESOURCES OF PRIMARY CONCERN:
Coastal seabirds including brown pelicans (endangered) and cormorants; shore birds including plovers and sandpipers. Sea otters may be present.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Santa Cruz Harbor District, (831) 475-6161, (831) 475-6162 (24-hour)
Santa Cruz City Police, (831) 429-3911 (24-hour)
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
Small craft harbor with 960 berths, three boat ramp lanes, boat hoist, visitor berths (vessels up to 100' with maximum drafts of 10' at MLLW; small craft refueling dock; boat dry storage yard; 2-ton boat hoist; 120' linear dock space; 60-ton travelift; complete boat service and repair.

SITE PROTECTION STRATEGY

Site: 3-220 Santa Cruz Harbor Entrance (Woods Lagoon)

PROTECTION STRATEGY:
Set harbor boom in V-shape just inside harbor entrance (~1500') and another 2 parallel lines of (500'each) of harbor boom slantwise from east end of launch ramp to opposite side of harbor to protect berthed boats in harbor. Place Texas (intertidal) boom (200') on north side of jetty to protect rip-rap.

PERSONNEL REQUIRED:
Use 3 boats and 8 personnel to set and tend boom. Use one self-contained barge-type skimmer with self-contained storage and additional 3-person support crew. Best staging area in large parking lot near launch ramp, but some additional staging may be available across harbor near Aldo's Restaurant.

INLET SKETCH MAP

Inlet Name SANTA CRUZ HARBOR ENTRANCE, CA.

Recorder(s) MGH / TMM / KM

Date/Time 8 NOV. 1992; 1540

Tide Stage LOW @ 1510 (-0.2); SANTA CRUZ

Inlet Classification B

MODIFIED 27 JUNE 2005 LRE

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

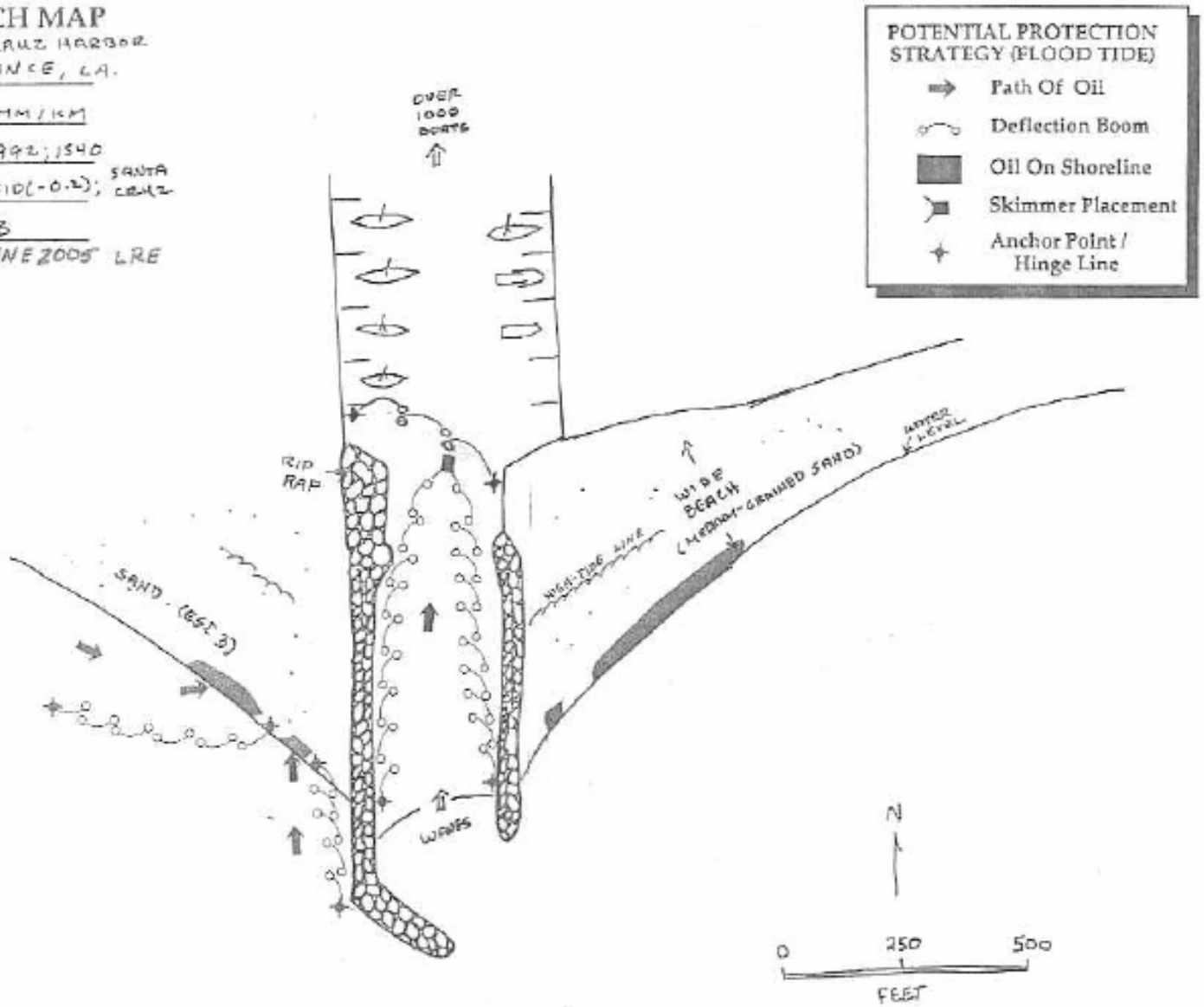
Recommended Oil-Catchment Area

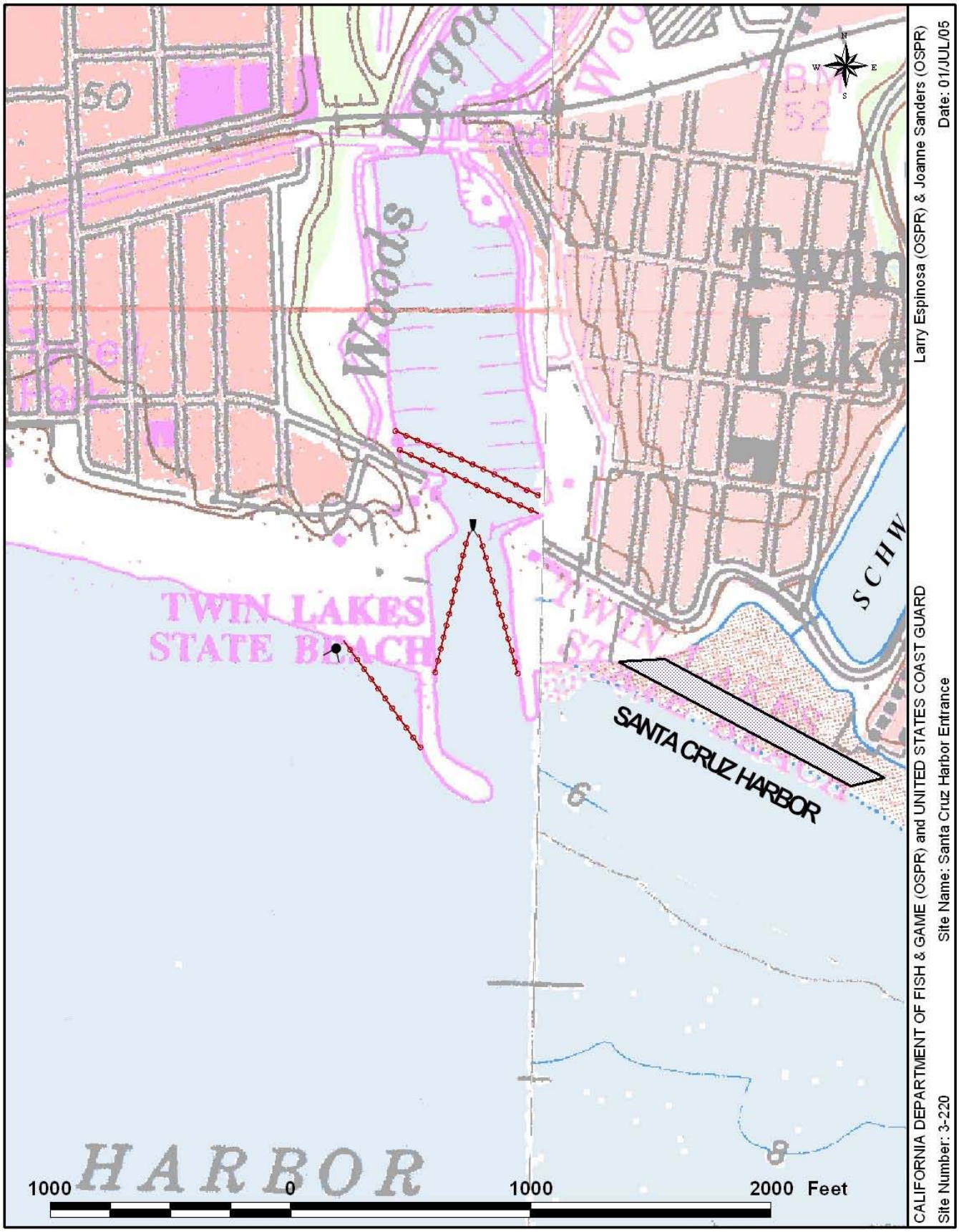
Salt-Water Marsh

Fresh-Water Marsh

High-Tide Overwash Zone

Last High-Tide Swash Line




Woods Lagoon
Twin Lakes
TWIN LAKES STATE BEACH
SANTA CRUZ HARBOR
HARBOR
SCHW
1000 0 1000 2000 Feet
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Number: 3-220
Site Name: Santa Cruz Harbor Entrance
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 01/JUL/05

SITE SUMMARY

SITE: 3-230 (A/B) **Schwans Lagoon Inlet**

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	992
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 57.5' / W 122° 0'
http://www.californiacoastline.org Image #s	200401470, 200401471
Directions and access: From Santa Cruz, take Highway 1 south to Soquel Drive off ramp. Turn right onto Soquel Avenue. Head west on Soquel Avenue 2 stoplights and turn left onto 7th Avenue. Follow 7th Avenue to the beach. Schwan Lake is a left turn at beach (Portola Drive).	

SITE DESCRIPTION:
Freshwater marsh inland of bridge with a minor fringing marsh on the seaward side of bridge. This is a **B** priority during summer months

SEASONAL CONCERNS:
Year round.

RESOURCES OF PRIMARY CONCERN:
Shore birds and coastal sea birds including brown pelicans (endangered) and double-crested cormorants(winter roosting area).

TRUSTEE/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24 hour (831) 649-2810
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121

REMARKS:
Site of Twin Lakes State Beach, high recreational use.

SITE PROTECTION STRATEGY

Site: 3-230 (A/B) Schwans Lagoon Inlet

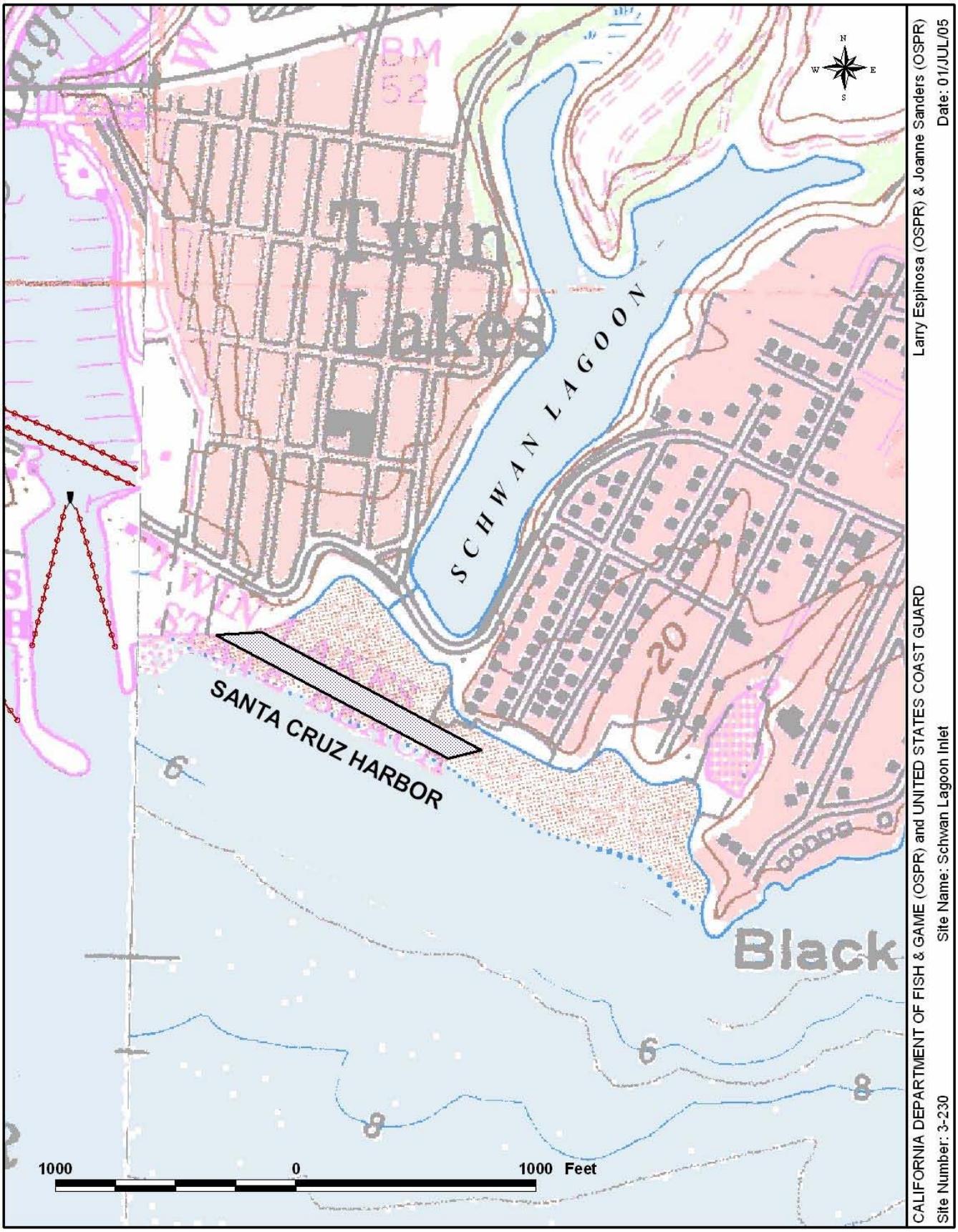
PROTECTION STRATEGY:
Block entrance with 500 foot sediment dike. Medium-grained sand available seaward of culverts. Plug up three culverts to prevent oil from flowing into the lagoon. During severe storm-surge conditions, the sediment dike should be built to a height to prevent water into the entrance, establish deflection booms along each jetty in order to divert oil to skimmers. Set up deflection booms to divert any oil coming onshore (from east or west) to the medium-grained sand beaches that flank the jetties. Flood currents should be relatively weak.

COLLECTION POINTS:
Deflect oil to beaches east and west of the jetties. Oil within the harbor should be diverted to skimmers.

RECOMMENDED RESOURCES:

BOOM:	1300’ 18" harbor boom
	2600’ 24” open water boom
SKIMMER:	(1) Self propelled

Heavy equipment as necessary and appropriate for dike construction.


Twin Lakes
SCHWAN LAGOON
SANTA CRUZ HARBOR
Black
BM 52
20
6
8
N
W
E
S
1000
0
1000 Feet
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Number: 3-230
Site Name: Schwan Lagoon Inlet
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 01/JUL/05

SITE SUMMARY

SITE: 3-240 (A/B) Corcoran Lagoon Inlet (Rodeo Creek Inlet)

County	Santa Cruz
OSPR Map No.	065
Thomas Guide (2004 Monterey Bay Metro Area) Map#	992
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 57.4' / W 121° 59.2'
http://www.californiacoastline.org Image #s	200401484, 200401485
Directions and access: From Santa Cruz, take Highway 1 south to Soquel Drive off ramp. Turn left at stop sign at end of exit ramp. Turn right on 17th Avenue. Continue straight to intersection of 17th with Cliff Drive (to right) and Portola Drive (to left). Turning left onto Portola will take you to the back side of Corcoran. Continuing from intersection of 17th/Cliff down to East Cliff (via 18th) and then left on East Cliff will take you to seaward side of Corcoran Lagoon. Cliff Drive runs over the Rodeo Creek Inlet.	

SITE DESCRIPTION:
Lagoon inland of inlet.

SEASONAL CONCERNS:
Species of concern discussed below are present year round. This is a **B** priority during summer months (*i.e.*, during periods of low or no flow, or lower tides)

RESOURCES OF PRIMARY CONCERN:
Shore birds and coastal sea birds including cormorants, brown pelicans (endangered), pied-billed grebes and bufflehead. Littleneck clams on sandy beach. Tidewater goby (candidate for federal listing) inhabit the creek.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Private marsh.

REMARKS:
Next major point downcoast (Soquel Point) is major recreational area (surfing).

SITE PROTECTION STRATEGY

Site: 3-240 Corcoran Lagoon Inlet (Rodeo Creek Inlet)

PROTECTION STRATEGY:
Close off with a 300' sediment dike (medium-grained sand). It may be difficult to close inlet after period of prolonged erosion or during periods of high runoff.

COLLECTION POINTS:
On southeast beach, seaward of sediment dike. Access from 21st Avenue Dead End.

RECOMMENDED RESOURCES:

BOOM:	N/A
SKIMMER OR VACUUM TRUCK:	As appropriate.

PERSONNEL REQUIRED:
Use 6 people to operate skimmers/vacuum trucks, a 3 person boat crew, and 6 people to deploy and tend boom.

SITE SUMMARY

SITE: 3-250 (A) **Soquel Creek Inlet**

County	Santa Cruz
OSPR Map No.	065
Thomas Guide (2004 Monterey Bay Metro Area) Map#	973
USGS 7.5' Quad	Santa Cruz
Lat./ Long.	N 36° 58.2' / W 121° 56.8'
http://www.californiacoastline.org Image #s	7220095
Directions and access: From Santa Cruz, take Highway 1 south to Bay Avenue off ramp in Capitola. Turn right onto Bay Avenue. Continue on Bay Avenue and turn right onto Capitola Avenue. Turn right onto Stockton Avenue. Turn left onto Esplanade, and follow to parking lot.	

SITE DESCRIPTION:
Creek mouth and lagoon in heavily urbanized area. Recreational beach.

SEASONAL CONCERNS:
Year round.

RESOURCES OF PRIMARY CONCERN:
Shore birds and coastal sea birds including cormorants and brown pelicans (endangered). Lagoon provides winter habitat for mallards, grebes, coots and gulls. The creek supports an important steelhead trout run. A plant species, *Mimic tryonia,* inhabits the lagoon.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
City of Capitola, (831) 475-7300
CA Dept. of Fish and Game, (916) 358-1300 (Spills 24-hr), (831) 649-2870 (Daytime)
Santa Cruz County Parks, (831) 454-7900
Capitola Wharf- Capitola Boat and Bait, (831) 462-2208
Capitola Police Department, (831) 471-1170
Capitola Chamber of Commerce, (831) 475-6522

REMARKS:
High recreational use: Capitola City Beach and Esplanade (restaurant and shopping area). Offshore boat moorings.

SITE PROTECTION STRATEGY

Site: 3-250 (A) Soquel Creek Inlet

PROTECTION STRATEGY:
This inlet can probably be closed with a sediment dike (medium-grain sand about 300 feet long). If the inlet cannot be closed, use deflection boom to divert oil to the sandy area on the west side of the channel.

COLLECTION POINTS:
Divert oil to west side of channel (near highway bridge), for vacuum truck pick up.

RECOMMENDED RESOURCES:

BOOM:	100’ of 18” harbor boom
SKIMMER:	(1) Duck-bill head

PERSONNEL REQUIRED:
Use 4 people to deploy and tend boom and 4 people to operate skimmer.

INLET SKETCH MAP

Inlet Name SOQUEL RIVER INLET, CA.

Recorder(s) MOH / TMM / KM

Date/Time 8 NOV. 1992, 1415

Tide Stage LOW @ 1510 (-0.2); SANTA CRUZ

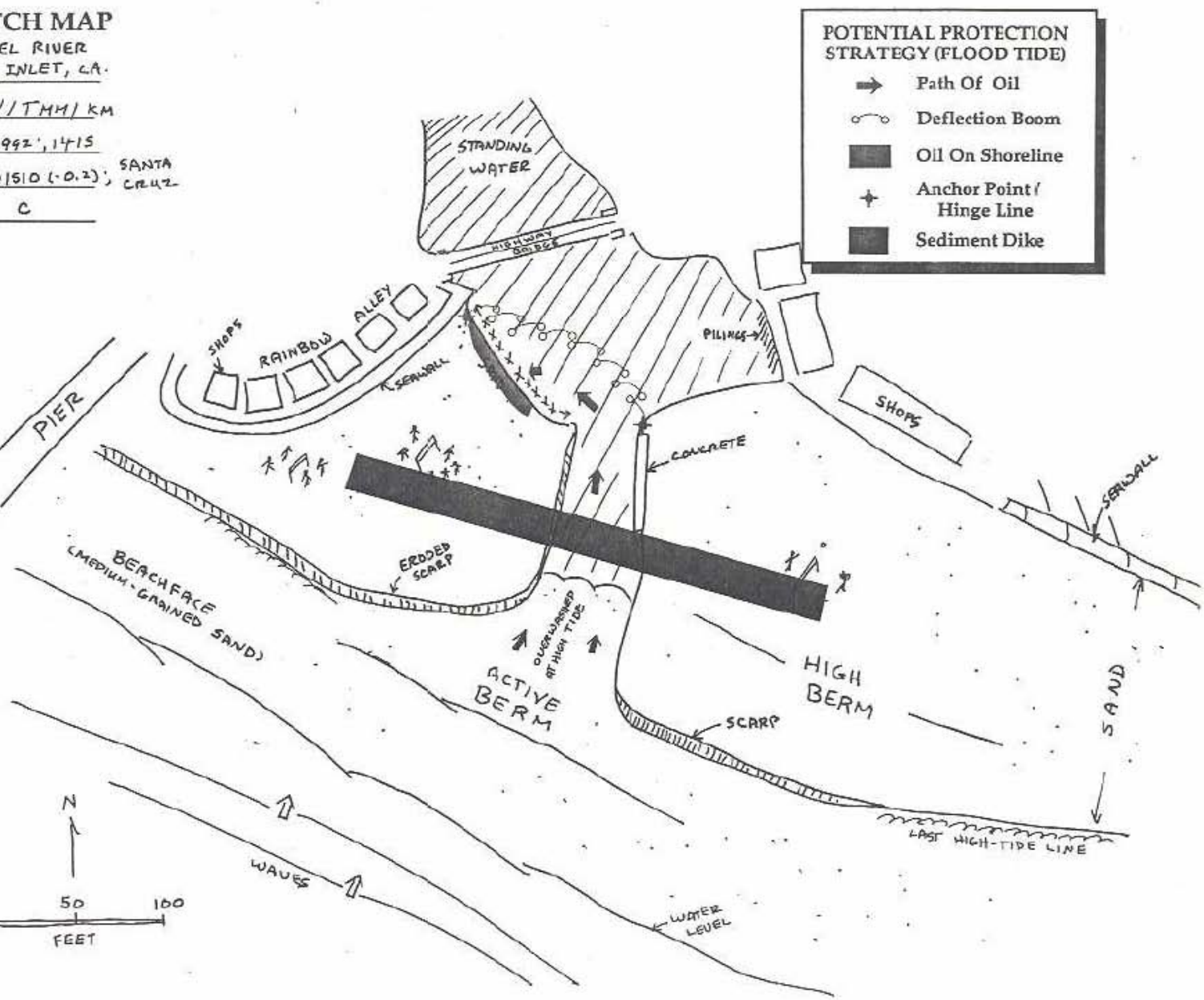
Inlet Classification C

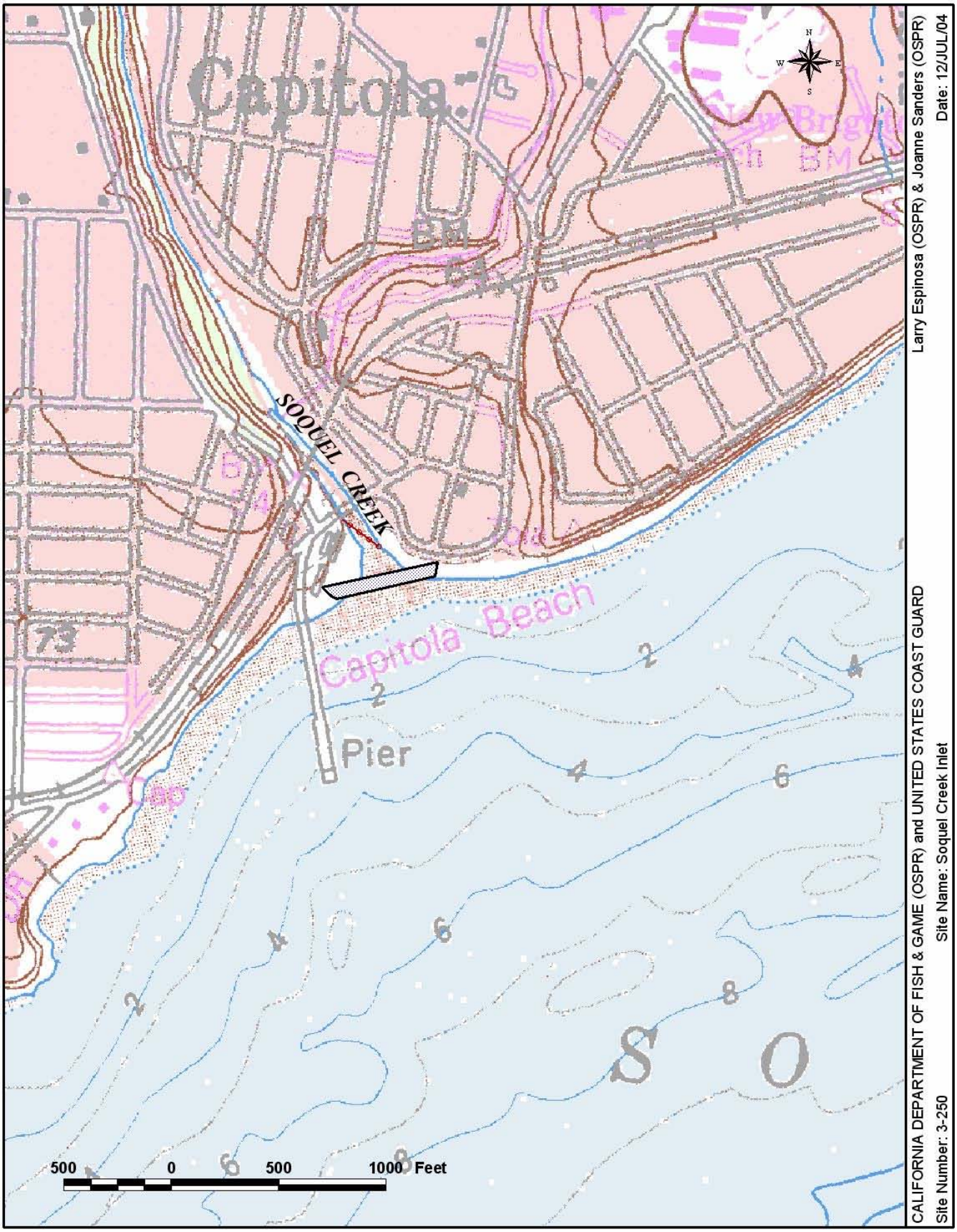
CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

- xxxxxxx — Recommended Oil-Catchment Area
- Salt-Water Marsh
- Fresh-Water Marsh
- High-Tide Overwash Zone
- Last High-Tide Swash Line




Capitola
SOQUEL CREEK
Capitola Beach
Pier
73
BM
500 0 500 1000 Feet
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Number: 3-250
Site Name: Soquel Creek Inlet
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 12/JUL/04

SITE SUMMARY

SITE: 3-260 (C) New Brighton State Beach

County	Santa Cruz
OSPR Map No.	064
Thomas Guide (2004 Monterey Bay Metro Area) Map#	973
USGS 7.5' Quad	Soquel
Lat./ Long.	N 36° 53.6' / W 121° 50.4'
http://www.californiacoastline.org Image #s	6836
Directions and access: Take park Avenue exit from Highway 1 (between Capitola and Aptos) and bear west. Turn left onto McGregor Road (frontage road to Highway 1), then turn right to enter New Brighton Beach day use area.	

