Table A-01. Summary of surface sediment chemistry from Norfolk CSO five-year monitoring program-Post-backfill April 1999 (Norfolk-monit1)

Event Start Date: *4/23/99*
Event Stop Date: *4/23/99*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	4	/	4	100%	9300	9800	9550	NFK501	L15421-1	0	0
Arsenic	mg/kg, dry wt.	2	/	4	50%	3.5	3.7	3.60	NFK502	L15421-2	3.2	3.3
Beryllium	mg/kg, dry wt.	4	/	4	100%	0.1	0.14	0.118	NFK502	L15421-2	0	0
Cadmium	mg/kg, dry wt.	3	/	4	75%	0.2	0.21	0.207	NFK502	L15421-2	0.19	0.19
Chromium	mg/kg, dry wt.	4	/	4	100%	12	15	13.3	NFK503	L15421-3	0	0
Copper	mg/kg, dry wt.	4	/	4	100%	11	12	11.3	NFK502	L15421-2	0	0
Iron	mg/kg, dry wt.	4	/	4	100%	18000	20000	18800	NFK502	L15421-2	0	0
Lead	mg/kg, dry wt.	4	/	4	100%	4.2	5	4.55	NFK502	L15421-2	0	0
Manganese	mg/kg, dry wt.	4	/	4	100%	230	260	243	NFK501	L15421-1	0	0
Nickel	mg/kg, dry wt.	4	/	4	100%	13	13	13.0	NFK504	L15421-4	0	0
Selenium (total)	mg/kg, dry wt.	0	/	4	0%	0	0				3.1	3.3
Silver	mg/kg, dry wt.	0	/	4	0%	0	0				0.24	0.26
Thallium (total)	mg/kg, dry wt.	0	/	4	0%	0	0				12	13
Zinc	mg/kg, dry wt.	4	/	4	100%	42	46	43.8	NFK501	L15421-1	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	4	/	4	100%	0.05	0.08	0.0650	NFK502	L15421-2	0	0
Method: *EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/	4	0%	0	0				22	22
Aroclor-1221	ug/kg, dry wt.	0	/	4	0%	0	0				22	22
Aroclor-1232	ug/kg, dry wt.	0	/	4	0%	0	0				22	22
Aroclor-1242	ug/kg, dry wt.	0	/	4	0%	0	0				22	22
Aroclor-1248	ug/kg, dry wt.	0	/	4	0%	0	0				22	22
Aroclor-1254	ug/kg, dry wt.	0	/	4	0%	0	0				22	22
Aroclor-1260	ug/kg, dry wt.	0	/	4	0%	0	0				22	22
PCBs (total-calc'd)	ug/kg, dry wt.	0	/	4	0%	0	0				22	22
Method: *EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.89	0.9
1,2-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.89	0.9
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	/	4	0%	0	0				68	69
1,3-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.89	0.9
1,4-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.89	0.9
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				140	140
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				140	140

Table A-01. Summary of surface sediment chemistry from Norfolk CSO five-year monitoring program-Post-backfill April 1999 (Norfolk-monit1)

