

CALIFORNIA CODE OF REGULATIONS
TITLE 14. NATURAL RESOURCES
DIVISION 1. FISH AND GAME COMMISSION – DEPARTMENT OF FISH AND GAME
SUBDIVISION 4. OFFICE OF OIL SPILL PREVENTION AND RESPONSE

**45-DAY COMMENT PERIOD
ILLUSTRATION OF CHANGES**

The California Department of Fish and Wildlife's Office of Spill Prevention and Response is proposing a repeal of the Shoreline Protection Tables dated August 29, 2013 and its associated Purpose and Scope and Glossary. Accordingly, those changes are illustrated entirely in single ~~strikeout~~.

REPEAL

SHORELINE PROTECTION TABLES (SP TABLES) FOR VESSEL TRAFFIC IN CALIFORNIA'S MARINE WATERS (Tables Dated August 29, 2013)

PURPOSE AND SCOPE

The Shoreline Protection Tables (SP Tables) set forth planning requirements for shoreline protection for vessels in California's marine waters. A vessel owner/operator shall demonstrate through contracts(s) or other approved means (see Sections 815.05(b) or 825.05(a)), the shoreline protection response resources necessary to protect each type of shoreline and all applicable sensitive sites as outlined in the appropriate SP Tables. Based on these Tables the owner/operators will be able to ascertain the type of equipment that must be available for the appropriate response strategies necessary to protect the shoreline types that could be affected. For the purpose of meeting the regulatory requirements, contracts for shoreline protection services can only be made with OSROs Rated by the Office of Spill Prevention and Response.

The SP Tables are for vessels that transit in California's marine waters. In addition, for the small harbors identified, a Small Harbor Table is included to define preparedness levels for these areas.

The requirements set forth in these Tables are planning standards and may not reflect the exigencies of actual spill response. However, these are the standards that must be used to determine the amount of equipment and personnel that must be under contract or other approved means. The owner/operator is ultimately responsible for protecting the sensitive sites identified from the entire volume of an actual spill regardless of the planning volume.

Skimming assets required to execute the strategies listed in the Tables will be included as part of the required on-water recovery capacity, as stipulated in CCR Sections 818.02(e) and 827.02(h), and should not be construed as requiring additional skimming capacity. Sorbent boom requirements included in the first 24 hours of response must be on scene by hour 24, but not necessarily deployed at specific sites. In a few instances (only as indicated in the Tables) up to 2,000 feet of containment boom required to meet the 2-hour on-water containment requirement, can be utilized for shoreline protection.

An owner/operator may propose alternatives to what is listed in the SP Tables for boats and staff only. The proposal may be tested by the Administrator anytime prior or subsequent to plan approval. The SP Tables shall be reviewed and updated as needed (e.g., to reflect updates to the ACPs, etc.). Updates to the SP Tables will be processed by OSPR staff using the procedures outlined in the Administrative Procedure Act.

A glossary of terms used in the SP Tables has been included (last page). This glossary explains the terms and abbreviations used in the tables. These are the commonly understood meanings of these terms, and are included here to make the SP Tables comprehensive, stand-alone documents.

To the greatest extent possible, California has endeavored to be consistent with the scope and intent of the Federal oil spill response regulations and the Area Contingency Plans (ACP) completed by the U.S. Coast Guard, state agencies, and local governments, with public participation, as required by the Oil Pollution Act of 1990 (33 USC 2701, et seq.).

SHORELINE PROTECTION TABLE - CALIFORNIA NORTH COAST - HUMBOLDT BAY 8/2013

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff
		First 6 hours	2000	4000	0		10 15					20
2.5	1-340.1	Paleo Marsh									Flash boards & keys to tide gates at Chevron & city	2
2.5	1-340.2	Paleo Marsh									debris hooks, shovels, pry bar, pitchfork	2
2.5	1-340.3	Paleo Marsh					10					2
3	1-330.1	Indian Isl (swamp boom supports 1-310.2 strategy)		500			22 lb+ Danforth anchors	1				2
3	1-345.1	Elk River & Marshes									Close drop gates - bolt cutters or keys for lock	2
4	1-310.2 ^a	North Humboldt Bay		2500			5 22 lb+ Danforth anchors	2		1 SPS		8
*up to 2000 ft of containment boom required to meet the 2 hour on-water containment requirement can be utilized												
		7-12 hours	4600		0		300 10					10
7	1-305.2	Humboldt Bay Mouth / Samoa Spit	2000				10 22 lb+ Danforth anchors	2		1 SSS/SPS		8
7	1-328.2	Woodley Island	1200				4 22 lb+ Danforth anchors	1		1 SPS		5
11	1-345.2	Elk River & Marshes	1400				300 5 22 lb+ Danforth anchors		1			4
11	1-345.3	Elk River & Marshes								1 SPS/SSS		2
		13-24 hours	750	400	0		1550 23					47
13	1-329.1	Woodley Island	1200				4 22 lb+ Danforth anchors	1		1 SPS	Stakes, shovels, hammer	3
14	1-350.1	South Humboldt Bay	1200				5 22 lb+ Danforth anchors	2		2 SSS		10
23	1-326.2	Eureka Slough		1000			100	1		1 SSS	collection and containment package	10
24	1-310.3	North Humboldt Bay	2000				10 22 lb+ Danforth anchors	1		1 SPS		4
24	1-320.1	Mad River Slough	1200	100			1200 1 22 lb+ Danforth anchors					6
24	1-324.1	Arcata Bay Sloughs - Jacoby Creek	500	100			100				Stakes, shovels, hammer	6
24	1-324.2	Arcata Bay Sloughs - Cannon Slough	500	100			100				Stakes, shovels, hammer	6
24	1-324.3	Arcata Bay Sloughs - Dutcher Slough	300	50			100				Stakes, shovels, hammer	6
24	1-324.4	Arcata Bay Sloughs - McDonald Slough	150	50			50				Stakes, shovels, hammer	6

