US Army Corps of Engineers®

Summary Report

SEPTEMBER 1999

UNITED STATES OF AMERICA

Ocean Dumping Report for Calendar Year

1998

DREDGED MATERIAL

UNITED STATES OF AMERICA

OCEAN DUMPING

REPORT FOR

CALENDAR YEAR

1998

DREDGED MATERIAL

Prepared by Headquarters, U. S. Army Corps of Engineers

20 Massachusetts Ave. N.W.

Washington, D.C. 20314-1000

SEPTEMBER 1999

Background

Under the authority of the International Maritime Organization (IMO), the United States and all other contracting nations to the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter are required to submit an annual report for each ocean disposal operation. The U.S. Army Corps of Engineers has been tasked with preparing the dredged material portion of these IMO Ocean Dumping Reports.

Reports Numbering System

The following pages contain all 65 U.S. prepared calendar year (CY) 1998 IMO Dredged Material Ocean Disposal Reports. They are numbered as follows:

(1) Pages C-1 through C-116 represent the 47 CY 1998 Corps of Engineers dredged material ocean disposal activities as authorized by the United States Congress.

(2) Pages P-1 through P-57 represent the 18 CY 1998 permitted dredged material ocean disposal activities conducted by permit under authority of Section 103 of the Marine Protection Research and Sanctuaries Act of 1972.

Summary of Data

During CY 1998, the U.S. ocean-disposed 52,770,704 cubic meters of dredged material of which 7,478,935 cubic meters were disposed under Section 103 permit authority, and 45,291,769 cubic meters were disposed under Corps project authority.

Geographical distribution of the U.S. CY 1998 ocean-disposed dredged material was as follows:

Region	Cubic Meters	IMO Report References
Atlantic Ocean	8,510,915	C-1 to C-32, C-115 to C-116, P-1 to P- 48
Gulf of Mexico	31,281,927	C-33 to C-65
Pacific Ocean	12,977,862	C-66 to C-114, P-49 to P-57

Seattle and Honolulu districts did not carry out any ocean disposal activities during CY 1998. Baltimore District data was reported by Norfolk District.

District Location Abbreviations

Abbreviation	District Name	District Location
NAN	New York	New York, NY
NAE	New England	Boston, MA
NAB	Baltimore	Baltimore, MD
NAO	Norfolk	Norfolk, VA
NAP	Philadelphia	Philadelphia, PA
SAC	Charleston	Charleston, SC
SAW	Wilmington	Wilmington, NC
SAS	Savannah	Savannah, GA
SAJ	Jacksonville	Jacksonville, FL
SAM	Mobile	Mobile, AL
MVN	New Orleans	New Orleans, LA
SWG	Galveston	Galveston, TX
SPL	Los Angeles	Los Angeles, CA
SPN	San Francisco	San Francisco, CA
NWP	Portland	Portland, OR
NWS	Seattle	Seattle, WA
POA	Alaska	Anchorage, AK
POH	Honolulu	Honolulu, HI

Authorship

The 1998 IMO Ocean Disposal Reports in this document were prepared by numerous Corps of Engineers employees in 18 Corps Districts and Divisions which have coastal boundaries. For additional information concerning individual projects, please contact the Corps District employee listed under "Point of Contact" at the end of each project. For projects with no contact listed or other information regarding this report, the central point of contact in the United States Government is:

Headquarters (CECW-OD)
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This report was compiled and published under the Dredging Operations Technical Support program (http://www.wes.army.mil/el/dots/), Mr. Tom Patin, manager and Mr. Joseph Wilson, Technical Monitor. It was compiled by Mr. Charles H. Lutz, US Army Engineer Research and Development Center, WES, Environmental Laboratory.

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Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2409]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. COHASSET HARBOR, COHASSET, MA
      COE COHASSET HARBOR, COHASSET MAINTENANCE DREDGING (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 76,600

7. Expected frequency of dumping (for reporting period):
   a. 3 A WEEK
   b. Actual start: 09/15/98
   c. Actual completion: 12/29/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	4	0.0000000	4	1.870000	7.300000	4.660000
MERCURY	4	0.0000000	4	0.049000	0.220000	0.132000
CADMIUM	4	0.0000000	4	0.115000	0.430000	0.256000
LEAD	4	0.0000000	4	19.000000	64.000000	38.700000
CHROMIUM	4	0.0000000	4	21.000000	42.000000	33.000000
COPPER	4	0.0000000	4	12.000000	34.000000	21.500000
NICKEL	4	0.0000000	4	8.700000	14.000000	12.170000
ZINC	4	0.0000000	4	45.000000	92.000000	66.500000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	4	0.0014000	0	0.000000	0.000000	0.000000
DIELDRIN	4	0.0024000	1	0.000000	0.000000	0.003500
ENDOSULFAN	4	0.0021000	0	0.000000	0.000000	0.000000
ALPHA-ENDOSULFAN	4	0.0021000	0	0.000000	0.000000	0.000000
BETA-ENDOSULFAN	4	0.0019000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	4	0.0020000	0	0.000000	0.000000	0.000000
DDD	4	0.0000000	4	0.003500	0.011000	0.005000
DDE	4	0.0000000	4	0.009800	0.039000	0.018000
DDT	4	0.0000000	3	0.011000	0.025000	0.016000
ENDRIN	4	0.0049000	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	4	0.0020000	0	0.000000	0.000000	0.000000
HEPTACHLOR	4	0.0015000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	4	0.0018000	0	0.000000	0.000000	0.000000
LINDANE	4	0.0013000	0	0.000000	0.000000	0.000000
METHOXYCHLOR	4	0.0018000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
BENZO(A)ANTHRACENE	4	0.0000000	4	0.019000	0.950000	0.270000
CHRYSENE	4	0.0000000	4	0.020000	1.200000	0.390000
FLUORANTHENE	4	0.0000000	4	0.065000	3.700000	1.470000
BENZO(GHI)PERYLENE	4	0.0000000	4	0.370000	0.790000	0.480000
FLUORENE	4	0.0000000	4	0.024000	0.160000	0.058300
ANTHRACENE	4	0.0000000	4	0.035500	0.240000	0.087300
BENZO(A)PYRENE	4	0.0000000	4	0.060000	0.100000	0.090000

INDENO(1,2,3-CD)PYRENE	4	0.0000000	4	0.370000	0.790000	0.480000
PHENANTHRENE	4	0.0000000	4	0.021500	1.300000	0.420000
DIBENZE(A,H)ANTHRACENE	4	0.0000000	4	0.370000	0.790000	0.480000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL ORGANIC CARBON	4	0.0000000	4	0.700000	3.100000	2.400000
% CLAY	4	0.0000000	4	23.250000	77.330000	52.150000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 2
    Site Name: MASSACHUSETTS BAY DISPOSAL SITE
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 12161 feet.

Center of Site is:
42E25'49.0" N 070E34'00.0" W
Depth(ft): Low Depth- 190 High Depth- 302
Nearest Distance from shore (nm): 19.1

Reference Site Location:
Site No: 167
Site Name: MASS BAY REFERENCE (1992 AND LATER)

Geographical position (NAD 1927)

42E22Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

14. Disposal Site Management:
    Seasonal restrictions were enforced
    Site Monitoring was performed
    Bathymetry Monitoring was performed
    Chemical Monitoring was performed
    Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
Amplesica abdita

17. Bioassay Bioaccumulation Information (Organisms Tested):
Macoma nausta

18. General Comments

% clay = % fines

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2410]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. FORE RIVER, PORTLAND HARBOR, PORTLAND ME
      COE PORTLAND HARBOR (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 291,500

7. Expected frequency of dumping (for reporting period):
   a. 1 A DAY
   b. Actual start: 11/17/98
   c. Actual completion: 12/16/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	23	0.0000000	23	9.500000	19.000000	14.840000
MERCURY	23	0.0000000	23	0.130000	1.400000	0.477800
CADMIUM	23	0.0000000	23	0.180000	1.100000	0.677800
LEAD	23	0.0000000	23	8.000000	80.000000	44.170000
CHROMIUM	23	0.0000000	23	4.200000	56.000000	43.920000
COPPER	23	0.0000000	23	8.900000	43.000000	30.730000
NICKEL	23	0.0000000	23	14.000000	30.000000	25.040000
ZINC	23	0.0000000	23	46.000000	170.000000	113.560000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	23	0.0000000	0	0.000000	0.000000	0.000000
CHLORDANE	23	0.0000000	0	0.000000	0.000000	0.000000
DIELDRIN	23	0.0000000	1	0.000000	0.000000	0.034000
ENDOSULFAN	23	0.0000000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	23	0.0000000	0	0.000000	0.000000	0.000000
DDD	23	0.0000000	23	0.012000	0.220000	0.043000
DDE	23	0.0000000	23	0.042000	0.094000	0.054000
DDT	23	0.0000000	22	0.014000	0.032000	0.023000
ENDRIN	23	0.0000000	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	23	0.0000000	0	0.000000	0.000000	0.000000
HEPTACHLOR	23	0.0000000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	23	0.0000000	0	0.000000	0.000000	0.000000
METHOXYCHLOR	23	0.0000000	0	0.000000	0.000000	0.000000
TOXAPHENE	23	0.0000000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
NAPHTHALENE	23	0.0000000	21	0.037000	0.170000	0.115000
BENZO(A)ANTHRACENE	23	0.0000000	23	0.130000	1.140000	0.552000
BENZO(B)FLUORANTHENE	23	0.0000000	21	0.160000	1.000000	0.567000
ACENAPHTHYLENE	23	0.0000000	15	0.084000	0.280000	0.151000
CHRYSENE	23	0.0000000	23	0.150000	1.200000	0.652000
BENZO(K)FLUORANTHENE	23	0.0000000	22	0.160000	0.980000	0.548000
ACENAPHTHENE	23	0.0000000	0	0.000000	0.000000	0.000000
FLUORANTHENE	23	0.0000000	23	0.340000	1.900000	0.952000
BENZO(GHI)PERYLENE	23	0.0000000	23	0.083000	0.740000	0.385000
FLUORENE	23	0.0000000	0	0.000000	0.000000	0.000000
PYRENE	23	0.0000000	22	0.450000	2.600000	1.340000
ANTHRACENE	23	0.0000000	14	0.130000	0.390000	0.230000
BENZO(A)PYRENE	23	0.0000000	22	0.220000	1.200000	0.593000
INDENO(1,2,3-CD)PYRENE	23	0.0000000	23	0.083000	0.710000	0.383000
PHENANTHRENE	23	0.0000000	22	0.120000	0.870000	0.488000
DIBENZE(A,H)ANTHRACENE	23	0.0000000	7	0.100000	0.170000	0.139000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL ORGANIC CARBON	23	0.0000000	23	0.350000	3.200000	2.100000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 76
    Site Name: PORTLAND
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 0 feet.

Center of Site is:
43E34'06.0" N 070E02'00.0" W
Depth(ft): Low Depth- 135 High Depth- 203
Nearest Distance from shore (nm): 7.1

Reference Site Location:
Site No: 169
Site Name: PORTLAND REFERENCE

Geographical position:
43E38Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
Ampelisca abdita

17. Bioassay Bioaccumulation Information (Organisms Tested):
Macoma nasuta

18. General Comments

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAO [DS= 2335]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. BALTIMORE DISTRICT USACE
      CAPE HENRY CHANNEL (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 979,500

7. Expected frequency of dumping (for reporting period):
   a. 2.5X/DAY
   b. Actual start: 01/05/98
   c. Actual completion: 05/15/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 85
Site Name: DAM NECK
Geographical position: (NAD 1927)

36E51'24.1" N 075E54'41.4" W 36E51'24.1" N 075E53'02.9" W
36E46'27.4" N 075E51'39.2" W 36E46'27.5" N 075E54'19.0" W
36E50'05.0" N 075E54'19.0" W
Depth(ft): Low Depth- 30 High Depth- 40
Nearest Distance from shore (nm): 3.3

Reference Site Location:
NO REFERENCE SITE HAS BEEN ENTERED

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MICHELLE BANTON 757-441-7491

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAP [DS= 2340]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. CAPE MAY NEW JERSEY
      COLD SPRING INLET (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: MECHANICAL DREDGE
   b. Mode of transportation: PIPELINE DISCHARGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 49,700

7. Expected frequency of dumping (for reporting period):
   a. 2X YEAR
   b. Actual start: 03/12/98
   c. Actual completion: 03/31/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: RESLURRY AND HYDRAULIC DISCHARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 95
Site Name: COLD SPRING INLET
Geographical position: (NAD 1927)

38E55'41.0" N 074E53'05.0" W 38E55'33.0" N 074E53'23.0" W

Depth(ft): Low Depth- 20 High Depth- 30
Nearest Distance from shore (nm): 0.7

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

Note that the actual dredging/disposal method employrd at Cold Spring Inlet is side-casting overboard.

19. Point of Contact: GREG WACIK 215-656-6561

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAC [DS= 2362]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. PORT ROYAL,SOUTH CAROLINA
      PORT ROYAL ENTRANCE CHANNEL (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 201,100

7. Expected frequency of dumping (for reporting period):
   a. 1 PER 2 YR
   b. Actual start: 02/10/98
   c. Actual completion: 03/26/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 5
Site Name: PORT ROYAL HARBOR SOUTH
Geographical position: (NAD 1927)

32E05'46.0" N 080E35'30.0" W 32E05'42.0" N 080E36'27.0" W
32E04'22.0" N 080E36'16.0" W 32E04'27.0" N 080E35'18.0" W

Depth(ft): Low Depth- 43 High Depth- 43
Nearest Distance from shore (nm): 7.7

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: ROBIN COLLER-SOCHA 843-727-4264

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAC [DS= 2363]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. GEORGETOWN, SOUTH CAROLINA
      GEORGETOWN ENTRANCE CHANNEL (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 399,000

7. Expected frequency of dumping (for reporting period):
   a. 1 PER 2 YR
   b. Actual start: 01/13/98
   c. Actual completion: 03/10/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 70
Site Name: GEORGETOWN HARBOR
Geographical position: (NAD 1927)

33E11'18.0" N 079E07'20.0" W 33E11'18.0" N 079E05'23.0" W
33E10'38.0" N 079E05'24.0" W 33E10'38.0" N 079E07'21.0" W

Depth(ft): Low Depth- 20 High Depth- 36
Nearest Distance from shore (nm): 3.5

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: ROBIN COLLER-SOCHA 843-727-4264

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAW [DS= 2342]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. WILMINGTON HARBOR
      WILMINGTON HARBOR 38' PROJECT (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 150,200

7. Expected frequency of dumping (for reporting period):
   a. 4L/D,7D/WK
   b. Actual start: 08/20/98
   c. Actual completion: 09/12/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.165
Site Name: WILMINGTON HARBOR 1985 -
Geographical position: (NAD 1927)

33E49'30.0" N 078E03'06.0" W 33E48'18.0" N 078E01'39.0" W
33E47'19.0" N 078E02'48.0" W 33E48'30.0" N 078E04'16.0" W

Depth(ft): Low Depth- 43 High Depth- 0
Nearest Distance from shore (nm): 3.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments
Dredging was performed by the McFarland.

19. Point of Contact: PHIL PAYONK 910-251-4589

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAW [DS= 2343]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. MOREHEAD CITY 1
      MOREHEAD CITY HARBOR (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 0

7. Expected frequency of dumping (for reporting period):
   a. 5L/D,7D/WK
   b. Actual start: 01/01/98
   c. Actual completion: 02/16/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.164
Site Name: MOREHEAD CITY 1986 -
Geographical position: (NAD 1927)

34E38'30.0" N 076E45'00.0" W 34E38'30.0" N 076E41'42.0" W
34E38'09.0" N 076E41'00.0" W 34E36'00.0" N 076E41'00.0" W
34E36'00.0" N 076E45'00.0" W
Depth(ft): Low Depth- 39 High Depth- 43
Nearest Distance from shore (nm): 6.2

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments
Dredges Northerly Island, Padre Island, and Sugar performed this work.

19. Point of Contact: PHIL PAYONK 910-251-4589

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAW [DS= 2344]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. MOREHEAD CITY 2
      MOREHEAD CITY HARBOR (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 16,100

7. Expected frequency of dumping (for reporting period):
   a. 5L/D,7D/WK
   b. Actual start: 11/26/98
   c. Actual completion: 12/31/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.164
Site Name: MOREHEAD CITY 1986 -
Geographical position: (NAD 1927)

34E38'30.0" N 076E45'00.0" W 34E38'30.0" N 076E41'42.0" W
34E38'09.0" N 076E41'00.0" W 34E36'00.0" N 076E41'00.0" W
34E36'00.0" N 076E45'00.0" W
Depth(ft): Low Depth- 39 High Depth- 43
Nearest Distance from shore (nm): 6.2

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments
Dredging performed by Manhatten Island, Sugar Island, and Northerly Island.