Event Start Date: *4/23/99*
Event Stop Date: *4/23/99*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
2,4-Dichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
2,4-Dimethylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
2,4-Dinitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0			68	69
2,4-Dinitrotoluene	ug/kg, dry wt.	0	/	4	0%	0	0			14	14
2,6-Dinitrotoluene	ug/kg, dry wt.	0	/	4	0%	0	0			14	14
2-Chloronaphthalene	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
2-Chlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0			68	69
2-Methylnaphthalene	ug/kg, dry wt.	0	/	4	0%	0	0			55	56
2-Methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
2-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			140	140
2-Nitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
3-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			140	140
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	4	0%	0	0			68	69
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	4	0%	0	0			14	14
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			68	69
4-Chloroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			68	69
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
4-Methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
4-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			140	140
4-Nitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0			68	69
Acenaphthene	ug/kg, dry wt.	0	/	4	0%	0	0			14	14
Acenaphthylene	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
Aniline	ug/kg, dry wt.	0	/	4	0%	0	0			68	69
Anthracene	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
Benzidine	ug/kg, dry wt.	0	/	4	0%	0	0			820	830
Benzo(a)anthracene	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
Benzo(a)pyrene	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Benzo(b)fluoranthene	ug/kg, dry wt.	0	/	4	0%	0	0			55	56
Benzo(g,h,i)perylene	ug/kg, dry wt.	2	/	4	50%	70	76	73.0	NFK502	L15421-2	35	35
Benzo(k)fluoranthene	ug/kg, dry wt.	0	/	4	0%	0	0			55	56
Benzoic acid	ug/kg, dry wt.	0	/	4	0%	0	0			140	140
Benzyl alcohol	ug/kg, dry wt.	0	/	4	0%	0	0			35	35

Table A-01. Summary of surface sediment chemistry from Norfolk CSO five-year monitoring program-Post-backfill April 1999 (Norfolk-monit1)

Event Start Date: *4/23/99*
Event Stop Date: *4/23/99*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
bis-chloroisopropyl ether	ug/kg, dry wt.	0	/	4	0%	0	0			68	69
Butyl benzyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
Caffeine	ug/kg, dry wt.	0	/	4	0%	0	0			6.8	6.9
Carbazole	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Chrysene	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
Coprostanol	ug/kg, dry wt.	0	/	4	0%	0	0			350	350
Dibenzo(a,h)anthracene	ug/kg, dry wt.	0	/	4	0%	0	0			55	56
Dibenzofuran	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Diethyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Dimethyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0			14	14
Di-n-butyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
Fluoranthene	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
Fluorene	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
Hexachlorobenzene	ug/kg, dry wt.	1	/	4	25%	0.97	0.97	0.970	NFK502	L15421-2	0.89	0.9
Hexachlorobutadiene	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Hexachloroethane	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Isophorone	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Naphthalene	ug/kg, dry wt.	0	/	4	0%	0	0			55	56
Nitrobenzene	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
N-Nitrosodimethylamine	ug/kg, dry wt.	0	/	4	0%	0	0			140	140
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Pentachlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0			35	35
Phenanthrene	ug/kg, dry wt.	1	/	4	25%	21	21	21.0	NFK501	L15421-1	21	21
Phenol	ug/kg, dry wt.	0	/	4	0%	0	0			140	140
Pyrene	ug/kg, dry wt.	0	/	4	0%	0	0			21	21
Total HPAH (calc'd)	ug/kg, dry wt.	2	/	4	50%	70	76	73.0	NFK502	L15421-2	56	56

Table A-01. Summary of surface sediment chemistry from Norfolk CSO five-year monitoring program-Post-backfill April 1999 (Norfolk-monit1)

Event Start Date: *4/23/99*
Event Stop Date: *4/23/99*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
Total LPAH (calc'd)	ug/kg, dry wt.	1 / 4	25%	21	21	21.0	NFK501	L15421-1	55	56
Method: *PSEP, 1986*										
Clay (percent)	%, dry wt.	0 / 4	0%	0	0				0.1	0.1
Gravel (percent)	%, dry wt.	4 / 4	100%	0.4	0.8	0.500	NFK501	L15421-1	0	0
Sand (percent)	%, dry wt.	4 / 4	100%	94	99	96.5	NFK501	L15421-1	0	0
Silt (percent)	%, dry wt.	4 / 4	100%	1	5.4	3.50	NFK503	L15421-3	0	0
Method: *SM 2540-B*										
Total solids	mg/kg, dry wt.	4 / 4	100%	769000	776000	772000	NFK504	L15421-4	0	0
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	%, dry wt.	4 / 4	100%	0.12	0.31	0.180	NFK503	L15421-3	0	0