SHORELINE PROTECTION TABLE - CALIFORNIA NORTH COAST - CAPE MENDOCINO NORTH 8/2013

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff	
		First 12 hours	4600	0	0		0 18			0		12	
2	1-268.1	False Cape Rock	on-water response only; no shoreline protection feasible										
2	1-273.1	Cape Mendocino	on-water response only; no shoreline protection feasible										
4	1-265.1	Clenterville Beach	on-water response only; no shoreline protection feasible										
12	1-260.2	Eel River	4600				18 22 lb+ Danforth anchors	1				12	

SHORELINE PROTECTION TABLE - CALIFORNIA NORTH COAST - PT ARENA 8/2013

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff
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		First 6 hours	600	300	0	0	0	0	10		
2	1-484.2	Garcia River & Manchester State Beach	600				3	22 lb+ Danforth anchors	1	5	
2	1-486.1	Point Arena	on-water response only; no shoreline protection feasible								
5	1-482.2	Alder Creek		200						5	
		7-to 24 hours	1400	0	100		300	28	0		
12	1-474.2	Greenwood Creek to Cuffey's Cove								over-flight assessment needed	10
12	1-476.1	Bonice Gulch	on-water response only; no shoreline protection feasible								
12	1-478.1	Elk Creek	on-water response only; no shoreline protection feasible								
16	1-472.2	Navarro River St. Plk	1000				12	22 lb+ Danforth anchors	2	8	
17	1-470.1	Salmon Point and Big Salmon Creek								install filter fence; fencing & 200 pom-poms	2
18	1-468.1	Albion River	300				300	12	22 lb+ Danforth anchors	1	5
24	1-464.2	Van Dam St. Plk and Little River	100		100 OS			4	22 lb+ Danforth anchors		2

SHORELINE PROTECTION TABLE - S.F. SECTOR - PT REYES 8/2013

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff
		First 6 hours	3000	0	50		100 15-20			0		9
2	2-201.1	Pt. Reyes Headlands	on-water response only; no shoreline protection feasible									
6	2-203.2	Drakes Beach (West)	3000		50 OS		100 15-20 22#+ Danforth	34			Storage tanks, bladders or vac trucks	9
6	2-207.1	Limnator Spit									Front-end loader/gader	
		7-24 hours	6000	5000	2100		8900 96					84
8	2-198.1	Point Reyes Beach	on-water response only; no shoreline protection feasible									0
12	2-205.1	Drakes Estero			2000 OB±		25 40#+ Danforth	4				28
12	2-205.2	Drakes Estero	6000		50 OS		2100 20 22#+ Danforth	4	4			28
12	2-210.1	Point Resistance	on-water response only; no shoreline protection feasible									0
12	2-213.1	Miller Point	on-water response only; no shoreline protection feasible									0
12	2-216.2	Double Point and Stormy Stack			1000 OB±		10 40#+ Danforth	2				6
12	2-219.12	Duxbury Reef					5000					4
14	2-198.1	Pt. Reyes Beach	on-water response only; no shoreline protection feasible									
18	2-197.2	Abbot's Lagoon (if not naturally closed)		500		600	4 12#+ Danforth		1			8
20	2-222.1	Bolinas Lagoon		4200	50 OS	200	25 15x22#, 10x30 45#, 8 stakes		2			8
24	2-225.1	Redwood Creek/Dig Lagoon/Muir Beach		200		1000	2 small anchors or stakes					2
24	2-231.1	Bird Island	on-water response only; no shoreline protection feasible									

SHORELINE PROTECTION TABLE - S.F. SOUTH COASTAL - PILLAR PT. 8/2013

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff
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		First 6 hours		0	50	0	508						2
2	2-260.1	Seal Cove to Pillar Point											
5	2-255.1	Shelter Cove & San Pedro Rock											
5	2-259.1	Point Montara Area											
6	2-253.1	San Pedro Creek			50		500	stakes					2
		7-24 hours		500	12350	0	200	25					40
11	2-264.4	Pillar Point Marsh & Denniston Creek		500				0	2/50' & 7/22 danforths + 20' chain	1	1	1 vessel sk	5
12	2-264.1	Pillar Point Marsh & Denniston Creek											2
12	2-264.2	Pillar Point Marsh & Denniston Creek			50			2	stakes				2
16	2-264.5	Pillar Point Marsh & Denniston Creek			12300		200	12	12' # danforths & stakes	2	2		10