19. Point of Contact: PHIL PAYONK 910-251-4589

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAS [DS= 2347]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. CHATHAM CO., GA
      SAVANNAH HARBOR NAVIGATION PROJECT (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 973,900

7. Expected frequency of dumping (for reporting period):
   a. 9.2 LDS/DY
   b. Actual start: 12/15/97
   c. Actual completion: 01/30/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 64
Site Name: SAVANNAH
Geographical position: (NAD 1927)

31E55'53.0" N 080E44'20.0" W 31E57'55.0" N 080E46'48.0" W
31E57'55.0" N 080E44'20.0" W 31E55'53.0" N 080E46'48.0" W

Depth(ft): Low Depth- 26 High Depth- 37
Nearest Distance from shore (nm): 4.5

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: STEVE CALVER 912-652-5797

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAS [DS= 2349]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. GLYNN CO., GA
      BRUNSWICK HARBOR NAVIGATION PROJECT (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 832,600

7. Expected frequency of dumping (for reporting period):
   a. 9/DAY
   b. Actual start: 01/30/98
   c. Actual completion: 02/21/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 71
Site Name: BRUNSWICK HARBOR
Geographical position: (NAD 1927)

31E02'35.0" N 081E17'40.0" W 31E02'35.0" N 081E16'30.0" W
31E00'30.0" N 081E16'30.0" W 31E00'30.0" N 081E17'42.0" W

Depth(ft): Low Depth- 30 High Depth- 37
Nearest Distance from shore (nm): 6.6

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: STEVE CALVER 912-652-5797

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAJ [DS= 2383]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. PORT CANAVERAL, FLORIDA
      CANAVERAL HARBOR (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 749,300

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 03/01/98
   c. Actual completion: 10/15/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 6
Site Name: CANAVERAL HARBOR
Geographical position: (NAD 1927)

28E19'53.0" N 080E31'08.0" W 28E18'50.0" N 080E29'40.0" W
28E17'35.0" N 080E30'52.0" W 28E18'38.0" N 080E32'20.0" W

Depth(ft): Low Depth- 40 High Depth- 50
Nearest Distance from shore (nm): 4.8

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: GLENN SCHUSTER 904-232-3691

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAJ [DS= 2384]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b.
      KINGS BAY (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 934,300

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 01/05/98
   c. Actual completion: 03/15/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 62
Site Name: FERNANDINA BEACH
Geographical position: (NAD 1927)

30E42'00.0" N 081E19'05.0" W 30E41'00.0" N 081E17'55.0" W
30E42'00.0" N 081E17'55.0" W 30E41'00.0" N 081E19'05.0" W

Depth(ft): Low Depth- 45 High Depth- 63
Nearest Distance from shore (nm): 6.2

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: GLENN SCHUSTER 904-232-3691

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAJ [DS= 2385]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. SAN JUAN, PR
      SAN JUAN HARBOR (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: MECHANICAL DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 412,100

7. Expected frequency of dumping (for reporting period):
   a. CONTINUOUS
   b. Actual start: / /
   c. Actual completion: / /

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 84
Site Name: SAN JUAN HARBOR
Geographical position: (NAD 1927)

18E30'10.0" N 066E09'31.0" W 18E30'10.0" N 066E08'29.0" W
18E31'10.0" N 066E08'29.0" W 18E31'10.0" N 066E09'31.0" W

Depth(ft): Low Depth- 656 High Depth- 1312
Nearest Distance from shore (nm): 0.0

Reference Site Location:
NO REFERENCE SITE HAS BEEN ENTERED

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: GLENN SCHUSTER 904-232-3442

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAM [DS= 2391]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. MOBILE BAY
      B+B DREDGING "COLUMBUS" (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 1,747,900

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 11/07/97
   c. Actual completion: 08/16/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.172
Site Name: MOBILE NORTH (1987---)
Geographical position: (NAD 1927)

30E11'18.0" N 088E21'18.0" W 30E08'30.0" N 088E19'42.0" W
30E13'00.0" N 088E08'48.0" W 30E08'30.0" N 088E05'48.0" W
30E09'36.0" N 088E04'48.0" W
Depth(ft): Low Depth- 20 High Depth- 58
Nearest Distance from shore (nm): 2.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: LARRY PARSON 334-690-3139

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAM [DS= 2392]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. MOBILE BAY
      GREAT LAKES DREDGING (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 775,100

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 06/19/98
   c. Actual completion: 11/25/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.172
Site Name: MOBILE NORTH (1987---)
Geographical position: (NAD 1927)

30E11'18.0" N 088E21'18.0" W 30E08'30.0" N 088E19'42.0" W
30E13'00.0" N 088E08'48.0" W 30E08'30.0" N 088E05'48.0" W
30E09'36.0" N 088E04'48.0" W
Depth(ft): Low Depth- 20 High Depth- 58
Nearest Distance from shore (nm): 2.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: LARRY PARSON 334-690-3139

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAM [DS= 2393]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. MOBILE BAY
      DREDGE "WHEELER" (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 639,300

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 10/09/98
   c. Actual completion: 10/29/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.172
Site Name: MOBILE NORTH (1987---)
Geographical position: (NAD 1927)

30E11'18.0" N 088E21'18.0" W 30E08'30.0" N 088E19'42.0" W
30E13'00.0" N 088E08'48.0" W 30E08'30.0" N 088E05'48.0" W
30E09'36.0" N 088E04'48.0" W
Depth(ft): Low Depth- 20 High Depth- 58
Nearest Distance from shore (nm): 2.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: LARRY PARSON 334-690-3139

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAM [DS= 2394]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. MOBILE BAY
      BEAN HORIZON "EAGLE" (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 2,323,600

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 03/27/98
   c. Actual completion: 10/09/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.172
Site Name: MOBILE NORTH (1987---)
Geographical position: (NAD 1927)

30E11'18.0" N 088E21'18.0" W 30E08'30.0" N 088E19'42.0" W
30E13'00.0" N 088E08'48.0" W 30E08'30.0" N 088E05'48.0" W
30E09'36.0" N 088E04'48.0" W
Depth(ft): Low Depth- 20 High Depth- 58
Nearest Distance from shore (nm): 2.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: LARRY PARSON 334-690-3139

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAM [DS= 2395]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. MOBILE BAY
      B+B DREDGING(2) "COLUMBUS" (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 191,400

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 10/02/98
   c. Actual completion: 12/31/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.172
Site Name: MOBILE NORTH (1987---)
Geographical position: (NAD 1927)

30E11'18.0" N 088E21'18.0" W 30E08'30.0" N 088E19'42.0" W
30E13'00.0" N 088E08'48.0" W 30E08'30.0" N 088E05'48.0" W
30E09'36.0" N 088E04'48.0" W
Depth(ft): Low Depth- 20 High Depth- 58
Nearest Distance from shore (nm): 2.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: LARRY PARSON 334-690-3139

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAM [DS= 2396]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. PASCAGOULA
      WEEKS MARINE "R.N. WEEKS" (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 837,200

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 10/29/98
   c. Actual completion: 11/27/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.173
Site Name: PASCAGOULA (1992 ---)
Geographical position: (NAD 1927)

30E12'06.0" N 088E44'30.0" W 30E11'42.0" N 088E33'24.0" W
30E08'30.0" N 088E37'00.0" W 30E08'18.0" N 088E41'54.0" W

Depth(ft): Low Depth- 39 High Depth- 53
Nearest Distance from shore (nm): 2.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: LARRY PARSON 334-690-3139

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAM [DS= 2397]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. PASCAGOULA
      JACKSON COUNTY PORT AUTHORITY (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 1,192,000

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 01/29/98
   c. Actual completion: 07/24/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.173
Site Name: PASCAGOULA (1992 ---)
Geographical position: (NAD 1927)

30E12'06.0" N 088E44'30.0" W 30E11'42.0" N 088E33'24.0" W
30E08'30.0" N 088E37'00.0" W 30E08'18.0" N 088E41'54.0" W

Depth(ft): Low Depth- 39 High Depth- 53
Nearest Distance from shore (nm): 2.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: LARRY PARSON 334-690-3139

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: MVN [DS= 2336]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. PLAQUEMINES PARISH, LOUISIANA
      MISSISSIPPI RIVER, BATON ROUGE TO THE GULF (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 4,515,000

7. Expected frequency of dumping (for reporting period):
   a. CONTINUOUS
   b. Actual start: 01/25/98
   c. Actual completion: 08/16/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 92
Site Name: MISSISSIPPI RIVER SOUTHWEST PASS
Geographical position: (NAD 1927)

28E54'12.0" N 089E27'15.0" W 28E54'12.0" N 089E26'00.0" W
28E51'00.0" N 089E27'15.0" W 28E51'00.0" N 089E26'00.0" W

Depth(ft): Low Depth- 9 High Depth- 106
Nearest Distance from shore (nm): 17.5

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: LINDA MATHIES 504-862-2318

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: MVN [DS= 2337]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. CAMERON PARISH, LOUISIANA
      CALCASIEU RIVER BAR CHANNEL (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 3,329,100

7. Expected frequency of dumping (for reporting period):
   a. NON-CONTIN
   b. Actual start: 01/15/98
   c. Actual completion: 07/08/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:

Site No. 82
Site Name: CALCASIEU RIVER, BAR CHANNEL 2
Geographical position: (NAD 1927)

29E44'31.0" N 093E20'43.0" W 29E39'45.0" N 093E19'56.0" W
29E39'34.0" N 093E20'46.0" W 29E44'25.0" N 093E21'33.0" W

Depth(ft): Low Depth- 7 High Depth- 36
Nearest Distance from shore (nm): 0.0

Site No. 83
Site Name: CALCASIEU RIVER, BAR CHANNEL 3
Geographical position: (NAD 1927)

29E37'50.0" N 093E19'37.0" W 29E37'25.0" N 093E19'33.0" W
29E33'55.0" N 093E16'23.0" W 29E33'49.0" N 093E16'25.0" W
29E30'59.0" N 093E13'51.0" W

Depth(ft): Low Depth- 36 High Depth- 46
Nearest Distance from shore (nm): 12.8

Reference Site Location:

Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:

No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):

No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):

No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):

No Bioassay testing was done

18. General Comments

19. Point of Contact: LINDA MATHIES 504-862-2318

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: MVN [DS= 2338]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. ST. MARY PARISH, LOUISIANA
      ATCHAFALAYA RIVER AND BAYOUS CBB, BAR CHANNEL (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: MECHANICAL DREDGE
   b. Mode of transportation: PIPELINE DISCHARGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 8,366,300

7. Expected frequency of dumping (for reporting period):
   a. CONTINUOUS
   b. Actual start: 08/16/98
   c. Actual completion: 11/22/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: PIPE ABOVE WATER SURFACE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.117
Site Name: ATCHAFALAYA RIVER, BAR CHANNEL
Geographical position: (NAD 1927)

29E21'24.92 N 091E23'11.0" W 29E21'08.86 N 091E22'47.47 W
29E07'59.43 N 091E34'27.51 W 29E08'15.46 N 091E34'51.02 W

Depth(ft): Low Depth- 5 High Depth- 23
Nearest Distance from shore (nm): 7.0

Reference Site Location:
Site No: 150
Site Name: ATCHAFALAYA RIVER BAR CHANNEL

Geographical position (NAD 1927)

29E07'00.0" N 091E31'30.0" W 29E08'00.0"N 091E29'00.0" W
29E09Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: LINDA MATHIES 504-862-2318

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority - District: MVN [DS = 2339]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. ST. BERNARD/PLAQUEMINES PARISHES, LOUISIANA
      MISSISSIPPI RIVER-GULF OUTLET

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 2,217,340

7. Expected frequency of dumping (for reporting period):
   a. CONTINUOUS
   b. Actual start:
   c. Actual completion:

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 110
Site Name: . RIVER - GULF OUTLET, BAR CHANNEL
Geographical position: (NAD UNKNOWN)

NAD unknown
29E32'35.0" N 089E12'38.0" W 29E29'21.0" N 089E08'00.0" W
29E24'51.0" N 088E59'23.0" 29E24'28.0" N 089E59'39.0" W
29E28'59.0" N 089E08'19.0" W

Depth (ft): Low Depth- 20 High Depth- 40
Distance From Shore (nm) =

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No site management was performed
No site monitoring was performed

15. Bioassay Elutriate Information:
No Bioassay testing was done

16. Bioassay Solid Phase Information:
No Bioassay testing was done

17. Bioassay Bioaccumulation Information:
No Bioassay testing was done

18. General Comments:

19. Point of Contact: LINDA MATHIES 504-862-2318

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SWG [DS= 2333]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. SABINE-NECHES WATERWAY, TEXAS
      SABINE PASS OUTER BAR AND JETTY CHANNEL (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 3,362,700

7. Expected frequency of dumping (for reporting period):
   a. 5/D;7D/WK
   b. Actual start: 08/13/98
   c. Actual completion: 10/07/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	7	0.1000000	7	1.860000	8.400000	4.470000
MERCURY	7	0.0200000	6	0.010000	0.170000	0.100000
CADMIUM	7	0.1000000	7	0.110000	0.310000	0.170000
LEAD	7	0.1000000	7	2.000000	3.220000	2.580000
CHROMIUM	7	0.1000000	7	14.900000	42.900000	23.710000
COPPER	7	0.1000000	7	10.000000	17.300000	12.670000
NICKEL	7	0.1000000	7	15.500000	28.400000	19.490000
ZINC	7	0.1000000	7	49.100000	131.000000	80.890000
SELENIUM	7	0.2000000	0	0.000000	0.000000	0.000000
SILVER	7	0.1000000	0	0.000000	0.000000	0.000000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	7	0.0100000	0	0.000000	0.000000	0.000000
CHLORDANE	7	0.0100000	0	0.000000	0.000000	0.000000
DIELDRIN	7	0.0100000	0	0.000000	0.000000	0.000000
ALPHA-ENDOSULFAN	7	0.0100000	0	0.000000	0.000000	0.000000
BETA-ENDOSULFAN	7	0.0100000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	7	0.0100000	0	0.000000	0.000000	0.000000
DDD	7	0.0100000	0	0.000000	0.000000	0.000000
DDE	7	0.0100000	0	0.000000	0.000000	0.000000
DDT	7	0.0100000	0	0.000000	0.000000	0.000000
ENDRIN	7	0.0050000	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	7	0.0050000	0	0.000000	0.000000	0.000000
HEPTACHLOR	7	0.0100000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	7	0.0100000	0	0.000000	0.000000	0.000000
ALPHA-LINDANE	7	0.0100000	0	0.000000	0.000000	0.000000
BETA-LINDANE	7	0.0100000	0	0.000000	0.000000	0.000000
DELTA-LINDANE	7	0.0100000	0	0.000000	0.000000	0.000000
GAMMA-LINDANE	7	0.0100000	0	0.000000	0.000000	0.000000
TOXAPHENE	7	0.0500000	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PCB	7	0.0010000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PAH	7	0.5000000	0	0.000000	0.000000	0.000000
NAPHTHALENE	7	0.0200000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	7	0.0200000	0	0.000000	0.000000	0.000000
BENZO(B)FLUORANTHENE	7	0.0200000	0	0.000000	0.000000	0.000000
ACENAPHTHYLENE	7	0.0200000	0	0.000000	0.000000	0.000000
CHRYSENE	7	0.0200000	0	0.000000	0.000000	0.000000
BENZO(K)FLUORANTHENE	7	0.0200000	0	0.000000	0.000000	0.000000
ACENAPHTHENE	7	0.0200000	0	0.000000	0.000000	0.000000
FLUORANTHENE	7	0.0200000	0	0.000000	0.000000	0.000000
BENZO(GHI)PERYLENE	7	0.0200000	0	0.000000	0.000000	0.000000
FLUORENE	7	0.0200000	0	0.000000	0.000000	0.000000
PYRENE	7	0.0200000	0	0.000000	0.000000	0.000000
ANTHRACENE	7	0.0200000	0	0.000000	0.000000	0.000000
BENZO(A)PYRENE	7	0.0200000	0	0.000000	0.000000	0.000000
INDENO(1,2,3-CD)PYRENE	7	0.0200000	0	0.000000	0.000000	0.000000
PHENANTHRENE	7	0.0200000	0	0.000000	0.000000	0.000000
DIBENZE(A,H)ANTHRACENE	7	0.0200000	0	0.000000	0.000000	0.000000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AMMONIA NITROGEN	7	0.3000000	7	1.720000	49.700000	18.250000
% TOTAL VOLATILE SOLIDS	7	0.1000000	7	2.430000	3.440000	2.810000
TOTAL ORGANIC CARBON	7	0.0000500	7	0.454000	2.340000	1.292571
TOTAL SULFIDES	7	10.0000000	4	5.000000	100.000000	32.560000
% SAND	7	0.1000000	7	1.000000	27.700000	11.900000
% SILT	7	0.1000000	7	13.000000	64.000000	41.200000
% CLAY	7	0.1000000	7	17.000000	86.000000	46.900000

ACID VOLATILES

TOTAL PHENOLS	7	1.0000000	0	0.000000	0.000000	0.000000

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

Elutriate Test Chemical Data

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	7	0.0010000	2	0.000500	0.003210	0.001033
MERCURY	7	0.0002000	0	0.000000	0.000000	0.000000
CADMIUM	7	0.0001000	7	0.000120	0.001150	0.000611
LEAD	7	0.0010000	0	0.000000	0.000000	0.000000
CHROMIUM	7	0.0010000	2	0.000500	0.001310	0.000697