Table A-02. Summary of surface (0-10 cm) sediment chemistry from Norfolk CSO five-year monitoring program-6-month post construction October 1999 (Norfolk-monit2a)

Event Start Date: *10/8/99*
Event Stop Date: *10/8/99*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	4	/	4	100%	12000	13000	12300	NFK504	L16628-8	0	0
Arsenic	mg/kg, dry wt.	4	/	4	100%	3.5	5.7	4.25	NFK504	L16628-8	0	0
Beryllium	mg/kg, dry wt.	4	/	4	100%	0.33	0.35	0.338	NFK504	L16628-8	0	0
Cadmium	mg/kg, dry wt.	0	/	4	0%	0	0				0.19	0.21
Calcium (total)	mg/kg, dry wt.	4	/	4	100%	4100	4400	4180	NFK504	L16628-8	0	0
Chromium	mg/kg, dry wt.	4	/	4	100%	14	17	15.3	NFK501	L16628-2	0	0
Copper	mg/kg, dry wt.	4	/	4	100%	13	15	14.0	NFK503	L16628-6	0	0
Iron	mg/kg, dry wt.	4	/	4	100%	21000	22000	21500	NFK504	L16628-8	0	0
Lead	mg/kg, dry wt.	4	/	4	100%	5.2	5.7	5.48	NFK502	L16628-4	0	0
Magnesium (total)	mg/kg, dry wt.	4	/	4	100%	4300	4600	4450	NFK503	L16628-6	0	0
Manganese	mg/kg, dry wt.	4	/	4	100%	280	450	363	NFK504	L16628-8	0	0
Molybdenum	mg/kg, dry wt.	0	/	4	0%	0	0				1.3	1.3
Nickel	mg/kg, dry wt.	4	/	4	100%	13	15	14.3	NFK504	L16628-8	0	0
Potassium (total)	mg/kg, dry wt.	4	/	4	100%	1000	1100	1080	NFK504	L16628-8	0	0
Selenium (total)	mg/kg, dry wt.	0	/	4	0%	0	0				3.2	3.3
Silver	mg/kg, dry wt.	0	/	4	0%	0	0				0.26	0.27
Thallium (total)	mg/kg, dry wt.	0	/	4	0%	0	0				13	13
Zinc	mg/kg, dry wt.	4	/	4	100%	51	54	52.8	NFK503	L16628-6	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	2	/	4	50%	0.04	0.05	0.0450	NFK503	L16628-6	0.03	0.03
Method: *EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/	4	0%	0	0				5.6	5.8
Aroclor-1221	ug/kg, dry wt.	0	/	4	0%	0	0				5.6	5.8
Aroclor-1232	ug/kg, dry wt.	0	/	4	0%	0	0				5.6	5.8
Aroclor-1242	ug/kg, dry wt.	0	/	4	0%	0	0				5.6	5.8
Aroclor-1248	ug/kg, dry wt.	3	/	4	75%	13	120	59.3	NFK503	L16628-6	5.7	5.7
Aroclor-1254	ug/kg, dry wt.	3	/	4	75%	7.5	65	32.8	NFK503	L16628-6	5.7	5.7
Aroclor-1260	ug/kg, dry wt.	0	/	4	0%	0	0				5.6	5.8
PCBs (total-calc'd)	ug/kg, dry wt.	3	/	4	75%	20.5	185	92.2	NFK503	L16628-6	5.7	5.7
Method: *EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.92	0.96
1,2-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.92	0.96
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	/	4	0%	0	0				71	74

Table A-02. Summary of surface (0-10 cm) sediment chemistry from Norfolk CSO five-year monitoring program-6-month post construction October 1999 (Norfolk-monit2a)