SHORELINE PROTECTION TABLE - S.F. SECTOR - SOUTH S.F. BAY / ANCHORAGE 9 8/2013

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff		
		First 6 hours	8800	300	0	900	23			0		30		
2	2-207.1	Alameda Felgrass Beds									Initial on-site assessment needed	1		
2	2-204.1	Middle Harbor Shoreline Park	2500				7	7/22 + danforth	2	1		2		
3	2-209.1	San Leandro Bay	1200	300			200	5	22' # danforth & chain	2	1	Bboat-very shallow draft	8	
3	2-251.1	Yerba Buena Island	2000				7	22' # w/ 20' 1/2" chain	3	1	3000' 1/2" anchor line	11		
4	2-209.2	San Leandro Bay	1500				4	22' # danforth	2	1		8		
4	2-210.1	Bay Farm Island Felgrass Beds									Initial on-site assessment needed			
6	2-401.1	Pier 20	1600				700		tie boom to pilings/breakwall	1		boom tending for traffic	3	
		7-12 hours	2000	550	0	250	19			0		8		
12	2-253.1	Heron's Head Park - Indian Basin		200			200	12	12 stakes			2		
12	2-254.1	Islais Creek - Pier 04 Saltmarsh	1000	50			50	2	22' # danforths & stakes	1	1		3	
12	2-403.1	Crisoy Field Tidal Marsh		300			1	12' # danforth w chain & 2 stakes		1		3		
12	2-415.1	Horseshoe Bay	1000				3	3/22' danforth		1	1 vac truck			
		13-18 hours	8000	1950	0	600	20					20		
14	2-212.1	Oyster Point Bay		850			6	12' # danforths + 4 stakes		2		4		
14	2-252.2	South Basin, Hunters Point	500				2	22' # danforth	1		shallow water Bboat	3		
18	2-454.1	Richmond Inner Harbor/Hoffman Marsh	2500	1100			200	6	8-22' # danforth, 15' 1/2 chain	2	2	1	Shallow draft boom boat	8
18	2-480.2	Albany Marsh	1700				100	0	22' # danforth	2	1	1 Shallow	very shallow Bboats, skimmers & stakes	8
24	2-420.2	Richardson Bay Marshes	2300				300	6	22' # danforths + chain	2			6	

SHORELINE PROTECTION TABLE - S.F. SECTOR - CENTRAL SAN FRANCISCO BAY 8/2013

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff
		First 6 hours	12900	0	0	0	36			0		45
3	2-204.1	Middle Harbor Shoreline Park	2500				7	7/22 + Danforth	2	1	SSS	7
3	2-251.1	Yerba Buena Island	2000				7	22' # w/ 20' 1/2" chain	3	1	3000' 1/2" anchor line	11
5	2-452.1	Brook's Island	2300				7	22' # danforths + chain	1	1	boom boat capable of withstanding grounding	4
5	2-495.1	Emeryville Lagoon/Mudflats	2600				7	22' # danforth + 15' chain	3	2	Bboat: 1 very shallow draft	11
5	2-490.1	Berkeley Felgrass Beds									Initial on-site assessment needed	1

6	2-480.1	Albany Marsh		1500				8 22# + danforths	2	2		very shallow Dboats - skimmers & stakes.	11
		7-12 hours		3500	2500	4050		3300	36				40
7	2-454.1	Richmond Inner Harbor/Hoffman Marsh		2500	1100			8 22# + danforth, 15' 1/2 chain	2	2	1	Shallow draft boom boat.	8
9	2-234.2	Point Bonita and Bonita Cove				2000	OB±	40 40-60# Danforth	2				9
9	2-236.2	Pt. Diablo to Lime Point				2000	OB±	8-10 40-60# Danforth	2				13
9	2-415.1	Horseshoe Bay		1000				3 3/22# Danforth			1	1-vac Truck	2
11	2-225.1	Redwood Creek/Dig Lagoon/Muir Beach			200			2 small anchors or stakes					2
11	2-228.1	Rodeo Lagoon			1200	50	OS	2100 6 small anchors or stakes			1-2		6
		13-18 hours		8300	250	0		1550	25				31
13	2-401.1	Pier 29		1600				tie boom to piling & breakwall	1			boom tending for traffic	3
13	2-451.1	Castro Rocks		3000				10 5/40 + northhill & 7/22 + danforth	2			maneuverable Dboats & 1500' line	11
14	2-420.1	Richardson Bay Marshes		2700				12 22# + danforths + chain	2	1		Dboats capable of shallows & obstructions	11
14	2-506.1	San Pablo Bay Eelgrass Bed										Initial on-site assessment needed	1
15	2-353.1	Heron's Head Park - India Basin			200			12 stakes					2
15	2-354.1	Isais Creek - Pier 94 Saltmarsh		1000	50			3 22# + danforths & stakes	1	1			2
		19-24 hours		1500	0	0		0	4				

SHORELINE PROTECTION TABLE - S.F. SECTOR - SAN PABLO BAY GRA 5 8/2013

Protect-by-hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt-Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No-Type	Special Equipment and Notes	Staff
		First 6 hours	8500	1200	0		900	41		0		35
3	2-452.2	Richmond Eelgrass Beds	2500				6 22# + chain	2	1			6
4	2-501.1	Castro Creek and Marshes	4000				10 22# + Danforth + 20' chain	4				12
4	2-502.1	San Pablo Creek Marshes	2000				15 12# Danforth	2	2			10
4	2-506.1	San Pablo Bay Eelgrass Bed									Initial on-site assessment needed.	
5	2-503.1	Pinole Pt. Marshes South		900			900 8 12# Danforth anchors	1	1			5
6	2-452.1	Richmond Eelgrass Beds		300			2 stakes or anchors	0	1			2
		7-12 hours	8400	4900	0		6000	38		0		25
7	2-451.3	Castro Rocks	3000	2500			15 5/40# northhill & 10/22# Danforths	3			maneuverable Dboats & 1500' line	11
7	2-503.2	Pinole Pt. Marshes South	5400				6000 16 22# + danforth	2	1			8
10	2-422.1	Keil Cove		2400			7 20# + w 10' 1/2" chain	2			1-200 feet of M/2' anchor rope	6
		13-24 hours	9000	3200	0		0	24		0		24
13	2-451.2	Castro Rocks (flood tide, oil from S or SE)	6000				9 5/40 # Danforth and 4/22 # Danforth	2	1		maneuverable Dboats & 1500' line	11
16	2-453.2	Brook's Island		3200			8 5/22 # + danforth & 3 stakes	1	1		boom boat capable of withstanding grounding	4
24	2-427.1	Marin Islands	3000				7 22# danforths + chain.	3				9