COPPER	7	0.0010000	1	0.000500	0.001030	0.000576
NICKEL	7	0.0010000	0	0.000000	0.000000	0.000000
ZINC	7	0.0010000	6	0.000500	0.002300	0.001471
SELENIUM	7	0.0010000	0	0.000000	0.000000	0.000000
SILVER	7	0.0010000	0	0.000000	0.000000	0.000000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	7	0.0000400	0	0.000000	0.000000	0.000000
CHLORDANE	7	0.0001400	0	0.000000	0.000000	0.000000
DIELDRIN	7	0.0000200	0	0.000000	0.000000	0.000000
ALPHA-ENDOSULFAN	7	0.0001000	0	0.000000	0.000000	0.000000
BETA-ENDOSULFAN	7	0.0001000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	7	0.0001000	0	0.000000	0.000000	0.000000
DDD	7	0.0001000	0	0.000000	0.000000	0.000000
DDE	7	0.0001000	0	0.000000	0.000000	0.000000
DDT	7	0.0001000	0	0.000000	0.000000	0.000000
ENDRIN	7	0.0000600	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	7	0.0000600	0	0.000000	0.000000	0.000000
HEPTACHLOR	7	0.0000300	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	7	0.0000300	0	0.000000	0.000000	0.000000
ALPHA-LINDANE	7	0.0000200	0	0.000000	0.000000	0.000000
BETA-LINDANE	7	0.0000200	0	0.000000	0.000000	0.000000
DELTA-LINDANE	7	0.0000200	0	0.000000	0.000000	0.000000
GAMMA-LINDANE	7	0.0000200	0	0.000000	0.000000	0.000000
TOXAPHENE	7	0.0005000	7	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PCB	7	0.0000100	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PAH	7	0.0050000	0	0.000000	0.000000	0.000000
NAPHTHALENE	7	0.0020000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	7	0.0010000	0	0.000000	0.000000	0.000000
BENZO(B)FLUORANTHENE	7	0.0010000	0	0.000000	0.000000	0.000000
ACENAPHTHYLENE	7	0.0025000	0	0.000000	0.000000	0.000000
CHRYSENE	7	0.0005000	0	0.000000	0.000000	0.000000
BENZO(K)FLUORANTHENE	7	0.0001000	0	0.000000	0.000000	0.000000
ACENAPHTHENE	7	0.0020000	0	0.000000	0.000000	0.000000
FLUORANTHENE	7	0.0005000	0	0.000000	0.000000	0.000000
BENZO(GHI)PERYLENE	7	0.0001000	0	0.000000	0.000000	0.000000
FLUORENE	7	0.0005000	0	0.000000	0.000000	0.000000
PYRENE	7	0.0005000	0	0.000000	0.000000	0.000000
ANTHRACENE	7	0.0005000	0	0.000000	0.000000	0.000000
BENZO(A)PYRENE	7	0.0005000	0	0.000000	0.000000	0.000000
INDENO(1,2,3-CD)PYRENE	7	0.0005000	0	0.000000	0.000000	0.000000

PHENANTHRENE	7	0.0010000	0	0.000000	0.000000	0.000000
DIBENZE(A,H)ANTHRACENE	7	0.0005000	0	0.000000	0.000000	0.000000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AMMONIA NITROGEN	7	0.0300000	6	0.015000	11.200000	3.678000
TOTAL ORGANIC CARBON	7	0.0001000	7	0.000375	0.000705	0.000479

ACID VOLATILES

TOTAL PHENOLS	7	0.0500000	0	0.000000	0.000000	0.000000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 74
    Site Name: SABINE-NECHES WATERWAY DA NO. 3
    Geographical position: (NAD 1927)

    29E34'24.0" N 093E48'13.0" W 29E32'47.0" N 093E46'16.0" W
    29E32'06.0" N 093E46'29.0" W 29E31'42.0" N 093E48'16.0" W

    Depth(ft): Low Depth- 33 High Depth- 41
    Nearest Distance from shore (nm): 6.8

General Comments
29 32' 59"N 93 49' 48"W
Site No. 75
Site Name: SABINE-NECHES WATERWAY DA NO. 4
Geographical position: (NAD 1927)

29E38'09.0" N 093E49'23.0" W 29E35'53.0" N 093E48'18.0" W
29E35'06.0" N 093E50'24.0" W 29E36'37.0" N 093E51'09.0" W

Depth(ft): Low Depth- 16 High Depth- 30
Nearest Distance from shore (nm): 2.7

General Comments
29 37' 00" N 93 50' 06"W
29 37' 46" N 93 50' 26"W

Reference Site Location:
Site No: 177
Site Name: SABINE-NECHES WATERWAY REFERENCE AREA 2

Geographical position (NAD 1927)

29E35'52.0" N 093E41'45.0" W 29E35'52.0"N 093E41'30.0" W
29E35'00.0" N 093E41'30.0" W 29E35'00.0"N 093E41'45.0" W
Depth (ft): Low Depth- 32 High Depth- 37
Nearest Distance from shore (nm): 7.4

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: ROB HAUCH 409-766-3913

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SWG [DS= 2334]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. FREEPORT HARBOR, TEXAS
      ENTRANCE AND JETTY CHANNEL (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 1,784,900

7. Expected frequency of dumping (for reporting period):
   a. 5/D;7D/WK
   b. Actual start: 10/11/98
   c. Actual completion: 11/26/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	5	0.1000000	5	4.330000	6.340000	5.496000
MERCURY	5	0.0200000	5	0.050000	0.210000	0.092000
CADMIUM	5	0.1000000	1	0.050000	0.100000	0.060000
LEAD	5	0.1000000	5	3.510000	5.290000	4.258000
CHROMIUM	5	0.1000000	5	16.900000	22.700000	18.540000
COPPER	5	0.1000000	5	6.530000	15.200000	12.086000
NICKEL	5	0.1000000	5	13.100000	17.100000	14.600000
ZINC	5	0.1000000	5	42.800000	61.900000	50.140000

SELENIUM	5	0.2000000	0	0.000000	0.000000	0.000000
SILVER	5	0.1000000	1	0.050000	0.190000	0.078000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	5	0.0100000	0	0.000000	0.000000	0.000000
CHLORDANE	5	0.0100000	0	0.000000	0.000000	0.000000
DIELDRIN	5	0.0100000	0	0.000000	0.000000	0.000000
ALPHA-ENDOSULFAN	5	0.0100000	0	0.000000	0.000000	0.000000
BETA-ENDOSULFAN	5	0.0100000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	5	0.0100000	0	0.000000	0.000000	0.000000
DDD	5	0.0100000	0	0.000000	0.000000	0.000000
DDE	5	0.0100000	0	0.000000	0.000000	0.000000
DDT	5	0.0100000	0	0.000000	0.000000	0.000000
ENDRIN	5	0.0050000	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	5	0.0050000	0	0.000000	0.000000	0.000000
HEPTACHLOR	5	0.0100000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	5	0.0100000	0	0.000000	0.000000	0.000000
ALPHA-LINDANE	5	0.0100000	0	0.000000	0.000000	0.000000
BETA-LINDANE	5	0.0100000	0	0.000000	0.000000	0.000000
DELTA-LINDANE	5	0.0100000	0	0.000000	0.000000	0.000000
GAMMA-LINDANE	5	0.0100000	0	0.000000	0.000000	0.000000
TOXAPHENE	5	0.0500000	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PCB	5	0.0010000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PAH	5	0.5000000	0	0.000000	0.000000	0.000000
NAPHTHALENE	5	0.0200000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	5	0.0200000	0	0.000000	0.000000	0.000000
BENZO(B)FLUORANTHENE	5	0.0200000	0	0.000000	0.000000	0.000000
ACENAPHTHYLENE	5	0.0200000	0	0.000000	0.000000	0.000000
CHRYSENE	5	0.0200000	0	0.000000	0.000000	0.000000
BENZO(K)FLUORANTHENE	5	0.0200000	0	0.000000	0.000000	0.000000
ACENAPHTHENE	5	0.0200000	0	0.000000	0.000000	0.000000
FLUORANTHENE	5	0.0200000	0	0.000000	0.000000	0.000000
BENZO(GHI)PERYLENE	5	0.0200000	0	0.000000	0.000000	0.000000
FLUORENE	5	0.0200000	0	0.000000	0.000000	0.000000
PYRENE	5	0.0200000	0	0.000000	0.000000	0.000000
ANTHRACENE	5	0.0200000	0	0.000000	0.000000	0.000000
BENZO(A)PYRENE	5	0.0200000	0	0.000000	0.000000	0.000000
INDENO(1,2,3-CD)PYRENE	5	0.0200000	0	0.000000	0.000000	0.000000
PHENANTHRENE	5	0.0200000	0	0.000000	0.000000	0.000000
DIBENZE(A,H)ANTHRACENE	5	0.0200000	0	0.000000	0.000000	0.000000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AMMONIA NITROGEN	5	0.1000000	5	11.900000	50.400000	30.560000
% TOTAL VOLATILE SOLIDS	5	0.1000000	5	1.870000	2.620000	20.960000
TOTAL ORGANIC CARBON	5	0.0001000	5	0.544000	1.430000	1.128800
TOTAL SULFIDES	5	0.1000000	5	7.910000	96.700000	28.292000
% SAND	5	0.1000000	5	3.300000	54.900000	14.180000
% SILT	5	0.1000000	5	7.400000	43.600000	27.100000
% CLAY	5	0.1000000	5	37.700000	77.700000	58.720000

ACID VOLATILES

TOTAL PHENOLS	5	1.0000000	0	0.000000	0.000000	0.000000

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

Elutriate Test Chemical Data

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	5	0.0010000	0	0.000000	0.000000	0.000000
MERCURY	5	0.0002000	0	0.000000	0.000000	0.000000
CADMIUM	5	0.0001000	0	0.000000	0.000000	0.000000
LEAD	5	0.0010000	0	0.000000	0.000000	0.000000
CHROMIUM	5	0.0010000	0	0.000000	0.000000	0.000000
COPPER	5	0.0010000	0	0.000000	0.000000	0.000000
NICKEL	5	0.0010000	0	0.000000	0.000000	0.000000
ZINC	5	0.0010000	0	0.000000	0.000000	0.000000
SELENIUM	5	0.0050000	0	0.000000	0.000000	0.000000
SILVER	5	0.0010000	0	0.000000	0.000000	0.000000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	5	0.0000400	0	0.000000	0.000000	0.000000
CHLORDANE	5	0.0001400	0	0.000000	0.000000	0.000000
DIELDRIN	5	0.0001000	0	0.000000	0.000000	0.000000
ALPHA-ENDOSULFAN	5	0.0001000	0	0.000000	0.000000	0.000000
BETA-ENDOSULFAN	5	0.0001000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	5	0.0001000	0	0.000000	0.000000	0.000000
DDD	5	0.0001000	0	0.000000	0.000000	0.000000
DDE	5	0.0001000	0	0.000000	0.000000	0.000000
DDT	5	0.0001000	0	0.000000	0.000000	0.000000
ENDRIN	5	0.0000600	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	5	0.0000600	0	0.000000	0.000000	0.000000
HEPTACHLOR	5	0.0000300	0	0.000000	0.000000	0.000000

HEPTACHLOR EPOXIDE	5	0.0000300	0	0.000000	0.000000	0.000000
ALPHA-LINDANE	5	0.0000200	0	0.000000	0.000000	0.000000
BETA-LINDANE	5	0.0000200	0	0.000000	0.000000	0.000000
DELTA-LINDANE	5	0.0000200	0	0.000000	0.000000	0.000000
GAMMA-LINDANE	5	0.0000200	0	0.000000	0.000000	0.000000
TOXAPHENE	5	0.0005000	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PCB	5	0.0000100	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PAH	5	0.0050000	0	0.000000	0.000000	0.000000
NAPHTHALENE	5	0.0020000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	5	0.0010000	0	0.000000	0.000000	0.000000
BENZO(B)FLUORANTHENE	5	0.0001000	0	0.000000	0.000000	0.000000
ACENAPHTHYLENE	5	0.0025000	0	0.000000	0.000000	0.000000
CHRYSENE	5	0.0005000	0	0.000000	0.000000	0.000000
BENZO(K)FLUORANTHENE	5	0.0001000	0	0.000000	0.000000	0.000000
ACENAPHTHENE	5	0.0020000	0	0.000000	0.000000	0.000000
FLUORANTHENE	5	0.0005000	0	0.000000	0.000000	0.000000
BENZO(GHI)PERYLENE	5	0.0001000	0	0.000000	0.000000	0.000000
FLUORENE	5	0.0005000	0	0.000000	0.000000	0.000000
PYRENE	5	0.0005000	0	0.000000	0.000000	0.000000
ANTHRACENE	5	0.0005000	0	0.000000	0.000000	0.000000
BENZO(A)PYRENE	5	0.0005000	0	0.000000	0.000000	0.000000
INDENO(1,2,3-CD)PYRENE	5	0.0005000	0	0.000000	0.000000	0.000000
PHENANTHRENE	5	0.0010000	0	0.000000	0.000000	0.000000
DIBENZE(A,H)ANTHRACENE	5	0.0005000	0	0.000000	0.000000	0.000000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AMMONIA NITROGEN	5	0.0300000	5	0.220000	5.870000	2.410000
TOTAL ORGANIC CARBON	5	0.0001000	0	0.000000	0.000000	0.000000

ACID VOLATILES

TOTAL PHENOLS	5	0.0500000	0	0.000000	0.000000	0.000000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.162
Site Name: FREEPORT HARBOR MAINTENANCE
Geographical position: (NAD 1927)

28E54'00.0" N 095E15'49.0" W 28E53'28.0" N 095E15'16.0" W
28E52'00.0" N 095E16'59.0" W 28E52'32.0" N 095E17'32.0" W

Depth(ft): Low Depth- 31 High Depth- 38
Nearest Distance from shore (nm): 3.0

Reference Site Location:
Site No: 179
Site Name: FREEPORT HARBOR - REFERENCE AREA

Geographical position (NAD 1927)

28E54'28.0" N 095E13'40.0" W 28E54'35.0"N 095E13'28.0" W
28E55'07.0" N 095E14'01.0" W 28E54'60.0"N 095E14'13.0" W
Depth (ft): Low Depth- 39 High Depth- 44
Nearest Distance from shore (nm): 3.2

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: ROB HAUCH 409-766-3913

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SPL [DS= 2364]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. PORT OF LOS ANGELES
      CORPS PORT OF LOS ANGELES O&M DREDGING (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 118,400

7. Expected frequency of dumping (for reporting period):
   a. 8-9X/DAY
   b. Actual start: 03/20/98
   c. Actual completion: 03/30/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
MERCURY	8	0.0200000	8	0.150000	0.630000	0.400000
CADMIUM	8	0.0200000	8	0.300000	1.540000	0.790000
LEAD	8	0.0200000	8	32.600000	118.000000	64.800000
CHROMIUM	8	0.2000000	8	24.300000	69.500000	44.400000
COPPER	8	0.0500000	8	47.300000	116.000000	62.600000
NICKEL	8	0.2000000	8	17.500000	39.000000	24.900000
ZINC	8	0.5000000	8	87.500000	213.000000	149.000000
SELENIUM	8	0.5000000	7	0.500000	2.100000	0.800000
SILVER	8	0.0200000	8	0.130000	0.570000	0.280000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	8	0.0000000	0	0.000000	0.000000	0.000000
CHLORDANE	8	0.0100000	0	0.000000	0.000000	0.000000
DIELDRIN	8	0.0020000	1	0.010000	0.010000	0.010000
ALPHA-ENDOSULFAN	8	0.0020000	0	0.000000	0.000000	0.000000
BETA-ENDOSULFAN	8	0.0020000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	8	0.0020000	0	0.000000	0.000000	0.000000
DDD	8	0.0050000	1	0.020000	0.020000	0.020000
DDE	8	0.0010000	8	0.001500	0.080000	0.034000
DDT	8	0.0030000	1	0.010000	0.010000	0.010000
ENDRIN	8	0.0020000	1	0.020000	0.020000	0.020000
ENDRIN ALDEHYDE	8	0.0020000	0	0.000000	0.000000	0.000000
HEPTACHLOR	8	0.0020000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	8	0.0020000	0	0.000000	0.000000	0.000000
ALPHA-LINDANE	8	0.0020000	0	0.000000	0.000000	0.000000
BETA-LINDANE	8	0.0020000	0	0.000000	0.000000	0.000000
DELTA-LINDANE	8	0.0020000	0	0.000000	0.000000	0.000000
GAMMA-LINDANE	8	0.0020000	0	0.000000	0.000000	0.000000
METHOXYCHLOR	8	0.0040000	0	0.000000	0.000000	0.000000
TOXAPHENE	8	0.0700000	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AROCHLOR 1016	8	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1221	8	0.0100000	0	0.000000	0.000000	0.000000

AROCHLOR 1232	8	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1242	8	0.0300000	0	0.000000	0.000000	0.000000
AROCHLOR 1254	8	0.0000000	4	0.060000	0.100000	0.082500
AROCHLOR 1260	8	0.0400000	8	0.020000	0.120000	0.050000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PAH	8	0.0200000	8	1.193000	5.619000	2.666000
NAPHTHALENE	8	0.0200000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	8	0.0200000	8	0.071000	0.380000	0.156000
BENZO(B)FLUORANTHENE	8	0.0200000	8	0.130000	0.730000	0.390000
ACENAPHTHYLENE	8	0.0200000	5	0.020000	0.028000	0.021000
CHRYSENE	8	0.0200000	8	0.100000	0.530000	0.226000
BENZO(K)FLUORANTHENE	8	0.0200000	8	0.095000	0.480000	0.266000
ACENAPHTHENE	8	0.0200000	0	0.000000	0.000000	0.000000
FLUORANTHENE	8	0.0200000	8	0.074000	0.840000	0.314000
BENZO(GHI)PERYLENE	8	0.0200000	8	0.050000	0.140000	0.100000
FLUORENE	8	0.0200000	3	0.020000	0.039000	0.029000
PYRENE	8	0.0200000	8	0.140000	1.200000	0.513000
ANTHRACENE	8	0.0200000	8	0.020000	0.350000	0.084600
BENZO(A)PYRENE	8	0.0200000	8	0.100000	0.530000	0.295000
INDENO(1,2,3-CD)PYRENE	8	0.0200000	8	0.100000	0.310000	0.186000
PHENANTHRENE	8	0.0200000	8	0.030000	0.150000	0.070500
DIBENZE(A,H)ANTHRACENE	8	0.0200000	7	0.023000	0.068000	0.045000

DIOXINS (ng/KG or pptr)

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
2,3,7,8 TCDD	3	0.0000005	0	0.000000	0.000000	0.000000

TINS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TRIBUTYLTIN	8	1.0000000	8	22.000000	290.000000	103.000000
DIBUTYLTIN	8	1.0000000	8	2.000000	54.000000	26.400000
MONOBUTYLTIN	8	1.0000000	8	2.000000	24.000000	11.600000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL ORGANIC CARBON	8	0.0010000	8	0.528000	3.032000	1.390000
TOTAL SULFIDES	8	1.0000000	8	210.000000	2500.000000	933.800000
% SAND	8	0.1000000	8	18.800000	70.300000	54.100000
% SILT	8	0.1000000	8	16.800000	45.400000	27.800000
% CLAY	8	0.1000000	8	5.800000	36.200000	16.300000

BASE NEUTRALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
BUTYL BENZYL PHTHALATE	8	0.0000000	0	0.000000	0.000000	0.000000
DIETHYL PHTHALATE	8	0.0200000	0	0.000000	0.000000	0.000000
DIMETHYL PHTHALATE	8	0.0200000	0	0.000000	0.000000	0.000000
DI-N-BUTYL PHTHALATE	8	0.0200000	2	0.028000	0.036000	0.032500
DI-N-OCTYL PHTHALATE	8	0.0200000	2	0.160000	0.240000	0.063000
ACID VOLATILES						
BIS(2-ETHYLHEXYL)PHTHAL	8	0.0200000	8	0.120000	5.800000	1.751000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 36
    Site Name: LOS ANGELES
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 600 feet.