SITE DESCRIPTION:
Medium-grain sandy beach.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Locally unique plants including *Ceanothus integerrimus*, *Ceanothus thyrsiflorus repens*, and *Lupinus formosus*.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
68-acre beach and recreational area. 114 tent and RV sites.

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SITE SUMMARY

SITE: 3-270 (A) Aptos Creek Inlet

County	Santa Cruz
OSPR Map No.	065
Thomas Guide (2004 Monterey Bay Metro Area) Map#	973 (Labeled as Moosehead Creek)
USGS 7.5' Quad	Soquel
Lat./ Long.	N 36° 58.0' / W 121° 54.6'
http://www.californiacoastline.org Image #s	
Directions and access: From Santa Cruz, take Highway 1 south to Sea Cliff Beach/State Park Drive off ramp (turn right). Turn left onto Center Avenue. Veer right onto Sea Cliff Drive. At the stop sign, turn right onto Spreckels Drive. At the bottom of the hill, turn right onto Treasure Island Drive. The road ends at the beach front/Esplanade. Turn right into the parking lot.	

SITE DESCRIPTION:
Minor marsh along channel parallel to seawall.

SEASONAL CONCERNS:
Year round.

RESOURCES OF PRIMARY CONCERN:
Shore birds and coastal sea birds including cormorants and brown pelicans (endangered). California sea lions, harbor seals and sea otters are found offshore. In the creek, tidewater goby(candidate for federal listing) is present; steelhead trout are present in winter, spring and fall.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121
California Department of Parks and Recreation, 24-hour (831) 649-2810
Seascape Resort and Conference Center, (831) 688-6800
La Selva Beach Recreation District Clubhouse, (831) 684-0838

REMARKS:
High recreational use at both Capitola and (downcoast) at Seacliff State Beach. Seacliff State Beach has fishing pier/ concrete ship, 85-acrea beach, 26 RV sites and year-round day use parking. Rio del Mar beach (at downcoast end of Seacliff State Beach) has a county parking lot (100 cars) state parking lot (50 cars), beach access and private homes and rental units near the beach. Proceeding downcoast, there is also Seascape Resort and Conference Center (831-688-6800) and La Selva Beach (private access via locked gate: Contact La Selva Beach Recreation District Clubhouse, 314 Estrella Avenue, La Selva Beach. 831-684-0838).

SITE PROTECTION STRATEGY

Site: 3-270 (A) Aptos Creek Inlet

PROTECTION STRATEGY:
Close off stream mouth with sediment dike (medium to fine-grain sand) about 400 feet long. Orient dike east/west and place it about 50 feet seaward of piling. Note: After major storms, sediment supply may be limited.

COLLECTION POINTS:
If the large berm-ridge and runnel (trough) configuration is present during a spill, a considerable amount of oil could accumulate in the runnel.

RECOMMENDED RESOURCES:
BOOM: N/A
SKIMMER: N/A

PERSONNEL REQUIRED:
Use 5 to 10 people to build sediment dike, 2 to 4 people to maintain it.

INLET SKETCH MAP

APTOS CREEK

Inlet Name INLET, CA.

Recorder(s) MOH/THM/KM

Date/Time 8 NOV. 1942; 1330

Tide Stage LOW @ 1510 (-0.2); SANTA CRUZ

Inlet Classification D

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

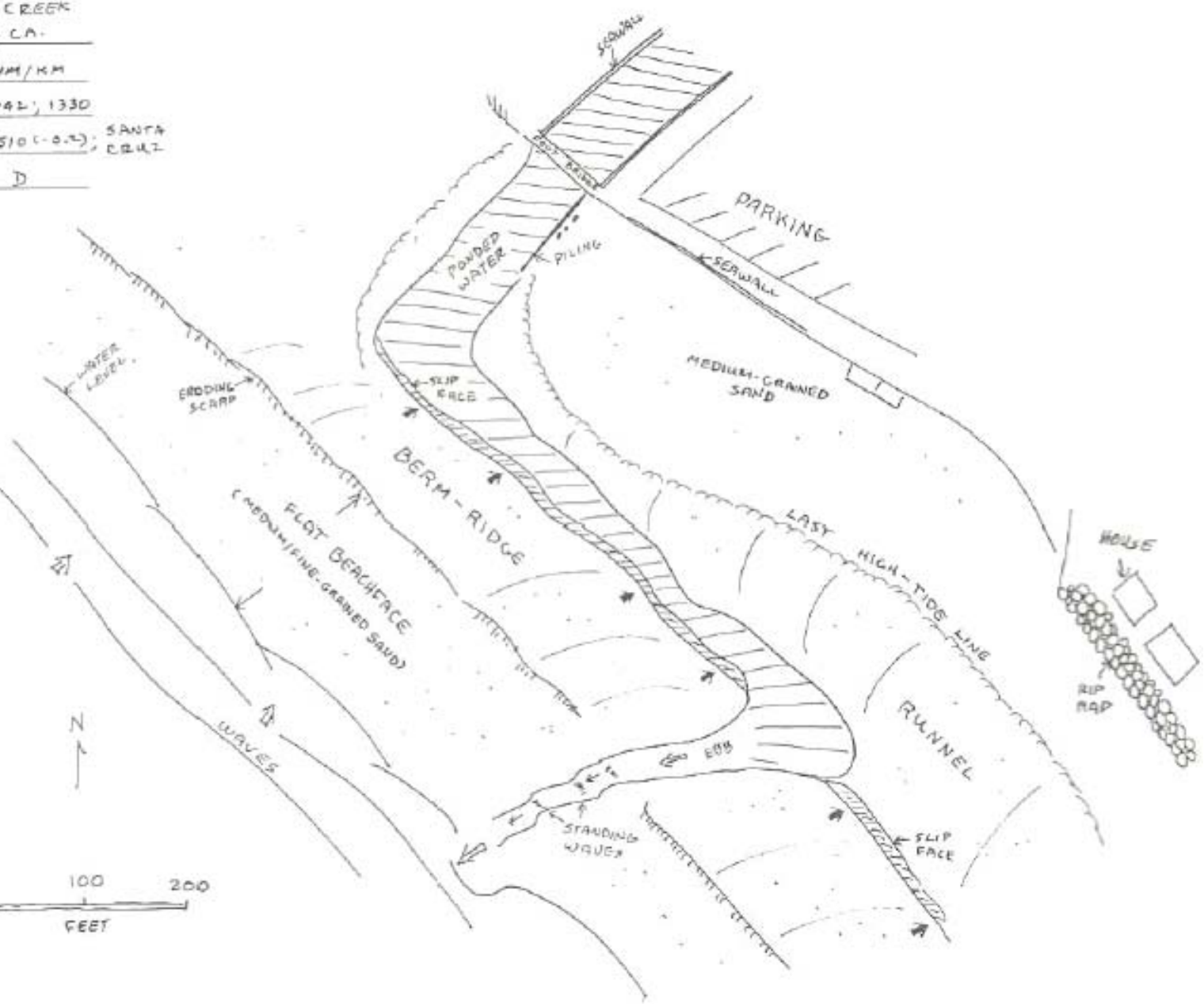
XXXXXXX Recommended Oil-Catchment Area

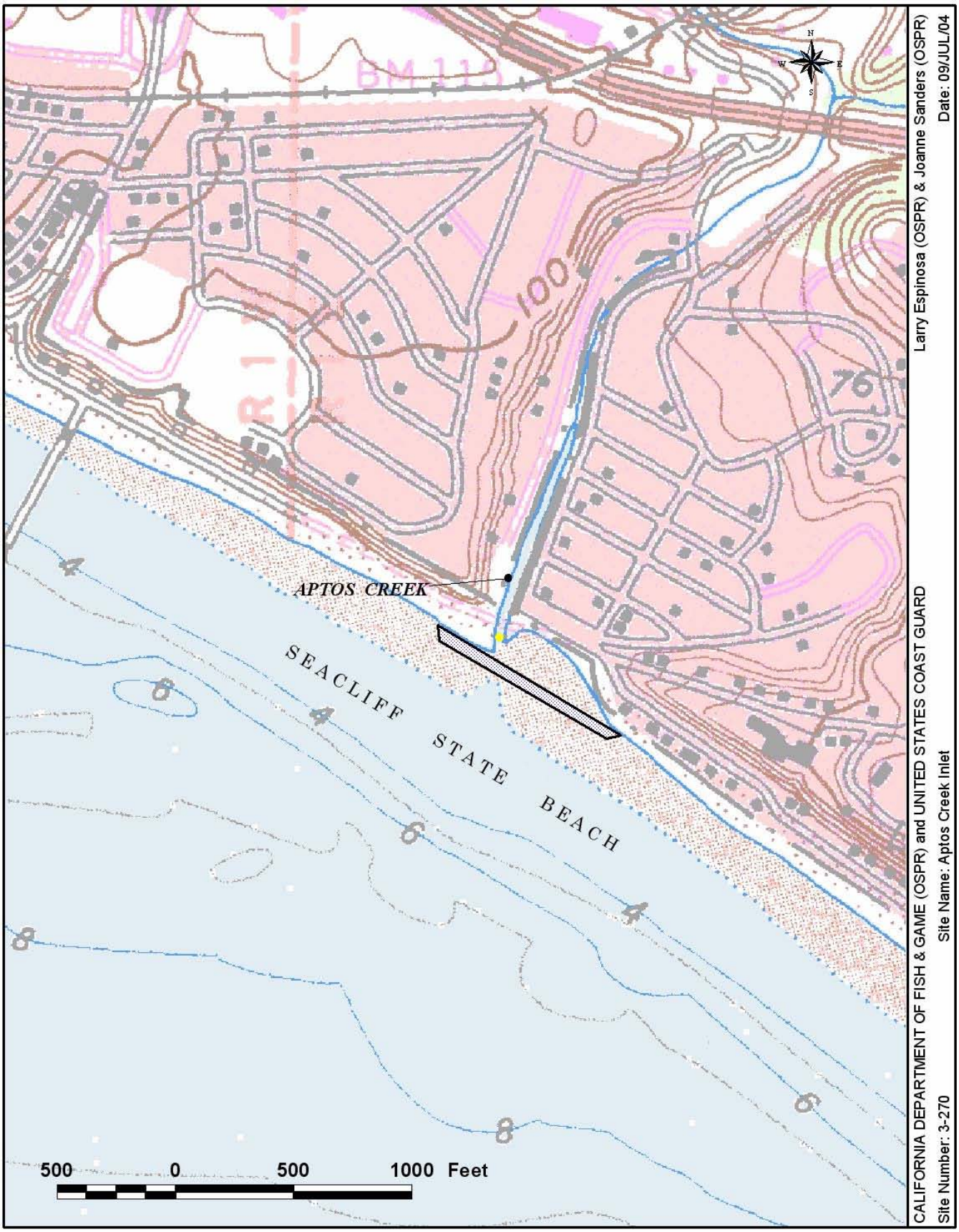
Salt-Water Marsh

Fresh-Water Marsh

High-Tide Overwash Zone

Last High-Tide Swash Line




APTOS CREEK
SEACLIFF STATE BEACH
BM 115
100
76
4
6
8
500 0 500 1000 Feet
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Number: 3-270
Site Name: Aptos Creek Inlet
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 09/JUL/04

SITE SUMMARY

SITE: 3-280 (C) Manresa & Sunset State Beaches

County	Santa Cruz
OSPR Map No.	066
Thomas Guide (2004 Monterey Bay Metro Area) Map#	994 and 1014 (Manresa), 1014 (Sunset)
USGS 7.5' Quad	Watsonville West
Lat./ Long.	Manresa: N 36° 55.8' / W 121° 52.1' Sunset: N 36° 53.8' / W 121° 50.7'
http://www.californiacoastline.org Image #s	Manresa: 706, 709 Sunset: 724 (Entrance Station), 728, 731, 6834, 6835, 6851, 6866 (Pajaro Dunes), 6871

Directions and access:
Manresa: Take San Andreas Road from Highway 1 (between Rio Del Mar and Watsonville) and go west toward ocean. Approximately 1.5 miles (intersection with Mar Monte Avenue) bear right and proceed about another .5 miles. Turn right onto Country Road to get to Manresa Beach (Country Road occurs as San Andreas Road makes a sharp bend to the south).
Sunset: To get to Sunset Beach from Manresa, continue south on San Andreas Road for approximately 3 miles and turn right onto Sunset Beach Road. Road will terminate at beach. Alternatively, from Highway 1 north near Watsonville, take Highway 129/Riverside Drive exit, cross Highway 1 to west side, turn right onto Lee Road, left on West Beach, right on San Andreas Road, and proceed approximately 2 miles. Turn left onto Sunset Beach Drive and follow to end.

SITE DESCRIPTION:
Manresa State Beach and Sunset State Beach. Fine to medium grain sandy beaches.

SEASONAL CONCERNS:
Year round.

RESOURCES OF PRIMARY CONCERN:
California least terns (endangered), western snowy plover (threatened), and other shore birds and sea birds are present. Pismo clams are present in low numbers. The black legless lizard (candidate for federal listing) uses the foredunes near Shell Road (NDDB). Plant species include the Monterey spineflower (candidate for federal listing), present in the dunes at Manresa State Beach, and the robust spineflower south of the Manresa State Beach entrance. Locally unique plant species (locations identified by additional arrows) include: *Habernaria elegans*, *Clarkia rebicunda blasdalei*, *Salix hindsiana*, *Agrostis californica*, *Cirsium Quercetorum*, *Wyethia* sp., and *Gnaphalium* bicolor. The southern end of this map is part of the Pajaro sand dunes. Other locally unique plants include *Carex pansa*, *Chorizanthe* sp., *Poa douglasii*, and *Erysimum ammophilum* (endangered).

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
High recreational use.
Manresa Beach: 63 tent campsites, 300 day use parking; major surfing area.
Sunset Beach: 90 tent and RV sites, 150 day use parking.

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SITE SUMMARY

SITE: 3-285 (A) Sunset State Beach (south end) - Palm Beach

County	Santa Cruz
OSPR Map No.	068
Thomas Guide (2004 Motnerey Bay Metro Area) Map#	1014 (Sunset Beach); Palm Beach (and Pajaro Dunes development) is south of Sunset, and is not on Thomas Guide map.
USGS 7.5' Quad	Moss Landing
Lat./ Long.	N 36° 52.2' / W 121° 49.5' (Pajaro Dunes)
http://www.californiacoastline.org Image #s	6871 (south Sunset Beach), 6866 (Pajaro Dunes)
Directions and access: Refer to Sunset Beach directions (Site 3-280). Palm Beach adjoins Sunset Beach at its south end. To get to Palm Beach directly, take Highway 129/Riverside Drive exit from Highway 1 near Watsonville, and cross Highway 1 to get to the west side of the highway. Turn right onto Lee Road, left onto West Beach, and follow West Bach to end. West Beach ends at Pajaro Dunes development (on left) and Palm Beach (on right). Parking area and vehicle access over dunes available at Palm Beach.	

SITE DESCRIPTION:
Fine to medium grain sandy beach.

SEASONAL CONCERNS:
Year round.

RESOURCES OF PRIMARY CONCERN:
California least terns (endangered), western snowy plover(threatened), and other shore birds and sea birds are present. Locally unique plants in this area include: *Carex pansa*, *Chorizanthe* sp., *Poa douglasii*, and *Castilleja latifolia*.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERT:
Santa Cruz County Resource Planner, Daytime (831) 454-2580
Santa Cruz County Resource Planner, After Hours (831) 471-1121
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
Recreational use, waterfront resort, conference center, private and rental housing.

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SITE SUMMARY

SITE: 3-290 (A) Pajaro River Inlet

County	Santa Cruz and Monterey
OSPR Map No.	068
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1035
USGS 7.5' Quad	
Lat./ Long.	N 36° 50.0' / W 121° 48.9'
http://www.californiacoastline.org Image #s	6890, 6891, 6892, 744, 747, 748
Directions and access: Access to the State Park coastal parking area, which gives ready access to the beach, is off Highway 1 at Struve Road via Gilbertson Road. Access to the Pajaro Inlet is by way of a locked gate at the upcoast end of the parking lot. During an oil spill emergency, this gate will be open. Follow the unpaved road to the end. At that point is the designated 4WD access to the beach. Additional access to the upcoast end of the inlet is available through the Pajaro Dunes Colony [2661 Beach Road, Watsonville]; permission to access Colony residential roads may be arranged by calling Pajaro Dunes front office phone (831-722-4671). Equipment access is available upcoast of the Pajaro River via Palm Beach (which fronts the Pajaro Dunes Colony) and/or Sunset State Beach, off San Andreas Road	

SITE DESCRIPTION:
Extensive salt marsh habitat occurs in Watsonville Slough north of the river, and along the banks of the Pajaro River. The inlet is within Zmudowski State Beach, which runs downcoast from the inlet. River mouth may or may not be breached, which determines how much area behind the beach is lagooned. When river is not flowing, the pocket lagoon is mostly filled in, with established vegetation at lagoon edge. Mid-lagoon is a slightly elevated mud island, which may not be present when the river is flowing; when it is present, birds use it as a resting area. The configurations of river, lagoon, beach face and river outlet are all highly seasonally variable.

SEASONAL CONCERNS:
Western snowy plovers are present year-round and nest on bare and sparsely vegetated beaches in this area March to August. Spring, summer and fall artificial breaching of the sand bar to lower the river mouth lagoon is sometimes done to prevent flooding. This activity has the potential to negatively impact aquatic life including the steelhead.

RESOURCES OF PRIMARY CONCERN:
Large numbers of birds, including waders (e.g., black-necked stilts, American avocets) and waterfowl (e.g., coots and mallards), and coastal seabirds such as cormorants and brown pelicans (endangered). Steelhead trout are also present. Federally listed threatened tidewater gobies are found in the river mouth lagoon and adjacent slough. Bank swallows are reported from the river mouth by NDDB. The Federally listed threatened plant species, Monterey-spineflower, occurs in the dunes south of the river mouth. A State Park Natural Preserve, a sub-unit of Zmudowski State Beach, encompasses the river mouth and the adjacent beach to the south. The black legless lizard uses (candidate species) the vegetated dune habitat in this area. The globose dune beetle uses the habitat at the ocean margin of the dunes.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation 24-hour, (831) 649-2810
Pajaro Dunes Association, (831)-722-4671

REMARKS: None.

SITE PROTECTION STRATEGY

SITE: 3-290 (A) Pajaro River Inlet

PROTECTION STRATEGY:
River flow may be sufficient to prevent oil from traveling up the river channel. If necessary when the river is flowing, berm outlet using native sands. Consider using diagonal booming inside the lagoon, and/or stranding oil on the seawall/rip-rap at the east end of the Pajaro Dunes Colony development. If the river is not flowing, reinforce natural berm with native sand to prevent washover. Be alert to presence of western snowy plovers; critical area is roped off, but determine plover presence before disturbing site.

COLLECTION POINTS:

RECOMMENDED RESOURCES:
BOOM: 1400' of swamp boom
OTHER: 4000 sand bags, 4800' PVC pipe/fittings for siphons, 2 ATVs, skip-loader, very shallow draft boom boat.

PERSONNEL REQUIRED:
30 personnel.

INLET SKETCH MAP

Inlet Name PAJARO RIVER INLET, CA.

Recorder(s) MON/TMM/KM

Date/Time 8 NOV. 1992 ; 1145

Tide Stage LOW @ 1520 (-0.9); MOSS LANDING

Inlet Classification C

MODIFIED 28 JUNE 2005 LRE

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

xxxxxxx

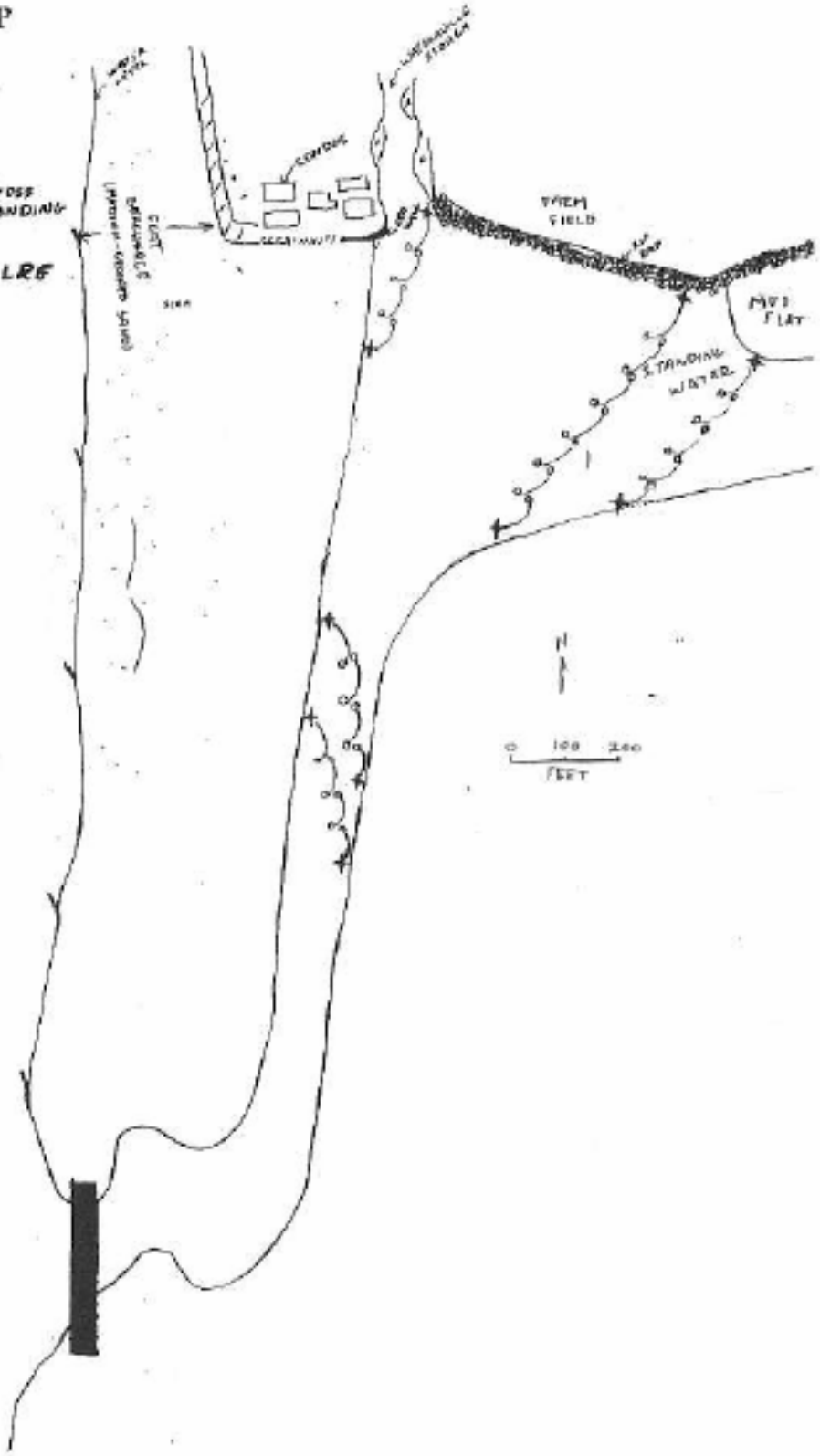
Recommended Oil-Catchment Area

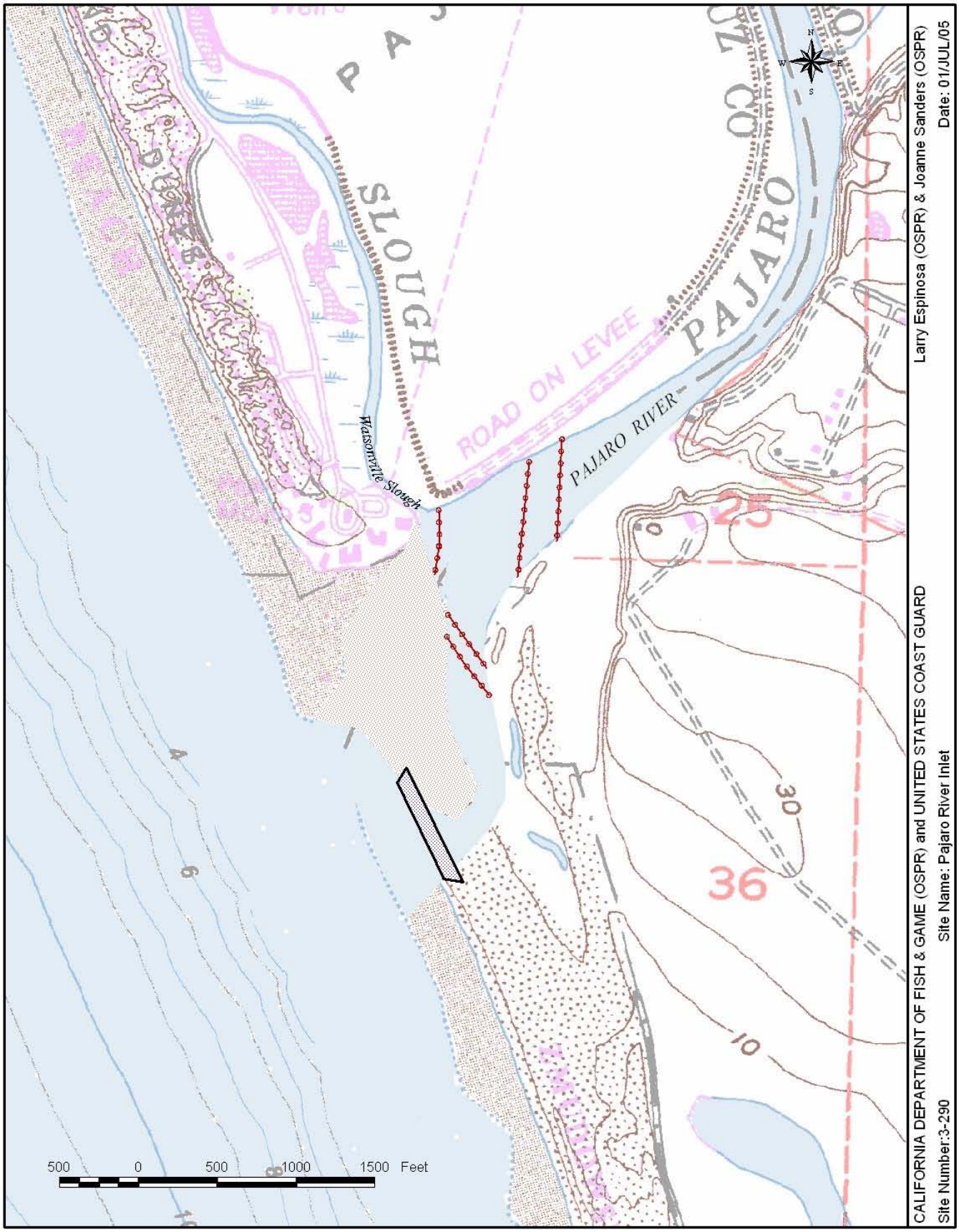
Salt-Water Marsh

Fresh-Water Marsh

High-Tide Overwash Zone

Last High-Tide Swash Line




SLOUGH
PAJARO
ROAD ON LEVEE
PAJARO RIVER
Watsonville Slough
25
36
30
10
4
6
500 0 500 1000 1500 Feet
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Number:3-290
Site Name: Pajaro River Inlet
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 01/JUL/05

9872.2 Cultural, Historical, Archeological & Economic Resources

For general information about cultural, historical and archeological resources, and the **Programmatic Agreement on Protection of historic properties during emergency response under the national oil and hazardous substances pollution contingency plan**, please refer to section 9802.1. The table below lists the cultural, historical, archaeological and economic resources for this Geographic Response Area.