SHORELINE PROTECTION TABLE - S.F. SECTOR - SUISUN BAY GRA 6 8/2013

Protect-by-hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt-Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No-Type	Special Equipment and Notes	Staff
		First 6 hours	9500	3450	0		5100	104		0		56

2	2-605.2	Hastings Slough & Point Edith Marshes	2400					6 5/22#++danforth+20'chain	2				9
3	2-605.1	Hastings Slough & Point Edith Marshes	1500	1100		2300	38	5/22#++ & 11/12#++ danforth & 22 stakes	2	6		bbot: shallow, strandable. Stakes	18
3	2-607.1	Weapons Station Marshes & Seal Islands		1050		900	14	4/12#++danforth & 10 stakes		4			2
4	2-603.1	Bull's Head marsh and Pacheco Creek	1100	400		1000	19	4/22#++ & 5/12#++ danforths & 10 stakes	1	2		bbot: strandable, shallow water, stakes	7
4	2-621.2	Roe Island	2000					7 75# danforth + heavy chain	2	4			9
5	2-608.1	Shore Acres Marsh		900		900	16	3#++ danforths & stakes	1	4			2
5	2-623.1	Middle Ground Island	1500					4 22#++ danforths & chain	2	4			8
		7-12 hours	5500	5650		6500	105				0		48
7	2-702.1	Stake Point Marshes	2000			600	22	4/22#++ & 6/12#++ danforths stakes &	2	2			10
7	2-752.1	Chips Island - Southern Side	200	1200		200	20	20/12#++ danforths and stakes	2	4		Dboat: shallow draft	8
8	2-601.2	Martinez Marsh	600					4 22#++danforth + 20' chain	1				2
8	2-673.1	Honker Bay East - Chippis Island Shore	400	1700		1000	15	2/22#++ & 4/12#++ danforth & 8 stakes	2				5
9	2-601.1	Martinez Marsh		250		1200	1	12#++ anchor & stakes		4		boat capable of shallow grounding	2
11	2-622.1	Ryer Island	2200	1900		2000	20	15/22#++ & 15/5#++ danforth 20 stakes	4	2		1 very shallow draft boats & 18 flags	18
12	2-621.1	Roe Island		600		200		6 12#++danforths & stakes		4		very shallow boat, draft airboat or hovercraft &	2
		13-18 hours	9000	3450	0	400	59				0		65
13	2-667.1	Freeman & Snag Islands	1200	250				8 12#++danforths & stakes	1	2			7
13	2-705.1	Mallard Island	2200			400	12	825# & 4/15# danforth	3	2			14
14	2-667.2	Freeman & Snag Islands	1200				6	22#++danforths & stakes	2				6

SHORELINE PROTECTION TABLE - S.F. SECTOR - SUISUN BAY GRA 6, continued 8/2013

Protect-by-hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other-Boom Amt-Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No-Type	Special Equipment and Notes	Staff
14	2-671.1	Honker Bay West - Wheeler Island Shore	1200	700			6 6/12#++danforths & stakes	2	4			15
17	2-688.1	Dutton Island		2500			22					12
18	2-755.1	Spoonbill Creek	2000				5 22#++ danforth, 100' line, 30' chain	3	4			11
		18-24 hours LBB	19800	200	0	200	47			4		66
19	2-660.1	Grizzly Bay	12000				26 22#++danforth & chain	1-12	2		shallow draft boom boat - grounding capable	40
20	2-672.1	Honker Bay North - Van Sickle Island	800	200		200	8 12#++ danforths	2	2	1-SSS		10
20	2-712.1	Winter Island	6000				13 22#++danforth anchors	4	2			16

SHORELINE PROTECTION TABLE - S.F. SECTOR - MONTEREY ANCHORAGE A 8/2013

Protect-by-hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other-Boom Amt-Type	Sorbent Boom	Anchoring Systems No. Kind	Boom Boats	Skiffs	Skimmers No-Type	Special Equipment and Notes	Staff	
		First 6 hours	5400	0	0	0	10					12	
2	2-260.1	Monterey State Beach	on-water response only; no shoreline protection feasible										

2	3-370.1	Monterey Harbor Entrance	2400				2	large Danforth, as needed	2			2 mooring weights with buoys	6
2	3-375.1	USCG Jetty in Monterey Bay	3000				3	large Danforth, as needed	2				6
4	3-330.1	Monterey Bay Dunes	on-water response only; no shoreline protection feasible										
5	3-380.1	Point Cabrillo	on-water response only; no shoreline protection feasible										
		7-18 hours	0	2000	0	0	8				0		10
40	3-245.1	Marina St. Beach	on-water response only; no shoreline protection feasible										
46	3-240.2	Salinas River Inlet		2000			8	4 Stakes & 4 Danforths					10
47	3-325.1	Salinas River State Beach	on-water response only; no shoreline protection feasible										
		19-24 hours	3000	1600		4200	19						10
49	3-305.1	Moss Landing Inlet	2000	1600	OS&		3000	12	1	1		Anchor posts or stakes	5
49	3-310.1	Elkhorn Slough			OS&		1200	6	1	1		Anchor posts or stakes	5
23	3-301.1	Zmudowski Beach St. Park	on-water response only; no shoreline protection feasible										