Center of Site is:
33E33'12.0" N 118E10'48.0" W
Depth(ft): Low Depth- 640 High Depth- 0
Nearest Distance from shore (nm): 5.2

Reference Site Location:
Site No: 195
Site Name: LA-2 REFERENCE

Geographical position (NAD 1927)

33E 3Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

General Comments
added by David Zoutendyk 10/22/1997

14. Disposal Site Management:
    Seasonal restrictions were enforced
    No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
    Mendidia beryllina
    Mytilus edulis
    Holmesimysis costata

16. Bioassay Solid Phase Information (Organisms Tested):
    Grandidierella japonica
    Holmesimysis costata
    Nephtys caecoides

17. Bioassay Bioaccumulation Information (Organisms Tested):
    Macoma nasuta

18. General Comments

19. Point of Contact: DAVID ZOUTENDYK 858-674-5384

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SPL [DS= 2368]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. MARINA DEL REY, CALIFORNIA
      CORPS MARINA DEL REY EMERGENCY MAINTENANCE DREDGING (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 39,800

7. Expected frequency of dumping (for reporting period):
   a. 2X/DAY
   b. Actual start: 03/13/98
   c. Actual completion: 04/12/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
LEAD	12	0.0100000	12	0.052000	0.470000	0.195000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	6	0.0003000	0	0.000000	0.000000	0.000000
ALPHA-CHLORDANE	6	0.0003000	0	0.000000	0.000000	0.000000
DIELDRIN	6	0.0006000	0	0.000000	0.000000	0.000000
ALPHA-ENDOSULFAN	6	0.0030000	3	0.007700	0.013000	0.007400
BETA-ENDOSULFAN	6	0.0030000	2	0.005000	0.026000	0.005600
ENDOSULFAN SULFATE	6	0.0030000	3	0.001000	0.002000	0.001200
DDD	6	0.0006000	1	0.005000	0.005000	0.000000
DDE	6	0.0006000	1	0.053000	0.053000	0.000000
DDT	6	0.0006000	1	0.008700	0.008700	0.000000
ENDRIN	6	0.0006000	4	0.000900	0.005000	0.001700
ENDRIN ALDEHYDE	6	0.0006000	0	0.000000	0.000000	0.000000
HEPTACHLOR	6	0.0003000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	6	0.0003000	1	0.003000	0.003000	0.000000
METHOXYCHLOR	6	0.0030000	1	0.007100	0.007100	0.000000
TOXAPHENE	6	0.0300000	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PCB	6	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1016	6	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1221	6	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1232	6	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1242	6	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1254	6	0.0000000	0	0.000000	0.000000	0.000000
AROCHLOR 1260	6	0.0100000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PAH	18	0.0005000	16	0.003500	0.259000	0.153700
NAPHTHALENE	18	0.0005000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	18	0.0008000	3	0.002000	0.020000	0.018400
BENZO(B)FLUORANTHENE	18	0.0001000	0	0.000000	0.000000	0.000000
ACENAPHTHYLENE	18	0.0005000	0	0.000000	0.000000	0.000000
CHRYSENE	18	0.0006000	13	0.002000	0.040000	0.019400
BENZO(K)FLUORANTHENE	18	0.0010000	10	0.004000	0.060000	0.003310
ACENAPHTHENE	18	0.0005000	1	0.000700	0.000700	0.000000
FLUORANTHENE	18	0.0006000	16	0.001000	0.070000	0.034000
BENZO(GHI)PERYLENE	18	0.0010000	0	0.000000	0.000000	0.000000
FLUORENE	18	0.0006000	5	0.000600	0.030000	0.008600
PYRENE	18	0.0005000	16	0.001000	0.090000	0.043400
ANTHRACENE	18	0.0003000	7	0.007000	0.009000	0.006200
BENZO(A)PYRENE	18	0.0003000	10	0.000700	0.030000	0.015500
INDENO(1,2,3-CD)PYRENE	18	0.0010000	0	0.000000	0.000000	0.000000
PHENANTHRENE	18	0.0005000	16	0.000800	0.040000	0.019800
DIBENZE(A,H)ANTHRACENE	18	0.0010000	0	0.000000	0.000000	0.000000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL SOLIDS	18	0.0000000	18	61.400000	79.500000	71.200000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 36
    Site Name: LOS ANGELES
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 600 feet.

Center of Site is:
33E33'12.0" N 118E10'48.0" W
Depth(ft): Low Depth- 640 High Depth- 0
Nearest Distance from shore (nm): 5.2

Reference Site Location:
Site No: 195
Site Name: LA-2 REFERENCE

Geographical position (NAD 1927)

33E 3Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

General Comments:
added by David Zoutendyk 10/22/1997

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
Mytilus edulis
Atherinops affinis
Mysidopsis bahia

16. Bioassay Solid Phase Information (Organisms Tested):
Ampelisca abdita
Mysidopsis bahia
Neanthes arenaceodentata

17. Bioassay Bioaccumulation Information (Organisms Tested):
Macoma nasuta

18. General Commentsdes

Corps navigation dredging project. Info provided by Mo Chang in LAD Navigation section. chem data entered for sites 5/6 and 9 only as all other areas were not disposed at LA-2.

19. Point of Contact: DAVID ZOUTENDYK 858-674-5384

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SPL [DS= 2369]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. NEWPORT BAY, CALIFORNIA
      CORPS NEWPORT BAY HARBOR O&M DREDGING (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 14,600

7. Expected frequency of dumping (for reporting period):
   a. 3-4X/DAY
   b. Actual start: 12/22/98
   c. Actual completion: 12/30/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
MERCURY	14	0.0200000	14	0.060000	1.160000	0.200000
CADMIUM	14	0.1000000	14	0.770000	1.500000	1.100000
LEAD	14	0.1000000	14	17.000000	38.000000	25.900000
CHROMIUM	14	0.1000000	14	12.000000	23.000000	15.300000
COPPER	14	0.1000000	14	21.000000	46.000000	27.600000
NICKEL	14	0.1000000	14	9.300000	19.000000	12.600000
ZINC	14	0.1000000	14	57.000000	110.000000	75.000000
SELENIUM	14	0.1000000	14	0.640000	1.100000	0.892000
SILVER	14	0.1000000	2	0.160000	0.220000	0.190000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	14	0.0200000	0	0.000000	0.000000	0.000000
CHLORDANE	14	0.0200000	0	0.000000	0.000000	0.000000
DIELDRIN	14	0.0200000	0	0.000000	0.000000	0.000000
ALPHA-ENDOSULFAN	14	0.0200000	0	0.000000	0.000000	0.000000
BETA-ENDOSULFAN	14	0.0200000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	14	0.0200000	0	0.000000	0.000000	0.000000
DDD	14	0.0200000	2	0.001400	0.014000	0.009000
DDE	14	0.0200000	0	0.000000	0.000000	0.000000
DDT	14	0.0200000	2	0.003200	0.005100	0.003900
ENDRIN	14	0.0200000	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	14	0.0200000	0	0.000000	0.000000	0.000000
HEPTACHLOR	14	0.0200000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	14	0.0200000	0	0.000000	0.000000	0.000000
ALPHA-LINDANE	14	0.0200000	0	0.000000	0.000000	0.000000
BETA-LINDANE	14	0.0200000	0	0.000000	0.000000	0.000000
DELTA-LINDANE	14	0.0200000	0	0.000000	0.000000	0.000000
GAMMA-LINDANE	14	0.0200000	0	0.000000	0.000000	0.000000
METHOXYCHLOR	14	0.0200000	0	0.000000	0.000000	0.000000
TOXAPHENE	14	0.0300000	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PCB	14	0.0200000	0	0.000000	0.000000	0.000000
AROCHLOR 1016	14	0.0200000	0	0.000000	0.000000	0.000000

AROCHLOR 1221	14	0.0200000	0	0.000000	0.000000	0.000000
AROCHLOR 1232	14	0.0200000	0	0.000000	0.000000	0.000000
AROCHLOR 1242	14	0.0200000	0	0.000000	0.000000	0.000000
AROCHLOR 1254	14	0.0000000	0	0.000000	0.000000	0.000000
AROCHLOR 1260	14	0.0200000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
NAPHTHALENE	14	0.0200000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	14	0.0200000	11	0.016000	0.037000	0.024500
BENZO(B)FLUORANTHENE	14	0.0200000	14	0.019000	0.045000	0.031000
ACENAPHTHYLENE	14	0.0200000	0	0.000000	0.000000	0.000000
CHRYSENE	14	0.0200000	14	0.018000	0.045000	0.033000
BENZO(K)FLUORANTHENE	14	0.0200000	12	0.016000	0.039000	0.023000
ACENAPHTHENE	14	0.0200000	0	0.000000	0.000000	0.000000
FLUORANTHENE	14	0.0200000	14	0.032000	0.075400	0.038000
BENZO(GHI)PERYLENE	14	0.0200000	14	0.026000	0.062000	0.041000
FLUORENE	14	0.0200000	0	0.000000	0.000000	0.000000
PYRENE	14	0.0200000	14	0.027000	0.083000	0.047000
ANTHRACENE	14	0.0200000	0	0.000000	0.000000	0.000000
BENZO(A)PYRENE	14	0.0200000	14	0.017000	0.047000	0.032000
INDENO(1,2,3-CD)PYRENE	14	0.0200000	14	0.020000	0.052000	0.038000
PHENANTHRENE	14	0.0200000	4	0.016000	0.063000	0.023000
DIBENZE(A,H)ANTHRACENE	14	0.0200000	0	0.000000	0.000000	0.000000

TINS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TRIBUTYLTIN	14	0.0010000	2	0.001600	0.022000	0.018000
DIBUTYLTIN	14	0.0010000	0	0.000000	0.000000	0.000000
MONOBUTYLTIN	14	0.0010000	0	0.000000	0.000000	0.000000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL ORGANIC CARBON	14	0.1000000	14	0.734000	1.096000	0.936000
TOTAL SULFIDES	14	0.1000000	0	2.700000	12.900000	5.900000
% SAND	14	0.1000000	14	3.900000	42.800000	23.300000
% SILT	14	0.1000000	14	24.700000	45.200000	35.900000
% CLAY	14	0.1000000	14	29.100000	57.000000	40.700000

BASE NEUTRALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
BUTYL BENZYL PHTHALATE	14	0.0200000	14	0.098000	0.425000	0.179000
DIETHYL PHTHALATE	14	0.0200000	0	0.000000	0.000000	0.000000
DIMETHYL PHTHALATE	14	0.0200000	14	0.016000	0.022000	0.018000
DI-N-BUTYL PHTHALATE	14	0.0200000	14	0.056000	0.163000	0.089000

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    DI-N-OCTYL PHTHALATE    14    0.0200000  0     0.000000    0.000000    0.000000

ACID VOLATILES

    BIS(2-ETHYLHEXYL)PHTHAL 14    0.0200000 14     0.207000    0.579000    0.440000
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9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE
12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 17
    Site Name: NEWPORT BEACH (LA-3)
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 1440 feet.

Center of Site is:
33E31'42.0" N 117E51'18.0" W
Depth(ft): Low Depth- 1500 High Depth- 0
Nearest Distance from shore (nm): 4.3

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
    Seasonal restrictions were enforced
    No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
    No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
    No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
    No Bioassay testing was done

18. General Comments

19. Point of Contact: DAVID ZOUTENDYK 858-674-5384

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SPN [DS= 2386]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b.
   HUMBOLDT BAR & ENTRANCE (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 483,800

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 03/10/98
   c. Actual completion: 05/12/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.174
Site Name: HOODS
Geographical position: (NAD 1927)

40E48'17.0" N 124E18'13.0" W 40E49'03.0" N 124E17'22.0" W
40E47'38.0" N 124E17'13.0" W 40E48'24.0" N 124E16'22.0" W

Depth(ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

Reference Site Location:
Site No: 209
Site Name: HOODS REFERENCE SITE

Geographical position (NAD 1927)

40E44Depth (ft): Low Depth- 160 High Depth- 180
Nearest Distance from shore (nm): 0.0

General Comments
Added by Mike Donnelly, 1998

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MIKE DONNELLY 415-977-8699

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SPN [DS= 2387]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. HUMBOLDT
      HUMBOLDT NORTH BAY CHANNEL (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 37,600

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 03/04/98
   c. Actual completion: 04/18/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.174
Site Name: HOODS
Geographical position: (NAD 1927)

40E48'17.0" N 124E18'13.0" W 40E49'03.0" N 124E17'22.0" W
40E47'38.0" N 124E17'13.0" W 40E48'24.0" N 124E16'22.0" W

Depth(ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

Reference Site Location:
Site No: 209
Site Name: HOODS REFERENCE SITE

Geographical position (NAD 1927)

40E44Depth (ft): Low Depth- 160 High Depth- 180
Nearest Distance from shore (nm): 0.0

General Comments
Added by Mike Donnelly, 1998

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MIKE DONNELLY 415-977-8699

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SPN [DS= 2388]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. SAN FRANCISCO, CA
      SAN FRANCISCO MAIN SHIP CHANNEL (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 301,100

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 04/10/98
   c. Actual completion: 05/24/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 33
Site Name: SAN FRANCISCO CHANNEL BAR
Geographical position: (NAD 1927)

37E45'06.0" N 122E35'45.0" W
Depth(ft): Low Depth- 36 High Depth- 40
Nearest Distance from shore (nm): 6.8

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MIKE DONNELLY 415-977-8699

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SPN [DS= 2389]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. OAKLAND, CA
      OAKLAND HARBOR 42' DEEPENING (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 299,300

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 01/01/98
   c. Actual completion: 04/10/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Not Known if data calculated on a Wet or Dry Basis)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	13	0.1000000	13	2.100000	4.100000	3.000000
MERCURY	13	0.0200000	13	0.100000	0.200000	0.100000
CADMIUM	13	0.0500000	13	0.100000	0.300000	0.100000
LEAD	13	0.0200000	13	4.400000	10.100000	0.000000
CHROMIUM	13	0.0200000	13	31.100000	56.200000	42.600000
COPPER	13	0.1000000	13	13.800000	36.700000	23.300000
NICKEL	13	0.1000000	13	4.800000	57.900000	40.100000
ZINC	13	0.5000000	13	34.800000	75.100000	52.600000
SELENIUM	11	0.3000000	11	0.500000	3.200000	2.000000
SILVER	13	0.0200000	13	0.100000	0.400000	0.200000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	14	2.0000000	0	2.000000	2.000000	2.000000
ALPHA-CHLORDANE	14	2.0000000	0	2.000000	2.000000	2.000000
DIELDRIN	14	2.0000000	0	2.000000	2.000000	2.000000
ENDOSULFAN SULFATE	14	2.0000000	0	2.000000	2.000000	2.000000
DDD	14	0.0000000	1	2.000000	5.000000	2.200000
DDE	14	2.0000000	0	2.000000	2.000000	2.000000
DDT	14	2.0000000	1	2.000000	5.000000	2.200000
ENDRIN	14	2.0000000	0	2.000000	2.000000	2.000000
ENDRIN ALDEHYDE	14	2.0000000	0	2.000000	2.000000	2.000000
HEPTACHLOR	14	2.0000000	0	2.000000	2.000000	2.000000
HEPTACHLOR EPOXIDE	14	2.0000000	0	2.000000	2.000000	2.000000
ALPHA-LINDANE	14	2.0000000	0	2.000000	2.000000	2.000000
BETA-LINDANE	14	2.0000000	0	2.000000	2.000000	2.000000
DELTA-LINDANE	14	2.0000000	0	2.000000	2.000000	2.000000
GAMMA-LINDANE	14	2.0000000	0	2.000000	2.000000	2.000000
METHOXYCHLOR	14	4.0000000	0	4.000000	4.000000	4.000000
TOXAPHENE	14	30.0000000	0	30.000000	30.000000	30.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AROCHLOR 1016	15	10.0000000	0	10.000000	10.000000	10.000000
AROCHLOR 1221	15	10.0000000	0	10.000000	10.000000	10.000000
AROCHLOR 1232	15	10.0000000	0	10.000000	10.000000	10.000000

AROCHLOR 1242	15	10.0000000	0	10.000000	10.000000	10.000000
AROCHLOR 1248	10	0.0000000	0	10.000000	10.000000	10.000000
AROCHLOR 1254	15	0.0000000	10	10.000000	10.000000	10.000000
AROCHLOR 1260	15	10.0000000	0	10.000000	10.000000	10.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
NAPHTHALENE	14	5.0000000	4	5.000000	7.000000	5.400000
BENZO(A)ANTHRACENE	14	5.0000000	14	6.000000	52.000000	14.600000
BENZO(B)FLUORANTHENE	14	5.0000000	14	8.000000	57.000000	18.800000
ACENAPHTHYLENE	14	5.0000000	0	5.000000	5.000000	5.000000
CHRYSENE	14	5.0000000	14	9.000000	60.000000	19.600000
BENZO(K)FLUORANTHENE	14	5.0000000	14	6.000000	51.000000	16.400000
ACENAPHTHENE	14	5.0000000	0	5.000000	5.000000	5.000000
FLUORANTHENE	14	5.0000000	14	10.000000	100.000000	27.400000
BENZO(GHI)PERYLENE	14	5.0000000	14	14.000000	94.000000	31.700000
FLUORENE	14	5.0000000	0	5.000000	5.000000	5.000000
PYRENE	14	0.0000000	14	14.000000	190.000000	45.200000
ANTHRACENE	14	5.0000000	7	5.000000	12.000000	7.200000
BENZO(A)PYRENE	14	5.0000000	14	9.000000	82.000000	23.900000
INDENO(1,2,3-CD)PYRENE	14	5.0000000	14	16.000000	110.000000	36.200000
PHENANTHRENE	14	0.0000000	13	5.000000	44.000000	17.100000
DIBENZE(A,H)ANTHRACENE	14	5.0000000	3	5.000000	11.000000	5.900000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL SOLIDS	14	0.0000000	0	32.800000	65.200000	47.600000
TOTAL ORGANIC CARBON	14	0.0500000	14	0.500000	2.900000	1.500000
% SAND	15	0.0000000	0	11.600000	69.800000	44.800000
% SILT	15	0.0000000	0	13.300000	44.600000	24.400000
% CLAY	15	0.0000000	0	15.200000	44.100000	29.900000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.193
Site Name: SAN FRANCISCO DEEP OCEAN DISPOSAL SITE
Geographical position: (NAD 1927)

37E39'00.0" N 123E29'00.0" W
Depth(ft): Low Depth- 8200 High Depth- 9840
Nearest Distance from shore (nm): 0.0

General Comments
Coordinates are for center of rectangle.
Seabird and Marine mammel monitoring were performed in 1995.