Central Coast Geographic Response Area 2:
Point Santa Cruz to Pajaro River

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Includes all of this Geographic Sub-Area		E	Monterey Bay National Marine Sanctuary 299 Foam Street, Monterey, CA 93940	Superintendent (831) 647-4201 (831) 647-4260 FAX	N
Point Santa Cruz	3-200		City of Santa Cruz Municipal Wastewater Treatment Facility	City of Santa Cruz (831) 420-6050	N
Lighthouse Field State Beach	3-200	E	Lighthouse Field State Beach Recreational area Major surfing area (Steamer's Lane)	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
Santa Cruz Municipal Wharf (area)	3-205	E	Cowell Beach Recreational area; windsurfing; major surfing area (Steamer's Lane)	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
Santa Cruz Municipal Wharf (area)	3-205	F	West Coast Santa Cruz Hotel 175 West Cliff Drive Santa Cruz, CA 95060 Waterfront hotel	(831) 426-4330	N
Santa Cruz Municipal Wharf Monterey Bay Thomas Map: 992	3-205	E	Santa Cruz Municipal Wharf Foot of Washington and Beach Streets	City of Santa Cruz (831) 420-6025	N
Santa Cruz Beach	3-205	F	Santa Cruz Beach Boardwalk 400 Beach Street Santa Cruz, CA 95060 Significant tourist destination Recreational area	Seaside Company (831) 423-5590	N

Central Coast Geographic Response Area 2, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Santa Cruz Beach	3-205	E	Santa Cruz Small Craft Harbor 135 5th Avenue Santa Cruz, CA 95060 960 berths, 3 boat ramp lanes, boat hoist, visitor berths (vessels up to 100' w/max. drafts of 10' at MLLW)	Harbor Master (831) 475-6161 (Gen. Office #) (831) 475-6162 (24-hr) Santa Cruz City Police (831) 420-5800 (24-hour)	Y
			Small craft refueling dock	Current leaseholder: Shamrock Charters (831) 476-2648	N
			Santa Cruz Yacht Club 244 4th Avenue Santa Cruz, CA 95060 Boat dry storage yard; 2-ton boat hoist; 120' linear dock space.	(831) 425-0690	N
			Twin Lakes State Beach 7th Avenue and East Cliff Drive Jetty fishing Swimming, recreational area	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
			Harbor Marine, Inc. 496 Lake Avenue Santa Cruz, CA 95062 60-ton travelift Complete boat service and repair	(831) 475-3131	N
San Lorenzo River Inlet	3-210	E	San Lorenzo River	City of Santa Cruz (831) 420-6025	N
Santa Cruz Harbor Entrance	3-220		Seabright Beach (Castle Beach is a local name for the downcoast side of Seabright Beach)	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Santa Cruz Harbor District (831) 475-6161 (831) 475-6162 (24-hour) City Police (831) 429-3911	N
Schwans Lagoon Inlet	3-230		Schwan's Lake Inlet	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Corcoran Lagoon Inlet	3-240		Corcoran Lagoon Inlet (Rodeo Creek Inlet)	Private marsh.	N

Central Coast Geographic Response Area 2, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Soquel Creek Inlet **(Capitola)**	3-250	E	Soquel Point Pleasure Point Beach and Overlook Major surfing area	Santa Cruz County Parks Dept. (831) 454-7900	N
Soquel Creek Inlet	3-250	E	Soquel Cove Artificial fishing reef (4000 tons of quarry rock)	City of Capitola (831) 475-7300 CA Dept. Fish and Game Spills (24-hour): (916) 358-1300 Gen. daytime: (831) 649-2870	N
Soquel Creek Inlet **(Capitola)**	3-250	E	Capitola Wharf 1400 Wharf Road Capitola, CA 95010 Fishing Pier Significant tourist destination	Capitola Boat and Bait (831) 462-2208	N
Soquel Creek Inlet **(Capitola)**	3-250	E	Capitola Boat and Bait 1400 Wharf Road Capitola, CA 95010 Boat moorings Seasonal: May 1 – Sept. 30	Capitola Boat and Bait (831) 462-2208	N
Soquel Creek Inlet **(Capitola)**	3-250	E	Capitola Esplanade Significant tourist destination Restaurant and shopping area	City of Capitola (831) 475-7300 Police Dept. (831) 471-1170 Capitola Chamber of Commerce (831) 475-6522	N
Soquel Creek Inlet **(Capitola)**	3-250	E	Capitola City Beach Recreational area Surfing area	City of Capitola (831) 475-7300 Police Dept. (831) 471-1170	N
New Brighton State Beach	3-260	E	New Brighton State Beach 68-acre beach Recreational area; 114 tent and RV sites	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Aptos Creek Inlet **(Seacliff exit off Highway 1)**	3-270	E	Seacliff State Beach Fishing pier/concrete ship Recreational area 85-acre beach; 26 RV sites; 365 day use parking ---------- Rio del Mar beach is at the downcoast end of Seacliff State Beach Rio del Mar beach has a county parking lot (100 cars), state parking lot (50 cars), beach access and private homes and rental units near the beach	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	Y

Central Coast Geographic Response Area 2, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Aptos Creek Inlet	3-270	F	Seascape Resort and Conference Center 120 Seascape Ridge Drive Aptos, CA 95003	(831) 688-6800	N
Aptos Creek Inlet	3-270	E	La Selva Beach Private. Access via locked gate.	Private. La Selva Beach Recreation District Clubhouse 314 Estrella Avenue La Selva Beach, CA 95076 (831) 684-0838	N
Manresa and Sunset State Beaches	3-280	E	Manresa State Beach Recreational area; 63 tent campsites; 300 day use parking Major surfing area	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Sunset State Beach and Palm Beach **(San Andreas Road, off Highway 1)**	3-285	E	Sunset State Beach and Palm Beach Recreational area 90 tent and RV sites; 150 day use parking	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Santa Cruz Co. Resource Planner (831) 454-2580 (work-hours switchboard) (831) 471-1121 (after-hours)	N
Pajaro River Inlet	3-290	F	Pajaro Dunes Waterfront resort, conference center, and residential area	Pajaro Dunes Association (831) 722-4671 CA Dept. Parks and Rec. (831) 649-2810 (24-hour)	N

9872.21 Other Resources and Species of Concern

Please see section 9871.21 for a discussion of this topic.

9872.22 Essential Fish Habitat

Please see Section 9801.2 for a discussion of this topic.

9872.3 Operational Divisions

Please see Section 9871.3 for maps that delineate Operational Divisions for this ACP.

9873 GRA 3 Zmudowski Beach to Point Pinos (Includes Elkhorn Slough Geographic Response Plan)

9873.1 Sensitive Sites

GRA 3 Map 1

Site 3-301 (B) Zmudowski Beach State Park 3
Site 3-305 (A) Moss Landing Inlet 5
Site 3-310 (A) Elkhorn Slough Geographic Response Plan 9
Site 3-325 (C) Salinas River State Beach 27
Site 3-330 (A) Salinas River Inlet 29
Site 3-340 (A) Monterey Bay Dunes 33
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9873.2 Cultural, Historical, Archeological & Economic Resources.....1
9873.21 Other Resources and Species of Concern
9873.22 Essential Fish Habitat

9873.3 Shoreline Operational Divisions.....1

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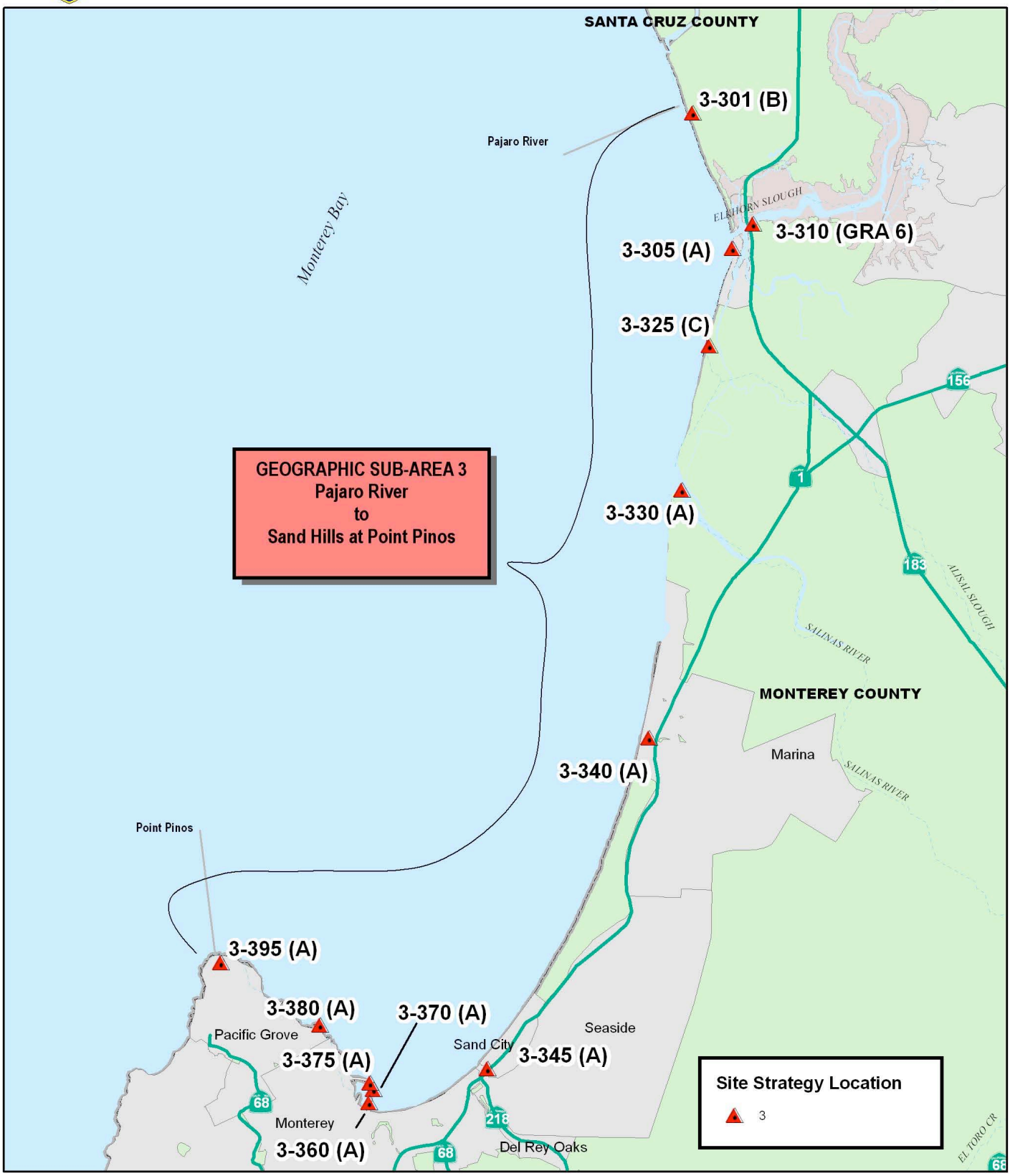
Central Coast Geographic Sub-Area 3 and Site Strategy Locations



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0 2.5 5 Kilometers

0 2.5 5 Miles

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SITE SUMMARY

SITE: 3-301 (B) Zmudowski Beach State Park

County	Monterey
OSPR Map No.	068
Thomas Guide (Monterey Bay Metro Area) Map#	1035
USGS 7.5' Quad	Moss Landing
Lat./ Long.	N 36° 49.8' / W 121 48.2'
http://www.californiacoastline.org Image #s	
Directions and access: Access to the State Park coastal parking area, which gives ready access to the beach, is off Highway 1 at Struve Road via Gilbertson Road [See Map]. Zmudowski State Beach includes most of the beach and dunes between the Pajaro River Inlet and Moss Landing. Follow the unpaved road to the end. At that point is the designated 4WD access to the beach. Access to the beach at the south end of Zmudowski Beach is by way of Moss Landing State Beach. Turn off Highway 1 at the State Beach sign and follow the road to the parking area.	

SITE DESCRIPTION:
Zmudowski Beach State Park. Fine to medium course grain sandy beach.

SEASONAL CONCERNS:
Species of concern discussed below are present year round. Federally threatened western snowy plovers nest on beaches February through September, and use the beaches year-round for feeding and roosting habitat. California least terns (Federally endangered) occasionally use the beach in spring and fall.

RESOURCES OF PRIMARY CONCERN:
Federally threatened western snowy plovers, and other sea and shore birds are present year around. The black legless lizard (candidate species) uses the vegetated dune habitat in this area. Federally threatened Monterey spineflower occurs in the dunes. California endangered Santa Cruz long-toed salamander occurs in McClusky Slough just east of the dunes. Globose dune beetle (candidate species) also uses habitat oceanward of vegetated dunes. Listed and sensitive dune plants include *Gilia tenuiflora*, Menzies wallflower, and *Corizanthe purgens*.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
High recreational use. The entrance to the ecologically diverse Elkhorn Slough is directly adjacent to Zmudowski Beach. Endangered species (snowy plover) may seasonally use Zmudowski Beach, so environmental ranking may be either **A** or **B** depending on presence/absence.

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SITE SUMMARY

SITE: 3-305 (A) Moss Landing Inlet (Elkhorn Slough Entrance)

County	Monterey
OSPR Map No.	068
Thomas Guide (Monterey Bay Metro Area) Map#	1055
USGS 7.5' Quad	Moss Landing
Lat./ Long.	N 36° 48.5' / W 121° 47.7'
http://www.californiacoastline.org Image #s	766, 6930
Directions and access: Access to the beach at the South end of Zmudowski Beach is by way of Moss Landing State Beach. Turn off Highway 1 at the State Beach sign and follow the road to the parking area. The Duke power plant is on the inland side of the Highway.	

SITE DESRCIPTION:
Elkhorn Slough National Research Reserve (owned/managed by NOAA and CDFG), Elkhorn Slough Wildlife Area (owned/managed by CDFG). Extensive marshes and tidal flats (2,500 acres). Moss Landing State Beach (owned/managed by CDPR).

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Elkhorn Slough supports 260 species of birds including endangered clapper rails and brown pelicans. There is a Caspian tern rookery in the south marsh, as well as California least terns. Harbor seals haul out and pup spring-summer. Sea otters (federally listed) have used the area for several years. There are over 400 species of invertebrates including gaper clams, Washington clams, and littleneck clams. The endangered Santa Cruz long-toed salamander and tidewater goby (candidate species) live here. The bank swallow (threatened) can be found at the inlet (NDDB). Within the salt ponds is the mimic *Tryonia* plant species (candidate species, NDDB). The Monterey Indian paint brush is found at Moss Landing State Beach.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810
USCG Marine Safety Office San Francisco Bay, 24-hour Dispatch (415) 399-3547
USCG Station Monterey, 24-hour Dispatch (831) 647-7300
OSPR, 24-hour Dispatch (916) 358-1300
Department of Fish and Game, Elkhorn Slough National Estuarine Research Reserve
Elkhorn Slough Foundation, Director (831) 728-5939
Monterey Bay National Marine Sanctuary, (831) 647-4201
Moss Landing Marine Harbor District, (831) 633-2461 Harbormaster, (831) 633-5417
Moss Landing Marine Laboratories, (831) 633-4400
Monterey County Office of Emergency Services, (831) 755-5010
Monterey Bay Aquarium Research Institute, (831) 775-1700
Monterey County Environmental Health, (831) 755-4511

SITE: 3-305 (A) Moss Landing Inlet (Elkhorn Slough Entrance) -- Continued

California Coastal Commission, (415) 904-5285
U.S. Fish and Wildlife Service, (805) 644-1766
National Marine Fisheries Service, (831) 648-8515
Union Pacific Railroad, 510-437-5344
Duke Energy Company, Moss Landing Power Plant (831) 633-6741
Woodward's Marine, Richard Woodward (831) 633-2620
Gravelle's Boat Yard, Ron Gravelle (831) 633-2417

REMARKS:
The Intake for the Duke Power Plant is in the Moss Landing Harbor. Elkhorn, Bennett and Moro Coho Sloughs and the Old Salinas River Channel connect with the ocean through Moss Landing Harbor. This is the entrance to the ecologically diverse Elkhorn Slough. Moro Cojo Slough exits through Moss Landing Harbor.

Outer beach is recreational area and major surfing site. Inner harbor (boat turning basin) is windsurfing area.

Also site of commercial and recreational harbor (600 berths, 2 boat ramps, small craft refueling dock), seawater intakes, and marine research institutes.

INLET SKETCH MAP

Inlet Name MOSS LANDING INLET, CA.

Recorder(s) MDH/TMH/KM

Date/Time 8 NOV. 1992; 1015

Tide Stage HIGH @ 0809 (+5.4); MOSS LANDING

Inlet Classification A

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

xxxxxxx — Recommended Oil-Catchment Area

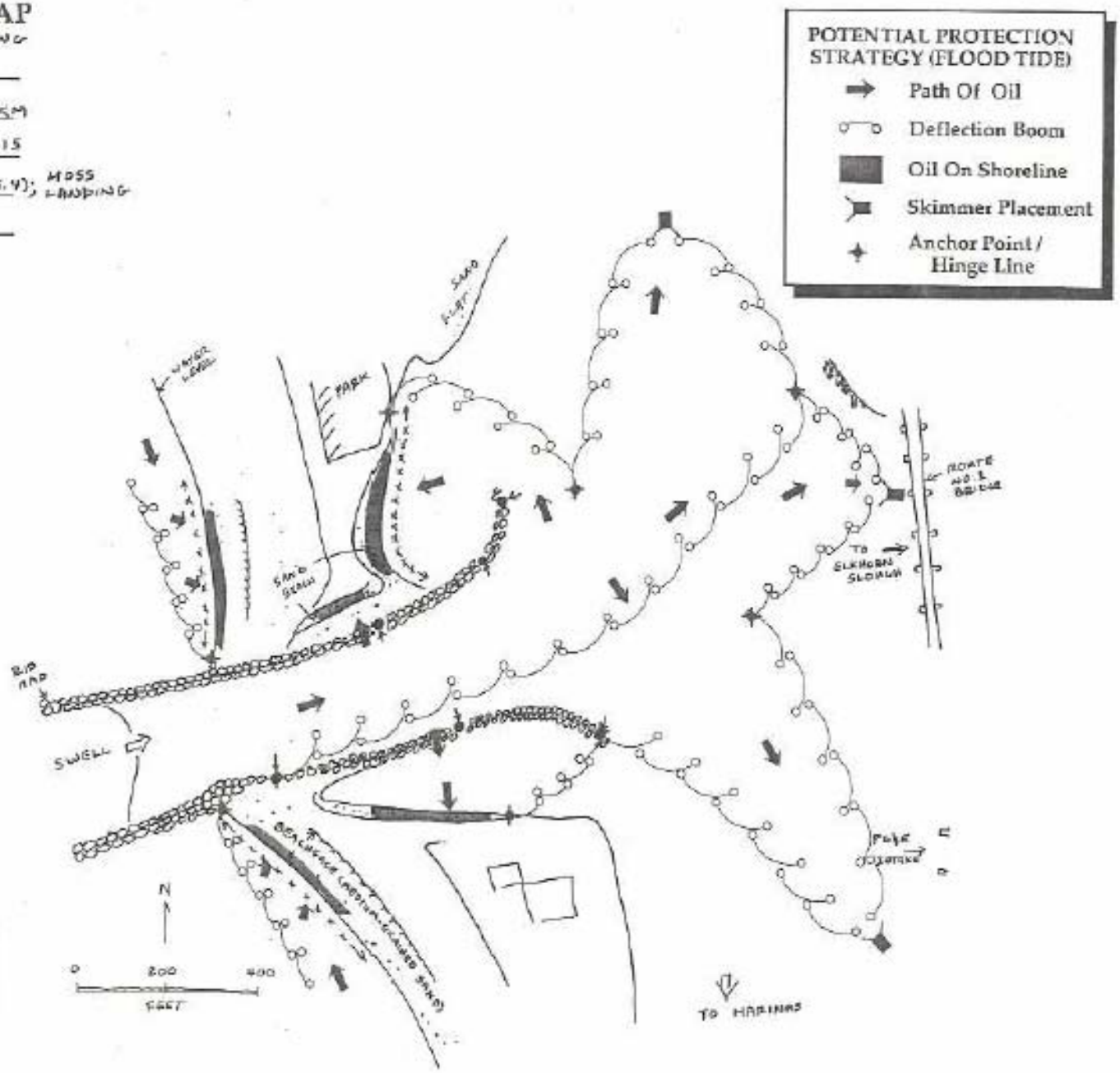
Salt-Water Marsh

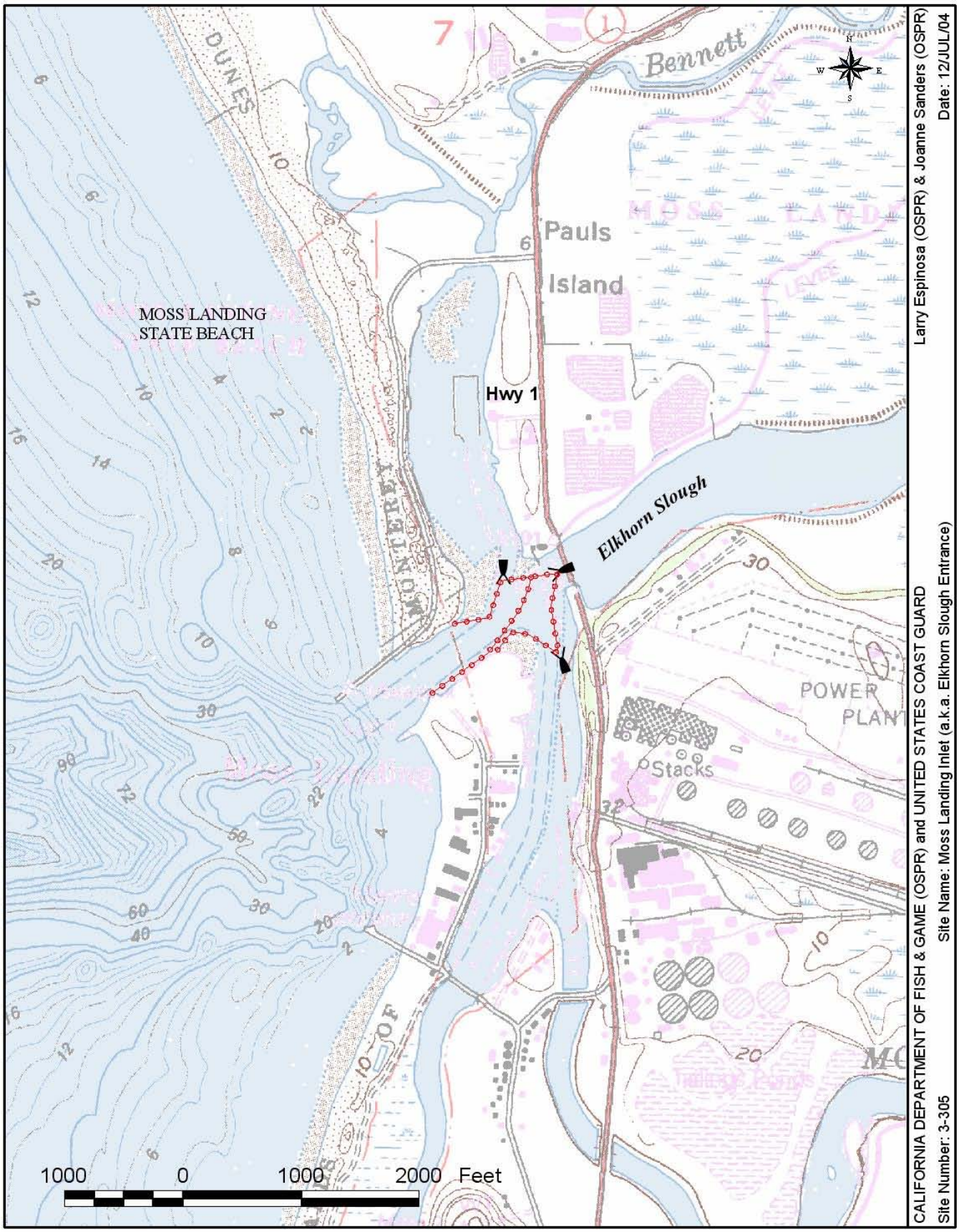
Fresh-Water Marsh

High-Tide Overwash Zone

Last High-Tide Swash Line

ESTABLISHED BOOM ANCHOR POINT




MOSS LANDING
STATE BEACH
Pauls
Island
Hwy 1
Elkhorn Slough
Bennett
DUNES
MONTEREY BAY
POWER
PLANT
Stacks
1000 0 1000 2000 Feet
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Name: Moss Landing Inlet (a.k.a. Elkhorn Slough Entrance)
Site Number: 3-305
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 12/JUL/04

Site 3-310 (A)

ELKHORN SLOUGH GEOGRAPHIC RESPONSE PLAN

INTRODUCTION

General Description: Elkhorn Slough is a salt-water estuary with seasonal freshwater input from winter storms. It joins Monterey Bay through the entrance to Moss Landing Harbor, a rip-rapped channel. The Slough is over seven miles long, roughly shaped like the letter “S”. State Highway 1, a two-lane road, crosses the slough near its entrance, effectively dividing the Slough from Moss Landing Harbor. Traffic on Highway 1, often heavy, is composed of passenger cars, agriculture machinery and trucks, which carry a wide variety of finished products and raw materials, including agricultural produce. About six miles of Union Pacific Railroad track are laid alongside the slough’s main channel. A trestle crosses the entrance to Parson’s Slough, and farther north, another crosses the slough channel almost at its farthest end. The tracks are part of the coastal route which carries AMTRAK passengers and the goods of interstate commerce. Rail and truck cargoes are in bulk, in containers or in tanks. Loads that pose a threat to living natural resources of Elkhorn Slough include oil, industrial chemicals, fertilizers and pesticides.

Currents: Twice-daily tides cause almost all of the water exchange in Elkhorn Slough. Although narrow, the main channel carries large volumes of water which flood large marshes and mudflats on either side of the channel’s full length. As a result, currents are fairly fast. Currents are particularly swift as they pass through restrictions at Highway 1 and the entrance channel at Parson’s slough, and have scoured deep channels.

Hydrology: Elkhorn Slough drains approximately 61.2 square miles of mostly agricultural lands, devoted primarily to dairy farms and truck crops. However, surrounding soils are sandy so little freshwater run-off reaches the slough except during winter rains. It is estimated that a complete water exchange requires about two complete tidal cycles. Although Moss Landing Harbor straddles the slough beyond the Highway 1 bridge, studies indicate there is little mixing of waters between them. Elkhorn Slough tides are characterized as mixed because there is a major high, a major low, a minor high and a minor low tide, in varying sequence, approximately every 24 hours. Greatest currents develop shortly after the tide turns, then diminish as the tide proceeds to slack high or low. Response supervisors should have tide tables or charts to assure worker safety and to plan response actions. Currents are approximately 2.5 knots at maximum flood or ebb.

Access: Elkhorn Slough is surrounded by roads, almost all of which are two-lane. However, direct road access to water’s edge is extremely limited. Union Pacific’s tracks provide the best access for heavy machinery and response equipment; however, access is still limited. The Highway 1 bridge clearance restricts boat size to small skiffs. There is a launch ramp at Kirby Park, but bottom configuration limits boats of any draft to the main channels only, and even there, low tides will sometimes strand them. As a consequence, boat access is limited to small to medium-sized skiffs drawing less than three feet draft. Helicopters may be the best platform for moving personnel and large amounts of response equipment and may also be a means for delivering and towing boom. Elkhorn Slough National Estuarine Research Reserve is managed by California Department of Fish and Game and can be contacted at (831) 728-5939 if a spill should occur in the vicinity of the reserve.

