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(i) A predominant species of demersal fish;

(ii) The most abundant macroinfaunal species; and

(iii) A dominant epifaunal species, with particular preference for a species of economic importance.

(f) *Other measurements*—(1) *Hydrodynamic features*. The direction and speed of water movement shall be characterized at levels appropriate for the site and type of waste to be dumped. Where depths and climatic conditions are great enough for a thermocline or halocline to exist, the relationship of water movement to such a feature shall be characterized.

(i) *Current measurements*. When current meters are used as the primary source of hydrodynamic data, at least 4 current meter stations with at least 3 meters at depths appropriate for the observed or expected discontinuities in the water column should be operated for as long as possible during the survey. Where feasible, current meters should be deployed at the initiation of the survey and recovered after its completion. Stations should be at least a mile apart, and should be placed along the long axis of the dumping site. For dumping sites more than 10 miles along the long axis, one current meter station every 5 miles should be operated. Where there are discontinuities in surface layers, e.g., due to land runoff, stations should be operated in each water mass.

(ii) *Water mass movement*. Acceptable methods include: dye, drogues, surface drifters, side scan sonar, bottom drifters, and bottom photography or television. When such techniques are the primary source of hydrodynamic data, coverage should be such that all significant hydrodynamic features likely to affect waste movement are measured.

(2) *Sea state*. Observations of sea state and of standard meteorological parameters shall be made at 8-hour intervals.

(3) *Surface phenomena*. Observations shall be made of oil slicks, floating materials, and other visible evidence of pollution; and, where possible, collections of floating materials shall be made.

(g) *Survey procedures and techniques*. Techniques and procedures used for

sampling and analysis shall represent the state-of-the-art in oceanographic survey and analytical practice. Survey plans shall specify the methods to be used and will be subject to approval by EPA.

(h) *Quality assurance*. The EPA management authority may require that certain samples be submitted on a routine basis to EPA laboratories for analysis as well as being analyzed by the surveyor, and that EPA personnel participate in some field surveys.

§ 228.14 Dumping sites designated on an interim basis.

(a)(1) The sites identified in this section are approved for dumping the indicated materials on an interim basis pending completion of baseline or trend assessment surveys and final designation or termination of use. Unless otherwise specifically provided in the entry for a particular site, such interim use sites are available indefinitely pending completion of the present studies and determination of the need for the continuing use of these sites, the completion of any necessary studies, and evaluation of their suitability. Designation studies for particular sites within this group will begin as soon as feasible after the completion of nearby sites presently being studied. The sizes and use specifications are based on historical usage and do not necessarily meet the criteria stated in this part.

(2) Unless otherwise specifically noted, site management authority for each site set forth in this section is delegated to the EPA Regional office under which the site entry is listed.

(3) Unless otherwise specifically noted, all ocean dumping site coordinates are based upon the North American Datum of 1927.

(b) Region I Interim Dredged Material Sites.

(1) Cape Arundel, ME.

(i) *Location*: 43°17'45"N., 70°27'12"W. (500 yds. diameter).

(ii) [Reserved]

(c) Region I Interim Other Wastes Sites.

(1) No interim sites.

(2) [Reserved]

(d) Region II Interim Dredged Material Sites.