SHORELINE PROTECTION TABLE - CENTRAL COAST - PT BUCHON / MORRO BAY AREA 8/2013

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt. Type	Sorbent Boom	Anchoring Systems No.	Kind	Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff
		First 6 hours	8700	1000	0	5100	18						56
2	4-210.2	Hay Creek		100			2	small anchors or stakes			1 SSS		4
2	4-215.1	Lion Rock	on-water response only; no shoreline protection feasible										
3	4-200.1	Morro Bay Sand Spit	on-water response only; no shoreline protection feasible										
4	4-150.1	Morro Rock	on-water response only; no shoreline protection feasible										
4	4-200.1	Morro Bay inlet	2000				2	40 lb. Anchors	2		1 SFS/SPS		6
4	4-200.2	Morro Bay inlet	2000				2	40 lb. Anchors	2		1 SSS/SPS		6
4	4-200.2	Morro Bay inlet	3500				2	40 lb. Anchors	2		1 SFS/SPS		6
5	4-215.1	Morro Bay St. Park Marina	1200				2	40 lb. Anchors		2	1 SFS	fence posts	6
5	4-220.1	Morro Bay Marsh Habitat				5000				2	1 SFS	fence posts	6
5	4-225.1	Chorro Creek inlet				50					1 SSS	fence posts	4
5	4-230.1	Los Osos Creek inlet				50					1 SSS	metal stakes	4
5	4-235.2	Sweet Springs Marsh	50,000				2	small anchors or stakes			1 SSS	fence posts	4
5	4-240.1	Cuesta by the Sea inlet		200			2				1 SSS		4
6	4-130.1	Morro Strand State Beach - North	on-water response only; no shoreline protection feasible										
6	4-130.2	Morro Strand State Beach - North/Willow Creek		100			2	small anchors or stakes			1 SSS	small anchors, stakes, or fence posts	2
6	4-135.2	Torro Creek		200			2						4
6	4-140.1	Morro Strand State Beach - South	on-water response only; no shoreline protection feasible										
6	4-145.1	Morro Strand State Beach - Pismo Clam Preserve	on-water response only; no shoreline protection feasible										
		7-24 hours	1000	600	0	0	6						16
18	4-120.1	Cayucos Point & San Geronimo Creek	on-water response only; no shoreline protection feasible										
18	4-115.2	Villa Creek Inlet and Beach		300			2	small anchors or stakes			1 SSS		2
18	4-115.5	Villa Creek Inlet and Beach	on-water response only; no shoreline protection feasible										
18	4-120.1	Cayucos Point & San Geronimo Creek	on-water response only; no shoreline protection feasible										
18	4-120.3	Cayucos Point & San Geronimo Creek		100			2	small anchors or stakes			1 SSS		4
18	4-125.2	Cayucos Creek Inlet		200			2	small anchors or stakes			1 SSS		4
24	4-220.1	Diablo Canyon Pwr Plant	1000						2	2	SFS		6

SHORELINE PROTECTION TABLE - SANTA BARBARA CHANNEL / PT CONCEPTION 8/2013

Protect by hour	Strategy or Site	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt. Type	Sorbent Boom	Anchoring Systems		Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff
	Number						No. Kind						
		First 6 hours	0	400	0	395	13				0		18
		on-water response only; no shoreline protection feasible											
2	4-567.1	Pt. Conception/Government Pt.											
4	4-570.1	Damite Canyon Creek		400			50	5				1 FE Loader, 3 culvert, 20 sandbags, 1 u-stakes, 1 roll plastic, 1 stake driver, 20' construction fencing, 1 hand tool	5
4	4-572.1	San Augustine Creek					15					20 Sand Bags, 1 Roll Plastic, 3 Culverts, 15 Stakes, 1 hand tool	2
4	4-575.1	Arroyo El Dolito		400		400	4					1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5
5	4-580.1	Canada De Santa Anita (Creeks)		200		200	4					1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5
		7-12 hours	0	800	0	800	12				0		15
8	4-585.1	Canada De Alegria		200		200	4					1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5
11	4-590.1	Canada Del Agua Caliente		200		200	4					1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5
11	4-601.1	Gaviota Creek		400		400	4					1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5
		13-24 hours	0	400	0	400	8				0		10
13	4-605.1	Canada Del Alcatraz & Cementario Cks					4					50 Sand Bags, 1 Roll Plastic, 3 Culverts, 1 hand tool	5
18	4-610.1	Refugio Creek		400		400	4					1 FE Loader, 1 Roll Plastic, 3 Culverts, 20 Sand Bags, 15 Stakes, 1 stake driver, 10' construction fencing, 1 hand tool	5