Likely Locations for Spills: Five sites seem vulnerable to spills. Listed in order of likelihood and probable spill severity they are:

1. The trestle crossing the entrance to Parsons's Slough. Wood pilings are set in wet peat soils. Earthquakes cause peat soils to move substantially which weaken the trestle's structure. A spill would seriously affect Parson's Slough and could be carried up and down channel by the next tide cycle. A derailment here would be difficult to deal with effectively because the track is the only way to get wreckage-removal and spill-response equipment to the site.

2. The grade crossing at Kirby Park. The tracks cross the park's entrance drive. There is no crossing gate, only a stop-look-listen sign. A train-motor vehicle collision could cause a spill of the locomotive's diesel fuel, and if there were a derailment, spilled materials could reach the slough, where currents could spread them to marshes and mudflats with almost no access.

3. The trestle crossing the Slough at its upper end. Wood pilings are again set in wet peat soils and vulnerable to earthquake, like the trestle at Parson's Slough. Depending on the tide, materials spilled here could eventually reach the whole slough system. However, its location at the extreme end of the Slough would probably provide more time to protect the most sensitive spots down channel.

4. The Highway 1 bridge. A collision involving a tractor-trailer rig could cause a spill at the Slough's mouth and at a location where currents are some of the fastest. The amount spilled would likely be less than a spill from one or more rail cars, but currents could carry spilled material to areas where there are sensitive marshes and special-status marine mammals are often present.

5. Elkhorn Road bridge over drainage into upper Elkhorn Slough. A collision involving a tractor-trailer rig could cause a spill at the same location as the trestle that parallels the road along this stretch. The spilled amount would probably be less than from a rail car at the same location, and its location at the extreme upper end of the Slough would probably provide more time to protect the Slough's most sensitive spots.

RESPONSE

A spill in any of the listed likely locations will almost surely affect the whole complex of channels, marshes and mudflats that make up Elkhorn Slough. Delay will severely affect response options. Given the Slough's length of just over seven miles and estimating an average current of 1 knot for the six-hour duration of the ebb or flood, within one full tidal cycle, it seems likely a spill in any part of the slough could travel throughout the wetland complex. It further seems likely that protective efforts will be futile after a second full tidal cycle, or one 24-hour period. Given these estimates, time is the most limited and fugitive resource for a spill response at Elkhorn Slough. At present, nearest response equipment and workers are located at Richmond, California and other locations in the San Francisco area. Travel time from Richmond with boats and equipment in tow will be two hours at highway speed limits, more likely three hours or more with typical traffic densities present. Responders will need additional time, a half hour at least, to mobilize and get on the road. When added to delays before notifications are received, it seems likely five or six hours -- or one ebb (or flow) cycle will have passed before responders begin their work. Remote location of responders and equipment argues for staging equipment nearby. Because Union Pacific's tracks traverse much of the Slough, it seems reasonable to suggest resources be cached in rail cars located at Watsonville to the north and at Duke Power Plant, Castroville or Salinas to the south. Additional material should be located in Moss Landing for response

to a spill at the Highway 1 bridge. Observations of driftwood and other debris, along with direction of prevailing winds, indicate spilled materials will be wind-driven to the southern and eastern edges of the channel and into Parson's Slough.

This geographic response plan recommends a response to a spill at each of five locations, and for each, ranks strategies according to estimates of where tide currents might carry spilled materials. The plan addresses not only oil spills but considers spills of chemicals in 24 other categories. For some, no response is necessary; for others, no response is reasonably feasible. Response suggestions are offered for nine categories where response may be possible, after worker health and safety are assured.

Table 1 presents a summary overview of the Slough, its living resources and ranked strategies to protect them.

Table 2 presents ranked strategies for spills at each location depending on tide.

Figure A illustrates the strategies.

Figure B portrays the rank order for deploying equipment for a spill at each location depending on the tide. The plan assumes health and safety will be protected and does not deal with this issue. It does it address securing the spill or containing the spill at its source to the extent possible. These issues will be dealt with during incident response plans.

Likely Spill Locations & Possible Trajectories:

Listed in order of probable severity of adverse effect. Please also refer to Figure A.

(1) Derailment at Parson's Slough Trestle.

The tracks crossing Elkhorn Slough are part of the interstate coastal rail route. Trains carry passengers and goods of all kinds, including oil and hazardous materials. Access is limited except by railroad. Thus, a derailment at this site would present a serious threat to the Slough's living natural resources and a difficult cleanup problem. A derailment would likely cause several rail cars to fall into slough waters or onto mudflats alongside the rails.

Parson's Slough inlet is approximately at the midpoint of the major tidal volume. A spill at this point would spread over the slough on a flood tide, spread to Moss Landing Harbor on an ebb tide, then, on the following flood, would likely split. One portion would re-enter Parson's Slough and the other would continue up channel to contaminate Elkhorn Slough's middle reach and beyond. It's highly likely that the entire estuarine system would be contaminated by the end of two full tidal cycles. Prevailing winds would most probably drive spilled materials to Elkhorn Slough's eastern shoreline and perhaps deeper into Parson's Slough.

Parson's Slough is home to several protected species. The south side of the channel to Parson's slough is a harbor seal haulout area, and the north side is a Caspian tern rookery. In addition, southern sea otters raft in the main section of the Slough, just to the east of the channel.

(2) Collision with auto and possible derailment at Kirby Park.

The entrance to Kirby Park crosses the tracks approximately two thirds of the distance between Highway 1 and Elkhorn Slough's uppermost limit. There is no barrier gate nor flashing signal, only a Stop-Look-Listen sign. A motor vehicle struck by a train as the auto crossed the tracks could cause a derailment possibly resulting in spilled product flowing into the slough. Good vehicle access to the park will make wreckage removal easier than at other likely spill locations. However, marshes and other natural areas are nearby where access is limited. Additionally, responders on foot could cause as much damage to living resources as the spill itself.

Kirby Park is adjacent to several large mudflats. Flood tides would likely carry contaminants into the upper most reaches of the slough. Ebb tides would carry spilled materials into the middle reach, and almost certainly by the second ebb, to Moss Landing Harbor. Prevailing winds would probably tend to keep contaminants on the east side of the channel.

The Caspian tern rookery is seaward of Kirby Park. Shore birds and waterfowl are abundant year round, and seasonally superabundant. Mudflats support many invertebrates which make the foundation of Elkhorn Slough's food pyramid.

(3) Derailment at northern trestle near Elkhorn Road.

The northern trestle crosses Elkhorn Slough channel almost at its upper end. A derailment at this location would almost certainly result in one or more rail cars in the slough. Elkhorn Road parallels the tracks here and provides some access to aid cleanup operations.

A flood tide would likely spread contaminants to the slough's uppermost limits. Ebb tides would carry spilled materials past the mudflats, rookery, haulouts and otter rafts already mentioned. Water at this site is probably too shallow for all but the smallest boats. Thick mud presents a safety hazard to response workers.

A spill at this site would adversely affect waterfowl, shorebirds and invertebrates.

(4) Collision at Highway 1 bridge.

Highway 1 crosses Elkhorn Slough where it joins with Moss Landing Harbor. A spill at this point would affect the lower to middle reaches of the slough and would likely spread into the harbor. In addition, annual or monthly highest tides could carry contaminants to the uppermost reaches. The road provides good access for wreckage removal and makes logistics for spill response easiest at this site of all the likely spill locations. In addition, each tractor-trailer carrying goods holds about half the quantity transported by its railroad counterpart. The bridge is fairly distant from the most sensitive habitats. As a consequence of these two factors, a spill at Highway 1 poses a smaller threat than railroad spills.

Flood tides and prevailing winds will carry spilled materials well into the middle reaches of the slough and perhaps into Parson's slough. Contaminants would probably spread over the mudflats at the Moss Landing Wildlife Area. Ebb tides could carry spilled material into either arm of Moss Landing Harbor and out the harbor entrance into Monterey Bay.

In addition to threats to living resources mentioned earlier, a spill from the bridge could affect intertidal invertebrates, waterfowl and shorebirds in the Wildlife Area and in the harbor where sea otters might also be at risk.

(5) Collision at or near Elkhorn Road bridge.

Elkhorn Road crosses a major drainage to Elkhorn Slough, but at a point above the slough proper. A collision in this vicinity could cause contaminants to flow into the slough's upper reaches. Spilled quantities would likely be one or two truckloads of a wide variety of goods, including agricultural chemicals.

Flow into the slough may or may not occur, depending on whether tides reach the spill site or if it is raining.

Living resources in this vicinity include those mentioned earlier for the trestle located nearby. In addition, upland and riparian habitats and species might be affected.

Figure A on the following page maps the five most probable spill locations described above. The figure also shows the subdivisions (lettered A-L) that will form the response zones for each of those hypothetical spill sites. Table 1 then describes each of those zones, and the response strategies, equipment and personnel needed to achieve the best protection for each zone. Table 2 describes the response priority for each zone relative to spill location.

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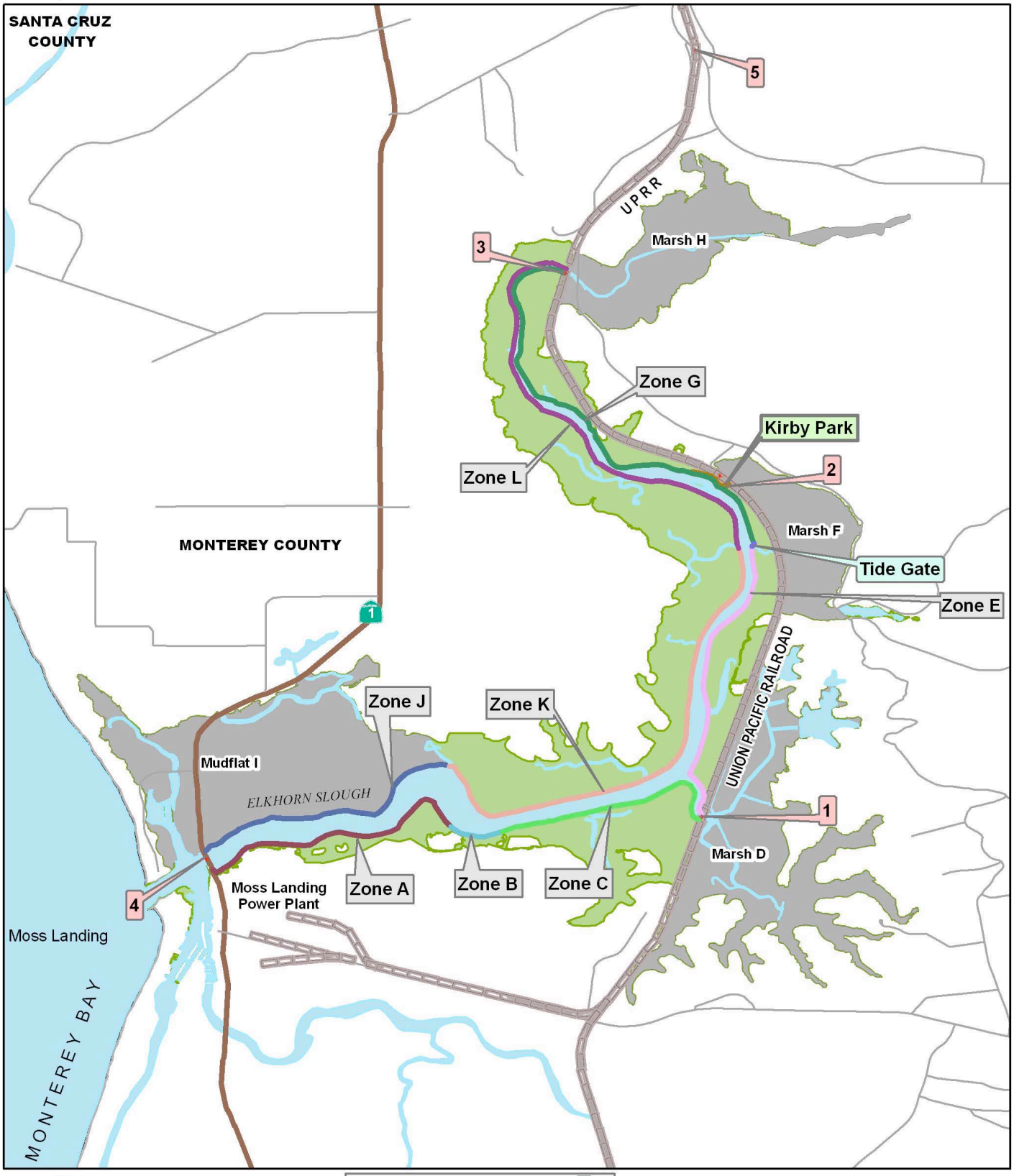
Central Coast Sub-Area 6
Elkhorn Slough Geographic Response Plan



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Likely Spill Location 1

Shoreline Protection Zone Zone

0 0.5 1 Kilometers

0 0.5 1 Miles

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TABLE 1: RESPONSE SUBDIVISION (ZONE) DESCRIPTIONS, RESPONSE STRATEGIES AND ESTIMATED RESPONSE EQUIPMENT

Zone		
A	Description:	South side Hwy. 1 bridge to west edge of rip-rap
	Length of shoreline or acreage:	6000’
	ESI type:	Salt marsh
	Vulnerability rank (1 to 12, 1 high):	4
	Wildlife resources:	Waterfowl, diving birds, gulls, terns, sea otters, harbors seals, sea lions.
	Shoreline protection strategy:	Deploy swamp boom along shore between rip-rap at Hwy. 1 bridge to edge of Zone B.
	Estimated response equipment and personnel: **Special comments:**	6000’ swamp boom or equivalent sorbent or polymer-sorbent boom. 4 skiffs, 8 workers 1 tender skiff, 2 workers 1 pump and pump/barge (or equivalent) for skimmed material (can be shared with other zones).
B	Description:	West edge to east edge of rip-rap
	Length of shoreline or acreage:	1000’
	ESI type:	Rip-rap
	Vulnerability rank (1 to 12, 1 high):	9
	Wildlife resources:	Waterfowl, diving birds, gulls, terns, sea otters, harbors seals, sea lions
	Shoreline protection strategy:	Deploy swamp boom along shore to edge of Zone C to prevent spilled material from lodging in spaces between rocks.
	Estimated response equipment and personnel: **Special comments:**	1000’ swamp boom, or equivalent sorbent or polymer-sorbent boom. 1 skiff, 2 workers 1 tender skiff, 2 workers 1 pump and pump/barge (or equivalent) for skimmed material (can be shared with other zones).

TABLE 1, continued.

Zone		
C	Description:	East edge of rip-rap to Parson's Slough inlet
	Length of shoreline or acreage:	6000'
	ESI type:	Salt marsh
	Vulnerability rank (1 to 12, 1 high):	2
	Wildlife resources:	Waterfowl, diving birds, gulls, terns, sea otters, harbors seals, sea lions.
	Shoreline protection strategy:	Deploy swamp boom along shore to edge of Zone D; boom inlet with multiple chevron tiers of swamp boom and skimmers. Service from RR tracks or boats as feasible. Consider putting collected material in floating bladder-tanks.
	Estimated response equipment and personnel:	6000' swamp boom, or equivalent sorbent or polymer-sorbent boom. 4 skiffs, 8 workers 1 tender skiff, 2 workers 1 pump and pump/barge (or equivalent) for skimmed material (can be shared with other zones).
	Special comments:	**Harbor seal haulout.** **Avoid foot traffic on mudflats. Use airboats and, where appropriate, ATV,** **Focus effort on NRDA.**

TABLE 1, continued.

D	Description:	Parson's Slough
	Length of shoreline or acreage:	449.4 acres
	ESI type:	Salt marsh, tidal flat
	Vulnerability rank (1 to 12, 1 high):	1
	Wildlife resources:	Waterfowl, wading birds, shore birds, intertidal invertebrates.
	Shoreline protection strategy:	Set up V-shaped boom on either side of bridge, with skimmer at throat. Provide 2nd and 3rd tier as possible and needed inland. End cleanup effort if oil reaches mudflat or beyond, in favor of natural recovery.
	Estimated response equipment **and personnel:** **Special comments:**	8000' swamp boom, or equivalent sorbent or polymer-sorbent boom. 4 skiffs, 6 workers 1 tender skiff, 2 workers 1 pump and pump/barge (or equivalent) for skimmed material (can be shared with other zones). **Avoid foot traffic on mudflats. Use airboats and, where appropriate, ATV,** **Focus effort on NRDA.**
E	Description:	Parson's Slough Inlet to tide gate
	Length of shoreline or acreage:	8000'
	ESI type:	Salt marsh
	Vulnerability rank (1 to 12, 1 high):	3
	Wildlife resources:	Water fowl, diving birds, wading birds, gulls and terns, sea otters.
	Shoreline protection strategy:	Deploy swamp boom along shore to edge of Zone E. Close tide gate.
	Estimated response equipment and personnel: **Special comments:**	8000' swamp boom, or equivalent sorbent or polymer-sorbent boom. 4 skiffs, 8 workers 1 tender skiff, 2 workers 1 pump and pump/barge (or equivalent) for skimmed material (can be shared with other zones). **Caspian tern rookery on islands south of eucalyptus trees.** **Avoid foot traffic on mudflats. Use airboats, and where appropriate, ATV.** **Focus effort on NRDA.**

TABLE 1, continued.

F	Description:	Mudflat behind tide gate
	Length of shoreline or acreage:	17.5 acres
	ESI type:	Salt marsh, tidal flat.
	Vulnerability rank:	8
	Wildlife resources:	Waterfowl, wading birds, shore birds, intertidal invertebrates.
	Shoreline protection strategy:	Close tide gate. If needed, set up V-shaped boom behind tide gate, with skimmer at throat. End cleanup effort if spilled oil reaches mudflat or beyond, in favor of natural recovery.
	Estimated response equipment and personnel: **Special comments:**	300' boom (150' each leg), 4 anchors. 4 workers working from shoreline. 2-person tender crew. 1 pump and receptacle for skimmed material.
G	Description:	Tide gate to intersection with northern trestle
	Length of shoreline or acreage:	12000'
	ESI type:	Salt marsh, tidal flat
	Vulnerability rank (1 to 12, 1 high):	12
	Wildlife resources:	Water fowl, wading birds, shore birds, intertidal invertebrates.
	Shoreline protection strategy:	Deploy swamp boom along shore to edge of tidal influence.
	Estimated response equipment and personnel: **Special comments:**	12000' swamp boom, or equivalent sorbent or polymer-sorbent boom. 6 skiffs, 12 workers 1 tender skiff, 2 workers 1 pump and pump/barge (or equivalent) for skimmed material (can be shared with other zones). **Avoid foot traffic on mudflats. Use airboats, and where appropriate, ATV.**

TABLE 1, continued.

H	Description:	Northeast side of northern trestle to farthest reaches of Slough, east and north side.
	Length of shoreline or acreage:	16, 000', 250.4 acres
	ESI type:	Salt marsh, tidal flat
	Vulnerability rank (1 to 12, 1 high):	10
	Wildlife resources:	Water fowl, wading birds, shore birds, intertidal invertebrates.
	Shoreline protection strategy:	Close tide gates. If feasible, set V-shaped boom at trestle with skimmer at throat. Alternatively, deploy swamp boom fro one foot of trestle to farm road to east; deploy swamp boom along shore to edge of tidal influence.
	Estimated response equipment and personnel:	5000' swamp boom, or equivalent sorbent or polymer-sorbent boom, with 1 skimmer and 10 workers with hammers, stakes and shovels. For each V-shaped boom placement: 200' swamp boom (100' each leg), 1 skimmer and 4 anchors, 2 skiffs and 4 workers. 1 tender skiff, 2 workers 1 pump and pump/barge (or equivalent) for skimmed material (can be shared with other zones). Vacuum truck at farm road.
	Special comments:	**Avoid foot traffic on mudflats. Use airboats, and where appropriate, ATV.** **Focus effort on NRDA.**

TABLE 1, continued.

I	Description:	Moss Landing Wildlife Area (MLWA)
	Length of shoreline or acreage:	317.9 acres
	ESI type:	Salt marsh, tidal flat
	Vulnerability rank (1 to 12, 1 high):	11
	Wildlife resources:	Water fowl, wading birds, shore birds, intertidal invertebrates.
	Shoreline protection strategy:	If feasible with daily tides, at leach low point or channel, set up V-shaped boom with skimmer at throat. End cleanup effort if material reaches mudflat or beyond, in favor of natural recovery.
	Estimated response equipment and personnel: **Special comment:**	For each V-shaped boom placement: 200' swamp boom (100' each leg), 1 skimmer and 4 anchors, 2 skiffs and 4 workers. 1 tender skiff, 2 workers 1 pump and pump/barge (or equivalent) for skimmed material (can be shared with other zones). **Avoid foot traffic on mudflats. Use airboats, and where appropriate, ATV.**
J	Description:	North side of Hwy. 1 bridge to east edge of MLWA
	Length of shoreline or acreage:	5000'
	ESI type:	Salt marsh
	Vulnerability rank (1 to 12, 1 high):	5
	Wildlife resources:	Water fowl, diving birds, gulls and terns, sea otters, harbor seals, sea lions.
	Shoreline protection strategy:	Deploy swamp boom along shore to edge of Zone G. Block low spots on natural berm to prevent contamination of mudflat.
	Estimated response equipment and personnel: **Special comment:**	5000' swamp boom, or equivalent sorbent or polymer-sorbent boom. 3 skiffs, 6 workers. 1 tender skiff, 2 workers. 1 pump and pump/barge (or equivalent) for skimmed material (can be shared with other zones).

TABLE 1, continued.

K	Description:	East edge MLWA to inlet across from Kirby Park.
	Length of shoreline or acreage:	14000'
	ESI type:	Salt marsh, tidal flat
	Vulnerability rank (1 to 12, 1 high):	6
	Wildlife resources:	Water fowl, diving birds, gulls and terns, sea otters, harbor seals.
	Shoreline protection strategy:	Deploy swamp boom along shore to edge of Zone H.
	Estimated response equipment and personnel:	14000' swamp boom, or equivalent sorbent or polymer-sorbent boom. 7 skiffs, 14 workers. 1 tender skiff, 2 workers. 1 pump and pump/barge (or equivalent) for skimmed material (can be shared with other zones).
	Special comment:	**Avoid foot traffic on mudflats. Use airboats, and where appropriate, ATV.** **Focus effort on NRDA.**
L	Description:	Inlet across from Kirby Park to intersection with northern trestle.
	Length of shoreline or acreage:	11000'
	ESI type:	Salt marsh, tidal flat
	Vulnerability rank (1 to 12, 1 high):	7
	Wildlife resources:	Water fowl, diving birds, wading birds, gulls and terns, sea otters, harbor seals, intertidal invertebrates.
	Shoreline protection strategy:	Deploy swamp boom along shore to edge of Zone I.
	Estimated response equipment and personnel:	11000' swamp boom, or equivalent sorbent or polymer-sorbent boom. 6 skiffs, 12 workers. 1 tender skiff, 2 workers. 1 pump and pump/barge (or equivalent) for skimmed material (can be shared with other zones).
	Special comments:	

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TABLE 2: OIL SPILL RESPONSE STRATEGIES

Spill Location		Response priority for spill sites General spill location, numbered 1-5, described above. Depending on whether flood or ebb tide, protect nearby (lettered) sites (described in Table A) in the priority order presented.
1	**Derailment at Parson's Slough trestle**	**Flood: D, E, G, F, K, L, H, C, I, A, J, B** **Ebb: C, K, I, A, J, D, E, G, F, H, L, B**
2	**Collision with auto and possible derailment at Kirby Park**	**Flood: G, H, F, L, E, K, D, C, J, I, A, B** **Ebb: H, G, F, L, E, K, D, C, J, I, A, B**
3	**Derailment at northern trestle near Elkhorn Road**	**Flood: H, G, L, F, E, K, D, C, A, I, J ,B** **Ebb: G, L, E, F, H, K, D, C, A, I, J, B**
4	**Collision at Highway 1 bridge**	**Flood: I, A, J, C, D, K, E, B, G, L, F, H** **Ebb: I, A, J, C, D, K, E, B, G, L, F, H**
5	**Collision at or near Elkhorn Road bridge**	**Flood: H, G, L, F, E, D, C, K, J, I, A, B** **Ebb: H, G, L, F, E, D, C, K, J, I, A, B**

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SITE SUMMARY

SITE: 3-325 (C) Salinas River State Beach

County	Monterey
OSPR Map No.	068
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1055
USGS 7.5' Quad	Moss Landing
Lat./ Long.	N 36° 47.6' / W 121° 47.8'
http://www.californiacoastline.org Image #s	773, 781, 6948, 6949
Directions and access: There are four access points. Northern-most: Hwy.1 to Sandholdt Road, cross single-lane bridge and turn left into parking lot. Foot and vehicle access via boardwalk. Second: Hwy 1 to Potrero Rd. to end. Foot and vehicle access through gate. Third: Hwy 1 to Molera Rd. to Monterey Dunes Way to the end. Foot and vehicle access through gate. Southern-most: Hwy 1 to Monterey Dunes Way. At intersection, bear left to continue south on Monterey Dunes Way to the end. Farm road is slippery during wet season or when irrigation occurs. Call California Department of Park and Recreation Dispatch for access through gates, guidance, and sensitive areas, especially for the southern-most access. Park boundary on the north is Sandholdt Bridge, on the south is the Salinas River. Approximately 4 miles. Seasonal (nesting) snowy plover presence will affect vehicle access.	

SITE DESCRIPTION:
Fine to medium-course grain sand beach backed by vegetated dunes. River mouth meanders up to a mile at times. The beach is exposed to open ocean waves and high surf, especially during storms. Currents, generally northward, cause driftwood accumulation, heavy at times. Ocean beach is 100% sand (ESI 3). The Monterey Dunes Colony, a residential area, is located in the upland area. Salinas River Wildlife Area (managed by U.S. Fish and Wildlife Service (805-644-1766) is also nearby).

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
This beach is nesting habitat for snowy plovers (threatened). Other shore and seabirds are also present. Pismo clams can be found. Squid spawn just off-shore during spring and summer months. The north end of this beach is habitat for the black legless lizard (candidate species). The short-eared owl can be found at the mouth of the Salinas River (NDDB). On the dunes, the plant species, Monterey gilia (endangered), can be found. The entrance to the ecologically diverse Salinas River Mouth lagoon is directly adjacent to the South end of Salinas River State Beach. Dunes in this unit support the best example of native dune vegetation in the Monterey Bay Area.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
High recreational use. Beach walking, bird watching, horseback riding, picnicking and non-water contact recreation are the typical beach uses. Also, there is surf fishing, clamming, surfboarding and other water contact use. The entrance to the ecologically diverse Elkhorn Slough is directly adjacent to the Salinas River State Beach.

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SITE SUMMARY

SITE: 3-330 (A) Salinas River Inlet

County	Monterey
OSPR Map No.	068
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1075
USGS 7.5' Quad	Moss Landing
Lat./ Long.	N 36° 45.1' / W 121° 48.5'
http://www.californiacoastline.org Image #s	201401987, 794, 795, 796, 857, 858, 870, 201401987

Directions and access: There are four access points. Northern-most: Hwy.1 to Sandholdt Road, cross single-lane bridge and turn left into parking lot. Foot and vehicle access via boardwalk. Second: Hwy. 1 to Potrero Rd. to end. Foot and vehicle access through gate. Third: Hwy. 1 to Molera Rd. to Monterey Dunes Way to the end. Foot and vehicle access through gate. Southern-most: Hwy. 1 to Monterey Dunes Way. At intersection, bear left to continue south on Monterey Dunes Way to the end. Farm road is slippery during wet season or when irrigation occurs. Call California Department of Park and Recreation Dispatch for access through gates, guidance, and sensitive areas, especially for the southern-most access. Park boundary on the north is Sandholdt Bridge, on the south is the Salinas River. Approximately 4 miles.

SALINAS RIVER INLET AND LAGOON:

From Moss Landing take Hwy 1 south. Turn right on to Molera road. Drive to the end of the road. This is Monterey Dunes Colony. Private Property! Note: This is a special biological area. Access is limited, based on the condition of the Inlet and Lagoon. If it is flooded, which can be at any time of the year, access is physically impossible. If it is not flooded, but snowy plover are nesting, access is not permitted either. To gain access to this critical site at any time, it must be cleared in advance by calling John Warriner, snowy plover expert, a resident at Pajaro Dunes Colony, at (831) 722-5589.