Added by Belinda Spalding, Oct. 1996.

Reference Site Location:
Site No: 208
Site Name: SAN FRANCISCO DEEP OCEAN DISPOSAL (DODS) REFERENCE

Geographical position (NAD 1983)

37E25Depth (ft): Low Depth- 4200 High Depth- 0
Nearest Distance from shore (nm): 0.0

General Comments
Added by Mike Donnelly in 1999

14. Disposal Site Management:
Selective Disposal was used
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MIKE DONNELLY 415-977-8699

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SPN [DS= 2390]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. RICHMOND, CA
      RICHMOND INNER HARBOR DEEPENING (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 1,321,700

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 01/03/98
   c. Actual completion: 04/15/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.193
Site Name: SAN FRANCISCO DEEP OCEAN DISPOSAL SITE
Geographical position: (NAD 1927)

37E39'00.0" N 123E29'00.0" W
Depth(ft): Low Depth- 8200 High Depth- 9840
Nearest Distance from shore (nm): 0.0

General Comments
Coordinates are for center of rectangle.
Seabird and Marine mammel monitoring were performed in 1995.

Added by Belinda Spalding, Oct. 1996.

Reference Site Location:
Site No: 208
Site Name: SAN FRANCISCO DEEP OCEAN DISPOSAL (DODS) REFERENCE

Geographical position (NAD 1983)

37E25Depth (ft): Low Depth- 4200 High Depth- 0
Nearest Distance from shore (nm): 0.0

General Comments
Added by Mike Donnelly in 1999

14. Disposal Site Management:
Selective Disposal was used
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MIKE DONNELLY 415-977-8699

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NWP [DS= 2320]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. YAQUINA RIVER, OR
      YAQUINA BAY AND HARBOR ENTRANCE (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 141,800

7. Expected frequency of dumping (for reporting period):
   a. 21D
   b. Actual start: 05/25/98
   c. Actual completion: 10/10/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 27
Site Name: YAQUINA BAY AND HARBOR ENTRANCE
Geographical position: (NAD 1927)

44E36'31.0" N 124 06'04.0" W 44E36'31.0" N 124 05'16.0" W
44E36'17.0" N 124 05'16.0" W 44E36'17.0" N 124 06'04.0" W

Depth(ft): Low Depth- 50 High Depth- 59
Nearest Distance from shore (nm): 1.2
Site No.121
Site Name: REFERENCE SITE NOT REPORTED
Geographical position:

Depth(ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0
Site No.121
Site Name: REFERENCE SITE NOT REPORTED
Geographical position:

Depth(ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments
Material was disposed at two areas within this site, E and W

19. Point of Contact: MARK SIIPOLA 503-808-4885

1. Issuing Authority- District: NWP [DS= 2321]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. ROGUE RIVER, OR
      ROGUE RIVER ENTRANCE (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 42,500

7. Expected frequency of dumping (for reporting period):
   a. 13D
   b. Actual start: 05/31/98
   c. Actual completion: 07/01/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 22
Site Name: ROGUE RIVER ENTRANCE
Geographical position: (NAD 1927)

42E24'16.0" N 124 26'48.0" W 42E24'04.0" N 124 26'35.0" W
42E23'40.0" N 124 27'13.0" W 42E23'52.0" N 124 27'26.0" W

Depth(ft): Low Depth- 66 High Depth- 68
Nearest Distance from shore (nm): 1.2

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MARK SIIPOLA 503-808-4885

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NWP [DS= 2322]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. CB-F
      COOS BAY (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 684,200

7. Expected frequency of dumping (for reporting period):
   a. 38D
   b. Actual start: 06/03/98
   c. Actual completion: 09/01/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	11	0.1300000	11	3.000000	4.900000	3.800000
MERCURY	11	0.1300000	1	0.180000	0.180000	0.180000
CADMIUM	11	0.0930000	0	0.000000	0.000000	0.000000
LEAD	11	0.0700000	0	1.800000	8.300000	3.400000
CHROMIUM	11	0.0000000	11	6.100000	36.000000	12.500000
COPPER	11	0.2200000	11	1.700000	16.000000	4.000000
NICKEL	11	0.1400000	11	4.100000	31.000000	9.200000
ZINC	11	0.2400000	11	7.800000	46.000000	14.900000
SELENIUM	11	0.0970000	0	0.000000	0.000000	0.000000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	11	0.0047000	0	0.000000	0.000000	0.000000
CHLORDANE	11	0.0047000	0	0.000000	0.000000	0.000000
DIELDRIN	19	0.0000740	0	0.000000	0.000000	0.000000
DDD	11	0.0047000	0	0.000000	0.000000	0.000000
DDE	11	0.0047000	0	0.000000	0.000000	0.000000
DDT	11	0.0047000	0	0.000000	0.000000	0.000000
ENDRIN	19	0.0001300	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	19	0.0009300	0	0.000000	0.000000	0.000000
HEPTACHLOR	19	0.0001100	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	19	0.0001700	0	0.000000	0.000000	0.000000
GAMMA-LINDANE	11	0.0047000	0	0.000000	0.000000	0.000000
METHOXYCHLOR	19	0.0001700	0	0.000000	0.000000	0.000000
TOXAPHENE	19	0.0004600	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PCB	11	0.0230000	0	0.000000	0.000000	0.000000
AROCHLOR 1016	11	0.0230000	0	0.000000	0.000000	0.000000
AROCHLOR 1221	11	0.0230000	0	0.000000	0.000000	0.000000
AROCHLOR 1232	11	0.0230000	0	0.000000	0.000000	0.000000
AROCHLOR 1242	11	0.0230000	0	0.000000	0.000000	0.000000
AROCHLOR 1248	11	0.0230000	0	0.000000	0.000000	0.000000
AROCHLOR 1254	11	0.0230000	0	0.000000	0.000000	0.000000
AROCHLOR 1260	11	0.0230000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PAH	19	0.0000000	13	0.002200	0.582000	0.148800
NAPHTHALENE	19	0.0030000	9	0.003500	0.028000	0.006600
BENZO(A)ANTHRACENE	19	0.0025000	8	0.003900	0.039000	0.006500
BENZO(B)FLUORANTHENE	19	0.0033000	7	0.007800	0.037000	0.005800
ACENAPHTHYLENE	19	0.0024000	2	0.005800	0.006900	0.006400
CHRYSENE	19	0.0024000	9	0.002600	0.029000	0.007500
BENZO(K)FLUORANTHENE	19	0.0035000	6	0.003500	0.010000	0.001700
ACENAPHTHENE	19	0.0015000	6	0.003400	0.017000	0.003100
FLUORANTHENE	19	0.0027000	13	0.002200	0.150000	0.029900
BENZO(GHI)PERYLENE	19	0.0036000	0	0.000000	0.000000	0.000000
FLUORENE	19	0.0024000	6	0.004600	0.013000	0.003300
PYRENE	19	0.0011000	19	0.008500	0.091000	0.019200
ANTHRACENE	19	0.0022000	6	0.004300	0.018000	0.003100
BENZO(A)PYRENE	19	0.0014000	6	0.005400	0.340000	0.034400
INDENO(1,2,3-CD)PYRENE	19	0.0036000	0	0.000000	0.000000	0.000000
PHENANTHRENE	19	0.0015000	10	0.002300	0.042000	0.010200
DIBENZE(A,H)ANTHRACENE	19	0.0036000	0	0.000000	0.000000	0.000000

TINS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TRIBUTYLTIN	8	0.0000000	0	0.000000	0.000000	0.000000
DIBUTYLTIN	8	0.0000000	0	0.000000	0.000000	0.000000
MONOBUTYLTIN	8	0.0000430	2	0.000051	0.000065	0.000058
TOTAL ORGANOTIN	8	0.0000430	2	0.000051	0.000065	0.000058

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
% TOTAL VOLATILE SOLIDS	16	0.0000000	16	0.900000	14.200000	5.600000
TOTAL ORGANIC CARBON	11	0.0000040	11	270.00000	27000.000000	3340.000000
% SAND	16	0.0000000	16	13.200000	99.800000	69.100000
% SILT	16	0.0000000	16	0.500000	86.800000	29.200000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.207
Site Name: COOS BAY ENTRANCE F (1994 -)
Geographical position: (NAD 1927)

43E22'44. " N 124E22'18. " W 43E22'29. " N 124E21'34. " W
43E22'16. " N 124E21'42. " W 43E22'31. " N 124E22'26. " W

Depth(ft): Low Depth- 79 High Depth- 0
Nearest Distance from shore (nm): 1.0

General Comments
EXPANDED IN 1994

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MARK SIIPOLA 503-808-4883

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NWP [DS= 2323]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. CHETCO RIVER, OR
      CHETCO RIVER ENTRANCE (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 29,400

7. Expected frequency of dumping (for reporting period):
   a. 10D
   b. Actual start: 06/06/98
   c. Actual completion: 06/15/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 21
Site Name: CHETCO RIVER ENTRANCE
Geographical position: (NAD 1927)

42E01'56.0" N 124 16'33.0" W 42E01'56.0" N 124 16'09.0" W
42E01'38.0" N 124 16'09.0" W 42E01'38.0" N 124 16'33.0" W

Depth(ft): Low Depth- 69 High Depth- 72
Nearest Distance from shore (nm): 0.9

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MARK SIIPOLA 503-808-4885

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NWP [DS= 2324]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. UMPQUA RIVER, OR
      UMPQUA RIVER ENTRANCE (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 150,100

7. Expected frequency of dumping (for reporting period):
   a. 18D
   b. Actual start: 06/20/98
   c. Actual completion: 09/23/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 25
Site Name: UMPQUA RIVER ENTRANCE
Geographical position: (NAD 1927)

43E40'07.0" N 124 14'18.0" W 43E40'07.0" N 124 13'42.0" W
43E39'53.0" N 124 13'42.0" W 43E39'53.0" N 124 14'18.0" W

Depth(ft): Low Depth- 90 High Depth- 105
Nearest Distance from shore (nm): 0.8

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MARK SIIPOLA 503-808-4885

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NWP [DS= 2325]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. COQUILLE RIVER, OR
      COQUILLE RIVER ENTRANCE (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 4,500

7. Expected frequency of dumping (for reporting period):
   a. 3D
   b. Actual start: 08/28/98
   c. Actual completion: 09/21/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 24
Site Name: COQUILLE RIVER ENTRANCE
Geographical position: (NAD 1927)

43E07'54.0" N 124 27'04.0" W 43E07'30.0" N 124 26'27.0" W
43E07'20.0" N 124 26'40.0" W 43E07'44.0" N 124 27'17.0" W

Depth(ft): Low Depth- 66 High Depth- 0
Nearest Distance from shore (nm): 0.9

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MARK SIIPOLA 503-808-4885

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NWP [DS= 2326]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. SIUSLAW RIVER ENTRANCE
      SIUSLAW RIVER ENTRANCE (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 53,200

7. Expected frequency of dumping (for reporting period):
   a. 6D
   b. Actual start: 07/09/98
   c. Actual completion: 07/14/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 26
Site Name: SIUSLAW RIVER ENTRANCE
Geographical position: (NAD 1927)

44E01'23.0" N 124 09'37.0" W 44E01'22.0" N 124 09'02.0" W
44E01'14.0" N 124 09'07.0" W 44E01'24.0" N 124 09'42.0" W

Depth(ft): Low Depth- 69 High Depth- 0
Nearest Distance from shore (nm): 1.0

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MARK SIIPOLA 503-808-4885

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NWP [DS= 2327]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. MCR:SITE E; MCR: SITE F
      MOUTH OF THE COLUMBIA RIVER (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 3,310,500

7. Expected frequency of dumping (for reporting period):
   a. 39D
   b. Actual start: 06/13/98
   c. Actual completion: 10/02/98

8. Composition of the dredged material.

   CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR
   Material was EXCLUDED from testing

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.205
Site Name: MOUTH OF COLUMBIA RIVER SITE E (1997 -)
Geographical position: (NAD 1927)

46E15'43." N 124E05'21." W 46E15'36." N 124E05'11." W
46E15'11." N 124E05'53." W 46E15'18." N 124E06'03." W
0E0'0" N 0E0'0" W
Depth(ft): Low Depth- 60 High Depth- 0
Nearest Distance from shore (nm): 0.0

General Comments
Site was expanded in 1997
Site No.206
Site Name: MOUTH OF COLUMBIA RIVER SITE F (1992 -)
Geographical position: (NAD 1927)

46E12'00." N 124E09'00." W 46E12'00." N 124E08'42." W
46E11'48." N 124E09'00." W 46E12' 0.0" N 124E09'18." W
0E0'0" N 0E0'0" W
Depth(ft): Low Depth- 69 High Depth- 130
Nearest Distance from shore (nm): 0.0

General Comments
site was expanded in 1992

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MARK SIIPOLA 503-808-4885

1. Issuing Authority- District: NWP [DS= 2328]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. YQA:W; YQA:E
      YAQUINA (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 115,000

7. Expected frequency of dumping (for reporting period):
   a. 7D
   b. Actual start: 07/05/98
   c. Actual completion: 07/11/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 27
Site Name: YAQUINA BAY AND HARBOR ENTRANCE
Geographical position: (NAD 1927)

44E36'31.0" N 124 06'04.0" W 44E36'31.0" N 124 05'16.0" W
44E36'17.0" N 124 05'16.0" W 44E36'17.0" N 124 06'04.0" W

Depth(ft): Low Depth- 50 High Depth- 59
Nearest Distance from shore (nm): 1.2
Site No.999
Site Name: CORRECT DISPOSAL SITE NOT IN DATABASE

Reference Site Location:
Site No: 121
Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: MARK SIIPOLA 503-808-4885

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: POA [DS= 2319]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. NOME, ALASKA
      NOME SMALL BOAT HARBOR (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: MECHANICAL DREDGE
   b. Mode of transportation: PIPELINE DISCHARGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 4,700

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 07/06/98
   c. Actual completion: 07/20/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: PIPE ABOVE WATER SURFACE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 69
Site Name: NOME EAST
Geographical position: (NAD 1927)

64E29'54"	N	164E24'41"	W	64E29'45"	N	165E23'27"	W
64E28'57"	N	165E23'29"	W	64E29'07"	N	165E24'25"	W

Depth(ft): Low Depth- 3 High Depth- 39
Nearest Distance from shore (nm): 0.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: BARBARA REILLY 907-753-2701

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: POA [DS= 2350]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. NOME, ALASKA
      NOME SMALL BOAT HARBOR (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: MECHANICAL DREDGE
   b. Mode of transportation: PIPELINE DISCHARGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 4,700

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 07/06/98
   c. Actual completion: 07/20/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: PIPE ABOVE WATER SURFACE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 69
Site Name: NOME EAST
Geographical position: (NAD 1927)

64E29'54"	N	164E24'41"	W	64E29'45"	N	165E23'27"	W
64E28'57"	N	165E23'29"	W	64E29'07"	N	165E24'25"	W

Depth(ft): Low Depth- 3 High Depth- 39
Nearest Distance from shore (nm): 0.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: BARBARA REILLY 907-753-2701

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2411]

2. Permit start date/expire date: (Federal Project)
   Location:
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. BOSTON HARBOR, MA
      COE BOSTON HARBOR, BOSTON MAINTENANCE DREDGING (Maintenance)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: MECHANICAL DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 787,079

7. Expected frequency of dumping (for reporting period):
   a. VARIOUS
   b. Actual start: 08/09/98
   c. Actual completion: 12/30/98

8. Composition of the dredged material.
   CHEMISTRY DATA WILL BE REPORTED AT THE END OF THE PROJECT IN 1999

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 2
Site Name: MASSACHUSETTS BAY DISPOSAL SITE
Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 12161 feet.