SHORELINE PROTECTION TABLE - PORT HUENEME RELEASE 8/2013

Protect by hour	Strategy or Site	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt. Type	Sorbent Boom	Anchoring Systems		Boom Boats	Skiffs	Skimmers No. Type	Special Equipment and Notes	Staff
	Number						No. Kind						
		First 6 hours	5400	0	0	2500	16				0		12
2	4-775.1	Channel Islands Harbor	2000			1500	8		2	2	1	(1) 20 yd waste bin, 1 portable oil storage tank	6
2	4-780.1	Port Hueneme	2400			1000	8		2	2	1	(1) 20 yd waste bin, 1 portable oil storage tank	6
		7 to 18 hours	2000	3000	0	3000	27				1		30
8	4-750.1	Santa Clara River Estuary		1500		1000	6					1 FE loader, 1 roll plastic, 40 sand bags, 6 culverts, 150 stakes, 3 stake drivers, 40' construction fencing, (1) 20 yd waste bin, 1 portable	10
9	4-747.1	Ventura Harbor	2000			1000	15		2	2	1	oil storage tank, 1 hand tool (1) 20 yd waste bin, 1 portable oil storage tank	10
10	4-783.1	Ormond Beach Wetlands & State Beach		1500		1000	6					1 FE loader, 1 roll plastic, 40 sand bags, 6 culverts, 150 stakes, 3 stake drivers, 40' construction fencing, (1) 20 yd waste bin, 1 portable	10
		19 - 24 hours	0	1000	0	1000	6				0		7
19	4-740.1	Ventura River Mouth		1000		1000	6			1		1 FE loader, 1 roll plastic, 40 sand bags, 6 culverts, 100 stakes, 3 stake drivers, 40' construction fencing, (1) 20 yd waste bin, 1 portable	7

SHORELINE PROTECTION TABLE - LA / LB HARBOR BREAKWATER 8/2013

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt-Type	Sorbent Boom	Anchoring Systems		Boom Boats	Skiffs	Skimmers No-Type	Special Equipment and Notes	Staff
							No.	Kind					
		First 6 hours	5400	0	0	0	9					10	
5	5-260.1	Alamitos Bay/Los Cerritos Wetlands	800										2
6	5-210.1	Anaheim Bay (Seal Beach NWL Refuge)	1500				4 Danforth 40lb		1				4
6	5-210.2	Anaheim Bay (Seal Beach NWL Refuge)	2100				5 Danforth 40lb		1				4
		7-12 hours	4200	0		200	8						10
7	5-220.1	Middle Breakwater										On-water recovery/ART	
7	5-240.1	Long Beach Harbor Breakwater										On-water recovery/ART	
7	5-250.1	Golden Shore Marine Reserve	200			200							2
8	5-250.2	Golden Shore Marine Reserve	2000				4 Danforth 40lb		1				4
12	5-320.1	Bolsa Chica	2000				4 Danforth 40lb		1				4
		13-24 hours	0	0		0	0						
24	5-220.1	Los Angeles Harbor Breakwater										On-water recovery/ART	

SHORELINE PROTECTION TABLE - SAN DIEGO BAY AT MOUTH 8/2013

Protect by hour	Strategy or Site Number	Site/Strategy Name	Harbor Boom	Swamp Boom	Other Boom Amt-Type	Sorbent Boom	Anchoring Systems		Boom Boats	Skiffs	Skimmers No-Type	Special Equipment and Notes	Staff
							No.	Kind					
		First 6 hours	6000	0	0	0	12						8
3	6-400.62	Shelter Island Deflection boom	2500				8 heavy anchor systems		2				4
4	6-400.72	North Island Collection boom	2500				4		1				4
* up to 2000 ft of containment boom required to meet the 2-hour on-water containment requirement can be utilized													
		7-12 hours	1700	0	0	0	11						7
7	6-415.1	Navy Magnetic Silencing Facility	1500				2		1				2
12	6-420.1	Cross Bay Boom	2000				8 med weight anchor systems		2				4
		13-24 hours	6000	6700	0	0	28						35
16	6-430.2	USN Delta Beach	1500				6 light wt anchor systems		2				6
16	6-435.2	Paradise Marsh	500										
24	6-440.2	Sweetwater River NWL Refuge		6500			14 light wt anchor systems		2				6
24	6-450.2	Chula Vista Wildlife Reserve	4000				4 light wt anchor systems		2				4
24	6-455.2	South Bay NWL Refuge and Otay River		200			4 light wt anchor systems			1		close flood gates	4
24	6-460.2	Emory Cove Marsh										300 sand bags, 15 shovels and sand	15

SHORELINE PROTECTION TABLE - SAN DIEGO BAY AT CORONADO BRIDGE 8/2013

Protect by hour	Strategy or Site Number	Site Name	Harbor Boom	Swamp Boom	Other Boom Amt-Type	Sorbent Boom	Anchoring Systems		Boom Boats	Skiffs	Skimmers No-Type	Special Equipment and Notes	Staff
							No.	Kind					

		First 6 hours	40000	500	0	0	30					22
2	6-420.12	Cross Bay Boom	2000				8		2			4
3	6-420.2	USN Delta Beach	1500				6 light wt anchor systems		2			6
4	6-425.2	Paradise Marsh		500			2 light wt anchor systems		2			6
5	6-440.2	Sweetwater River NWL Refuge	6500				14 light wt anchor systems		2			6
* Up to 2000 ft of containment boom required to meet the 2 hour on-water containment requirement can be utilized												
		7-12 hours	1500	0	0	0	8					23
7	6-455.2	South Bay NWL Refuge and Otay River	500				4 light wt anchor systems		1			4
8	6-460.2	Emory Cove Marsh									300 sand bags, shovels and sand	15
10	6-400.10	Harbor Island Marina	1000				4 light wt anchor systems		1			4
		13-24 hours	3000	0	0	0	10					11
18	6-400.9	Commercial Basin	1000				4 light wt anchor systems		1			4
20	6-400.8	Shelter Island Marina	500				3 light wt anchor systems		1			4
24	6-415.1	Navy Magnetic Silencing Facility	1500				3 light wt anchor systems		1			3