Seasonal (nesting) snowy plover presence will affect vehicle access.

SITE DESCRIPTION:
Well developed marsh on banks of river. The inlet is partly within the Salinas National Wildlife Refuge (south side of inlet) and the Salinas River State Beach (north side of inlet). Designated a State Natural Preserve.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Large numbers of birds, including waders, waterfowl, seabirds and shorebirds such as the endangered brown pelican, and threatened snowy plover can be found. Steelhead trout are in this anadromous stream. Also, Smith's blue butterfly, black legless lizard, dune gilia. Plants: Monterey spine flower, Monterey Indian paintbrush.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810
OSPR, 24-hour Dispatch (916) 358-1300
U.S. Fish and Wildlife Service (805) 644-1766
Monterey County, (831) 724-8228

REMARKS: None.

SITE PROTECTION STRATEGY

SITE: 3-330 (A) **Salinas River Inlet**

PROTECTION STRATEGY:
The river may or may not be flowing. If needed, use native sand to reinforce the natural berm, or create a berm across an open river mouth to prevent oil flow up the river. Chevron booming at the river mouth may also be appropriate depending on river status (breached or unbreached). Plover habitat is generally well marked, but check for plover presence before disturbing the site. The beach is broad enough for large 4WD vehicle access from either the Salinas River State Beach (Site 3-325 for directions) or Marina State Beach (Site 3-345 for directions).
COLLECTION POINTS:

RECOMMENDED RESOURCES:
Boom: 2000' of swamp boom, 2000' of oil snare (pompom)
Other: 2000 sand bags, 3600' PVC pipe/fittings for siphons, 2 ATVs, skip-loader, very shallow draft boom boat,

PERSONNEL REQUIRED:
10 personnel

INLET SKETCH MAP

Inlet Name SALINAS RIVER INLET, CA.

Recorder(s) MDH\TMM

Date/Time 8 NOV. 1992, 0900

Tide Stage HIGH @ 0811 (4.6); MONTEREY BAY

Inlet Classification C

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

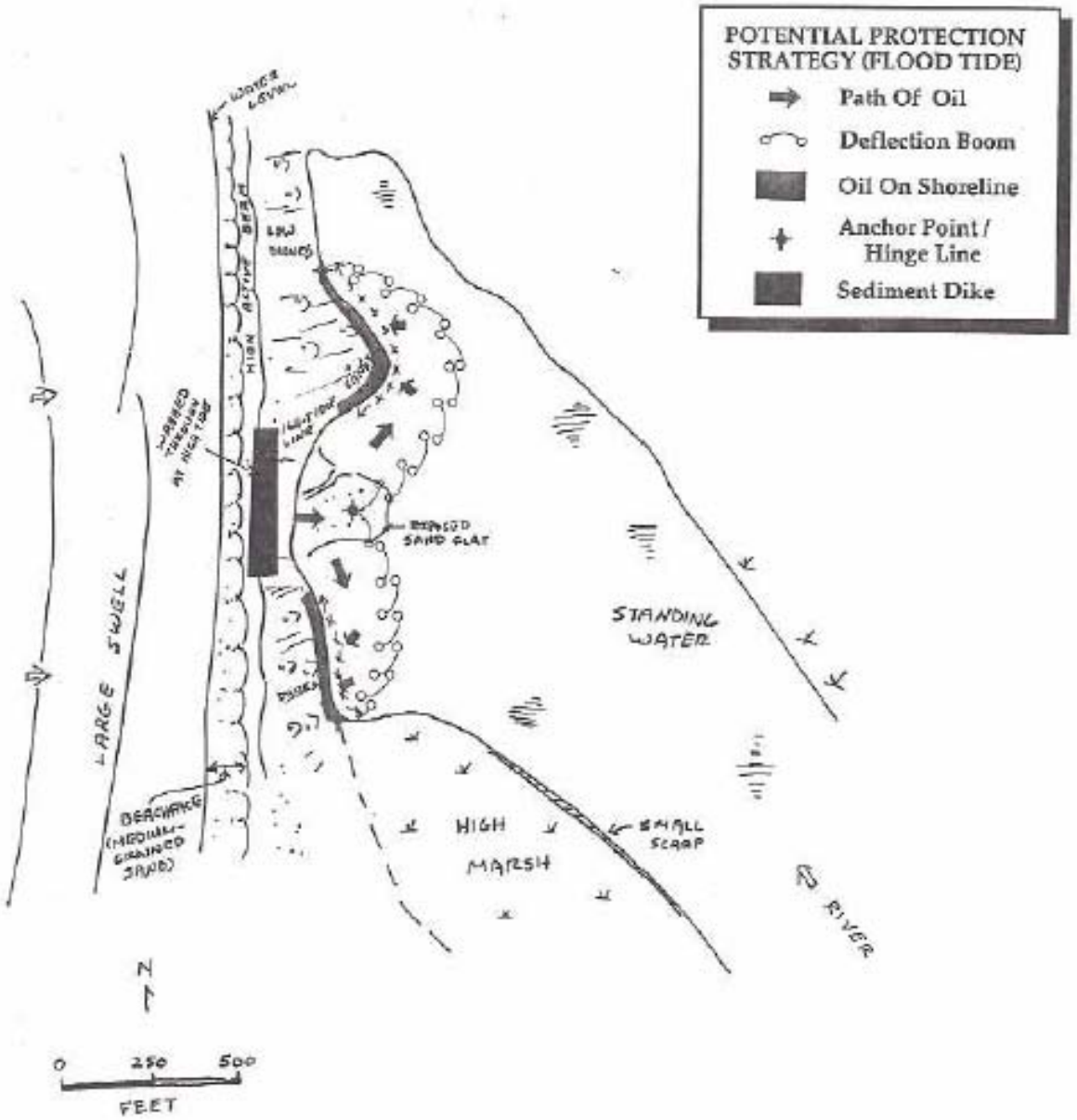
Recommended Oil-Catchment Area

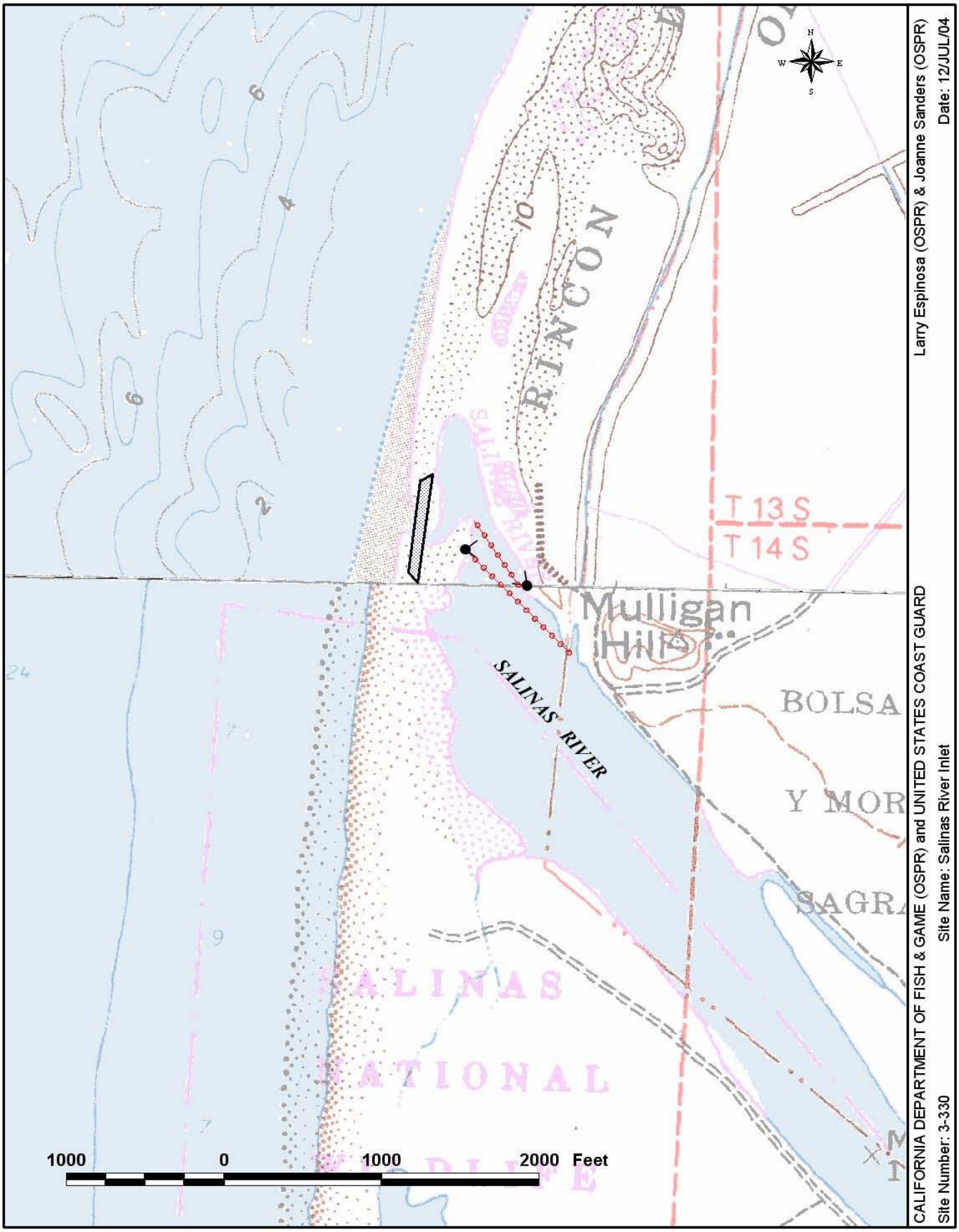
Salt-Water Marsh

Fresh-Water Marsh

High-Tide Overwash Zone

Last High-Tide Swash Line

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CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Number: 3-330
Site Name: Salinas River Inlet
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 12/JUL/04

SITE SUMMARY

SITE: 3-340 (A) Monterey Dunes Colony

County	Monterey
OSPR Map No.	072
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1055, 1075
USGS 7.5' Quad	Seaside
Lat./ Long.	N 36° 46.1' / W 121° 48.2'
http://www.californiacoastline.org Image #s	850, 6955, 6956

Directions and access: There are four access points. Northern-most: Hwy.1 to Sandholdt Road, cross single-lane bridge and turn left into parking lot. Foot and vehicle access via boardwalk. Second: Hwy. 1 to Potrero Rd. to end. Foot and vehicle access through gate. Third: Hwy. 1 to Molera Rd. to Monterey Dunes Way to the end. Foot and vehicle access through gate; access code #1776. Southern-most: Hwy. 1 to Monterey Dunes Way. At intersection, bear left to continue south on Monterey Dunes Way to the end. Farm road is slippery during wet season or when irrigation occurs. Call California Department of Park and Recreation Dispatch for access through gates, guidance, and sensitive areas, especially for the southern-most access. Park boundary on the north is Sandholdt Bridge, on the south is the Salinas River, approximately 4 miles. Access to the former Fort Ord beaches and dunes will be restricted to the public until the Army's cleanup activities are completed.
Oil spill response personnel contact Ord Military Community,
24 hour Emergency Number (831) 242-7851 or California State Park 24-hour Dispatch (831) 649-2810.
Rock slope protection for Stillwell Hall, the former soldier's club, occupies the beach for approximately 150 meters and prevents lateral beach access from Marina State Beach to Seaside State Park. Stillwell Hall bisects the shoreline. No vehicles are able to cross the beach at that point. Access to the north portion of the beach is via Marina State Beach. To access the southern half, call State Park Dispatch for directions.
Seasonal (nesting) snowy plover presence will affect vehicle access.

SITE DESCRIPTION:
Fine to medium grained sandy beach. Salinas River Inlet (CC-029-A) is immediately down the coast from the Monterey Dunes Colony. Salinas River State Beach (CC-023-C) is seaward of the dunes.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Snowy plovers (threatened) use this beach, as well as other shore and seabirds such as willets and sanderlings. Squid spawn offshore during spring and summer. The black legless lizard (candidate species) also uses this area. Plant species include the Monterey spineflower (proposed endangered), and the Monterey gilia (endangered, NDDB).

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Monterey Dunes Colony, Daytime (831) 633-4000 General Manager Cell (831) 809-4265
California Department of Parks and Recreation, 24 hour (831) 649-2810
OSPR, 24-hour Dispatch (916) 445-0045
U.S. Fish and Wildlife Service (805) 644-1766
Ord Military Community, 24 hour Emergency (831) 242-7851

REMARKS: Monterey Dunes Colony is a waterfront residential area.

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SITE SUMMARY

SITE: 3-345 (A) Marina State Beach

County	Monterey
OSPR Map No.	070
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1094
USGS 7.5' Quad	Marina
Lat./ Long.	
http://www.californiacoastline.org Image #s	
Directions and access: Take Hwy. 1 to the city of Marina. Turn right at Reservation Rd. to a 75-car coastal access parking lot. Facilities are available, including rest rooms. The primary access point to the beach is from the Reservation Rd. parking area at the north end of the State Beach. Vehicle access (4WD/ATV only) available from left side of parking lot. Seasonal (nesting) snowy plover presence will present access concerns.	

SITE DESCRIPTION:
Fine to medium grain sand beach backed by high vegetated dunes. A State Park Lifeguard works out of Marina State Beach. Fort Ord Dunes State Park abuts Marina State Beach on the south.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Plant species of concern in the dunes include: Menzies' wallflower (endangered), Monterey spineflower (threatened), dune gilia (endangered). Birds include snowy plover (threatened) and other shorebirds. The black legless lizard (candidate species), and the globose dune beetle (candidate species) can be found in the dunes. These species of concern are present year round. Western snowy plovers nest on the beaches March through September and are present year round. Dune gilia is in flower from November through May or through June in years of high rainfall.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810
Marina Sand Mining RMC Lonestar, (831) 429-7200
U.S. Army/CA State Parks Presidio of Monterey (POM) Annex Police, (831) 242-5634

REMARKS:
A concession-operated hang-gliding training facility is located at the Reservation Road parking area. The offices and facilities of the Marina Coast Water District are just north of the Reservation Road parking area. The water district operates a water reclamation plant and a seawater desalination plant on their property. An intake well for the desalination plant is under the beach west of the state beach parking area. A State Park Peace Officer residence is located near the entrance gate. The beaches and dunes north to the Salinas River National Wildlife Refuge are partially privately owned and partially owned by public entities and a Land Trust. They contain significant habitat values, similar to Marina State Beach. A sand-mining business is also nearby.

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SITE SUMMARY

SITE: 3-360 (A) Monterey State Beach

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1134, 1133
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 36.4' / W 121° 52.9'
http://www.californiacoastline.org Image #s	200402113, 1000
Directions and access: Traveling South on Hwy. 1, after passing Fort Ord Entrance, take the Seaside turnoff which puts you on Del Monte Boulevard. Continue past the Naval Post Graduate School to Figueroa Street and turn right. Straight ahead is the Municipal Wharf, to the left is parking and to the right are the beaches. Vehicle access available on upcoast side of commercial wharf. Seasonal (nesting) presence of snowy plovers will affect vehicle access.	

SITE DESCRIPTION:
Monterey State Beach consists of a fine to medium-grained sandy beach backed by dunes. It extends from near Wharf #2 in Monterey to Tioga Rd. in Sand City. The City of Monterey manages the portion in Monterey near the wharf and along Del Monte Blvd. North of that area is a stretch of beach managed by the Naval Postgraduate School. Proceeding north is Del Monte Beach managed and owned by the City of Monterey. The dunes and beaches north of the Ocean Harbor House Condominiums are managed by State Parks. The outlet for Roberts Lake occurs just north of the hotel.

SEASONAL CONCERNS:
The western snowy plover nests March through September. The other species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
The western snowy plover nests on the beaches and in the sparsely vegetated dunes. The black legless lizard (candidate species) occupies the dune habitat. The threatened Monterey spineflower and the coast and dune buckwheat, host plants for the endangered Smith's blue butterfly, occur in the dunes.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810
Monterey Chamber of Commerce, (831) 648-5360
Monterey Bay Aquarium, (831) 648-4810
City of Monterey, (831) 646-3935

REMARKS:
There is a major storm water outfall for the City of Seaside at Bay Avenue in Sand City. At Bay Avenue is a sewer pump station operated by the Monterey Peninsula Water Pollution Control Agency. Monterey Beach Hotel (831-394-3321), Ocean Harbor House Apartments (831-655-7840) and Naval Postgraduate School (831-656-2441) adjoin.

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SITE SUMMARY

SITE: 3-370 (A) Monterey Harbor Entrance

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1133
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 36.5' / W 121° 53.1'
http://www.californiacoastline.org Image #s	1002-1009, 13663-13674
Directions and access: Highway 1 south toward Monterey: Take exit 402B (Pacific Grove, Del Monte Avenue). Stay on Del Monte Avenue for approximately 1 ¾ miles. At intersection of Del Monte Avenue and Figueroa, turn right into Fisherman's Wharf parking lot. Harbor District office is about mid-way between the two wharfs. Highway 1 north toward Monterey: Take Munras Avenue exit, go about 1 ½ miles on Munras to intersection with Del Monte Avenue. Cross intersection to enter Fisherman's Wharf/Monterey Harbor parking lot. Highway. Highway 101: Take Highway 68 west exit (John Street), proceed west to South Main. Turn left onto South Main to continue on Highway 68 toward Monterey. As approach Monterey, follow signs for Fremont Street, Monterey, or Fisherman's Wharf.	

SITE DESCRIPTION:
Monterey Harbor Entrance.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Seabirds are abundant, including the endangered brown pelican, western grebes and cormorants.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Monterey Municipal Marina/ Harbormaster (831) 646-3950, nights 831-594-7760
City of Monterey, (831) 646-3935

REMARKS:
Commercial wharf, fish receiving, 3-ton hoist, small craft refueling dock, dive charter loading, recreational fishing, 150 commercial and recreational outer harbor boat moorings, 413 berths, launch ramps, pump outs, chandleries, restrooms, parking, anchorage south and southeast of the harbor breakwater, access to del Monte Beach. Significant tourist destination. Also site of Monterey Abalone Company (831-646-0350), Aliotti Fish Company (831-375-2881), Golden Mountain Trading Company (831-646-0670), Monterey Fish Company (831-375-3511), Royal Seafood (831-372-5807) and Pacific Abalone Farms (831-649-5165). Breakwater Cove Marina/Monterey Bay Boat Works has 70 slips, bilge pump-out, diesel/gas, chandlery, 70-ton travel lift, complete boat service and repair. Breakwater Cove Marina (831-373-7857), Monterey Bay Boat Works (831-375-6921). Dive Charter Boats: Cypress charters (408-244-4433), Sun Tan Charters (831-688-5226), Marin Skin Diving (415-479-4332), Aquarius Dive Shop (831-375-6605).

INLET SKETCH MAP

Inlet Name MONTEREY HARBOR ENTRANCE, CA.

Recorder(s) MOH/TMM

Date/Time FROM AERIAL PHOTOGRAPH

Tide Stage –

Inlet Classification B

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- X High-Tide Line
- X Low-Tide Line
- ✓ Substrate Type

LEGEND

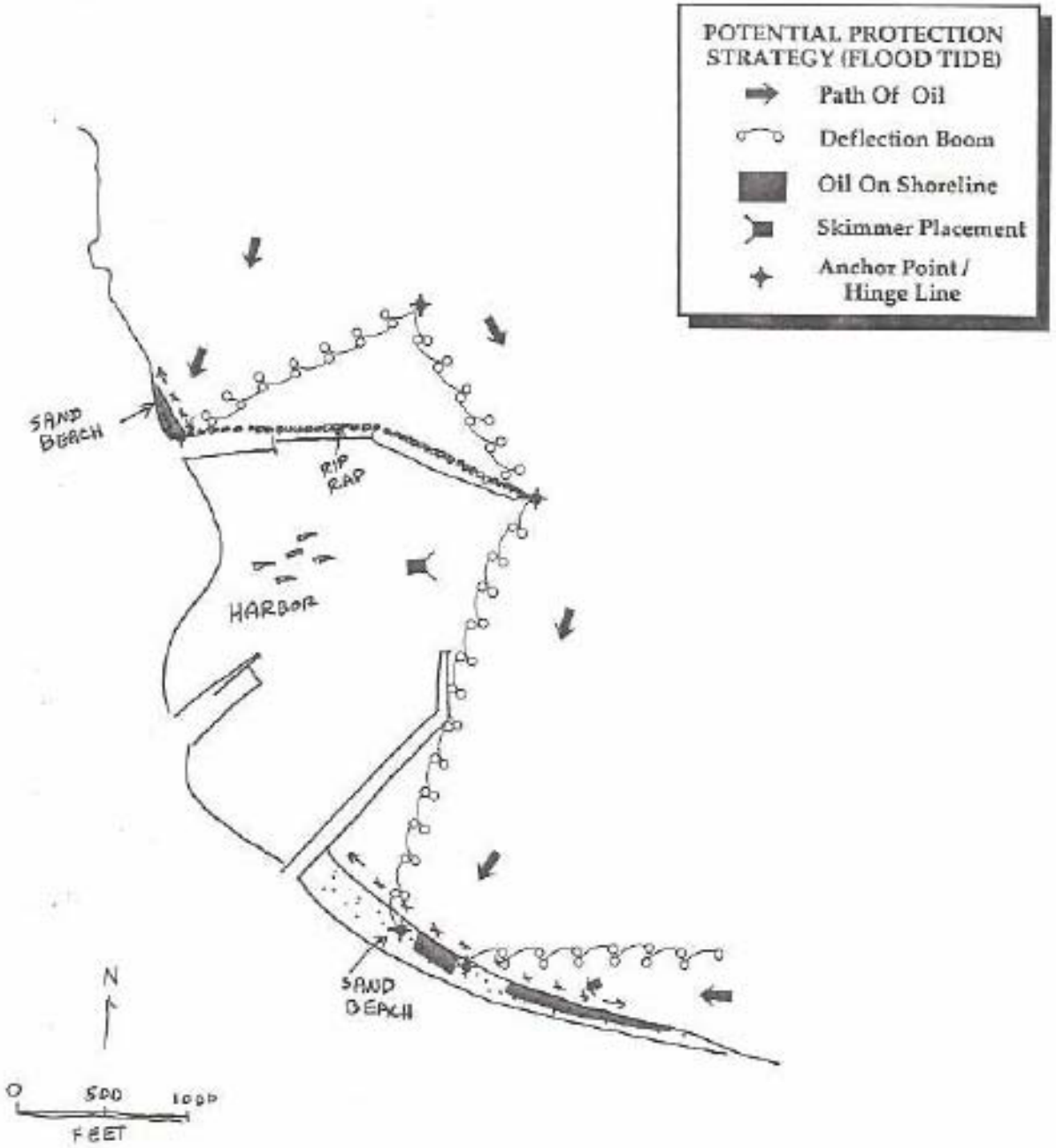
Recommended Oil-Catchment Area

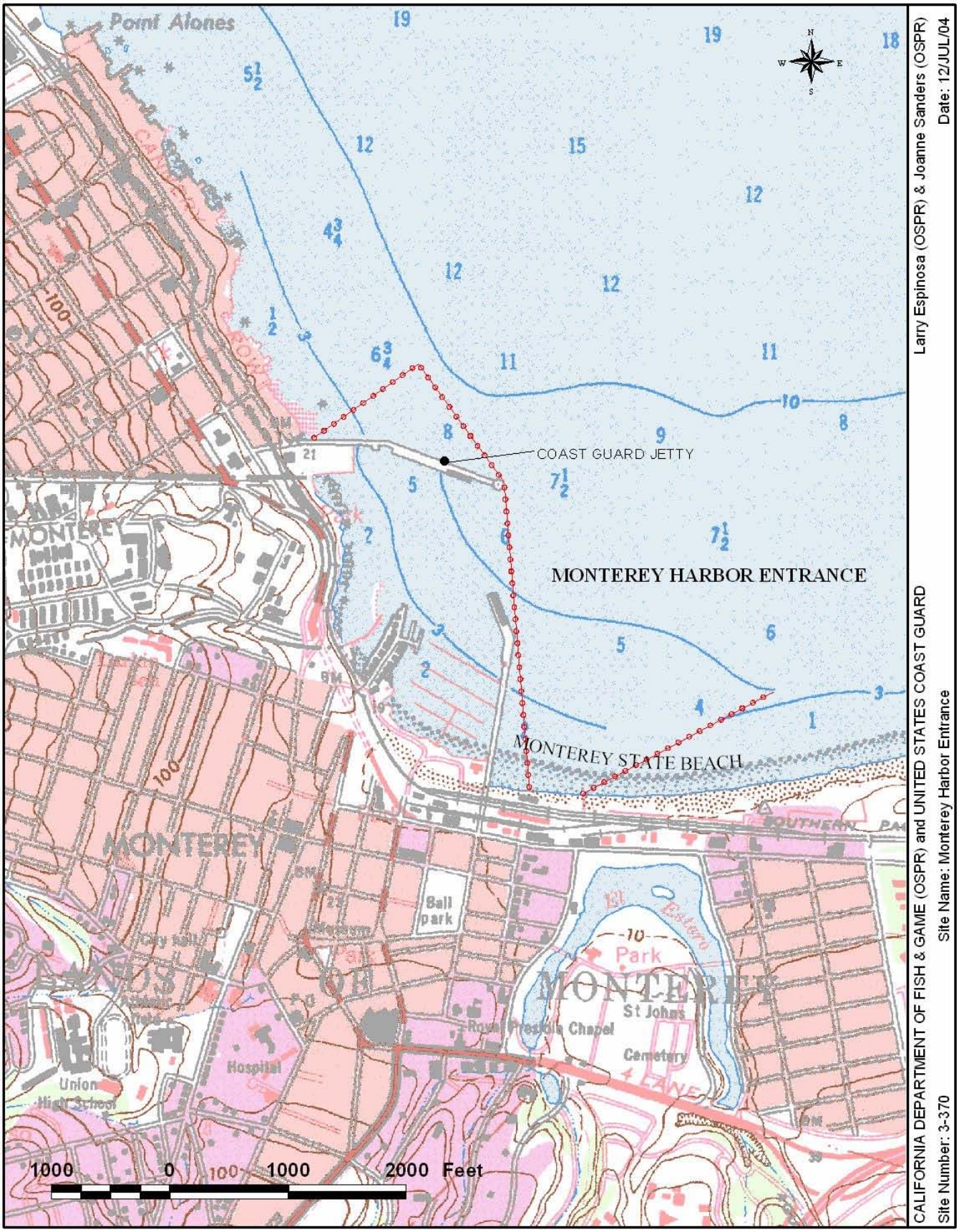
Salt-Water Marsh

Fresh-Water Marsh

High-Tide Overwash Zone

Last High-Tide Swash Line




Point Alones
COAST GUARD JETTY
MONTEREY HARBOR ENTRANCE
MONTEREY STATE BEACH
MONTEREY
Ball park
Park
St Johns
Cemetery
Hospital
Union High School
1000 0 1000 2000 Feet
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 12/JUL/04
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Name: Monterey Harbor Entrance
Site Number: 3-370

SITE SUMMARY

SITE: 3-375 (A) Coast Guard Jetty in Monterey Bay

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1133
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 36.4' / W 121° 53.4'
http://www.californiacoastline.org Image #s	1008, 13674, 13676 (no image shows entire length of jetty)
Directions and access: From Highway 1 south (toward Monterey) take exit 402B (Pacific Grove/Del Monte Avenue). Stay on Del Monte Avenue, veering right at intersection of Del Monte Avenue and Abrego to go through the tunnel to Lighthouse Avenue. After tunnel, veer right from Lighthouse avenue onto Foam Street. Take next right to go out to Coast Guard jetty.	

SITE DESCRIPTION:
Coast Guard Jetty in Monterey Bay.

SEASONAL CONCERNS:
High numbers of sea lions, August-March, and moderate numbers year round.

RESOURCES OF PRIMARY CONCERN:
California sea lion haulout. 2,000 animals have been observed here. Endangered brown pelicans are also present.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
USCG Station Monterey, 24-hour Dispatch (831) 647-7300

REMARKS:
San Carlos Beach (downcoast side of breakwater) and breakwater itself a significant SCUBA diving area.

