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Exhibit C.1 Oil Types and Volumes (Gallons) spilled into U.S. Waters (1973-90)
from the U.S. Coast Guard Coastal Oil Spill Data Set.

CHRIS CODE	OIL TYPE	NUMBER OF SPILLS	LARGEST SPILL	TOTAL VOLUME
Axx	ASPHALTS	495	111510	782833
CCx	CREOSOTE	254	10000	14813
CHx	CRUDE HYDROCARBON FEEDSTOCK	6	966000	985859
DFE	DISTILLATES FLASH FEEDSTOCK	175	120000	193093
Gxx	GASOLINES	7155	1345683	10753454
JPx	JET FUELS	816	840000	3828917
KRS	KEROSENE	391	442000	1734667
LNG	LIQUIDIFIED NAT. GAS	76	2352	12851
LPG	LIQUIFIED PETRO. GAS	80	126000	273481
MNS	MINERAL SPIRITS	77	8000	19387
Nxx	NAPTHAS	183	109200	160398
OCF	OIL, CLARIFIED	2468	252000	5956817
ODS	DIESEL	6428	237343	1776014
OFR	NO. 4 FUEL OIL	1380	1000000	2333450
OFV	NO. 5 FUEL OIL	192	339360	457740
OIL	CRUDE OIL	41531	10500000	59072725
OLB	LUBRICATING OIL	2866	32000	185190
OMX	MINERAL/MOTOR OIL	3876	1050000	1929301
OOx	NO. 1 FUEL OIL	8414	6000020	11908571
OPT	PENETRATING OIL	445	9999	61283
ORD	ROAD OIL	160	200000	285743
ORG	RANGE OIL	459	1260000	2388506
OSD	SPINDLE OIL	675	4100	36698
OSX	NO. 6 FUEL OIL	7824	7500000	29351645
OSY	SPRAY OIL	963	300000	458327
OTB	TURBINE OIL	686	4400	44550
OTD	NO.2-D FUEL OIL	3725	2041662	4024831
OTW	NO.2 FUEL OIL	8991	1260000	6170111
PTN	PETROLEUM NAPHTHA	43	84000	217449
WCA,WPF	WAXES	71	12000	52758
WTO	WASTE OILS	3538	28000	183245

Exhibit C.2 1987 cargo tons by port, from port needs study (Maio, et al., 1991).

PORT	CRUDE OIL	GASOLINE	JET FUEL	KEROSENE	DISTIL. FUEL	RESID. FUEL	LUBRIC. OIL	LIQUID PETROL.	TOTAL
PORTLAND, ME	3,509,529	1,806,678	36,068	77,409	1,401,896	872,129	1,045,044		8,748,753
PORTSMOUTH, NH		204,422	101,1165	76,975	975,523	678,943		276,235	2,313,263
MASS BAY (BOSTON)	69,329	5,555,568	1,072,776	160,762	6,245,174	4,610,408	107,505	1,190	17,822,712
PROVIDENCE, RI		4,113,118	91,032	70,606	2,813,174	1,079,368	23,323	137,570	8,328,191
LONG ISLAND SOUND		6,858,246	340,852	142,081	6,387,891	3,734,934	35		17,464,039
NY HARBOR, NY	21,026,134	69,534,220	4,379,760	1,690,811	40,089,710	66,855,793	1,845,914	194,520	205,616,862
DELAWARE BAY	19,566,687	4,095,034	259,758	151,378	3,174,576	9,498,950	181,784	165,845	37,094,012
CHES. SOUTH	4,082,102	3,793,159	1,939,939	181,721	4,092,513	13,215,390	153,159	122,267	27,580,250
CHES. NORTH	12,770	2,251,247	673,880	153,169	2,109,124	4,558,946	87,768	1,085	9,847,989
WILMINGTON, NC		721,598	265,641	66,103	463,970	1,640,897	1,131	33,763	3,193,103
JACKSONVILLE, FL	57,864	2,527,855	198,014	11,081	1,160,897	2,331,553	25,732	368	6,313,364
TAMPA, FL	59,356	6,433,835	836,517	16,685	1,828,477	2,397,246	2,723	184,712	11,759,551
MOBILE, AL	50,083,688	15,081,242	4,081,571	84,132	7,863,673	3,954,439	178,042	1,208,241	82,535,028
NEW ORLEANS, LA	41,161,693	7,770,950	1,133,791	548,502	5,567,757	13,499,880	1,201,450	1,785,827	72,669,850
PORT ARTHUR, TX	56,166,351	7,644,221	895,801	354,611	5,032,171	7,334,836	3,088,813	237,952	80,754,756
HOUSTON/GALVESTON, TX	56,205,563	17,415,739	2,134,244	640,545	10,420,739	27,186,804	4,014,688	2,312,732	120,331,054
CORPUS CHRISTI, TX	21,620,987	8,523,719	463,073	181,465	4,839,946	6,398,233	18,938	172,940	42,219,301
LOS ANGELES, CA	24,778,907	2,710,933	887,654	25	2,933,927	16,139,137	778,544	78,546	48,307,673
SANTA BARBARA, CA	23,622,119	1,592,526	523,820	19	1,700,504	3,348,222	498,104	46,087	31,331,401
SAN FRANCISCO, CA	51,575,876	10,246,361	1,692,704	44	5,121,013	22,264,977	1,696,273	918	92,598,166
PORTLAND, OR	771,266	1,342,643	128,307		1,165,202	1,168,754	184,400	84	4,760,656
PUGET SOUND, WA	11,040,962	1,906,218	440,263	3,426	1,294,845	3,808,260	54,438	20,791	18,569,203
ANCHORAGE, AK	133,751	63,577	189,769		59,800	66,792	9,009	32,753	555,451