Center of Site is:
42E25'49.0" N 070E34'00.0" W
Depth(ft): Low Depth- 190 High Depth- 302
Nearest Distance from shore (nm): 19.1

Reference Site Location:
Site No: 167
Site Name: MASS BAY REFERENCE (1992 AND LATER)

Geographical position (NAD 1927)

42E22Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
Amplesica abdita

17. Bioassay Bioaccumulation Information (Organisms Tested):
Macoma nausta

18. General Comments

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAN [DS= 2330]

2. Permit start date/expire date: (Permitted Project)
   Location: REFINED SUGAR
   Date issued: 10/13/98 Expire Date: 10/13/01

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. HUDSON RIVER (REACH - A)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 22,900

7. Expected frequency of dumping (for reporting period):
   a. 2 / DAY
   b. Actual start: 11/16/98
   c. Actual completion: 11/25/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
CADMIUM	1	0.0000000	0	0.000000	0.000000	0.590000
LEAD	1	0.0000000	0	0.000000	0.000000	97.100000
CHROMIUM	1	0.0000000	0	0.000000	0.000000	75.400000
COPPER	1	0.0000000	0	0.000000	0.000000	102.000000
NICKEL	1	0.0000000	0	0.000000	0.000000	24.400000
ZINC	1	0.0000000	0	0.000000	0.000000	176.000000
SILVER	1	0.0000000	0	0.000000	0.000000	3.800000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
% MOISTURE	1	0.0000000	0	0.000000	0.000000	51.640000
% SAND	1	0.0000000	0	0.000000	0.000000	11.100000
% SILT	1	0.0000000	0	0.000000	0.000000	51.700000
% CLAY	1	0.0000000	0	0.000000	0.000000	37.200000

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

Elutriate Test Chemical Data

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
MERCURY	1	0.0000000	0	0.000000	0.000000	0.356000
CADMIUM	1	0.0000000	0	0.000000	0.000000	0.198000
LEAD	1	0.0000000	0	0.000000	0.000000	17.973000
COPPER	1	0.0000000	0	0.000000	0.000000	15.925000
NICKEL	1	0.0000000	0	0.000000	0.000000	17.095000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No.204
    Site Name: HISTORIC AREA REMEDIATION SITE (HARS)
    Geographical position: (NAD 1983)

    40E25'39. " N 073E53'55. " W 40E25'39. " N 073E48'58. " W
    40E21'19. " N 073E48'57. " W 40E21'19. " N 073E52'30. " W
    40E21'52. " N 073E53'55. " W
    Depth(ft): Low Depth- 0 High Depth- 0
    Nearest Distance from shore (nm): 4.0

General Comments
This is a complex site with multiple corners. Only the 5 approximate outside corners are listed above.
Complete corner coordinates of the Buffer Zone are:

```
A - 40 25'39" N, 73 53'55" W        L - 40 25'22", 73 50'44"
 B - 40 25'23", 73 53'34"            M - 40 25'39", 73 48'58"
 C - 40 25'39", 73 51'48"            N - 40 25'22", 73 49'19"
 D - 40 25'22", 73 52'08"            O - 40 21'35", 73 49'19"
 E - 40 23'48", 73 51'48"            P - 40 21'19", 73 48'57"
 F - 40 23'13", 73 52'09"            Q - 40 21'36", 73 52'08"
 G - 40 23'13", 73 51'28"            R - 40 21'19", 73 52'30"
 H - 40 22'41", 73 51'28"            S - 40 21'52", 73 53'55"
 I - 40 22'41", 73 50'43"            T - 40 22'08", 73 52'08"
 J - 40 23'48", 73 51'06"            U - 40 22'08", 73 53'34"
 K - 40 25'39", 73 51'06"            V - 40 21'52", 73 52'30"
```

Reference Site Location:
Site No: 128
Site Name: MUD DUMP REFERENCE SITE

Geographical position (NAD 1927)

40E23'13" N 073E52'11" W 40E20'21" N 073E52'19" W
Depth (ft): Low Depth- 21 High Depth- 0
Nearest Distance from shore (nm): 0.0

14. Disposal Site Management:
    Seasonal restrictions were enforced
    Selective Disposal was used
    Site Monitoring was performed
    Bathymetry Monitoring was performed
    Chemical Monitoring was performed
    Physical Monitoring was performed
    Biological Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
    Menidia berylina
    Mysidopsis bahia
    Mytilus edilus

16. Bioassay Solid Phase Information (Organisms Tested):
    Ampelisca abdita
    Mysidopsis bahia

17. Bioassay Bioaccumulation Information (Organisms Tested):
    Nereis virens

18. General Comments

    This project is divided into two reaches A and B. The volume of 30,000 cu. yards listed equals half the total volume of 60,000 cu. yards for this entire project.

19. Point of Contact: THOMAS WYCHE 212-264-1851

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAN [DS= 2331]

2. Permit start date/expire date: (Permitted Project)
   Location: REFINED SUGAR
   Date issued: 10/13/98 Expire Date: 10/13/01

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. HUDSON RIVER (REACH - B)

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 22,900

7. Expected frequency of dumping (for reporting period):
   a. 2 / DAY
   b. Actual start: 11/16/98
   c. Actual completion: 11/25/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
MERCURY	1	0.0000000	0	0.000000	0.000000	1.200000
CADMIUM	1	0.0000000	0	0.000000	0.000000	0.680000
LEAD	1	0.0000000	0	0.000000	0.000000	80.400000
CHROMIUM	1	0.0000000	0	0.000000	0.000000	62.000000
COPPER	1	0.0000000	0	0.000000	0.000000	78.900000
NICKEL	1	0.0000000	0	0.000000	0.000000	24.100000
ZINC	1	0.0000000	0	0.000000	0.000000	162.000000
SILVER	1	0.0000000	0	0.000000	0.000000	2.700000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
% MOISTURE	1	0.0000000	0	0.000000	0.000000	57.330000
% SAND	1	0.0000000	0	0.000000	0.000000	5.400000
% SILT	1	0.0000000	0	0.000000	0.000000	52.900000
% CLAY	1	0.0000000	0	0.000000	0.000000	41.700000

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

Elutriate Test Chemical Data

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
MERCURY	1	0.0000000	0	0.000000	0.000000	0.168000
CADMIUM	1	0.0000000	0	0.000000	0.000000	0.141000
LEAD	1	0.0000000	0	0.000000	0.000000	18.001000
COPPER	1	0.0000000	0	0.000000	0.000000	16.613000
NICKEL	1	0.0000000	0	0.000000	0.000000	2.292000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No.204
    Site Name: HISTORIC AREA REMEDIATION SITE (HARS)
    Geographical position: (NAD 1983)

    40E25'39. " N 073E53'55. " W 40E25'39. " N 073E48'58. " W
    40E21'19. " N 073E48'57. " W 40E21'19. " N 073E52'30. " W
    40E21'52. " N 073E53'55. " W
    Depth(ft): Low Depth- 0 High Depth- 0
    Nearest Distance from shore (nm): 4.0

General Comments
This is a complex site with multiple corners. Only the 5 approximate outside corners are listed above.
Complete corner coordinates of the Buffer Zone are:

```
A - 40 25'39" N, 73 53'55" W       L - 40 25'22", 73 50'44"
B - 40 25'23", 73 53'34"           M - 40 25'39", 73 48'58"
C - 40 25'39", 73 51'48"           N - 40 25'22", 73 49'19"
D - 40 25'22", 73 52'08"           O - 40 21'35", 73 49'19"
E - 40 23'48", 73 51'48"           P - 40 21'19", 73 48'57"
F - 40 23'13", 73 52'09"           Q - 40 21'36", 73 52'08"
G - 40 23'13", 73 51'28"           R - 40 21'19", 73 52'30"
H - 40 22'41", 73 51'28"           S - 40 21'52", 73 53'55"
I - 40 22'41", 73 50'43"           T - 40 22'08", 73 52'08"
J - 40 23'48", 73 51'06"           U - 40 22'08", 73 53'34"
K - 40 25'39", 73 51'06"           V - 40 21'52", 73 52'30"
```

Reference Site Location:
Site No: 128
Site Name: MUD DUMP REFERENCE SITE

Geographical position (NAD 1927)

40E23'13" N 073E52'11" W 40E20'21" N 073E52'19" W
Depth (ft): Low Depth- 21 High Depth- 0
Nearest Distance from shore (nm): 0.0

14. Disposal Site Management:
    Seasonal restrictions were enforced
    Selective Disposal was used
    Site Monitoring was performed
    Bathymetry Monitoring was performed
    Chemical Monitoring was performed
    Physical Monitoring was performed
    Biological Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
    Menidia berylina
    Mysidopsis bahia
    Mytilus edilus

16. Bioassay Solid Phase Information (Organisms Tested):
    Ampelisca abdita
    Mysidosis bahia

17. Bioassay Bioaccumulation Information (Organisms Tested):
    Nereis virens

18. General Comments

    This project is divided into two reaches A and B. The listed volume of 30,000 cu. yards equals half the total volume of 60,000 cu. yards for this entire project.

19. Point of Contact: THOMAS WYCHE 212-264-1851

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAN [DS= 2332]

2. Permit start date/expire date: (Permitted Project)
   Location: NYC-EDC PASSENGER SHIP TERMINAL
   Date issued: 03/20/98 Expire Date: 03/20/01

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. HUDSON RIVER

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 370,800

7. Expected frequency of dumping (for reporting period):
   a. 2 / DAY
   b. Actual start: 03/03/98
   c. Actual completion: 04/14/98

8. Composition of the dredged material.

CHEMICAL DATA FOR THIS PROJECT WAS REPORTED IN 1997

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.204
Site Name: HISTORIC AREA REMEDIATION SITE (HARS)
Geographical position: (NAD 1983)

40E25'39. " N 073E53'55. " W 40E25'39. " N 073E48'58. " W
40E21'19. " N 073E48'57. " W 40E21'19. " N 073E52'30. " W
40E21'52. " N 073E53'55. " W
Depth(ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 4.0

General Comments
This is a complex site with multiple corners. Only the 5 approximate outside corners are listed above.
Complete corner coordinates of the Buffer Zone are:

```
A - 40 25'39" N, 73 53'55" W       L - 40 25'22", 73 50'44"
B - 40 25'23", 73 53'34"           M - 40 25'39", 73 48'58"
C - 40 25'39", 73 51'48"           N - 40 25'22", 73 49'19"
D - 40 25'22", 73 52'08"           O - 40 21'35", 73 49'19"
E - 40 23'48", 73 51'48"           P - 40 21'19", 73 48'57"
F - 40 23'13", 73 52'09"           Q - 40 21'36", 73 52'08"
G - 40 23'13", 73 51'28"           R - 40 21'19", 73 52'30"
H - 40 22'41", 73 51'28"           S - 40 21'52", 73 53'55"
I - 40 22'41", 73 50'43"           T - 40 22'08", 73 52'08"
J - 40 23'48", 73 51'06"           U - 40 22'08", 73 53'34"
K - 40 25'39", 73 51'06"           V - 40 21'52", 73 52'30"
```

Reference Site Location:
Site No: 128
Site Name: MUD DUMP REFERENCE SITE

Geographical position (NAD 1927)

40E23'13" N 073E52'11" W 40E20'21" N 073E52'19" W
Depth (ft): Low Depth- 21 High Depth- 0
Nearest Distance from shore (nm): 0.0

14. Disposal Site Management:
Seasonal restrictions were enforced
Selective Disposal was used
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed
Physical Monitoring was performed
Biological Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
    Menidia berylina
    Mysidopsis mytilus
    Mytilus edilus

16. Bioassay Solid Phase Information (Organisms Tested):
    Ampelisca abdita
    Mysidopsis bahia

17. Bioassay Bioaccumulation Information (Organisms Tested):
    Nereis virens

18. General Comments

19. Point of Contact: THOMAS WYCHE 212-264-1851

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2398]

2. Permit start date/expire date: (Permitted Project)
   Location: SOUTH PORT MARINE
   Date issued: 06/02/97 Expire Date: 06/02/02

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. FORE RIVER, SOUTH PORTLAND, ME

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 3,800

7. Expected frequency of dumping (for reporting period):
   a. 1 A WEEK
   b. Actual start: 02/04/98
   c. Actual completion: 03/04/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	3	0.0000000	3	8.700000	16.000000	11.560000
MERCURY	3	0.0000000	3	0.010000	0.187000	0.093000
CADMIUM	3	0.0000000	3	0.530000	0.660000	0.598000
LEAD	3	0.0000000	3	11.000000	33.700000	20.030000
CHROMIUM	3	0.0000000	3	11.900000	70.300000	37.160000
COPPER	3	0.0000000	3	11.900000	36.600000	22.470000
NICKEL	3	0.0000000	3	21.700000	49.000000	31.730000
ZINC	3	0.0000000	3	5.240000	125.000000	77.570000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	3	0.0100000	0	0.000000	0.000000	0.000000
CHLORDANE	3	0.0100000	0	0.000000	0.000000	0.000000
DIELDRIN	3	0.0100000	0	0.000000	0.000000	0.000000
ENDOSULFAN	3	0.0100000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	3	0.0100000	0	0.000000	0.000000	0.000000
DDD	3	0.0100000	0	0.000000	0.000000	0.000000
DDE	3	0.0100000	0	0.000000	0.000000	0.000000
DDT	3	0.0100000	0	0.000000	0.000000	0.000000
ENDRIN	3	0.0100000	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	3	0.0100000	0	0.000000	0.000000	0.000000
HEPTACHLOR	3	0.0100000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	3	0.0100000	0	0.000000	0.000000	0.000000
METHOXYCHLOR	3	0.0100000	0	0.000000	0.000000	0.000000
TOXAPHENE	3	0.0100000	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AROCHLOR 1016	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1221	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1232	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1242	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1254	3	0.0000000	0	0.000000	0.000000	0.000000
AROCHLOR 1260	3	0.0100000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
NAPHTHALENE	3	0.0330000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	3	0.0330000	2	0.076000	0.320000	0.190000
BENZO(B)FLUORANTHENE	3	0.0330000	2	0.049000	0.250000	0.140000
ACENAPHTHYLENE	3	0.0330000	1	0.016500	0.110000	0.110000
CHRYSENE	3	0.0330000	2	0.076000	0.360000	0.140000
BENZO(K)FLUORANTHENE	3	0.0330000	2	0.049000	0.270000	0.112000
ACENAPHTHENE	3	0.0330000	0	0.000000	0.000000	0.000000
FLUORANTHENE	3	0.0330000	0	0.000000	0.000000	0.000000
BENZO(GHI)PERYLENE	3	0.0760000	1	0.038000	0.230000	0.230000
FLUORENE	3	0.0330000	3	0.070000	0.490000	0.220000
PYRENE	3	0.0330000	3	0.060000	0.700000	0.300000
ANTHRACENE	3	0.0330000	2	0.045000	0.230000	0.130000
BENZO(A)PYRENE	3	0.0330000	2	0.110000	0.470000	0.290000
INDENO(1,2,3-CD)PYRENE	3	0.0760000	1	0.038000	0.190000	0.190000
PHENANTHRENE	3	0.0330000	3	0.046000	0.300000	0.136000
DIBENZE(A,H)ANTHRACENE	3	0.0760000	0	0.000000	0.000000	0.000000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL SOLIDS	3	0.0000000	3	57.000000	68.000000	61.670000
TOTAL ORGANIC CARBON	3	0.0000000	3	2.300000	3.900000	3.270000
% SAND	3	0.0000000	3	28.200000	46.000000	39.000000
% CLAY	3	0.0000000	3	54.000000	72.000000	60.000000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 76
    Site Name: PORTLAND
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 0 feet.

Center of Site is:
43E34'06.0" N 070E02'00.0" W
Depth(ft): Low Depth- 135 High Depth- 203
Nearest Distance from shore (nm): 7.1

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

TOC listed as a %
%fines listed in % clay

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2399]

2. Permit start date/expire date: (Permitted Project)
   Location: JUBILEE YACHT CLUB
   Date issued: 07/30/97 Expire Date: 07/30/00

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. BEVERLY, MA

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 1,000

7. Expected frequency of dumping (for reporting period):
   a. 1 DAY
   b. Actual start: 02/16/98
   c. Actual completion: 02/16/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
% SAND	3	0.0000000	3	91.100000	95.000000	92.600000
% CLAY	3	0.0000000	3	1.000000	2.900000	2.030000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 2
Site Name: MASSACHUSETTS BAY DISPOSAL SITE
Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 12161 feet.

Center of Site is:
42E25'49.0" N 070E34'00.0" W
Depth(ft): Low Depth- 190 High Depth- 302
Nearest Distance from shore (nm): 19.1

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

%clay = %fines
three core samples were taken to the approximate dredge depth and each was analyzed for sediment grain size

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2400]

2. Permit start date/expire date: (Permitted Project)
   Location: GULF OIL LMTD PARTNERSHIP
   Date issued: 01/24/97 Expire Date: 01/24/97

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. CHELSEA RIVER, CHELSEA, MA

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 1,400

7. Expected frequency of dumping (for reporting period):
   a. 1 TRIP
   b. Actual start: 02/10/98
   c. Actual completion: 02/11/98

8. Composition of the dredged material.

CHEMICAL DATA FOR THIS PROJECT WAS REPORTED IN 1997

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 2
Site Name: MASSACHUSETTS BAY DISPOSAL SITE
Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 12161 feet.