Kayak rentals: Adventures By The Sea (831-372-1807), A B Seas Kayaks (831-647-0147), Monterey Bay Kayaks (831-373-5357).

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SITE SUMMARY

SITE: 3-380 (A) **Point Cabrillo**

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1113
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 37.5' / W 121° 54.1'
http://www.californiacoastline.org Image #s	1026, 1027, 1025
Directions and access: From Highway 1 south (toward Monterey) take exit 402B (Pacific Grove/Del Monte Avenue). Stay on Del Monte Avenue, veering right at intersection of Del Monte Avenue and Abrego to go through the tunnel to Lighthouse Avenue. Stay on Lighthouse to David Avenue, turn right on David. Turn left on Ocean View Blvd. Turn right into Hopkins Marine Laboratory on Ocean View Blvd. to access Point Cabrillo.	

SITE DESCRIPTION:
Point Cabrillo, a wave-cut platform.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
A large population of harbor seals haul out on this wave-cut platform. There are also seabirds and sea otters present.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Hopkins Marine Laboratory, (831) 655-6200 Hopkins Marine Life Refuge (831) 655-6245
City of Pacific Grove, (831) 648-3100

REMARKS:
Upcoast from Hopkins is Monterey Bay Aquarium, with saltwater intake which also serves Hopkins Marine Lab, Cannery Row restaurants and hotels (Monterey Business Association, 831-655-8070, Monterey Peninsula Chamber of Commerce Visitors and Convention Bureaus 831-649-1770), Macabee Beach (City of Monterey Police Dept. 831-646-3911).

Hopkins Marine Laboratory at Cabrillo Point (831-655-6249). Research facility with saltwater intake and discharge lines via Monterey Bay Aquarium.

Downcoast from Hopkins is Lover's Point Park and Beach (recreational, surfing, SCUBA area, City of Pacific Grove Police Dept. (831-648-3149), and Perkins Park/Shoreline Park.

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SITE SUMMARY

SITE: 3-395 (A) **Sand Hills at Point Pinos**

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1113
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 38.5' / W 121° 56.2'
http://www.californiacoastline.org Image #s	200402167, 1062, 1064, 1065, 1068
Directions and access: From Highway 1 south (toward Monterey) take exit 402B (Pacific Grove/Del Monte Avenue). Stay on Del Monte Avenue, veering right at intersection of Del Monte Avenue and Abrego to go through the tunnel to Lighthouse Avenue. Stay on Lighthouse to David Avenue, turn right on David. Turn left on Ocean View Blvd. Ocean View Blvd. closely follows the coastline around to Pt. Pinos and slightly beyond. The sand hills are in the general Pt. Pinos area (between intersections of Ocean View Blvd. and Surf Avenue, and Ocean View Blvd. and Jewell Avenue). Alternative directions: From Highway 1, take Highway 68 west toward Pacific Grove. Turn left on Sunset Drive, and take it to Pt. Pinos (Sunset Drive changes name to Ocean View Blvd. at Pt. Pinos). Sand hills are between Jewell Avenue and Surf Avenue.	

SITE DESCRIPTION:
Sand Hills, at Point Pinos.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Plant species beach *Layia*, and Menzies' wallflower, both endangered, are dune plants (NDDB). The endangered clover lupine grows near the ocean and on stabilized dunes. Monterey spineflower is proposed endangered.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
City of Pacific Grove, (831) 648-3100

REMARKS:
None

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9873.2 Cultural, Historical, Archeological & Economic Resources

For general information about cultural, historical and archeological resources, and the **Programmatic Agreement on Protection of historic properties during emergency response under the national oil and hazardous substances pollution contingency plan**, please refer to section 9802.1. The table below lists the cultural, historical, archaeological and economic resources for this Geographic Response Area.

Central Coast Geographic Response Area 3:
Zmudowski Beach to Point Pinos

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Includes all of this GRP		E	Monterey Bay National Marine Sanctuary 299 Foam Street, Monterey, CA 93940	Superintendent (831) 647-4201 (831) 647-4260 FAX	N
Zmudowski Beach State Park (Highway 1, 1 mile north of Moss Landing)	3-301	A/B	Zmudowski State Beach River mouth is designated a Natural Preserve Recreational area Surfing area	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
Moss Landing Inlet **(Highway 1 and Jetty Road)**	3-305	C	Moss Landing State Beach Recreational area Major surfing area	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) USCG Sector San Francisco (415) 399-3547 USCG Station Monterey (831) 647-7300 CA Dept. Fish and Game Spills (24-hour): (916) 358-1300 Gen. daytime: (831) 649-2870 Dept. Fish and Game Elkhorn Slough National Estuarine Research Reserve (831) 728-5939 Monterey County OES (831) 755-5010 Monterey County Env. Health (831) 755-4511 CA Coastal Commission (915) 904-5285 Natl Marine Fisheries Service (831) 648-8515 Union Pacific Railroad (510) 437-5344	N

Central Coast Geographic Response Area 3, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Moss Landing Inlet	3-305	E	Moss Landing Harbor District 600 berths, 2 boat ramp lanes Windsurfing area in boat turning basin	Operations Department (24-Hr) (831) 633-2461 Harbor Master (831) 633-5417	N
Moss Landing Inlet	3-305	E	Woodward's Marine Small craft refueling dock 1 boat ramp lane	Richard Woodward (831) 633-2620	Y
Moss Landing Inlet	3-305	D	Moss Landing Marine Laboratories P.O. Box 450 Moss Landing, CA 95039 Saltwater intake and discharge lines	(831) 633-4400	N
Moss Landing Inlet	3-305	E	Gravelle's Boat Yard 7501 Sandholdt Road Moss Landing, CA 95039 70 ton travelift Complete boat service and repair	Ron Gravelle (831) 633-2417	N
Moss Landing Inlet	3-305	D	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039 Saltwater intake and discharge lines	Operations (831) 775-1700	N
Moss Landing Inlet **Moss Landing Inlet**	3-305 3-305	D D	Duke Energy Company Moss Landing Power Plant Hwy. 1 at Dolan Road, P.O. Box 27 Moss Landing, CA 95039 National Refractories and Mineral Corp. Highway 1 Moss Landing, CA 95039 Saltwater intake and discharge lines	Control Room (831) 633-6741 (24-Hr) Out of business	N
Elkhorn Slough GRP	3-310	D	Elkhorn Slough National Estuarine Research Reserve 1700 Elkhorn Road Watsonville, CA 95076	Manager Dept. of Fish and Game (831) 728-5939	N
Salinas River State Beach	3-325	E	Salinas River State Beach	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
Salinas River Inlet	3-330	E	Salinas River Wildlife Area	U.S. Fish and Wildlife Service (805) 644-1766 CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) c/o CA Dept. Fish and Game Spills (24-hour): (916) 358-1300 Gen. daytime: (831) 649-2870 County (24-hour): (831) 724-8228	N

Central Coast Geographic Response Area 3, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Monterey Bay Dunes	3-340	F	Monterey Dunes Colony Waterfront residential area	General workday office phone: (831) 633-4000 General Manager cellular phone: (831) 809-4265 CA Dept. Fish and Game Spills (24-hour): (916) 358-1300 CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) USFWS (805) 644-1766 Ord Military Residental Area (831) 242-7851 (24 hour)	N
Marina State Beach	3-345	F	Marina Sand Mining RMC Lonestar	(831) 429-7200	N
Marina State Beach	3-345	B/C	Marina State Beach Dunes designated Natural Preserve Recreational area; surfing area; hang gliding area	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
Marina State Beach	3-345		Fort Ord Dunes State Park Public use restricted; ownership transfer not completed.	U.S. Army/Calif. State Parks Presidio of Monterey (POM) Annex Police: (831) 242-5634	N
Monterey State Beach	3-360	F	Monterey Beach Hotel Hwy. 1 and Canyon del Rey Blvd. Monterey, CA 93940 Waterfront hotel	(831) 394-3321	N
Monterey State Beach	3-360		Ocean Harbor House Apartments 1-125 Surf Way Monterey, CA 93940 Waterfront residences	Administrative Office (831) 655-7840	N
Monterey State Beach	3-360		Naval Postgraduate School 1 University Circle Monterey, CA 93943	Naval Postgraduate School Quarterdeck (831) 656-2441 (24-Hr)	N
Monterey State Beach	3-360	C/E	Monterey State Beach (sections in Sand City, Seaside and Monterey)	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
Monterey State Beach	3-360		Cannery Row Restaurants and Hotels	Monterey Chamber of Commerce (831) 648-5360	N

Central Coast Geographic Response Area 3, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Monterey State Beach **(Monterey Cannery Row)**	3-360	D	Monterey Bay Aquarium 886 Cannery Row Monterey, CA 93940 Saltwater intake and discharge lines	Admin Office (24-hour) (831) 648-4840 Fax: (831) 648-4810	N
Monterey State Beach **(Monterey Cannery Row)**	3-360	E	Macabee Beach	City of Monterey (831)646-3935	N
Monterey Harbor Entrance	3-370	E	Breakwater Cove Marina / Monterey Bay Boat Works 70 slips; bilge pump-out; diesel/gas; chandlery 70-ton travel lift Complete boat service and repair	Marina: (831) 373-7857 Boatworks: (831) 375-6921	N
Monterey Harbor Entrance	3-370		Dive Charter Boats	Cypress Charters 1344 Saratoga Ave. San Jose, CA 95129 (408) 244-4433 Sun Tan Charters 858 Incino Drive Aptos, CA 95003 (831) 688-5226 Marin Skin Diving 3765 Redwood Highway San Rafael, CA 94903 (415) 479-4332 Aquarius Dive Shop (831) 375-1933 Fax: (831) 375-6605	N
Monterey Harbor Entrance	3-370	E	Monterey Municipal Wharf II Commercial wharf; fish receiving 3-ton hoist, small craft refueling dock; Dive charter loading Recreational fishing	Harbor Office: Gen. Office: (831) 646-3950 Fax: (831) 646-5674 Nights: (831) 594-7760	N

Central Coast Geographic Response Area 3, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Monterey Harbor Entrance	3-370	D	Monterey Abalone Company Aliotti Fish Company Golden Mountain Trading Company Monterey Fish Company Royal Seafood Pacific Abalone Farms (Mariculture) 1312 Lincoln Avenue Pacific Grove, CA 93950	(831) 646-0350 (831) 375-2881 (831) 646-0670 (831) 372-6867 Fax (831) 375-3511 (831) 372-5807 (831) 649-5165 Harbor Office: Gen. Office: (831) 646-3950 Fax: (831) 646-5674 Nights: (831) 594-7760	N
Monterey Harbor Entrance	3-370		Monterey Municipal Wharf I Significant tourist destination; boat hoist	Harbor Office: Gen. Office: (831) 646-3950 Fax: (831) 646-5674 Nights: (831) 594-7760	N
Monterey Harbor Entrance	3-370	E	Monterey Harbor / Municipal Marina 150 commercial and recreational outer harbor boat moorings; 413 berths; launch ramps; pump outs, chandleries, restrooms, parking; anchorage south and southeast of the harbor breakwater; access to Del Monte Beach.	City of Monterey (831)646-3935 Harbor Office: Gen. Office: (831) 646-3950 Fax: (831) 646-5674 Nights: (831) 594-7760	N
Coast Guard Jetty (Monterey Bay)	3-375		Monterey Coast Guard Pier/Breakwater Major SCUBA diving area	USCG Station Monterey 24 hour (831) 647-7300	Y
Coast Guard Jetty (Monterey Bay)	3-375	E	San Carlos Beach Major SCUBA diving area	USCG Station Monterey 24 hour (831) 647-7300	N

9873.21 Other Resources and Species of Concern

Please see section 9871.21 for a discussion of this topic.

9873.22 Essential Fish Habitat

Please see section 9801.2 for a discussion of this topic.

9873.3 Operational Divisions

Please see Section 9871.3 for maps that delineate Operational Divisions for this ACP.

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9874 GRA 4 Asilomar State Beach to Point Lobos

9874.1 Sensitive Sites

GRA 4 Map 1

Site 3-410 (A) Asilomar State Beach 3
Site 3-420 (A) Spanish Bay and Moss Beach 5
Site 3-435 (A) Bird Rock and Seal Rock 7
Site 3-440 (A) Fan Shell Beach 9
Site 3-448 (A) Offshore Pescadero Rocks 11
Site 3-450 (A) Pebble Beach …….....13
Site 3-460 (A) Carmel River/San Jose Creek Inlet 15
Site 3-470 (A) Point Lobos 19

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9874.21 Other Resources and Species of Concern
9874.22 Essential Fish Habitat

9874.3 Shoreline Operational Divisions.....1

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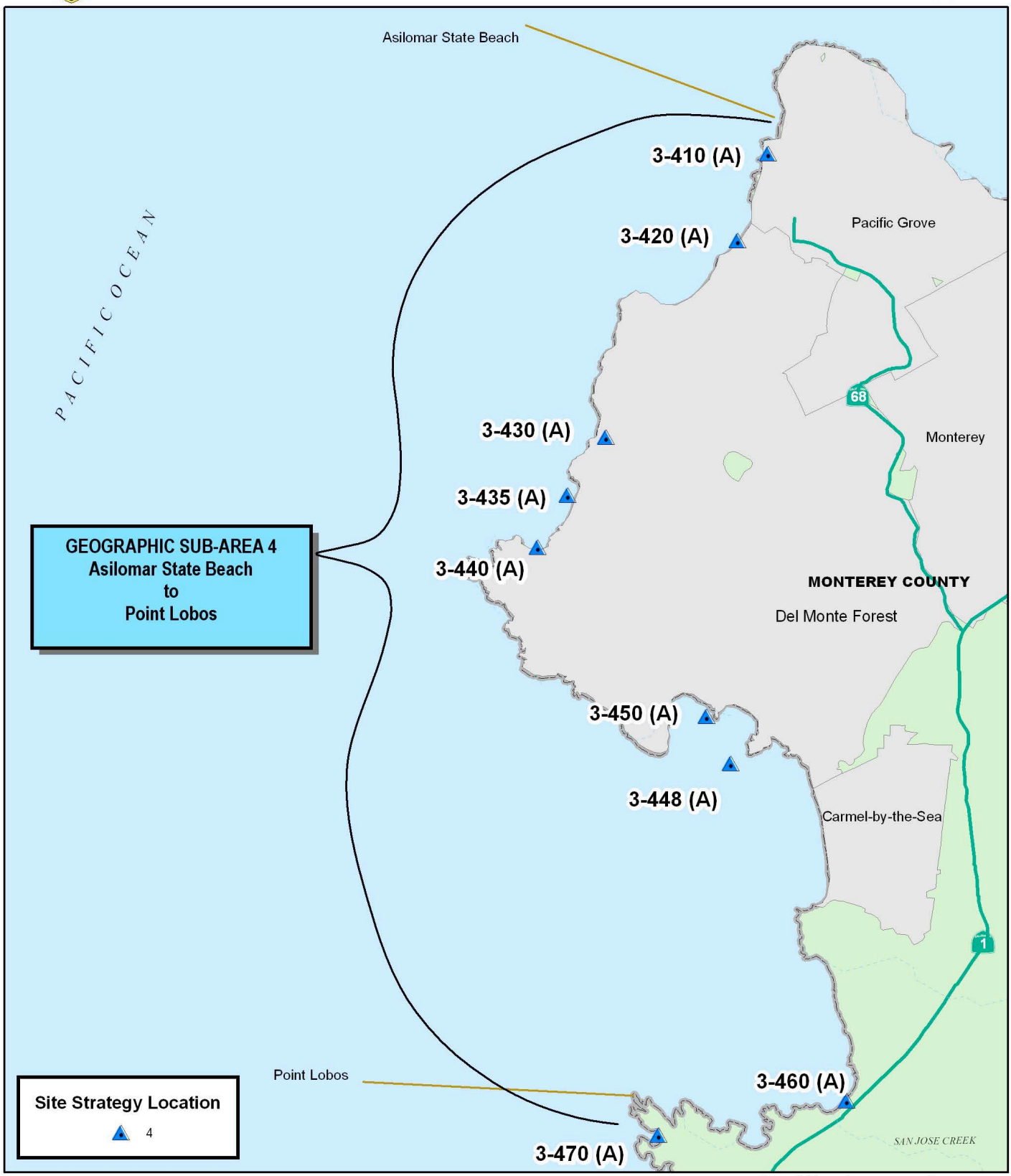
Central Coast Geographic Sub-Area 4 and Site Strategy Locations



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0 0.5 1 2 Miles

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SITE SUMMARY

SITE: 3-410 (A) **Asilomar State Beach**

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1113
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 37.4' / W 121° 56.8'
http://www.californiacoastline.org Image #s	200402183, 1071, 1081
Directions and access: Traveling south on Hwy.1, continue south past Monterey toward Carmel. Exit Hwy.1 on to Hwy 68 West, Pacific Grove/Pebble Beach. Follow signs to Pacific Grove and Asilomar. At the junction of Highway 68, Sunset Drive, and Forest Avenue, turn left onto Sunset. Follow this road west to parking areas on shore side of road (Sunset Drive changes to Asilomar Drive at the beach). Several established, numbered foot trails allow access to the shoreline. Rangers will direct emergency vehicles to the shoreline. Note: Trail #2 allows emergency traffic on to the beach. Ranger phone number is (831)-372-4076. There is no emergency vehicle parking east of Sunset Drive.	

SITE DESCRIPTION:
Rocky shoreline with extensive tide pools with sandy (pocket) beaches and dunes, fronted by wave cut platform. Sand is fine to medium grained. The shoreline consists of granodiorite substrate. The State Conference Grounds offer no emergency vehicle parking

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Black legless lizard (*Anniella pulchra nigra*) [endangered] lives in the sand dunes. Southern sea otters, sea lions, harbor seals are often seen just off shore. Various shore and sea birds occur along the coast line. All of the following plant species are endangered or proposed endangered. They occur along the coast and on dunes and are most abundant from late February to August: Menzie's wallflower (*Erysimum menziesii menziesii*); sand Gilia (*Gilia tenuifllora arenaria*);Tidestrom's lupine (*Lupinos tidestromii var.tidestromii*); beach layia (*Layia carnosa*); Monterey spineflower (*Chorizanthe pungens var. pungens*); sandmat manzanita (*Arctostaphylos pumila).* Indian midden sites occur on shoreline bluff trails, numbers: 11, 16, 19, 25.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
High recreational use.

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SITE SUMMARY

SITE: 3-420 (A) **Spanish Bay and Moss Beach**

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1113, 1133
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 37' / W 121° 57'
http://www.californiacoastline.org Image #s	200402183, 200402186, 13769, 1072, 1082, 1083, 1085, 1086, 1090
Directions and access: Traveling south on Hwy.1, continue south past Monterey toward Carmel. Exit Hwy.1 on to Hwy 68 West, Pacific Grove/Pebble Beach. Follow signs to Pacific Grove and Asilomar. At the junction of Highway 68, Sunset Drive, and Forest Avenue, turn left onto Sunset. At intersection of Sunset and 17-Mile Drive, turn left to enter 17-Mile Drive gate of Pebble Beach. 17-Mile Drive hugs the coast and taking it will take you to most of the sensitive sites. Spanish Bay runs between Asilomar and Point Joe, with Moss Beach also between those two points.	

SITE DESCRIPTION:
Spanish Bay and Moss Beach. Fine to medium grain sandy beaches.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
The black legless lizard (candidate species) uses the dune habitat. Jones layia (candidate plant species) can be found in the dunes/chaparral communities. Clover lupine (endangered) can be found near the ocean as well as in the dunes. The Monterey gilia (endangered) is another dune plant species.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Private ownership – Pebble Beach Company (831) 625-8444

REMARKS:
Privately owned waterfront resort, golf courses. Recreational area. Moss Beach is a surfing area.

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SITE SUMMARY

SITE: 3-435 (A) **Bird Rock and Seal Rock**

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1133
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 35.5' / W 121° 58.2' (Bird Rock)
http://www.californiacoastline.org Image #s	Bird Rock: 1116 Fan Shell Beach: 1119 (no good image of Seal Rock off Fan Shell Beach). Use Thomas Guide.
Directions and access: Traveling south on Hwy.1, continue south past Monterey toward Carmel. Exit Hwy.1 on to Hwy 68 West, Pacific Grove/Pebble Beach. Follow signs to Pacific Grove and Asilomar. At the junction of Highway 68, Sunset Drive, and Forest Avenue, turn left onto Sunset. At intersection of Sunset and 17-Mile Drive, turn left to enter 17-Mile Drive gate of Pebble Beach. 17-Mile Drive hugs the coast and taking it will take you to most of the sensitive sites. Follow 17-mile Drive around the coast to the Bird Rock and Seal Rock site (Bird Rock Road is a short loop off 17-Mile Drive). Closest cross streets to Seal Rock are Silver Trail or Spyglass Hill Road. Contact Pebble Beach Company, if directions are needed to get to other entrance gates for 17-mile Drive.	

SITE DESCRIPTION:
Bird Rock and Seal Rock are in between Point Joe and Cypress Point.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Large numbers of California sea lions haulout in this area. Harbor seals and Steller sea lions also haul out offshore. Endangered brown pelicans and cormorants are also in this area.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Private Ownership - Pebble Beach Company (831) 625-8444

REMARKS:
Adjoining land is privately owned. Recreational area, golf courses.

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SITE SUMMARY

SITE: 3-440 (A) **Fan Shell Beach**

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1133
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 35.4' / W 121° 58.2'
http://www.californiacoastline.org Image #s	1120 (as Fanshell Beach)
Directions and access: Traveling south on Hwy.1, continue south past Monterey toward Carmel. Exit Hwy.1 on to Hwy 68 West, Pacific Grove/Pebble Beach. Follow signs to Pacific Grove and Asilomar. At the junction of Highway 68, Sunset Drive, and Forest Avenue, turn left onto Sunset. At intersection of Sunset and 17-Mile Drive, turn left to enter 17-Mile Drive gate of Pebble Beach. 17-Mile Drive hugs the coast and taking it will take you to most of the sensitive sites. Cross streets along Fan Shell Beach are The Dunes, Silver Trail, Spyglass Hill and Signal Hill Road.	

SITE DESCRIPTION:
This is a sandy beach fronted by a wave-cut platform.

SEASONAL CONCERNS:
This is an **A** site during spring and summer; otherwise it has a **B** priority.

RESOURCES OF PRIMARY CONCERN:
Harbor seal pup beach. Also, the black legless lizard (candidate species), and the endangered plant species Menzies wallflower can be found. Clover lupine (endangered) can be found near the ocean as well as in stabilized dunes.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Private Ownership - Pebble Beach Company (831) 625-8444

REMARKS:
Adjoining land is privately owned. Recreational area, golf courses, sight-seeing.

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SITE SUMMARY

SITE: 3-448 (A) **Offshore Pescadero Rocks**

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1133, 1153
USGS 7.5' Quad	Monterey
Lat./ Long.	N 37° 14.7' / W 122° 25.5'
http://www.californiacoastline.org Image #s	6272 (Pescadero Rock), 1174 (Arrowhead Point)
Directions and access: Take Highway 1 south past Monterey and toward Carmel, and take the Highway 68 west exit. One (of several) 17-Mile Drive entrance gates is just across the exit. Proceed down 17-Mile Drive approximately 3 ½ miles to The Lodge at Pebble Beach. Pescadero Point and Arrowhead Point are both within Carmel Bay and bracket The Pebble Beach Golf Course. Pescadero Point is at the upcoast end, Arrowhead at the downcoast end.	

SITE DESCRIPTION:
Offshore Pescadero Rocks, and Arrowhead Point, a wave-cut platform.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Large numbers of harbor seal haulouts.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Private Ownership - Pebble Beach Company (831) 625-8444

REMARKS:
None.

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SITE SUMMARY

SITE: 3-450 (A) **Pebble Beach**

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1133
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 33.7'/ W 121° 56.8'
http://www.californiacoastline.org Image #s	200402262 (but over 50 images available for general Pebble Beach area).
Directions and access: Take Highway 1 south past Monterey and toward Carmel, and take the Highway 68 west exit. One (of several) 17-Mile Drive entrance gates is just across the exit. Proceed down 17-Mile Drive approximately 3 ½ miles to The Lodge at Pebble Beach. The sensitive site is near the 18th hole golf tee just upcoast from the Lodge. A short access road from the Lodge to Stillwater Cove can be used for launching a small boat.	

SITE DESCRIPTION:
This beach is fronted by a wave-cut platform.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Clover Lupine (endangered, NDDB) can grow near the ocean as well as on the stabilized dunes.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Private ownership - Pebble Beach Company, (831) 625-8444
Pebble Beach Resource Management, (831) 625-8402

REMARKS:
Privately owned. Recreational and sight-seeing area, many golf courses. Nearby Stillwater Cove has small craft anchorages, is major SCUBA and snorkeling area.

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SITE SUMMARY

SITE: 3-460 (A) **Carmel River/San Jose Creek Inlet**

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1153
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 31.7' / W 121° 55.9'
http://www.californiacoastline.org Image #s	200402317, 13957, 13958, 13960, 13962, 1210, 1211, 1212, 1213

Directions and access: Directions to San Jose Creek Inlet and San Jose Creek Beach – Take Highway 1 south,
past the signal light at Rio Rd., past Ribera Rd. to San Jose Creek Bridge (more like a big culvert). Parking is on the shore-side of the Highway shoulder. On the right is San Jose Creek Beach, locally known as Monastery Beach. At the down-coast end of the Beach (South end) is a rest room and a public telephone. The creek has an intermittent flow and may flow during the wet season. Another access to the Beach is behind the Bay School at the North end of the Beach. State Park personnel will show the access to those responding to an emergency.

Directions to Carmel River Mouth (Up-coast Side) – Take Highway 1 south. After passing the traffic signal to Carmel at Carpenter St, pass by the next signal light at Carmel Valley Rd, to the next signal light at Rio Rd. Turn Right off the Highway along Rio Rd. until Santa Lucia Ave. Turn left on Santa Lucia Ave. to Carmelo. Turn left on Carmelo and stay on that road until it enters the State Park near a parking area and a rest room. This location is in the vicinity of the Carmel River Mouth.

Directions to Carmel River Mouth (Down-coast Side) – Take Highway 1 south. Pass the Rio Rd. signal. The next road on the right is Ribera Rd. Turn right off the highway and proceed along Ribera Rd. until there is an abrupt turn to the left. At this point, on the right is Calle la Cruz. A locked gate prevents entry in normal situations. During an emergency, the gate will be open. This road leads to the beach. At the bottom, a right turn leads to the down coast side of the River mouth. By turning left, an unimproved service road leads to San Jose Creek Beach.

Emergency Helicopter Areas – A Helicopter Site is located at the South end of San Jose Creek Beach. It is shoreward of the restroom building. This site has been used several times and has the best location. Another site available for helicopters is across the Highway in what is known as the "Polo Field". There are no facilities nearby.

Site 3-460 (A), continued Carmel River/San Jose Creek inlet

SITE DESCRIPTION:
Carmel River Mouth includes a lagoon, wetland and riparian habitat area, which are currently undergoing extensive native plant re-vegetation. This area will be fragile and sensitive to disturbance until approximately the year 2002. A portion has been designated a State Park Natural Preserve. The San Jose Creek mouth is 1 mile south of the Carmel River at San Jose Creek Beach, also known locally as Monastery Beach. Highway 1 is adjacent to the beach and parking is allowed on the road shoulder next to the beach. San Jose Creek is a seasonal stream that supports a small marsh and lagoon system at its mouth.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Shorebirds and seabirds, including the threatened brown pelican, along with steelhead trout use both the Carmel River and San Jose Creek. The wetland and riparian areas of the lower Carmel River are one of the best known and most diverse birding areas in California. Sea otters are common in the offshore kelp beds. South of San Jose Creek, the coastal terrace has been designated a State Park Cultural Preserve due to its high archeological significance and sensitivity.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810
City of Carmel, (831) 620-2000
Carmel Police Department, (800) 281-7275

REMARKS:
High recreational use. Major SCUBA/snorkeling area.