Small Harbor BAP Shoreline Requirements for Small Vessel Response Plans 8/2013

Harbor	deploy by hour	Strategy* or Site Number	Site Name / location	Harbor Boom*	Swamp Boom*	Sorbent Boom*	Anchor Systems* Kind	Boom* Boats	Skiffs	S Nc	Skimmers Type*	Special Equipment and Notes	Staff
Crescent City Shelter Cove	3	as needed	Crescent City	1000		200	4 Danforth anchoring systems	1				oil sweep can be substituted for sorbent boom	3
Fort Bragg	3	as needed	Noyo Harbor		1000	200	4 Danforth anchoring systems		1			oil sweep can be substituted for sorbent boom	3
Albion	3	as needed	Albion		1000	200	8 Danforth anchoring systems		1			oil sweep can be substituted for sorbent boom	3
Bodega Bay	3	2-118.2	Bodega Harbor	1800			1 22+ lb danforths	2				shoreside skimmer	8
	3	as needed	Bodega Harbor		1000	200	4 anchoring systems						
Bolinas	3	2-146.1	Bolinas Lagoon		3000	200	8 4x12+# anchors + 4 stakes			3			
Pillar Point	3	2-162.4	Pillar Point Marsh & Denniston Creek	500			9 2/50+ & 7/22 danforths + chains	1	1				
	3	as needed	Pillar Point Marsh & Denniston Creek		1000	200	4 anchoring systems						
	7	2-162.4	Pillar Point Marsh & Denniston Creek							1	SPS		
Santa Cruz													
	3	3-220.1	Santa Cruz Harbor Entrance	2500			7 Danforth anchoring systems	3			SPS	skimmer with 3 staff	11
	7	3-210.1	San Lorenzo River Inlet		800	400	9 Danforth anchoring systems				SSS	600' 6" PVC pipe or berm	20
Moss Landing	3	as needed			1000	200	4 Danforth anchoring systems		1				3
	7	3-305.1	Moss Landing Inlet	5500	1600	2000 OS	1 0 7 Stakes & 3 Danforth	4		3	SSS	Share VSW boom boats + Elkhorn Slough crew.	20
	7	3-310.1	Elkhorn Slough		6000	12000 OS	8 4 Stakes & 4 Danforth as needed	2				Remark: backup to Moss Landing - one or more chevrons. VSW boomboat	10
Morro Bay	3	4-200.2	Morro Bay Inlet	2000			2 40 lb. Anchors	2		1	SFS		6
	7	4-225.1	Chorro Creek Inlet			50	2 small anchors or stakes			1	SSS	fence posts	4
	7	4-230.1	Los Osos Creek Inlet			50	2 small anchors or stakes			1	SSS		4
	7	4-235.2	Sweet Springs Marsh		300		2 small anchors or stakes			1	SSS	fence posts	4
	7	4-240.1	Cuesta by the Sea Inlet		200		2 small anchors or stakes			1	SSS		4
Port San Luis / Avilla	3	4-335	Port San Luis / Avilla		on-water response							on-water response only; no shoreline protection feasible	
Santa Barbara Harbor	3	4-665.1	Santa Barbara Harbor	4000	0	2500	2 anchoring systems	2	1	1		(1) 20 yd waste bin, 1 portable oil storage tank	10
	7	4-670.2	Mission Creek / Laguna Channel		1600	1600	8 anchoring systems					160 stakes, 2 stake drivers, (1) 4wd vehicle	8
	7	4-672.2	Sycamore Creek and Andre Clark Bird R	Refuge	400	400	8 anchoring systems					160 stakes, 2 stake drivers, (1) 4wd vehicle	8
Ventura Harbor	3	4-747.1	Ventura Harbor	2000		1000	1 anchoring systems	2	2	1		(1) 20 yd waste bin, 1 portable oil storage tank	10
	3	4-750.1	Santa Clara River estuary		1500	1000	6 anchoring systems			1		1 FE loader, 1 roll plastic, 6 culverts, 40 sand bags, 150 stakes, 3 stake drivers, 40' construction fencing, (1) 20 yd waste bin, 1 portable oil storage tank, 1	10
Channel Islands Harbor	3	4-775.1	Channel Islands Harbor	3000		1500	8 anchoring systems	2	2			(1) 20 yd waste bin, 1 portable oil storage tank	6
Marina Del Rey	3	as needed	Marina Del Rey		1000	200	3 anchoring systems	1					3
	3	5-140.1	Ballona Creek	500			1 40 lb Danforth anchoring systems	1					4
	3	5-150.1	Ballona Lagoon Wetlands									Close Tidal Gates.	
	3	5-150.2	Ballona Wetlands									Block Culvert. Sandbags/Inflatable Plug	
Kjin Harbor	3	as needed	Kjin Harbor		1000	200	4 anchoring systems			1			3
Dana Point	3	as needed	Dana Point Harbor		1000	200	4 anchoring systems						
	3	5-390.2	San Juan Creek									1000' of Filter Barrier Fencing and posts.	10
Newport Bay Harbor	3	5-360.1	Lower Newport Bay	2000			5 anchoring systems	7					4
	7	5-365.1	Upper Newport Bay	1000			4 anchoring systems	1					4
Oceanside/Carlsbad	3	as needed	Oceanside & Carlsbad harbors		1000		4 anchoring systems						
	7	6-145.2	Santa Margarita River	3000			8 anchoring systems	2					8
Mission Bay	3	6-200.1	Mission Bay entrance	800			2 anchoring systems						4
	3	6-200.2	Mission Bay entrance	700			2 anchoring systems						3
	3	6-200.3	Mission Bay entrance	400			1 anchoring systems						2
	7	as needed	Mission Bay		5000		12 anchoring systems			2			4