- (1) No interim sites.
- (2) [Reserved]
- (e) Region II Interim Other Wastes Sites.
 - (1) Incineration of Wood, NY/NJ.
 - (i) *Location:* 40°00'00"N. to 40°04'20"N.; 73°41'00"W. to 73°38'10"W.
 - (ii) [Reserved]
 - (2) [Reserved]
 - (f) Region III Interim Dredged Material Sites.
 - (1) No interim sites.
 - (2) [Reserved]
 - (g) Region III Interim Other Wastes Sites.
 - (1) No interim sites.
 - (2) [Reserved]
 - (h) Region IV Interim Dredged Material Sites.
 - (1) Port Royal Harbor North, SC.
 - (i) *Location:* 32°10'11"N., 80°36'00"W.; 32°10'06"N., 80°36'35"W.; 32°08'38"N., 80°36'23"W.; 32°08'41"N., 80°35'49"W.
 - (ii) [Reserved]
 - (2) Port Royal Harbor South, SC.
 - (i) *Location:* 32°05'46"N., 80°35'30"W.; 32°05'42"N., 80°36'27"W.; 32°04'22"N., 80°36'16"W.; 32°04'27"N., 80°35'18"W.
 - (ii) [Reserved]
 - (3) Palm Beach Harbor West, FL.
 - (i) *Location:* 26°46'10"N., 80°02'00"W.; 26°45'54"N., 80°02'06"W.; 26°45'54"N., 80°02'13"W.; 26°46'10"N., 80°02'07"W.
 - (ii) [Reserved]
 - (4) Palm Beach Harbor East, FL.
 - (i) *Location:* 26°46'00"N., 79°58'55"W.; 26°46'00"N., 79°57'47"W.; 26°45'00"N., 79°57'47"W.; 26°45'00"N., 79°58'55"W.
 - (ii) [Reserved]
 - (5) Port Everglades Harbor, FL.
 - (i) *Location:* 26°07'00"N., 80°04'30"W.; 26°07'00"N., 80°03'30"W.; 26°06'00"N., 80°03'30"W.; 26°06'00"N., 80°04'30"W.
 - (ii) [Reserved]
 - (6) [Reserved]
 - (7) Charlotte Harbor, FL.
 - (i) *Location:* 26°37'36"N., 82°19'55"W.; 26°37'36"N., 82°18'47"W.; 26°36'36"N., 82°18'47"W.; 26°36'36"N., 82°19'55"W.
 - (ii) [Reserved]
 - (8) Port St. Joe South, FL.
 - (i) *Location:* 29°50.9'N., 85°29.9'W.; 29°51.3'N., 85°29.5'W.; 29°49.2'N., 85°28.2'W.; 29°49.0'N., 85°28.8'W.
 - (ii) [Reserved]
 - (9) Port St. Joe North, FL.
 - (i) *Location:* 29°53.9'N., 85°31.8'W.; 29°54.1'N., 85°31.3'W.; 29°52.2'N., 85°30.1'W.; 29°52.2'N., 85°30.8'W.

- (ii) [Reserved]
- (10) Panama City, FL.
 - (i) *Location:* 30°07.1'N., 85°45.9'W.; 30°07.2'N., 85°45.5'W.; 30°06.9'N., 85°45.1'W.; 30°06.7'N., 85°45.6'
 - (ii) [Reserved]
- (i) Region IV Interim Other Wastes Sites.
 - (1) No interim sites.
 - (2) [Reserved]
 - (j) Region VI Interim Dredged Material Sites.
 - (1) Mississippi River, Baton Rouge to the Gulf of Mexico, LA—South Pass.
 - (i) *Description and location:* Maintenance dredging disposal area 0.5 mile square, parallel to the channel and located on the west side. Beginning at 28°58'33"N. and 89°07'00"W., following channel centerline (azimuth 295°41') of the Gulf entrance channel to 28°58'24"N. and 89°06'30"W., thence to 28°57'54"N. and 89°06'42"W., thence to 28°58'06"N. and 89°07'18"W., thence to the point of beginning.
 - (ii) [Reserved]
 - (2) Mississippi River Outlets, Venice, LA—Tiger Pass.
 - (i) *Description and location:* Maintenance dredging disposal area 0.5 mile wide by 2.5 miles long, parallel and adjacent to the channel and located on the south side. Beginning at 29°08'24"W. and 89°25'35"N. following 270° azimuth to 29°08'24"W. and 89°28'05"N., thence to 29°07'54"W. and 89°28'05"N., thence to 29°07'54"W. and 89°25'35"N., thence to the point of beginning.
 - (ii) [Reserved]
 - (3) Waterway from Empire, LA to the Gulf of Mexico—Bar channel.
 - (i) *Description and location:* Maintenance dredging disposal area 0.5 mile wide by 1 mile long, parallel to the channel and located on the west side. Beginning at 29°15'06"N. and 89°36'30"W., following channel centerline (azimuth 11°08') of the gulf entrance channel to 29°14'30"N. and 89°36'36"W., thence to 29°14'36"N. and 89°36'48"W., thence to 29°15'12"N. and 89°36'42"W., thence to the point of beginning.
 - (ii) [Reserved]
 - (4) Bayou Lafourche and Lafourche—Jump Waterway, LA—Bell Pass.
 - (i) *Description and location:* Maintenance dredging disposal area 2,000 feet wide by 1.5 miles long, parallel to the channel and located on the west side.

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Beginning at 29°05'00"N. and 90°13'45"W., following Bell Pass centerline (azimuth 12°55') in the gulf entrance channel to 29°03'51"N., and 90°14'06"W., thence to 29°03'57"N. and 90°14'21"W., thence to 29°05'06"N. and 90°14'03"W., thence to the point of beginning.