INLET SKETCH MAP

Inlet Name CARMEL RIVER INLET, CA.

Recorder(s) MGH / TMM

Date/Time 3 NOV. 1992, 0700

Tide Stage HIGH @ 0826 (+5.7); CARMEL COVE

Inlet Classification C

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

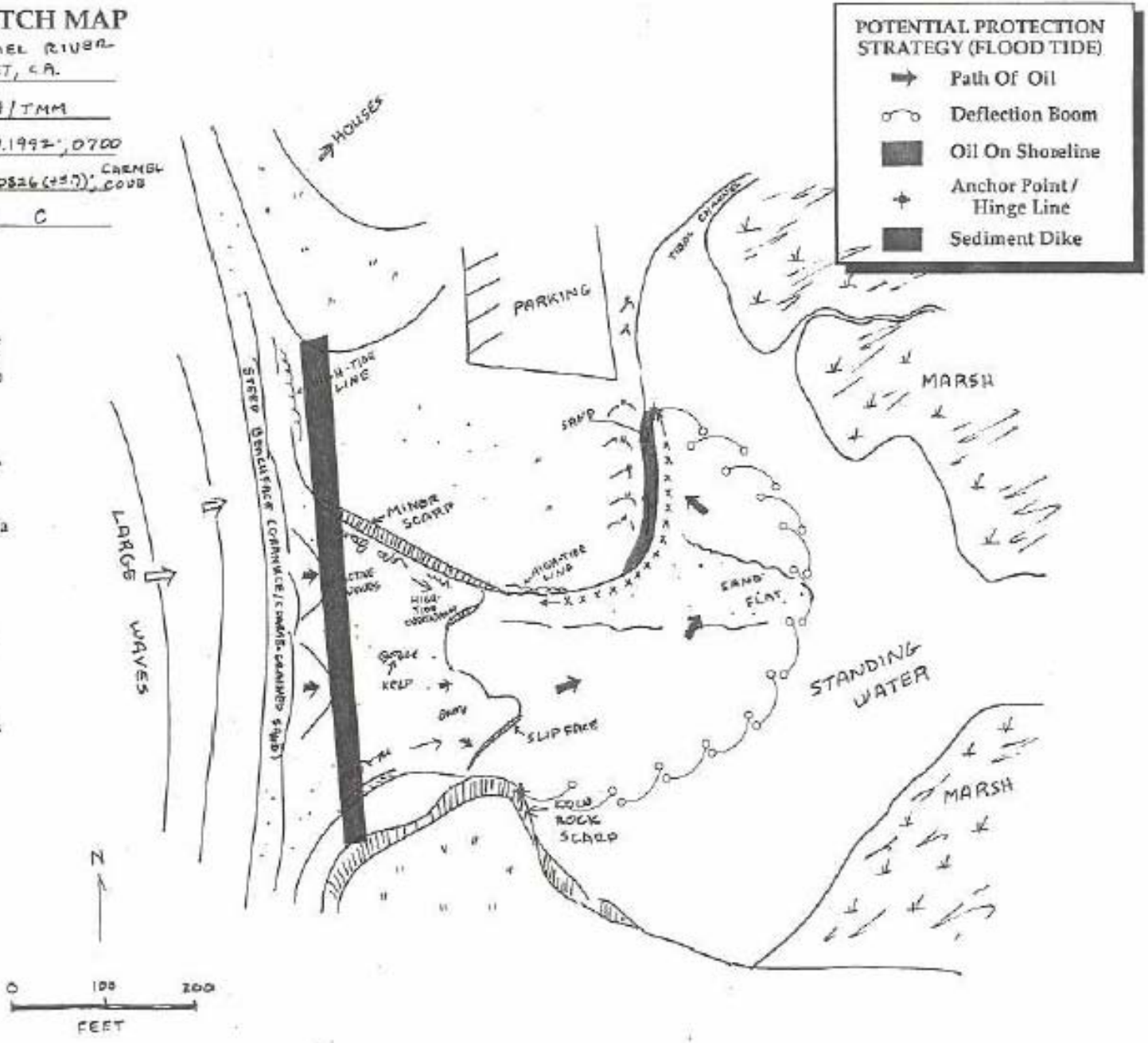
Recommended Oil-Catchment Area

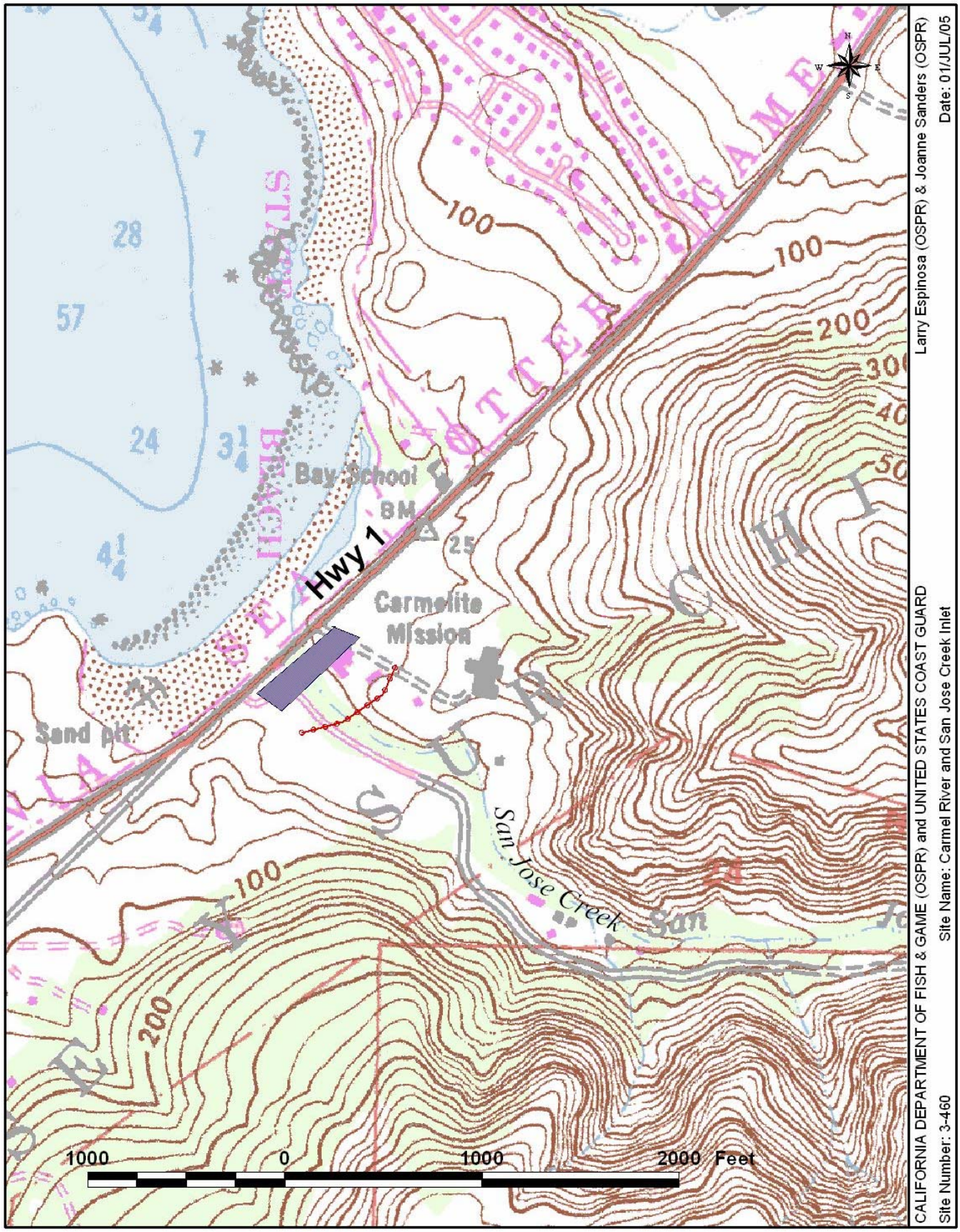
Salt-Water Marsh

Fresh-Water Marsh

High-Tide Overwash Zone

Last High-Tide Swash Line




Hwy 1
Bay School
BM
25
Carmelite Mission
Sand pit
San Jose Creek
100
200
1000
0
1000
2000 Feet
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Name: Carmel River and San Jose Creek Inlet
Site Number: 3-460
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 01/JUL/05

SITE SUMMARY

SITE: 3-470 (A) **Point Lobos**

County	Monterey
OSPR Map No.	073
Thomas Guide (2004 Monterey Bay Metro Area) Map#	1153, 1173
USGS 7.5' Quad	Monterey
Lat./ Long.	N 36° 31.7' / W 121° 57.4'
http://www.californiacoastline.org Image #s	200402319, 200402322, 200402324-27, 200402330, 200402332-37, 200402339, 200402341, 200402344-48
Directions and access: Traveling South on Hwy. 1, Point Lobos is 2 miles South of the intersection of Rio Rd. in Carmel and Hwy.1. At this point, the road leads directly to the manned Entrance Station. State Park. Rangers are housed in the vicinity of the Entrance Station. At night, there is a locked gate to prevent unauthorized entry. Access by boat is also feasible via Whalers Cove. There is a launching ramp and a large parking lot. A State Park Lifeguard is based on the site.	

SITE DESCRIPTION:
Point Lobos State Reserve is a world–renowned scenic area that contains a diversity of wild life. The shoreline is highly varied and is dominated by steep rocky headlands.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
California sea lions haulout year round. There are numerous seabirds including the endangered brown pelicans (nests on Bird Island), and cormorants. Black swifts (DFG species of special concern, NDDB), can be found in the cliffs. There are significant Indian midden sites on the Reserve. One such site exists above Whalers Cove.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
High recreational use. Whaler's Cove is major SCUBA/snorkeling area (small boat launch ramp available). Marine reserve with restricted use. Area of Special Biological Significance.

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9874.2 Cultural, Historical, Archeological & Economic Resources

For general information about cultural, historical and archeological resources, and the **Programmatic Agreement on Protection of historic properties during emergency response under the national oil and hazardous substances pollution contingency plan**, please refer to section 9802.1. The table below lists the cultural, historical, archaeological and economic resources for this Geographic Response Area.

Central Coast Geographic Response Area 4:
Asilomar State Beach to Point Lobos

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Asilomar State Beach (**Pacific Grove)**	3-410	B/E	Asilomar State Beach Recreational area	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
Asilomar State Beach (Pacific Grove)	3-410	F	Asilomar Conference Center	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
Spanish Bay & Moss Beach	3-420	E	Spanish Bay Waterfront resort; golf courses Recreational area	Pebble Beach Company (831) 625-8444	N
Spanish Bay & Moss Beach	3-420	E	Moss Beach Surfing area	Pebble Beach Company (831) 625-8444	N
Bird and Seal Rock **Fan Shell Beach**	3-435 3-440			Pebble Beach Company (831) 625-8444	N
Offshore Pescadero Rocks	3-448		Stillwater Cove Offshore Pescadero Rocks and Arrowhead Point Small craft anchorages Major SCUBA and snorkeling area	Pebble Beach Company (831) 625-8444	N
Pebble Beach	3-450	E	17-Mile Drive Recreational area; golf courses	Pebble Beach Company (831) 625-8444 Resource Management (831) 625-8402	N
San Jose Creek Inlet	3-460	E	Carmel Beach City Park Recreational area	City of Carmel (831) 620-2000 CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Police Dept. (800) 281-7275	N
San Jose Creek Inlet	3-460	C/E	Carmel River State Beach Carmel River lagoon and wetlands San Jose Creek Inlet Monastery Beach Recreational area Major SCUBA/snorkeling area	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N

Central Coast Geographic Response Area 4, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Point Lobos	3-470	A	Point Lobos State Reserve Whalers Cove is major SCUBA diving area; Marine Reserve; Restricted use; Harbor of refuge; Area of Special Biological Significance	CA Dept. Parks and Rec. (831) 649-2810 (24-hour)	N

9874.21 Other Resources and Species of Concern

Please see section 9871.21 for a discussion of this topic.

9874.22 Essential Fish Habitat

Please see section 9801.2 for a discussion of this topic.

9874.3 Operational Divisions

Please see Section 9871.3 for maps that delineate Operational Divisions for this ACP.

9875 GRA 5 Garrapata Creek to Gorda Beaches

9875.1 Sensitive Sites

GRA 5 Map 1

Site 3-500 (A) Garrapata Creek Inlet 3

Site 3-505 (A) Sea Bluffs and Rocky Creek 5

Site 3-507 (B) Castle Rock 7

Site 3-511 (B) Rocks Off Hurricane Point 9

Site 3-515 (A) Little Sur River Inlet and Beach 11

Site 3-520 (A) Point Sur Beach 15

Site 3-522 (C) Point Sur 17

Site 3-525 (A) Sandy Beach South of Point Sur 19

Site 3-530 (A) Big Sur River Inlet 21

Site 3-540 (A) Pfeiffer Beach 25

Site 3-550 (B) Partington Point and South 27

Site 3-560 (B) Dolan Rock Area 29

Site 3-570 (A) Limekiln State Park 31

Site 3-580 (A) Gorda Beaches 33

9875.2 Cultural, Historical, Archeological & Economic Resources.....1

9875.21 Other Resources and Species of Concern

9875.22 Essential Fish Habitat

9875.3 Shoreline Operational Divisions.....1

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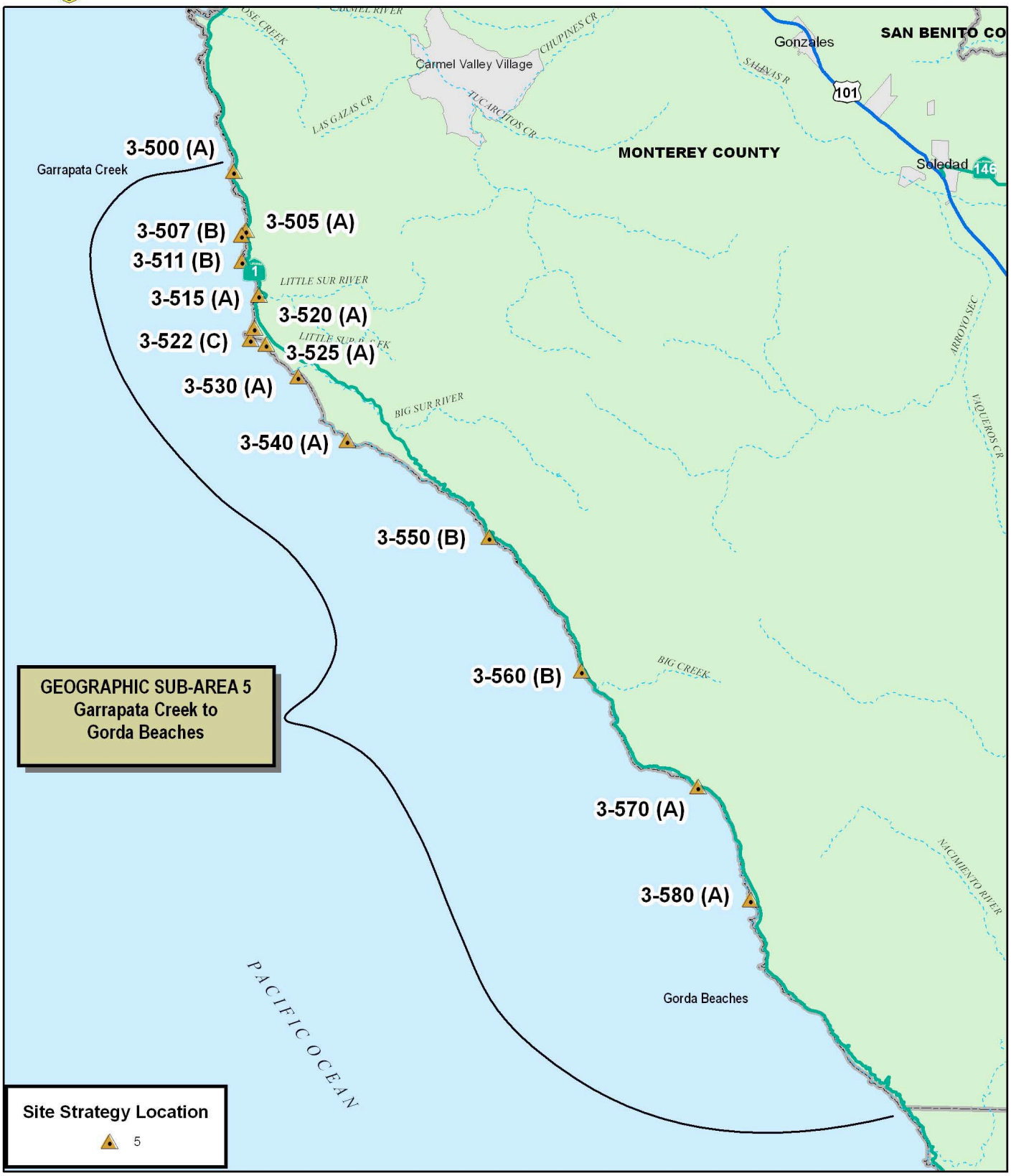
Central Coast Geographic Sub-Area 5 and Site Strategy Locations



Scale 1:375000

0 2.5 5 10 Kilometers

0 2.5 5 10 Miles

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SITE SUMMARY

SITE: 3-500 (A) Garrapata Creek Inlet

County	Monterey
OSPR Map No.	074
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Soberanes
Lat./ Long.	N 36° 25.3' / W 121° 55.5'
http://www.californiacoastline.org Image #s	1278, 1279, 1280, 1281
Directions and access: From Rio Rd. in Carmel on Hwy. 1 to Soberanes Pt. is 7 miles; to Garrapata Beach is 9.6 miles. Main Access Points: Trail access points begin from numbered gates on turn-outs along the highway. Look for small white on brown numbered placards. The gate numbers are: Garrapata Beach, use gate 32; Scenic Overlook with bench, use gate 27; Soberanes Point trails, use gates 13, 15, 16. Note: There is no emergency vehicle access. Trails to shoreline are steep and provide difficult access. Access to the Inlet is difficult to impossible without special arrangement to lower personnel and equipment from the bridge. Access from the ocean is across a small beach where surf conditions make it difficult to cross	

SITE DESCRIPTION:
Coastal bluff west of Hwy. 1 between Otter Cove and Garrapata Creek. Includes Granite Creek, Soberanes Creek and Garrapata Creek. Site features four miles of mostly rocky coastline, except at the extreme south end where Garrapata Beach is located.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

SOURCES OF PRIMARY CONCERN:
Tide pools and mussel beds along the shoreline and the typical coastal bluff plant community. Although the Garrapata Creek Inlet does not belong to the state it contains a rich biological resource and should be mentioned here and in case of potential danger should be protected. There are shorebirds and seabirds, including the brown pelican (endangered). Sea otters are offshore. Steelhead trout spawn upstream. Also in this area is the Little Sur manzanita (candidate plant species, NDDB), a coastal bluff species. A small marsh is located behind a narrow cliff-sided creek mouth. Most of the bluffs at Garrapata contain archeological sites. An extremely large site is located on the East side of Highway 1 at Soberanes Canyon.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831)-649-2810
OSPR Dispatch, (916) 358-1300
Granite Canyon Research Facility Manager, (831) 624-0947

REMARKS:
None.

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SITE SUMMARY

Site: 3-505 (A) Sea Bluffs and Rocky Creek

County	Monterey
OSPR Map No.	074
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Soberanes
Lat./ Long.	N 36° 23.2' / W 121° 54.9'
http://www.californiacoastline.org Image #s	1295, 1296
Directions and access: Rocky Creek is about 11 miles south of Rio Road (in Carmel) on Highway 1. Garrapata Creek is north of Rocky Creek, Bixby Creek is the next creek south of Rocky Creek. The sea bluffs are on the east side of Highway 1.	

SITE DESCRIPTION:
Sea bluffs and Rocky Creek.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Little Sur manzanita (candidate species, NDDB) is a bluff plant species.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
None.

REMARKS:
None.

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SITE SUMMARY

SITE: 3-507 (B) **Castle Rock**

County	Monterey
OSPR Map No.	074
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Soberanes or Point Sur
Lat./ Long.	N 36° 22.8' / W 121° 54.9'
http://www.californiacoastline.org Image #s	1299 (one of the two smaller rocks off the point, on right side of image)
Directions and access:	

SITE DESCRIPTION:
Offshore rock with moderate- to high-energy ocean waves.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Large numbers of Brandt's cormorants, common murres, and pelagic cormorants roost and nest on this rock.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
None.

REMARKS:
None.

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SITE SUMMARY

SITE: 3-511 (B) **Rocks Off Hurricane Point**

County	Monterey
OSPR Map No.	075
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Point Sur
Lat./ Long.	N 36° 21.9' / W 121° 54.9'
http://www.californiacoastline.org Image #s	1316, 1308
Directions and access: Take Highway 1 south past Rio Road (in Carmel) about 15 miles. Hurricane Point is the high point on the road past Bixby Creek bridge. It has a broad turn-out on the ocean side and is nearly always marked by pronounced winds and sightseers. It provides a good, high vantage point but no beach access.	

SITE DESCRIPTION:
Offshore rocks with moderate to high-energy ocean waves.

SEASONAL CONCERNS:
Species of concern discussed below are present year round except for tufted puffins.

RESOURCES OF PRIMARY CONCERN:
Brandt's cormorants, western gulls, common murres, pigeon guillemots, and tufted puffins (haven't been observed in the last few years) roost and nest on these offshore rocks. Tufted puffins enter colonies in May, lay eggs April-August. Eggs hatch 30 days after they are laid; birds leave colonies 60 days after hatching. Peak numbers are in January and February.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
None.

REMARKS:
None

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SITE SUMMARY

SITE: 3-515 (A) Little Sur River Inlet and Beach

County	Monterey
OSPR Map No.	075
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Point Sur
Lat./ Long.	N 36° 20.3' / W 121° 54.4'
http://www.californiacoastline.org Image #s	1317, 1318, 1319, 200402470
Directions and access: Take Highway 1 south past Rio Road (in Carmel) about 15 miles. The highway takes a broad sweep inland just as it crosses the river. The Little Sur River bridge has the river name on it. There are at last foot paths, but perhaps no vehicle access, from the bridge side. However, vehicle access may be possible from the ranch just upcoast from the river. Contact the ranch owner or foreman for access information and permission to pass.	

SITE DESCRIPTION:
Small pond and cow pasture behind inlet.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
There are shorebirds and seabirds including the endangered brown pelican and threatened snowy plover. Sea otters present offshore. Anadromous stream for steelhead trout and tidewater goby (candidate species).

PROTECTION STRATEGY:
Make every effort to close off inlet with sediment dike (600-700 feet long) of medium-grained sand. Sediment dike may be washed out during high discharge events on the river, but can be reconstructed as flood conditions wane. If dike should fail altogether, deflection booms should be deployed to force oil onto the landward side of the sand spit (see sketch).

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
Private ownership, Big Sur Ranch
- Owner, Jim Hill (831) 624-2719
- Foreman (831) 624-3514

REMARKS:
None

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INLET SKETCH MAP

LITTLE SUR RIVER

Inlet Name INLET, CA.

Recorder(s) MOH/TMM

Date/Time 7 NOV. 1992; 1645

Tide Stage LOW @ 1449 (+0.3); CARMEL CODE

Inlet Classification C

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

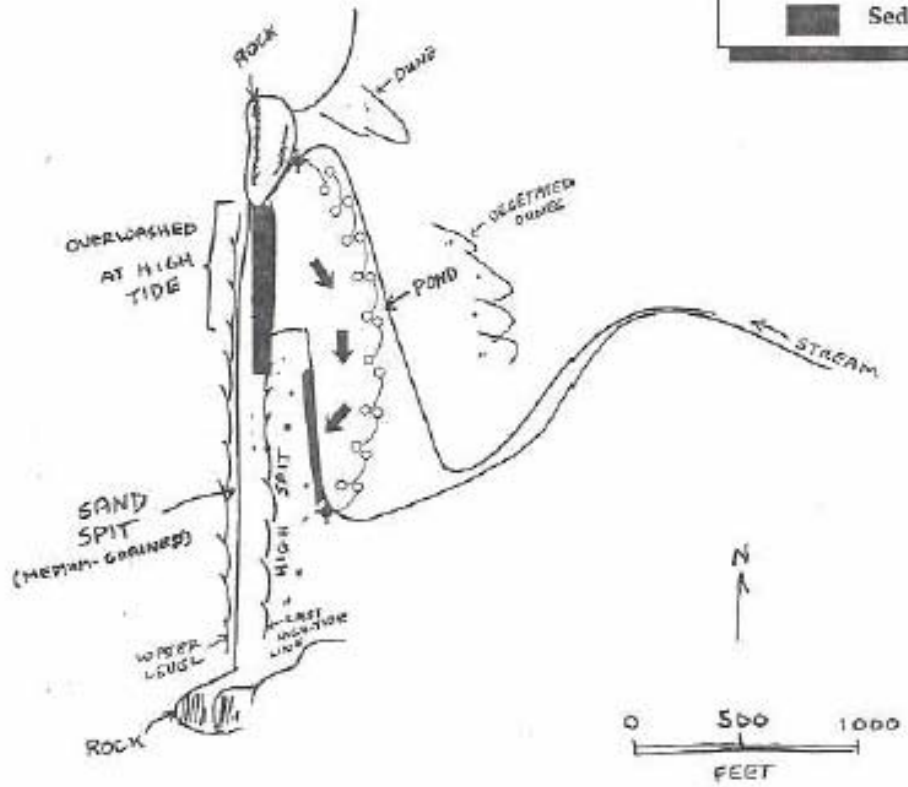
←——XXXXXXX——→ Recommended Oil-Catchment Area

Salt-Water Marsh

Fresh-Water Marsh

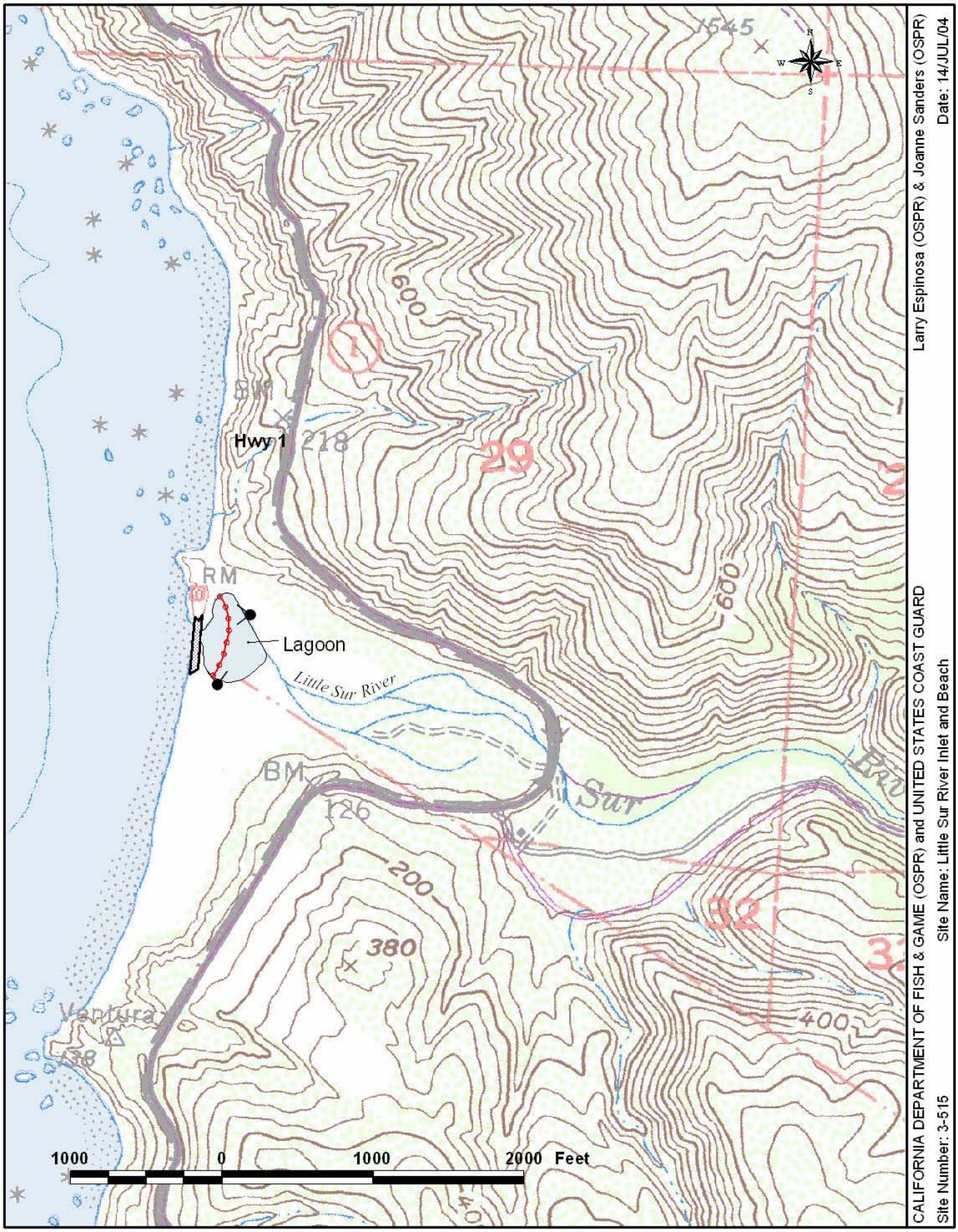
High-Tide Overwash Zone

Last High-Tide Swash Line



POTENTIAL PROTECTION STRATEGY (FLOOD TIDE)

- Path Of Oil
- Deflection Boom
- Oil On Shoreline
- Anchor Point / Hinge Line
- Sediment Dike


1545
600
BM
218
Hwy 1
29
RM
Lagoon
Little Sur River
BM
126
Sur
200
380
32
400
Ventura
138
1000
0
1000
2000 Feet
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Number: 3-515
Site Name: Little Sur River Inlet and Beach
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 14/JUL/04

SITE SUMMARY

SITE: 3-520 (A) **Point Sur Beach**

County	Monterey
OSPR Map No.	074
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Point Sur
Lat./ Long.	N 36° 18.7' / W 121° 54.6'
http://www.californiacoastline.org Image #s	200402440-200402449
Directions and access: Take Highway 1 south from Rio Road (in Carmel) about 20 miles. Pt. Sur Lighthouse is on the right. Conspicuous beaches are on either side of the point, with access possible from a paved road. Conditions permitting, small boats may be launched from the beach on the lee side of the point. Point Sur Beach is on the upcoast side of Point Sur.	