REPEAL

Glossary of Terms Used in the BAP Shoreline Protection Tables

August 29, 2013

Anchoring Systems—Anchoring systems refer to anchors, stakes and other devices necessary to secure booms and other mechanically deployed protection measures. When used to identify anchors, whether expressly stated or not, anchoring systems must be sufficient to hold boom in the aggressive currents such as are common to SF Bay and other California estuaries. Typically systems are presented as a number of anchors and minimal weight (e.g., 3/12+ means three anchors of a minimum of 12 lbs each) with at least an equal weight of anchor chain weight whether specified or not; without substantial anchor chain weight, anchors will not hold. To insure successful anchoring, the anchoring system should include: anchors with anchor buoys to control placement, anchor chains which equal or exceed the weight of anchors, enough line to produce adequate scope to hold anchors (rule of thumb is 3:1 (line to depth), but 5-7:1 for high current areas), and a crown buoy between anchor line and boom to keep the anchor from sinking the boom under strong currents.

BBoat—see Boom Boat

Boom Boats—a boat suitable for transporting, towing and deploying large amounts of boom, usually crewed with a helmsman and two crew for deployment. Numbers of such boats usually are referenced in terms of boom boat equivalent (BBE). BBE is the capability of a vessel to transport and deploy 600 feet of Harbor Boom or 1800 ft of Swamp Boom. Actual vessels may be capable of transporting greater or lesser amounts of boom. Boom boats must be capable of grounding without sustaining damage. (Also see Shallow Water Boom Boats and Very Shallow Water Boom Boats.)

Danforth—refers to “danforth anchors” with chain. Northill anchors and other anchor types which “dig in” are equivalent.

FELoader—Front end loader or skip loader: mechanical equipment with mechanical scoop or bucket for moving sediment.

GNOME—General NOAA Oil Spill Modeling Environment

Harbor Boom—an inland waters type boom (greater than 18" and less than 42" overall (flotation and skirt)) of a curtain boom design (skirted boom with solid flotation). Early strategies attempted to clarify boom size by indicating flotation and skirt as follows: 9X9+ which indicated a boom with at least 9" of flotation and 9" of skirt, and would now be interpreted as at least 18" overall. This boom type typically has strength members (steel cable and chain) in both upper and lower margins.

Protect By Hour—the hour after the release when the site must be protected to insure that the site protection is in place before the oil is likely to impact. Generally, this time is about an hour prior to impact, but may be otherwise due to uncertainty of impact time.

Other Boom—is any boom other than harbor boom, swamp boom, or sorbent boom. This term is used to simplify equipment tables. A type designator should be used as well as a length. Type designators include: **TB** or **TBB**—tidal barrier boom or Texas barrier boom **OB**—ocean boom **OS**—oil snare

SWEP—oil sweep: sorbent pads in continuous strips **Shallow Water**—less than three feet of water

Shallow Water Boom Boats—a boom boat capable of working in three feet of water or less, and should be able to withstand stranding without sustaining damage.

Skiff—a small two person craft able to operate in 3 foot waves or larger and capable of delivering personnel and equipment to shores.

Skimmer—refers to a skimming system. A skimming system includes a collection device (such as a weir, rope mop, drum, or other skimming design to separate oil from the aqueous environment), storage for collected material, power supply to power such a system, and all the hoses and connectors necessary for system operation. Types of skimmers refer to the configuration of the deployment of such systems rather than a particular device or manufacturer.

SFS—stationary floating skimmer—a floating platform supporting a skimmer and storage.

SPS—self propelled skimmer—a small to medium sized skimmer with its own propulsion and storage.

SSS—shore side skimmer, includes a skimming unit, such as a rope mop or weir skimmer and its support pack and a storage container such as a vacuum truck, baker tank, or other tank.

SWS—Shallow Water Skimmers—Skimmers capable of operating in less than two feet of water.

Towed Skimming Array—a skimming system with two boats towing collection booms connected to a skimmer (in a “V” formation) to funnel oil to the skimmer and may be referred to with the acronyms TSA and VSA.

TSA—(towed skimming array as above)—a skimming array with two boats towing collection booms which funnel oil to a skimming system, of either SPS or SFS design.

VSA—“V” Skimming Array—Same as TSA

OSRV—Oil Spill Response Vessel. A large self-powered vessel dedicated to oil spill skimming and response

VOSS—Vessel of Opportunity Skimming System—Usually moderate to large vessel which can be equipped

~~with a skimming device and storage to create a mobile on-water skimmer capable of operating in local conditions and waters.~~

~~**Sorbent Boom**—sorbents in a boom or sausage like construction with or without a skirt.~~

~~**Strategy or Site Number**—deployments are listed in the Area Contingency Plan by a site number or as a strategy number which includes the site number.~~

~~**Swamp Boom**—a river boom type (less than 18" overall, usually less than 12" overall) of a curtain boom design. Usually this boom has much lighter strength members, commonly only a single chain in the skirt. This boom is suitable for modest currents and locations without waves.~~

~~**VSW**—very shallow water~~

~~**Very Shallow Water**—less than two feet of water~~

~~**Very Shallow Water Boom Boats**—a boom boat capable of working in two feet of water or less, and should be able to withstand stranding without sustaining damage.~~