(i) [Reserved]

(5) [Reserved]

(6) Mermentau River, LA, Disposal Area "A".

(i) *Description and location:* Maintenance dredging disposal area 0.5 mile wide and 1.5 miles long, parallel to the entrance channels in the Lower Mermentau River and in the Lower Mud Lake, both located on the west side: Beginning at 28°44'48"N. and 93°07'12"W., following channel centerline (azimuth 256°59') of the gulf entrance to 29°43'39"N. and 93°07'36"W., thence to 29°43'42"N. and 93°07'48"W., thence to 29°44'51"N. and 93°07'24"W., thence to the point of beginning.

(ii) [Reserved]

(7) Mermentau River, LA, Disposal Area "B".

(i) *Description and location:* Maintenance dredging disposal area 0.5 mile wide by 1.5 miles long, parallel to the entrance channels in the Lower Mermentau River in the Lower Mud Lake, both located on the west side: Beginning at 29°43'24"N. and 93°01'54"W., following channel centerline (azimuth 359°50') of the gulf centerline to 29°42'33"N. and 93°02'12"W., thence to 29°42'36"N. and 93°02'24"W., thence to 29°43'36"N. and 93°02'06"W., thence to the point of beginning.

(ii) [Reserved]

(8) Freshwater Bayou, LA—Bar channel.

(i) *Description and location:* Maintenance dredging disposal area 2,000 feet wide by 3.5 miles long, parallel to the channel and located on the west side. Beginning at 29°32'00"N. and 92°18'48"W., following channel centerline (azimuth 09°25') of the gulf entrance to 29°28'24"N. and 92°19'30"W., thence to 29°28'25"N. and 92°19'42"W., thence to 29°32'01"N. and 92°19'00"W., thence to the point of beginning.

(ii) [Reserved]

(k) Region VI Interim Other Wastes Sites.

(1) No interim sites.

(2) [Reserved]

(l) Region IX Interim Dredged Material Sites.

(1) Newport Beach, CA (LA-3).

(i) *Location:* 33°31'42"N., 117°54'48"W. (1,000 yd. radius).

(ii) [Reserved]

(2) Port Hueneme, CA (LA-1).

(i) *Location:* 34°05'00"N., 119°14'00"W. (1,000 yd. radius).

(ii) [Reserved]

(3) Crescent City Harbor, CA (SF-1).

(i) *Location:* 41°43'15"N., 124°12'10"W. (1,000 yd. diameter).

(ii) [Reserved]

(4) Noyo River, CA (SF-5).

(i) *Location:* 39°25'45"N., 123°49'42"W. (500 yd. diameter).

(ii) [Reserved]

(5) Guam—Apra Harbor.

(i) *Location:* 13°29'30"N., 144°34'30" E. (1,000 yd. radius)

(ii) [Reserved]

(m) Region IX Interim Other Wastes Sites.

(1) No interim sites.

(2) [Reserved]

(n) Region X Interim Dredged Material Sites.

(1) Rogue River Entrance, OR.

(i) *Location:* 42°24'16"N., 124°26'48"W.; 42°24'04"N., 124°26'35"W.; 42°23'40"N., 124°27'13"W.; 42°23'52"N., 124°27'26"W.

(ii) [Reserved]

(2) Port Orford, OR.

(i) *Location:* 42°44'08"N., 124°29'38"W.; 42°44'08"N., 124°29'28"W.; 42°43'52"N., 124°29'28"W.; 42°43'52"N., 124°29'38"W.

(ii) [Reserved]

(3) Umpqua River Entrance, OR.

(i) *Location:* 43°40'07"N., 124°14'18"W.; 43°40'07"N., 124°13'42"W.; 43°39'53"N., 124°13'42"W.; 43°39'53"N., 124°14'18"W.

(ii) [Reserved]

(4) Siuslaw River Entrance, OR.

(i) *Location:* 44°01'32"N., 124°09'37"W.; 44°01'22"N., 124°09'02"W.; 44°01'14"N., 124°09'07"W.; 44°01'24"N., 124°09'42"W.

(ii) [Reserved]

(5) Yaquina Bay and Harbor Entrance, OR.

(i) *Location:* 44°36'31"N., 124°06'4"W.; 44°36'31"N., 124°05'16"W.; 44°36'17"N., 124°05'16"; 44°36'17"N., 124°06'04"W.

(ii) [Reserved]

(6) Tillamook Bay Entrance, OR.