SITE DESCRIPTION:
Fine to medium grain sandy beach.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Western snowy plovers (threatened) can be found as well as other shore and seabirds including cormorants and endangered brown pelicans.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24 hour (831) 649-2810

REMARKS:
None.

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SITE SUMMARY

SITE: 3-522 (C) **Point Sur**

County	Monterey
OSPR Map No.	074
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Point Sur
Lat./ Long.	N 36° 18.6' / W 121° 54.6'
http://www.californiacoastline.org Image #s	220402446-2004024450
Directions and access: Take Highway 1 south from Rio Road (in Carmel) about 20 miles. Pt. Sur Lighthouse is on the right. Conspicuous beaches are on either side of the point, with access possible from a paved road. Conditions permitting, small boats may be launched from the beach on the lee side of the point. Point Sur Beach is on the upcoast side of Point Sur.	

SITE DESCRIPTION:
Exposed sandy beaches to the north and south. Point Sur Lighthouse, State Historic Building, is located on the rocky headland.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Pacific harbor seals haulout year round. From May-June, 800 animals have been observed here. In the first small cove just south of Point Sur, there is an elephant seal haulout area. Black swifts (DFG species of special concern, NDDB) can be found in the cliffs.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24 hour (831) 649-2810
Jim Hill (Owner of North Side of Pt. Sur), (831) 624-2719

REMARKS:
None

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SITE SUMMARY

SITE: 3-525 (A) **Sandy Beach South of Point Sur**

County	Monterey
OSPR Map No.	074
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Point Sur
Lat./ Long.	N 36° 17.7'/ W 121° 54.0' (upcoast end)
http://www.californiacoastline.org Image #s	220402449-2004024469 (fringing sandy beach all the way down to Big Sur River mouth at Molera Park.
Directions and access: Take Highway 1 south from Rio Road (in Carmel) about 20 miles. Pt. Sur Lighthouse is on the right. Conspicuous beaches are on either side of the point, with access possible from a paved road. Conditions permitting, small boats may be launched from the beach on the lee side of the point. This beach is on the downcoast side of Point Sur.	

SITE DESCRIPTION:
Sandy beach south of Point Sur. Fine to medium grained sandy beach with intertidal rocks and boulders.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Shorebirds and seabirds, including endangered brown pelicans and threatened snowy plovers.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
None.

REMARKS:
None.

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SITE SUMMARY

SITE: 3-530 (A) **Big Sur River Inlet**

County	Monterey
OSPR Map No.	074
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Point Sur
Lat./ Long.	N 36° 16.5' / W 121° 52.0'
http://www.californiacoastline.org Image #s	200402471, 2518, 2519, 1513, 1514, 1351, 7223085
Directions and access: From Point Lobos State Reserve, take Highway 1 south to the Andrew Molera State Park parking area. The walk-in campground along with the parking area can be used as a staging area. Vehicle access to Big Sur River mouth: North from the parking lot,1/4 mile, is a locked gate on a dirt road. This service road allows emergency response vehicles access to the river mouth.	

SITE DESCRIPTION:
Fringing freshwater marsh along banks of stream. This site is within Andrew Molera State Park which includes 4,786 acres of land with 2.6 miles of ocean frontage. The park includes the lower reaches of the Big Sur River.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Anadromous stream for steelhead trout. Shorebirds and seabirds, including endangered brown pelicans present. Sea otters present offshore. Staff from the Ventana Wilderness Sanctuary operate an ornithological education and research station in the park. Archeological sites have been found near the river mouth.

PROTECTION STRATEGY:
Close off inlet with sediment dike (sand and gravel) about 500 feet long, making every effort to preserve vegetated foredunes at east end of spit. [Note: Oil may penetrate coarse-grained sediments – protect with plastic sheeting or membrane.] If dike fails, only good catchment area is located on landward side of spit. Use deflection booms to direct oil to spit (see sketch). [NOTE: The entire spit would be washed over during extra high spring tides or during storms, making it impossible to keep oil out of the stream and marsh if the dike should fail].

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
Site of Andrew Molera State Park. Natural and cultural site. High recreational use. Surfing area. Walk-in camping.

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INLET SKETCH MAP

Inlet Name BIG SUR RIVER INLET, CA.

Recorder(s) MDH/TMM

Date/Time 7 NOV. 1992; 1558

Tide Stage LOW @ 1499 (+0.33); CARMEL COVE

Inlet Classification C

CHECKLIST

- ✓ North Arrow
- ✓ Scale
- ✓ High-Tide Line
- ✓ Low-Tide Line
- ✓ Substrate Type

LEGEND

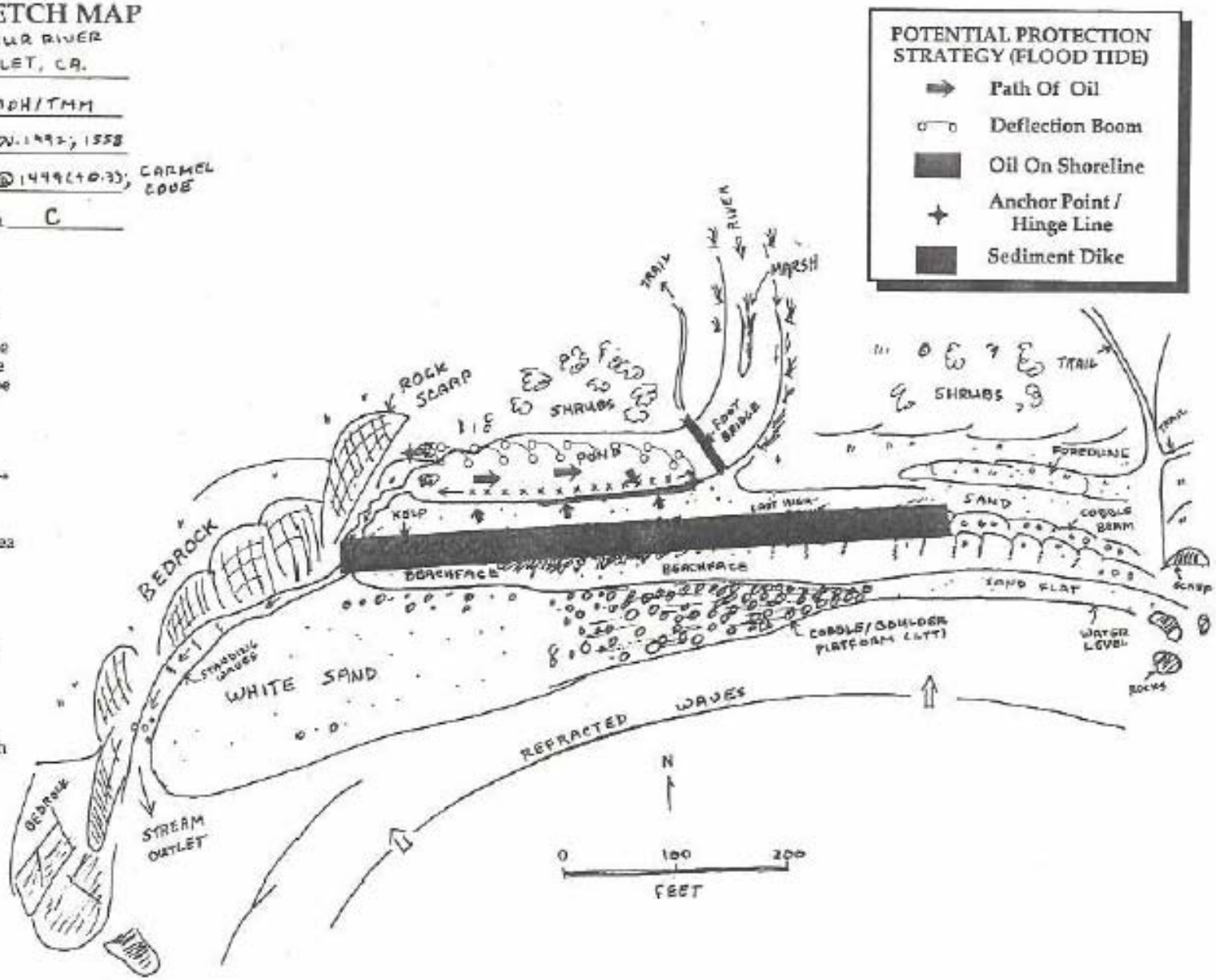
Recommended Oil-Catchment Area

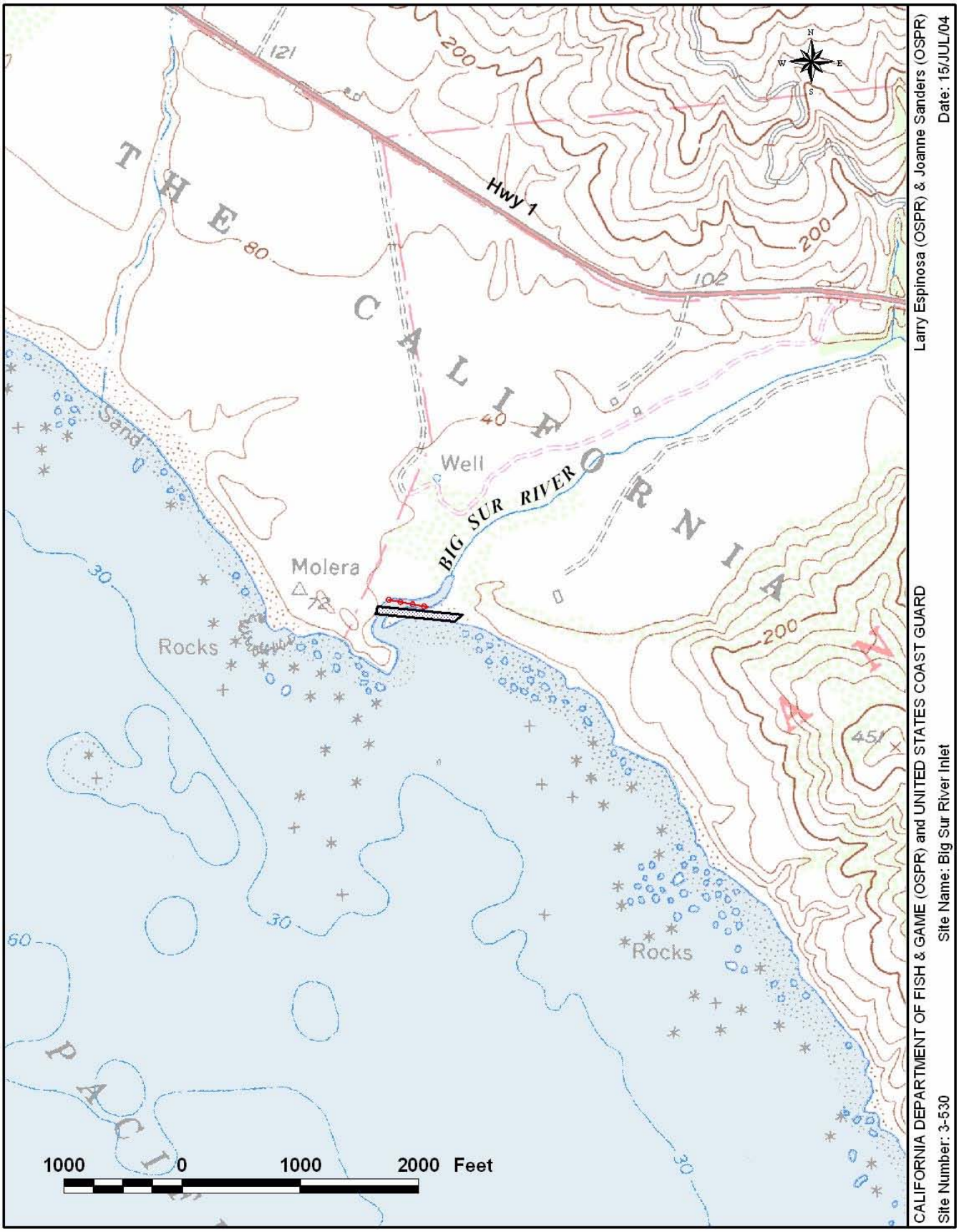
Salt-Water Marsh

Fresh-Water Marsh

High-Tide Overwash Zone

Last High-Tide Swash Line




THE CALIFORNIA
Hwy 1
121
200
80
102
40
Well
BIG SUR RIVER
Molera
72
Sand
Rocks
30
60
Rocks
451
PACIFIC
1000 0 1000 2000 Feet
N
S
E
W
Larry Espinosa (OSPR) & Joanne Sanders (OSPR)
Date: 15/JUL/04
CALIFORNIA DEPARTMENT OF FISH & GAME (OSPR) and UNITED STATES COAST GUARD
Site Name: Big Sur River Inlet
Site Number: 3-530

SITE SUMMARY

SITE: 3-540 (A) **Pfeiffer Beach**

County	Monterey
OSPR Map No.	077
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Pfeiffer Point
Lat./ Long.	N 36° 14.2' / W 121° 49.5'
http://www.californiacoastline.org Image #s	1536, 1537, 1538, 2545, 1368
Directions and access: Pfeiffer Beach is located within Julia Pfeiffer Burns State Park on Hwy.1, approximately 26 miles south of Carmel. Sheer cliffs are predominant along this stretch of coastline with small pocket beaches here and there. There is no vehicle access to the beach at the main Park Entrance (McWay Canyon). Limited vehicle access to the shoreline is available at Partington Canyon from Hwy. 1, through a locked gate and down a narrow, one-way road to the rocky beach. An inflatable craft, i.e. zodiac type, can be launched from this small beach.	

SITE DESCRIPTION:
The general site area (Pfeiffer Beach and Pfeiffer Point) can be described as having a prominent cliff shore line with a few pocket beaches. Owned by the U.S. Forest Service, run by private concessionaire.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Little Sur manzanita (candidate species) is a coastal bluff scrub plant species. This area is a rookery for double crested cormorants (DFG species of special concern). These birds nest in the coastal cliffs and occupy the area year round. A 1600 acre offshore area has been set aside by the State Lands Commission as an Underwater State Park. This same area has been declared an Area of Special Biological Significance.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation (831) 649-2810
U.S. Forest Service, Los Padres Dispatch (831) 961-5727
Monterey County Fire Dispatch, (831) 769-8899

REMARKS:
Recreational area. Also nearby Pfeiffer Bug Sur State Park, a recreational, day use and camping area. Pfeiffer Point has anchorage affording fair protection in north and northwest weather for small vessels, and is 0.9 miles ESE of Pfeiffer Point and 500 yard offshore in 8 fathoms.

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SITE SUMMARY

SITE: 3-550 (B) **Partington Point and South**

County	Monterey
OSPR Map No.	078
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Partington Ridge
Lat./ Long.	N 36° 11.1' / W 121° 43.4'
http://www.californiacoastline.org Image #s	200402537
Directions and access: Partington Point is located within Julia Pfeiffer Burns State Park on Hwy.1, approximately 26 miles south of Carmel. Sheer cliffs are predominant along this stretch of coastline with small pocket beaches here and there. There is no vehicle access to the beach at the main Park entrance (McWay Canyon). Limited vehicle access to the shoreline is available at Partington Canyon from Hwy. 1, through a locked gate and down a narrow, one-way road to the rocky beach. An inflatable craft, *i.e.*, zodiac type, can be launched from this small beach.	

SITE DESCRIPTION:
Sheer cliffs and small rocky beach.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
This area is a rookery for double crested cormorants (DFG species of special concern). These birds nest in coastal cliffs. A 1600 acre offshore area has been set aside by the State Lands Commission as an Underwater State Park. This same area has been declared an Area of Special Biological Significance.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24-hour (831) 649-2810

REMARKS:
Nearby Julia Pfeiffer Burns State Park. Area of Special Biological Significance. Possible access at Partington Ridge.

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SITE SUMMARY

SITE: 3-560 (B) **Dolan Rock Area**

County	Monterey
OSPR Map No.	079
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Lopez Point
Lat./ Long.	N 36° 05.0' / W 121° 37.3'
http://www.californiacoastline.org Image #s	1595
Directions and access:	

SITE DESCRIPTION:
Rocky area with moderate- to high-energy ocean waves.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
Pacific harbor seals. During the months of May-June, 400 animals have been observed here.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
None.

REMARKS:
None.

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SITE SUMMARY

SITE: 3-570 (A) **Limekiln State Park**

County	Monterey
OSPR Map No.	078
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Lopez Point
Lat./ Long.	N 36° 14.0' / W 121° 49.2'
http://www.californiacoastline.org Image #s	1537, 1538, 2547
Directions and access: Traveling south on Highway 1, Limekiln State Park is 2 mi. south of Lucia. Access is at the south end of the bridge. A narrow dirt road leads down to a semi-flat area which can support approximately 44 campground spaces adjacent to the beach and Limekiln Creek. This site is the only safe access to the to the shoreline for several miles either north or south from here.	

SITE DESCRIPTION:
The beach is composed of course-grained sand with a gentle sloping fore-shore.There is abundant marine life to attract scuba divers. Steep, unstable ocean cliffs are north and south of the beach.

SEASONAL CONCERNS:
Species of concern discussed below are present year round.

RESOURCES OF PRIMARY CONCERN:
A Redwood riparian plant community flourishes along the creek. Steelhead trout have been reported in the creek. At the upper end of the property are the remains of an old, historic lime kiln. Vigorous vegetative growth has taken over the structure.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
California Department of Parks and Recreation, 24 hour (831) 649-2810
Limekiln State Park, (831) 667-2403

REMARKS:
Recreational area with 43 campsites and easy beach public access. Other nearby (downcoast) U.S. Forest Service (805-961-5727) sites are: Kirk Creek 2 miles south of Limekiln, Mill Creek 3 miles south, Sand Dollar Beach, and Plaskett Creek Campground 7-8 miles south, Jade Cove 10 miles south and Willow Creek at 12 miles south.

About 9 miles north is Landels-Hill Big Creek Reserve, a recreational and research area (two adjacent reserve areas, Reserve Manager 831-667-2543).

About 5 miles north is Lopez Point, which has an anchorage affording some protection from northwest weather, 1 mile southwest of Lopez Point in 10 fathoms.

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SITE SUMMARY

SITE: 3-580 (A) **Gorda Beaches**

County	Monterey
OSPR Map No.	080
Thomas Guide (2004 Monterey Bay Metro Area) Map#	B
USGS 7.5' Quad	Cape San Martin
Lat./ Long.	N 35° 52.3' / W 121° 27.3'
http://www.californiacoastline.org Image #s	200402763
Directions and access: There are a series of small pocket beaches in the general area of Gorda, about 12 miles south of Limekiln State Park. Gorda has a gas station and restaurant, but no other services aside from a small paved parking area. Most of the access will be by foot and over relatively low bluffs with some steep paths.	

SITE DESCRIPTION:
Beaches fronted by wave-cut platform, near the town of Gorda.

SEASONAL CONCERNS:
Rookery December-March (Priority A); haulout July-Aug. (Priority **B**).

RESOURCES OF PRIMARY CONCERN:
Northern elephant seals.

TRUSTEE AGENCY/MANAGER/LOCAL EXPERTS:
U.S. Forest Service

REMARKS:
Salmon Creek, an Area of Special Biological Significance owned by the U.S. Forest Service (805-961-5727) is 6 miles south of Gorda.

9875.2 Cultural, Historical, Archeological & Economic Resources

For general information about cultural, historical and archeological resources, and the **Programmatic Agreement on Protection of historic properties during emergency response under the national oil and hazardous substances pollution contingency plan**, please refer to section 9802.1. The table below lists the cultural, historical, archaeological and economic resources for this Geographic Response Area.

Central Coast Geographic Response Area 5:
Garrapata Creek to Gorda Beaches

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Includes all of this GSA		E	Monterey Bay National Marine Sanctuary 299 Foam Street, Monterey, CA 93940	Superintendent (831) 647-4201 (831) 647-4260 FAX	N
		D	Commercial Fishing Grounds (salmon, rockfish, sole, squid, albacore, etc.)	Moss Landing Commercial Fisherman's Association P.O. Box 44 Moss Landing, CA 95039 Monterey Fishermen's Marketing Association P.O. Box 661 Pacific Grove, CA 93950 Mike Ricketts (831) 659-2838	N
Garrapata Creek Inlet **(Highway 1, 2 miles south of Malpaso Creek, Big Sur)**	3-500	C	Garrapata State Park Recreational area; 4 miles of rocky shoreline	Ca Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
Garrapata Creek **Inlet** **(Granite Canyon)**	3-500	E	Granite Canyon Research Facility Department of Fish and Game Coast Route 1, Granite Canyon Monterey, CA 93940 Saltwater intake and discharge lines	Calif. Dept. Fish and Game Spills (24-hour): (916) 358-1300 Gen. daytime: (831) 649-2870 Facility Manager (831) 624-0947	N
Little Sur River Inlet and Beach	3-515	E	Little Sur River	Private (El Sur Ranch) Jim Hill (owner): (831) 624-2719 Foreman: (831) 624-3514	N
Point Sur **(Highway 1 at Point Sur)**	3-522	C	Point Sur State Historic Park Historical site; Point Sur Lighthouse	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour) Jim Hill owns north side of Pt. Sur property (831) 624-2719	N
Big Sur River Inlet **(West of Highway 1, end of Old Coast Road, Big Sur)** OSPR Map: 076	3-530	C	Andrew Molera State Park (Big Sur River mouth) Natural and cultural site Recreational area; surfing area Walk-in camping	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N

Central Coast Geographic Response Area 5, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Pfeiffer Beach **(East of Highway 1, 26 miles south of Carmel)**	3-540	E	Pfeiffer Big Sur State Park Recreational area Camping Day use	Monterey County Fire Dispatch (831) 769-8899	N
Pfeiffer Beach **(West of Highway 1, end of Sycamore Canyon Road)**	3-540	E	Pfeiffer Beach Recreational area Owned by U.S. Forest Service, run by private concessionaire.	Monterey County Fire Dispatch (831) 769-8899 US Forest Service, Los Padres Dispatch (831) 961-5727 CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
Pfeiffer Beach	3-540	E	Pfeiffer Point Anchorage affording fair protection in north and northwest weather for small vessels, 0.9 miles ESE of Pfeiffer Point and 500 yards offshore in 8 fathoms	Monterey County Fire Dispatch (831) 769-8899	N
Partington Point and South	3-550	B	Julia Pfeiffer Burns State park Area of Special Biological Significance Possible access at Partington Ridge	CA Dept. of Parks and Rec. (831) 649-2810 (24-hour)	N
Limekiln State Park	3-570	E	Lopez Point Anchorage affording some protection from northwest weather, 1 mile southwest of Lopez Point in 10 fathoms	Daytime: (831) 667-2403 CA Dept. of Parks and Rec., Monterey District (831) 649-2810 (24-hour)	N
Limekiln State Park	3-570	E	Landels-Hill Big Creek Reserve Recreational area Research area	Daytime: (831) 667-2403 Landels-Hill Big Creek Reserve (831) 667-2543 CA Dept. of Parks and Rec., Monterey District (831) 649-2810 (24-hour)	N
Limekiln State Park **(Highway 1, 2 miles south of Lucia)**	3-570	B	Limekiln Beach Recreational area; campsites Easy beach public access	CA Dept. of Parks and Rec., Monterey District (831) 649-2810 (24-hour) US Forest Service (805) 961-5727	N
Limekiln State Park **(Highway 1, 4 miles south of Lucia)**	3-570	E	Kirk Creek Recreational area; campsites Owned by U.S. Forest Service, run by private concessionaire.	Daytime: (831) 667-2403 CA Dept. of Parks and Rec., Monterey District (831) 649-2810 (24-hour)	N
Limekiln State Park **(Highway 1, 5 miles south of Lucia)**	3-570	E	Mill Creek Recreational area: campsites Owned by U.S. Forest Service, run by private concessionaire.	Daytime: (831) 667-2403 CA Dept. of Parks and Rec., Monterey District (831) 649-2810 (24-hour)	N

Central Coast Geographic Response Area 5, continued

Site Location	Environ. Site Loc. /Sensitivity	Cult./ Hist./ Econ. Resp. Cat.	Description of Facility or Area	Contact Names/Numbers	Resp. Equip.
Limekiln State Park **(Pacific Valley, 6-10 miles south of Lucia**	3-570	E	Sand Dollar Beach Recreational area; campsites Owned by U.S. Forest Service, run by private concessionaire.	Daytime: (831) 667-2403 CA Dept. of Parks and Rec., Monterey District (831) 649-2810 (24-hour)	N
Limekiln State Park **(Highway 1, 12.4 miles south of Lucia)**	3-570		Jade Cove Recreational area; campsites Owned by U.S. Forest Service, run by private concessionaire.	Daytime: (831) 667-2403 CA Dept. of Parks and Rec., Monterey District (831) 649-2810 (24-hour)	N
Limekiln State Park **(Highway 1, 14 miles south of Lucia**	3-570		Willow Creek Recreational area; campsites Owned by U.S. Forest Service, run by private concessionaire.	Daytime: (831) 667-2403 CA Dept. of Parks and Rec., Monterey District (831) 649-2810 (24-hour)	N
Gorda Beaches	3-580		Salmon Creek Area of Special biological Significance Owned by U.S. Forest Service, run by private concessionaire.	CA Dept. of Parks and Rec., Monterey District (831) 649-2810 (24-hour)	N

9875.21 Other Resources and Species of Concern

Please see section 9871.21 for a discussion of this topic.

9875.22 Essential Fish Habitat

Please see section 9801.2 for a discussion of this topic.

9875.3 Operational Divisions

Please see Section 9871.3 for maps that delineate Operational Divisions for this ACP.