Center of Site is:
42E25'49.0" N 070E34'00.0" W
Depth(ft): Low Depth- 190 High Depth- 302
Nearest Distance from shore (nm): 19.1

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2401]

2. Permit start date/expire date: (Permitted Project)
   Location: TOWN OF SCITUATE
   Date issued: 09/25/98 Expire Date: 09/25/03

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. SCITUATE HARBOR, SCITUATE MA

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 13,000

7. Expected frequency of dumping (for reporting period):
   a. 3-4 A WEEK
   b. Actual start: 12/02/98
   c. Actual completion: 12/27/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	3	0.0000000	3	2.600000	5.800000	4.900000
MERCURY	3	0.0000000	3	0.170000	0.470000	0.360000
CADMIUM	3	0.0000000	3	0.380000	1.900000	1.190000
LEAD	3	0.0000000	3	20.000000	60.000000	44.660000
CHROMIUM	3	0.0000000	3	27.000000	82.000000	56.330000
COPPER	3	0.0000000	3	17.000000	47.000000	34.000000
NICKEL	3	0.0000000	3	11.000000	21.000000	16.660000
ZINC	3	0.0000000	3	54.000000	120.000000	91.330000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	3	0.0100000	0	0.000000	0.000000	0.000000
CHLORDANE	3	0.0100000	0	0.000000	0.000000	0.000000
DIELDRIN	3	0.0100000	0	0.000000	0.000000	0.000000
ENDOSULFAN	3	0.0100000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	3	0.0100000	0	0.000000	0.000000	0.000000
DDD	3	0.0100000	0	0.000000	0.000000	0.000000
DDE	3	0.0100000	0	0.000000	0.000000	0.000000
DDT	3	0.0100000	0	0.000000	0.000000	0.000000
ENDRIN	3	0.0100000	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	3	0.0100000	0	0.000000	0.000000	0.000000
HEPTACHLOR	3	0.0100000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	3	0.0100000	0	0.000000	0.000000	0.000000
METHOXYCHLOR	3	0.0100000	0	0.000000	0.000000	0.000000
TOXAPHENE	3	0.0100000	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AROCHLOR 1016	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1221	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1232	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1242	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1254	3	0.0000000	0	0.000000	0.000000	0.000000
AROCHLOR 1260	3	0.0100000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
NAPHTHALENE	3	0.0000000	2	0.009000	0.029000	0.020000
BENZO(A)ANTHRACENE	3	0.0000000	3	0.070000	1.000000	0.403000
BENZO(B)FLUORANTHENE	3	0.0000000	3	0.135000	1.440000	0.612000
ACENAPHTHYLENE	3	0.0000000	2	0.009000	0.030000	0.021300
CHRYSENE	3	0.0000000	3	0.086000	1.000000	0.425300
BENZO(K)FLUORANTHENE	3	0.0000000	3	0.135000	0.261000	0.612000
ACENAPHTHENE	3	0.0000000	2	0.009000	0.051000	0.023100
FLUORANTHENE	3	0.0000000	3	0.140000	1.900000	0.766600
BENZO(GHI)PERYLENE	3	0.0000000	3	0.063000	0.290000	0.171000
FLUORENE	3	0.0000000	2	0.009000	0.053000	0.023800
PYRENE	3	0.0000000	3	0.140000	1.550000	0.633300
ANTHRACENE	3	0.0000000	2	0.009000	0.190000	0.081000
BENZO(A)PYRENE	3	0.0000000	3	0.077000	0.910000	0.382300
INDENO(1,2,3-CD)PYRENE	3	0.0000000	3	0.065000	0.350000	0.191600
PHENANTHRENE	3	0.0000000	3	0.074000	0.720000	0.314600
DIBENZE(A,H)ANTHRACENE	3	0.0000000	2	0.009000	0.180000	0.075300

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
% MOISTURE	2	0.0000000	2	13.500000	49.300000	31.400000
TOTAL ORGANIC CARBON	5	0.0000000	5	0.980000	1.540000	1.190000
% SAND	1	0.0000000	1	69.000000	69.000000	69.000000
% CLAY	4	0.0000000	4	31.000000	95.000000	65.250000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 2
    Site Name: MASSACHUSETTS BAY DISPOSAL SITE
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 12161 feet.

Center of Site is:
42E25'49.0" N 070E34'00.0" W
Depth(ft): Low Depth- 190 High Depth- 302
Nearest Distance from shore (nm): 19.1

Reference Site Location:
Site No: 167
Site Name: MASS BAY REFERENCE (1992 AND LATER)

Geographical position (NAD 1927)

42E22Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
Ampelisca abdita

17. Bioassay Bioaccumulation Information (Organisms Tested):
Nereis virens

18. General Comments

% fines listed in % clay

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2402]

2. Permit start date/expire date: (Permitted Project)
   Location: ARUNDEL YACHT CLUB
   Date issued: 05/08/96 Expire Date: 05/08/01

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. KENNEBUNK RIVER, KENNEBUNKPORT, ME

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 3,100

7. Expected frequency of dumping (for reporting period):
   a. I A WEEK
   b. Actual start: 02/24/98
   c. Actual completion: 04/06/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	2	0.1000000	2	6.400000	6.900000	6.650000
MERCURY	2	0.0100000	2	0.030000	0.060000	0.040000
CADMIUM	2	0.2000000	2	0.100000	0.100000	0.100000
LEAD	2	2.0000000	2	28.000000	34.000000	31.000000
CHROMIUM	2	2.0000000	2	37.000000	40.000000	38.500000
COPPER	2	1.0000000	2	57.000000	105.000000	81.000000
NICKEL	2	2.0000000	2	26.000000	26.000000	26.000000
ZINC	2	1.0000000	2	111.000000	117.000000	114.000000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	2	0.0200000	0	0.000000	0.000000	0.000000
CHLORDANE	2	0.0200000	0	0.000000	0.000000	0.000000
DIELDRIN	2	0.0200000	0	0.000000	0.000000	0.000000
ENDOSULFAN	2	0.0200000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	2	0.0200000	0	0.000000	0.000000	0.000000
DDD	2	0.0200000	0	0.000000	0.000000	0.000000
DDE	2	0.0200000	0	0.000000	0.000000	0.000000
DDT	2	0.0200000	0	0.000000	0.000000	0.000000
ENDRIN	2	0.0200000	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	2	0.0200000	0	0.000000	0.000000	0.000000
HEPTACHLOR	2	0.0200000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	2	0.0200000	0	0.000000	0.000000	0.000000
METHOXYCHLOR	2	0.0200000	0	0.000000	0.000000	0.000000
TOXAPHENE	2	0.0200000	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AROCHLOR 1016	2	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1221	2	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1232	2	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1242	2	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1254	2	0.0000000	0	0.000000	0.000000	0.000000
AROCHLOR 1260	2	0.0100000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
NAPHTHALENE	2	0.0200000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	2	0.0200000	0	0.000000	0.000000	0.000000
BENZO(B)FLUORANTHENE	2	0.0200000	0	0.000000	0.000000	0.000000
ACENAPHTHYLENE	2	0.0200000	0	0.000000	0.000000	0.000000
CHRYSENE	2	0.0200000	0	0.000000	0.000000	0.000000
BENZO(K)FLUORANTHENE	2	0.0200000	0	0.000000	0.000000	0.000000
ACENAPHTHENE	2	0.0200000	0	0.000000	0.000000	0.000000
FLUORANTHENE	2	0.0200000	0	0.000000	0.000000	0.000000
BENZO(GHI)PERYLENE	2	0.0200000	0	0.000000	0.000000	0.000000
FLUORENE	2	0.0200000	0	0.000000	0.000000	0.000000
PYRENE	2	0.0200000	0	0.000000	0.000000	0.000000
ANTHRACENE	2	0.0200000	0	0.000000	0.000000	0.000000
BENZO(A)PYRENE	2	0.0200000	0	0.000000	0.000000	0.000000
INDENO(1,2,3-CD)PYRENE	2	0.0200000	0	0.000000	0.000000	0.000000
PHENANTHRENE	2	0.0200000	0	0.000000	0.000000	0.000000
DIBENZE(A,H)ANTHRACENE	2	0.0200000	0	0.000000	0.000000	0.000000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
OIL + GREASE	2	0.0000000	2	548.000000	705.000000	625.500000
TOTAL ORGANIC CARBON	2	0.2800000	2	9.400000	12.000000	10.700000
% SAND	2	0.0000000	2	20.500000	24.700000	22.600000
% CLAY	2	0.0000000	2	75.300000	77.500000	76.400000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 1
    Site Name: CAPE ARUNDEL
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 1500 feet.

Center of Site is:
43E17'48.0" N 070E27'12.0" W
Depth(ft): Low Depth- 115 High Depth- 141
Nearest Distance from shore (nm): 2.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

% fines reported as %clay

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2403]

2. Permit start date/expire date: (Permitted Project)
   Location: RINALDI REALTY LTD
   Date issued: 09/10/92 Expire Date: 09/10/92

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. KENNEBUNK RIVER

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 100

7. Expected frequency of dumping (for reporting period):
   a. 1 TIME
   b. Actual start: 04/06/98
   c. Actual completion: 04/06/98

8. Composition of the dredged material.

CHEMICAL DATA FOR THIS PROJECT WAS REPORTED IN 1994

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 1
Site Name: CAPE ARUNDEL
Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 1500 feet.

Center of Site is:
43E17'48.0" N 070E27'12.0" W
Depth(ft): Low Depth- 115 High Depth- 141
Nearest Distance from shore (nm): 2.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2404]

2. Permit start date/expire date: (Permitted Project)
   Location: TOWN OF HINGHAM & DEM
   Date issued: 12/18/96 Expire Date: 12/18/01

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. HINGHAM HARBOR, HINGHAM MA

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 17,700

7. Expected frequency of dumping (for reporting period):
   a. 1 A WEEK
   b. Actual start: 01/11/98
   c. Actual completion: 02/27/98

8. Composition of the dredged material.

CHEMICAL DATA FOR THIS PROJECT WAS REPORTED IN 1997

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 2
Site Name: MASSACHUSETTS BAY DISPOSAL SITE
Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 12161 feet.

Center of Site is:
42E25'49.0" N 070E34'00.0" W
Depth(ft): Low Depth- 190 High Depth- 302
Nearest Distance from shore (nm): 19.1

Reference Site Location:
Site No: 167
Site Name: MASS BAY REFERENCE (1992 AND LATER)

Geographical position (NAD 1927)

42E22Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2405]

2. Permit start date/expire date: (Permitted Project)
   Location: JOHN POLCARI, BRIDGWAYE INN MARINA
   Date issued: 10/03/96 Expire Date: 10/03/01

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. SOUTH RIVER, MARSHFIELD, MA

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 5,000

7. Expected frequency of dumping (for reporting period):
   a. 2 A WEEK
   b. Actual start: 03/01/98
   c. Actual completion: 03/24/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
% SAND	3	0.0000000	3	55.800000	83.100000	72.000000
% CLAY	3	0.0000000	3	6.020000	15.500000	9.920000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE
12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 2
    Site Name: MASSACHUSETTS BAY DISPOSAL SITE
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 12161 feet.

Center of Site is:
42E25'49.0" N 070E34'00.0" W
Depth(ft): Low Depth- 190 High Depth- 302
Nearest Distance from shore (nm): 19.1

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
    Seasonal restrictions were enforced
    Site Monitoring was performed
    Bathymetry Monitoring was performed
    Chemical Monitoring was performed
    Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
    No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
    No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
    No Bioassay testing was done

18. General Comments

%SILT/ CLAY LISTED AS % CLAY
USED VALUE FROM BOTTOM DREDGE
METALS DATA TAKEN FROM THE BOTTOM DREDGE
PAH'S, TOC, AND PESTICIDES NOT TESTED

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2406]

2. Permit start date/expire date: (Permitted Project)
   Location: MADEM, TOWN OF WEYMOUTH
   Date issued: 11/25/97 Expire Date: 11/25/02

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. WEYMOUTH BACK RIVER, WEYMOUTH MA

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 10,700

7. Expected frequency of dumping (for reporting period):
   a. 2 A WEEK
   b. Actual start: 01/26/98
   c. Actual completion: 05/15/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	3	0.3130000	3	5.880000	9.330000	7.130000
MERCURY	4	0.0550000	4	0.505000	0.740000	0.670000
CADMIUM	4	0.3270000	4	2.200000	15.000000	11.670000
LEAD	4	6.2600000	4	91.000000	162.000000	123.250000
CHROMIUM	3	0.3270000	3	86.900000	132.000000	105.330000
COPPER	4	0.3270000	4	74.600000	137.000000	108.150000
NICKEL	3	0.6540000	3	18.800000	21.600000	19.930000
ZINC	4	0.3270000	4	115.000000	190.000000	158.750000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	3	0.0100000	0	0.000000	0.000000	0.000000
CHLORDANE	3	0.0100000	0	0.000000	0.000000	0.000000
DIELDRIN	3	0.0100000	0	0.000000	0.000000	0.000000
ENDOSULFAN	3	0.0100000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	3	0.0100000	0	0.000000	0.000000	0.000000
DDD	3	0.0100000	0	0.000000	0.000000	0.000000
DDE	3	0.0100000	0	0.000000	0.000000	0.000000
DDT	3	0.0100000	0	0.000000	0.000000	0.000000
ENDRIN	3	0.0100000	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	3	0.0100000	0	0.000000	0.000000	0.000000
HEPTACHLOR	3	0.0100000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	3	0.0100000	0	0.000000	0.000000	0.000000
ALPHA-LINDANE	3	0.0100000	0	0.000000	0.000000	0.000000
BETA-LINDANE	3	0.0100000	0	0.000000	0.000000	0.000000
DELTA-LINDANE	3	0.0100000	0	0.000000	0.000000	0.000000
GAMMA-LINDANE	3	0.0100000	0	0.000000	0.000000	0.000000
METHOXYCHLOR	3	0.0100000	0	0.000000	0.000000	0.000000
TOXAPHENE	3	0.0100000	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AROCHLOR 1016	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1221	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1232	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1242	3	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1254	3	0.0000000	0	0.000000	0.000000	0.000000
AROCHLOR 1260	3	0.0100000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
NAPHTHALENE	4	0.3300000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	4	0.3300000	1	0.000000	0.000000	0.170000
BENZO(B)FLUORANTHENE	4	0.3300000	3	0.290000	0.525000	0.440000
ACENAPHTHYLENE	4	0.3300000	0	0.000000	0.000000	0.000000
CHRYSENE	4	0.3300000	1	0.000000	0.000000	0.240000
BENZO(K)FLUORANTHENE	4	0.3300000	1	0.000000	0.000000	0.110000
ACENAPHTHENE	4	0.3300000	0	0.000000	0.000000	0.000000
FLUORANTHENE	4	0.3300000	1	0.000000	0.000000	0.350000
BENZO(GHI)PERYLENE	4	0.3300000	1	0.000000	0.000000	0.170000
FLUORENE	4	0.3300000	0	0.000000	0.000000	0.000000
PYRENE	4	0.3300000	1	0.000000	0.000000	0.310000
ANTHRACENE	4	0.3300000	1	0.000000	0.000000	0.043000
BENZO(A)PYRENE	4	0.3300000	1	0.000000	0.000000	0.220000
INDENO(1,2,3-CD)PYRENE	4	0.3300000	1	0.000000	0.000000	0.140000
PHENANTHRENE	4	0.3300000	1	0.000000	0.000000	0.160000
DIBENZE(A,H)ANTHRACENE	4	0.3300000	3	0.037000	0.671000	0.410000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL ORGANIC CARBON	3	0.0000000	3	1.190000	2.480000	1.670000
% CLAY	3	0.0000000	3	77.900000	93.700000	83.860000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 2
    Site Name: MASSACHUSETTS BAY DISPOSAL SITE
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 12161 feet.

Center of Site is:
42E25'49.0" N 070E34'00.0" W
Depth(ft): Low Depth- 190 High Depth- 302
Nearest Distance from shore (nm): 19.1

Reference Site Location:
Site No: 167
Site Name: MASS BAY REFERENCE (1992 AND LATER)

Geographical position (NAD 1927)

42E22Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

14. Disposal Site Management:
    Seasonal restrictions were enforced
    Site Monitoring was performed
    Bathymetry Monitoring was performed
    Chemical Monitoring was performed
    Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
Ampelisca abdita

17. Bioassay Bioaccumulation Information (Organisms Tested):
Macoma nasuta

18. General Comments

cd,cu,pb,hg,zn all four samples the fourth sample was tested in 1997
PAH'S have four samples the fourth sample tested in 1997
%clay is equal to %silt/clay

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2407]

2. Permit start date/expire date: (Permitted Project)
   Location: CITY OF QUINCY, WOLLASTON & SQUANTUM YACHT CLUB
   Date issued: 06/04/98 Expire Date: 06/04/03

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. QUINCY BAY, QUINCY MA

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 42,200

7. Expected frequency of dumping (for reporting period):
   a. 3 A WEEK
   b. Actual start: 11/04/98
   c. Actual completion: 12/31/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	8	0.0000000	8	4.500000	18.800000	12.960000
MERCURY	8	0.0000000	4	0.200000	0.550000	0.380000
CADMIUM	8	0.0000000	8	0.500000	2.100000	1.320000
LEAD	8	0.0000000	8	7.300000	117.000000	51.410000
CHROMIUM	8	0.0000000	8	8.600000	143.000000	65.220000
COPPER	8	0.0000000	8	8.100000	106.000000	44.250000
NICKEL	8	0.0000000	8	9.600000	27.000000	17.500000
ZINC	8	0.0000000	8	31.800000	156.000000	82.610000

PESTICIDES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ALDRIN	8	0.0100000	0	0.000000	0.000000	0.000000
CHLORDANE	8	0.0100000	0	0.000000	0.000000	0.000000
DIELDRIN	8	0.0100000	0	0.000000	0.000000	0.000000
ENDOSULFAN	8	0.0100000	0	0.000000	0.000000	0.000000
ENDOSULFAN SULFATE	8	0.0100000	0	0.000000	0.000000	0.000000
DDD	8	0.0100000	0	0.000000	0.000000	0.000000
DDE	8	0.0100000	0	0.000000	0.000000	0.000000
DDT	8	0.0100000	0	0.000000	0.000000	0.000000
ENDRIN	8	0.0100000	0	0.000000	0.000000	0.000000
ENDRIN ALDEHYDE	8	0.0100000	0	0.000000	0.000000	0.000000
HEPTACHLOR	8	0.0100000	0	0.000000	0.000000	0.000000
HEPTACHLOR EPOXIDE	8	0.0100000	0	0.000000	0.000000	0.000000
METHOXYCHLOR	8	0.0100000	0	0.000000	0.000000	0.000000
TOXAPHENE	8	0.0100000	0	0.000000	0.000000	0.000000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AROCHLOR 1016	8	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1221	8	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1232	8	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1242	8	0.0100000	0	0.000000	0.000000	0.000000
AROCHLOR 1254	8	0.0000000	0	0.000000	0.000000	0.000000
AROCHLOR 1260	8	0.0100000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
NAPHTHALENE	8	0.0200000	7	0.020000	0.050000	0.030000
BENZO(A)ANTHRACENE	8	0.0200000	4	0.130000	0.280000	0.170000
BENZO(B)FLUORANTHENE	8	0.0200000	4	0.150000	0.260000	0.200000
ACENAPHTHYLENE	8	0.0200000	0	0.000000	0.000000	0.000000
CHRYSENE	8	0.0200000	5	0.020000	0.240000	0.130000
BENZO(K)FLUORANTHENE	8	0.0200000	4	0.040000	0.170000	0.090000
ACENAPHTHENE	8	0.0200000	0	0.000000	0.000000	0.000000
FLUORANTHENE	8	0.0200000	6	0.020000	0.260000	0.130000
BENZO(GHI)PERYLENE	8	0.0200000	4	0.050000	0.850000	0.330000
FLUORENE	8	0.0200000	3	0.030000	0.050000	0.040000
PYRENE	8	0.0200000	7	0.050000	0.400000	0.150000
ANTHRACENE	8	0.0200000	1	0.000000	0.000000	0.070000
BENZO(A)PYRENE	8	0.0200000	3	0.050000	0.360000	0.180000
INDENO(1,2,3-CD)PYRENE	8	0.0200000	1	0.000000	0.000000	0.340000
PHENANTHRENE	8	0.0200000	5	0.020000	0.130000	0.090000
DIBENZE(A,H)ANTHRACENE	8	0.0200000	0	0.000000	0.000000	0.000000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
% MOISTURE	9	0.0000000	9	14.300000	67.600000	42.200000
TOTAL ORGANIC CARBON	9	0.0000000	9	0.800000	5.600000	3.200000
% SAND	9	0.0000000	9	53.000000	78.000000	65.200000
% CLAY	9	0.0000000	9	2.000000	39.000000	28.200000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 2
    Site Name: MASSACHUSETTS BAY DISPOSAL SITE
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 12161 feet.