(i) *Location:* 45°34'09"N., 123°59'37"W.; 45°34'09"N., 123°58'45"W.; 45°33'55"N., 123°58'45"W.; 45°33'55"N., 123°59'37"W.

(ii) [Reserved]

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- (7) Willapa Bay, WA.
 - (i) *Location*: 46°44'00"N., 124°10'00"W.; 46°39'00"N., 124°09'00"W.
 - (ii) [Reserved]
 - (o) Region X Interim Other Wastes Sites.
 - (1) No interim sites.
 - (2) [Reserved]

[59 FR 61129, Nov. 29, 1994, as amended at 61 FR 2946, Jan. 30, 1996; 65 FR 31497, May 18, 2000]

§ 228.15 Dumping sites designated on a final basis.

(a)(1) The sites identified in this section are approved for dumping the indicated materials. Designation of these sites was based on environmental studies conducted in accordance with the provisions of this part 228, and the sites listed in this section have been found to meet the site designation criteria of §§ 228.5 and 228.6.

(2) Unless otherwise specifically noted, site management authority for each site set forth in this section is delegated to the EPA Regional office under which the site entry is listed.

(3) Unless otherwise specifically noted, all ocean dumping site coordinates are based upon the North American Datum of 1927.

(b) Region I Final Dredged Material Sites.

(1) Portland, Maine, Dredged Material Disposal Site.

(i) *Location*: 43°33'36"N., 70°02'42"W.; 43°33'36"N., 70°01'18"W.; 43°34'36"N., 70°02'42"W.; 43°34'36"N., 70°01'18"W.

(ii) *Size*: One square nautical mile.

(iii) *Depth*: 50 meters.

(iv) *Primary use*: Dredged material.

(v) *Period of use*: Continuing use.

(vi) *Restriction*: Disposal shall be limited to dredged material.

(2) Massachusetts Bay Disposal Site.

(i) *Location*: Center coordinates (NAD 1983) 42°25.1' north latitude, 70°35.0' west latitude.

(ii) *Size*: 2 nautical mile diameter.

(iii) *Depth*: Average 90 meters.

(iv) *Exclusive Use*: Dredged material.

(v) *Period of Use*: Continuing.

(vi) *Restriction*: Disposal shall be limited to dredged material which meets the requirements of the MPRSA and its accompanying regulations. Disposal-and-capping is prohibited at the MBDS

until its efficacy can be effectively demonstrated.

(c) Region I Final Other Wastes Sites.

(1) No final sites.

(2) [Reserved]

(d) Region II Final Dredged Material Sites.

(1) Fire Island Inlet, Long Island, New York Dredged Material Disposal Site.

(i) *Location*: 40°36'49"N., 73°23'50"W.; 40°37'12"N., 73°21'30"W.; 40°36'41"N., 73°21'20"W.; 40°36'10"N., 73°23'40"W.

(ii) *Size*: Approximately 1.09 square nautical miles.

(iii) *Depth*: Ranges from 7 to 10 meters.

(iv) *Primary Use*: Dredged material disposal.

(v) *Period of Use*: Continuing use.

(vi) *Restrictions*: Disposal shall be limited to dredged material from Fire Island Inlet, Long Island, New York.

(2) Jones Inlet, Long Island, New York Dredged Material Disposal Site.

(i) *Location*: 40°34'32"N., 73°39'14"W.; 40°34'32"N., 73°37'06"W.; 40°33'48"N., 73°37'06"W.; 40°33'48"N., 73°39'14"W.

(ii) *Size*: Approximately 1.19 square nautical miles.

(iii) *Depth*: Ranges from 7 to 10 meters.

(iv) *Primary use*: Dredged material disposal.

(v) *Period of use*: Continuing use.

(vi) *Restrictions*: Disposal shall be limited to dredged material from Jones Island Inlet, Long Island, New York.

(3) East Rockaway Inlet, Long Island NY Dredged Material Disposal Site.

(i) *Location*: 40°34'36"N., 73°49'00"W.; 40°35'06"N., 73°47'06"W.; 40°34'10"N., 73°48'6"W.; 40°34'12"N., 73°47'17"W.

(ii) *Size*: Approximately 0.81 square nautical miles.

(iii) *Depth*: Ranges from 6 to 9 meters.

(iv) *Primary use*: Dredged material disposal.

(v) *Period of use*: Continuing use.

(vi) *Restrictions*: Disposal shall be limited to dredged material from East Rockaway Inlet, Long Island, New York.

(4) Rockaway Inlet, Long Island, New York Dredged Material Disposal Site.