Exhibit C.3 Percent of 1987 cargo tons by port, from port needs study (Maio, et al., 1991).

PORT	CRUDE OIL	GASOLINE	JET FUEL	KEROSENE	DISTIL. FUEL	RESID. FUEL	LUBRIC. OIL	LIQUID PETROL.
PORTLAND, ME	40.11%	20.65%	0.41%	0.88%	16.02%	9.97%	11.95%	0.00%
PORTSMOUTH, NH	0.00%	8.84%	4.37%	3.33%	42.17%	29.35%	0.00%	11.94%
MASS BAY (BOSTON)	0.39%	31.17%	6.02%	0.90%	35.04%	25.87%	0.60%	0.01%
PROVIDENCE, RI	0.00%	49.39%	1.09%	0.85%	33.78%	12.96%	0.28%	1.65%
LONG ISLAND SOUND	0.00%	39.27%	1.95%	0.81%	36.58%	21.39%	0.00%	0.00%
NY HARBOR, NY	10.23%	33.82%	2.13%	0.82%	19.50%	32.51%	0.90%	0.09%
DELAWARE BAY	52.75%	11.04%	0.70%	0.41%	8.56%	25.61%	0.49%	0.45%
CHES. SOUTH	14.80%	13.75%	7.03%	0.66%	14.84%	47.92%	0.56%	0.44%
CHES. NORTH	0.13%	22.86%	6.84%	1.56%	21.42%	46.29%	0.89%	0.01%
WILMINGTON, NC	0.00%	22.60%	8.32%	2.07%	14.53%	51.39%	0.04%	1.06%
JACKSONVILLE, FL	0.92%	40.04%	3.14%	0.18%	18.39%	36.93%	0.41%	0.01%
TAMPA, FL	0.50%	54.71%	7.11%	0.14%	15.55%	20.39%	0.02%	1.57%
MOBILE, AL	60.68%	18.27%	4.95%	0.10%	9.53%	4.79%	0.22%	1.46%
NEW ORLEANS, LA	56.64%	10.69%	1.56%	0.75%	7.66%	18.58%	1.65%	2.46%
PORT ARTHUR, TX	69.55%	9.47%	1.11%	0.44%	6.23%	9.08%	3.82%	0.29%
HOUSTON/GALVESTON, TX	46.71%	14.47%	1.77%	0.53%	8.66%	22.59%	3.34%	1.92%
CORPUS CHRISTI, TX	51.21%	20.19%	1.10%	0.43%	11.46%	15.15%	0.04%	0.41%
LOS ANGELES, CA	51.29%	5.61%	1.84%	0.00%	6.07%	33.41%	1.61%	0.16%
SANTA BARBARA, CA	75.39%	5.08%	1.67%	0.00%	5.43%	10.69%	1.59%	0.15%
SAN FRANCISCO, CA	55.70%	11.07%	1.83%	0.00%	5.53%	24.04%	1.83%	0.00%
PORTLAND, OR	16.20%	28.20%	2.70%	0.00%	24.48%	24.55%	3.87%	0.00%
PUGET SOUND, WA	59.46%	10.27%	2.37%	0.02%	6.97%	20.51%	0.29%	0.11%
ANCHORAGE, AK	24.08%	11.45%	34.16%	0.00%	10.77%	12.02%	1.62%	5.90%

Exhibit C.4 Oil Spills in U.S. Coastal Waters (Timothy Goodspeed, NOAA Strategic Environm. Assess. Div., pers. comm., Nov. 1991).

Spill Volume (gallons)	# of Incidents		Vol. of Incidents	
	mean	%	mean	%
Sheen	491	5.13%		
Unknown	1,589	16.58%		
0-49	5,100	53.21%	52,516	0.36%
50-99	619	6.45%	39,627	0.27%
100-499	1,006	10.49%	207,956	1.44%
500-999	235	2.45%	153,339	1.06%
1,000-2,499	242	2.52%	363,437	2.51%
2,500-4,999	115	1.20%	400,757	2.77%
5,000-9,999	87	0.91%	593,934	4.10%
10,000-49,999	72	0.75%	1,476,983	10.21%
50,000-99,000	13	0.13%	891,519	6.16%
100,000-999,999	15	0.15%	3,766,625	26.03%
Greater than 1 Million	2	0.02%	6,524,235	45.09%
Totals	9,586	100.00%	14,470,127	100.00%