Center of Site is:
42E25'49.0" N 070E34'00.0" W
Depth(ft): Low Depth- 190 High Depth- 302
Nearest Distance from shore (nm): 19.1

Reference Site Location:
Site No: 167
Site Name: MASS BAY REFERENCE (1992 AND LATER)

Geographical position (NAD 1927)

42E22Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

14. Disposal Site Management:
Seasonal restrictions were enforced
Site Monitoring was performed
Bathymetry Monitoring was performed
Chemical Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
AMPELISCA ABDITA

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

%SILT/CLAY LISTED IN % CLAY
Total disposal volume does not include Jan & Feb 1999 work.

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NAE [DS= 2408]

2. Permit start date/expire date: (Permitted Project)
   Location: MASS HIGHWAY DEPT-- FORT POINT CHANNEL
   Date issued: 05/29/97 Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. FORT PORT CHANNEL, BOSTON MA

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 16,400

7. Expected frequency of dumping (for reporting period):
   a. 2 A WEEK
   b. Actual start: 01/01/98
   c. Actual completion: 03/17/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
ARSENIC	3	0.5000000	3	2.500000	7.600000	5.500000
MERCURY	3	0.3000000	0	0.000000	0.000000	0.000000
CADMIUM	3	0.1000000	3	0.500000	1.300000	0.760000
LEAD	3	5.0000000	3	2.500000	37.000000	16.500000
CHROMIUM	3	0.5000000	3	19.000000	27.000000	22.330000
COPPER	3	5.0000000	3	7.700000	28.000000	16.900000
NICKEL	3	5.0000000	3	12.000000	26.000000	18.330000
ZINC	3	20.0000000	3	43.000000	69.000000	54.660000

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
AROCHLOR 1016	3	0.1300000	0	0.000000	0.000000	0.000000
AROCHLOR 1221	3	0.1300000	0	0.000000	0.000000	0.000000
AROCHLOR 1232	3	0.1300000	0	0.000000	0.000000	0.000000
AROCHLOR 1242	3	0.1300000	0	0.000000	0.000000	0.000000
AROCHLOR 1254	3	0.0000000	0	0.000000	0.000000	0.000000
AROCHLOR 1260	3	0.1300000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
NAPHTHALENE	3	0.1000000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	3	0.1000000	0	0.000000	0.000000	0.000000
BENZO(B)FLUORANTHENE	3	0.1000000	0	0.000000	0.000000	0.000000
ACENAPHTHYLENE	3	0.1000000	0	0.000000	0.000000	0.000000
CHRYSENE	3	0.1000000	0	0.000000	0.000000	0.000000
BENZO(K)FLUORANTHENE	3	0.1000000	0	0.000000	0.000000	0.000000
ACENAPHTHENE	3	0.1000000	0	0.000000	0.000000	0.000000
FLUORANTHENE	3	0.1000000	0	0.000000	0.000000	0.000000
BENZO(GHI)PERYLENE	3	0.1000000	0	0.000000	0.000000	0.000000
FLUORENE	3	0.1000000	0	0.000000	0.000000	0.000000
PYRENE	3	0.1000000	0	0.000000	0.000000	0.000000
ANTHRACENE	3	0.1000000	0	0.000000	0.000000	0.000000
BENZO(A)PYRENE	3	0.1000000	0	0.000000	0.000000	0.000000
INDENO(1,2,3-CD)PYRENE	3	0.1000000	0	0.000000	0.000000	0.000000
PHENANTHRENE	3	0.1000000	0	0.000000	0.000000	0.000000
DIBENZE(A,H)ANTHRACENE	3	0.1000000	0	0.000000	0.000000	0.000000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No. 2
    Site Name: MASSACHUSETTS BAY DISPOSAL SITE
    Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 12161 feet.

Center of Site is:
42E25'49.0" N 070E34'00.0" W
Depth(ft): Low Depth- 190 High Depth- 302
Nearest Distance from shore (nm): 19.1

Reference Site Location:
Site No: 167
Site Name: MASS BAY REFERENCE (1992 AND LATER)

Geographical position (NAD 1927)

42E22Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

14. Disposal Site Management:
    Seasonal restrictions were enforced
    Site Monitoring was performed
    Bathymetry Monitoring was performed
    Chemical Monitoring was performed
    Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
    No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
    Amplesca abdita

17. Bioassay Bioaccumulation Information (Organisms Tested):
    Macoma nasuta

18. General Comments

No grain size or TOC data

19. Point of Contact: PHIL NIMESKERN 978-318-8660

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SAW [DS= 2341]

2. Permit start date/expire date: (Permitted Project)
   Location: MILITARY OCEAN TERMINAL, SUNNY POINT
   Date issued: 03/10/99 Expire Date: 12/31/00

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. SUNNY POINT

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   SLURRY or NONCOHESIVE

6. Total quantity (cubic meters): 1,126,700

7. Expected frequency of dumping (for reporting period):
   a. 5L/D,7D/WK
   b. Actual start: 01/11/98
   c. Actual completion: 03/08/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No.165
Site Name: WILMINGTON HARBOR 1985 -
Geographical position: (NAD 1927)

33E49'30.0" N 078E03'06.0" W 33E48'18.0" N 078E01'39.0" W
33E47'19.0" N 078E02'48.0" W 33E48'30.0" N 078E04'16.0" W

Depth(ft): Low Depth- 43 High Depth- 0
Nearest Distance from shore (nm): 3.0

Reference Site Location:
Site No: 170
Site Name: REFERENCE SITE NOT NEEDED FOR THIS MATERIAL

14. Disposal Site Management:
No disposal management was performed
Site Monitoring was performed
Bathymetry Monitoring was performed
Physical Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

Dredge Wheeler performed this work.

19. Point of Contact: PHIL PAYONK 910-251-4589

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SPL [DS= 2366]

2. Permit start date/expire date: (Permitted Project)
   Location: U.S. NAVY (#9420861-DZ, TURNING BASIN, SAN DIEGO BAY)
   Date issued: 04/04/96 Expire Date: 04/02/01

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. SAN DIEGO BAY, CALIFORNIA

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 935,800

7. Expected frequency of dumping (for reporting period):
   a. 5X/WEEK
   b. Actual start: 01/01/98
   c. Actual completion: 08/10/98

8. Composition of the dredged material.

Chemical Data For This Dredging Project
(ug/g or ppm unless otherwise indicated)

(Data Reported as Dry Weight)

Sediment Chemical Characteristics

METALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
MERCURY	5	0.0020000	4	0.017000	0.320000	0.158000
CADMIUM	5	0.0010000	3	0.002000	0.005000	0.002600
LEAD	5	0.1000000	5	0.020000	0.210000	0.142000
CHROMIUM	5	0.0010000	2	0.001000	0.005000	0.002200
COPPER	5	0.1000000	5	5.000000	30.000000	16.400000
NICKEL	5	0.0010000	0	0.000000	0.000000	0.000000
ZINC	5	0.1000000	5	20.000000	70.000000	43.600000
SELENIUM	5	0.0010000	2	0.007000	0.007000	0.003400
SILVER	5	0.0010000	4	0.001000	0.006000	0.003800

PCB

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PCB	1	0.0050000	0	0.000000	0.000000	0.000000
AROCHLOR 1016	1	0.0050000	0	0.000000	0.000000	0.000000
AROCHLOR 1221	1	0.0050000	0	0.000000	0.000000	0.000000
AROCHLOR 1232	1	0.0050000	0	0.000000	0.000000	0.000000
AROCHLOR 1242	1	0.0050000	0	0.000000	0.000000	0.000000
AROCHLOR 1254	1	0.0000000	0	0.000000	0.000000	0.000000
AROCHLOR 1260	1	0.0050000	0	0.000000	0.000000	0.000000

PAH

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TOTAL PAH	5	0.0000000	3	0.560000	1.030000	0.917000
NAPHTHALENE	5	0.0110000	0	0.000000	0.000000	0.000000
BENZO(A)ANTHRACENE	5	0.0220000	2	0.026000	0.033000	0.025600
BENZO(B)FLUORANTHENE	5	0.0220000	3	0.048000	0.130000	0.070800
ACENAPHTHYLENE	5	0.2400000	0	0.000000	0.000000	0.000000
CHRYSENE	5	0.0220000	2	0.036000	0.049000	0.030800
BENZO(K)FLUORANTHENE	5	0.0220000	2	0.026000	0.028000	0.024600
ACENAPHTHENE	5	0.2400000	0	0.000000	0.000000	0.000000
FLUORANTHENE	5	0.0220000	2	0.041000	0.044000	0.030800
BENZO(GHI)PERYLENE	5	0.0220000	3	0.036000	0.094000	0.052600
FLUORENE	5	0.0220000	0	0.000000	0.000000	0.000000
PYRENE	5	0.0220000	3	0.043000	0.094000	0.051600
ANTHRACENE	5	0.0110000	0	0.000000	0.000000	0.000000
BENZO(A)PYRENE	5	0.0220000	3	0.047000	0.120000	0.062600

INDENO(1,2,3-CD)PYRENE	5	0.0220000	2	0.130000	0.150000	0.069800
PHENANTHRENE	5	0.0110000	2	0.015000	0.017000	0.013200
DIBENZE(A,H)ANTHRACENE	5	0.0440000	1	0.094000	0.094000	0.094000

TINS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
TRIBUTYLTIN	5	0.0010000	2	0.001600	0.003230	0.001570
DIBUTYLTIN	5	0.0010000	0	0.000000	0.000000	0.000000
MONOBUTYLTIN	5	0.0010000	0	0.000000	0.000000	0.000000

CONVENTIONALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
% MOISTURE	5	0.0000000	5	22.100000	32.200000	27.800000
TOTAL SOLIDS	5	0.0000000	0	0.000000	0.000000	0.000000
TOTAL ORGANIC CARBON	5	0.0000000	5	0.130000	0.950000	0.554000
% SAND	5	0.0000000	5	66.000000	93.400000	80.400000
% SILT	5	0.0000000	5	4.800000	20.800000	16.000000
% CLAY	5	0.0000000	5	1.700000	14.300000	7.800000

VOLATILES

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
BENZENE	5	0.0010000	0	0.000000	0.000000	0.000000
CHLOROFORM	5	0.0010000	0	0.000000	0.000000	0.000000
TOLUENE	5	0.0020000	0	0.000000	0.000000	0.000000

BASE NEUTRALS

Chemical Name	# Of Obs	Detection Limit	# > DL	Lowest Value	Highest Value	Mean Value
1,2 DICHLOROBENZENE	5	0.0060000	0	0.000000	0.000000	0.000000
1,3 DICHLOROBENZENE	5	0.0060000	0	0.000000	0.000000	0.000000
1,4 DICHLOROBENZENE	5	0.0060000	0	0.000000	0.000000	0.000000
HEXACHLOROBENZENE	5	0.0040000	0	0.000000	0.000000	0.000000

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 38
Site Name: SAN DIEGO 100 FATHOM (LA-5)
Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 6000 feet.

Center of Site is:
32E36'50.0" N 117E20'40.0" W
Depth(ft): Low Depth- 480 High Depth- 660
Nearest Distance from shore (nm): 6.0

General Comments
Coordinates modified 9/24/96 per David Zoutendyk.

Reference Site Location:
Site No: 191
Site Name: SAN DIEGO REFERENCE SITE

Geographical position:
Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

General Comments
Added by David Zoutendyk on 9/24/96.

14. Disposal Site Management:
Seasonal restrictions were enforced
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
Citharichthys stigmaeus
Strongylocentro purpuratus
Dendraster excentricus
Holmesimysis costata

16. Bioassay Solid Phase Information (Organisms Tested):
Holmesimysis costata
Grandidierella japonica
Nephtys caecoides

17. Bioassay Bioaccumulation Information (Organisms Tested):
Nephtys caecoides

18. General Comments

Several rounds of testing over a few years were completed for the turning basin area, and it would be far to complicated to enter data for all the testing that has been done in this area. Data entered are for sites 2, 3 and 4 composite samples only of turning basin, which were choosen as representatives for the whole area.

19. Point of Contact: DAVID ZOUTENDYK 858-674-5384

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: SPL [DS= 2367]

2. Permit start date/expire date: (Permitted Project)
   Location: U.S. NAVY (#9420861-DZ, MAIN CHANNEL DREDGING)
   Date issued: 04/04/96 Expire Date: 04/02/01

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. SAN DIEGO BAY, CALIFORNIA

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HYDRAULIC DREDGE
   b. Mode of transportation: DUMP SCOW or BARGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 4,815,700

7. Expected frequency of dumping (for reporting period):
   a. 5X/WEEK
   b. Actual start: 01/01/98
   c. Actual completion: 08/10/98

8. Composition of the dredged material.

CHEMICAL DATA FOR THIS PROJECT WAS REPORTED IN 1997

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: DUMP SCOW OR BARGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
Site No. 38
Site Name: SAN DIEGO 100 FATHOM (LA-5)
Geographical position: (NAD 1927)

Disposal site is a circle with a diameter of 6000 feet.

Center of Site is:
32E36'50.0" N 117E20'40.0" W
Depth(ft): Low Depth- 480 High Depth- 660
Nearest Distance from shore (nm): 6.0

General Comments
Coordinates modified 9/24/96 per David Zoutendyk.

Reference Site Location:
Site No: 191
Site Name: SAN DIEGO REFERENCE SITE

Geographical position:
Depth (ft): Low Depth- 0 High Depth- 0
Nearest Distance from shore (nm): 0.0

General Comments
Added by David Zoutendyk on 9/24/96.

14. Disposal Site Management:
Seasonal restrictions were enforced
No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
No Bioassay testing was done

18. General Comments

19. Point of Contact: DAVID ZOUTENDYK 858-674-5384

Report of Ocean Dumping Permits - CY 1998

1. Issuing Authority- District: NWP [DS= 2329]

2. Permit start date/expire date: (Permitted Project)
   Location: PORT OF COOS BAY
   Date issued: / / Expire Date: / /

3. Country of origin of wastes and port of loading:
   a. UNITED STATES OF AMERICA
   b. SITE F ; SITE H

4. Specification of dredged material and process from which derived:
   a. Mode of dredging: HOPPER DREDGE
   b. Mode of transportation: HOPPER DREDGE

5. Form in which dredged material is presented for disposal:
   CLUMPED or COHESIVE

6. Total quantity (cubic meters): 69,600

7. Expected frequency of dumping (for reporting period):
   a.
   b. Actual start: 01/03/98
   c. Actual completion: 03/15/98

8. Composition of the dredged material.

CHEMICAL DATA WAS NOT ACQUIRED FOR THIS PROJECT THIS YEAR

9. Properties: Not Applicable

10. Method of Packaging: Not Applicable

11. Method of release: HOPPER DREDGE

12. Procedure and site for tank washing: NOT APPLICABLE

13. Approved disposal site:
    Site No.999
    Site Name: CORRECT DISPOSAL SITE NOT IN DATABASE
    Site No.999
    Site Name: CORRECT DISPOSAL SITE NOT IN DATABASE

Reference Site Location:
    Site No: 121
    Site Name: REFERENCE SITE NOT REPORTED

14. Disposal Site Management:
    No disposal management was performed
    No Site Monitoring was performed

15. Bioassay Elutriate Information (Organisms Tested):
    No Bioassay testing was done

16. Bioassay Solid Phase Information (Organisms Tested):
    No Bioassay testing was done

17. Bioassay Bioaccumulation Information (Organisms Tested):
    No Bioassay testing was done

18. General Comments

19. Point of Contact: MARK SIIPOLA 503-808-4885