Event Start Date: *10/8/99*
Event Stop Date: *10/8/99*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
1,3-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.92	0.96
1,4-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.92	0.96
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				150	150
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				150	150
2,4-Dichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				36	38
2,4-Dimethylphenol	ug/kg, dry wt.	0	/	4	0%	0	0				36	38
2,4-Dinitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0				71	74
2,4-Dinitrotoluene	ug/kg, dry wt.	0	/	4	0%	0	0				15	15
2,6-Dinitrotoluene	ug/kg, dry wt.	0	/	4	0%	0	0				15	15
2-Chloronaphthalene	ug/kg, dry wt.	0	/	4	0%	0	0				21	22
2-Chlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				71	74
2-Methylnaphthalene	ug/kg, dry wt.	0	/	4	0%	0	0				58	60
2-Methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0				36	38
2-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0				150	150
2-Nitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0				36	38
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	4	0%	0	0				36	38
3-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0				150	150
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	4	0%	0	0				71	74
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	4	0%	0	0				15	15
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0				71	74
4-Chloroaniline	ug/kg, dry wt.	0	/	4	0%	0	0				71	74
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	4	0%	0	0				21	22
4-Methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0				36	38
4-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0				150	150
4-Nitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0				71	74
Acenaphthene	ug/kg, dry wt.	0	/	4	0%	0	0				15	15
Acenaphthylene	ug/kg, dry wt.	0	/	4	0%	0	0				21	22
Aniline	ug/kg, dry wt.	0	/	4	0%	0	0				71	74
Anthracene	ug/kg, dry wt.	0	/	4	0%	0	0				21	22
Benzidine	ug/kg, dry wt.	0	/	4	0%	0	0				860	890
Benzo(a)anthracene	ug/kg, dry wt.	2	/	4	50%	28	28	28.0	NFK503	L16628-6	21	22
Benzo(a)pyrene	ug/kg, dry wt.	0	/	4	0%	0	0				36	38
Benzo(b)fluoranthene	ug/kg, dry wt.	0	/	4	0%	0	0				58	60

Table A-02. Summary of surface (0-10 cm) sediment chemistry from Norfolk CSO five-year monitoring program-6-month post construction October 1999 (Norfolk-monit2a)

Event Start Date: *10/8/99*
Event Stop Date: *10/8/99*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Benzo(g,h,i)perylene	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
Benzo(k)fluoranthene	ug/kg, dry wt.	0	/	4	0%	0	0			58	60
Benzoic acid	ug/kg, dry wt.	0	/	4	0%	0	0			150	150
Benzyl alcohol	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	4	0%	0	0			21	22
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	4	/	4	100%	42	71	55.8	NFK503	L16628-6	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0	/	4	0%	0	0			71	74
Butyl benzyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0			21	22
Caffeine	ug/kg, dry wt.	0	/	4	0%	0	0			7.1	7.4
Carbazole	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
Chrysene	ug/kg, dry wt.	2	/	4	50%	29	43	36.0	NFK503	L16628-6	21	22
Coprostanol	ug/kg, dry wt.	0	/	4	0%	0	0			360	380
Dibenzo(a,h)anthracene	ug/kg, dry wt.	0	/	4	0%	0	0			58	60
Dibenzofuran	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
Diethyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
Dimethyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0			15	15
Di-n-butyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0			21	22
Fluoranthene	ug/kg, dry wt.	3	/	4	75%	32	67	52.0	NFK503	L16628-6	22	22
Fluorene	ug/kg, dry wt.	0	/	4	0%	0	0			21	22
Hexachlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0			0.92	0.96
Hexachlorobutadiene	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
Hexachloroethane	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
Isophorone	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
Naphthalene	ug/kg, dry wt.	3	/	4	75%	66	82	71.7	NFK501	L16628-2	59	59
Nitrobenzene	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
N-Nitrosodimethylamine	ug/kg, dry wt.	0	/	4	0%	0	0			150	150
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	/	4	0%	0	0			36	38
Pentachlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0			36	38

Table A-02. Summary of surface (0-10 cm) sediment chemistry from Norfolk CSO five-year monitoring program-6-month post construction October 1999 (Norfolk-monit2a)

Event Start Date: *10/8/99*
Event Stop Date: *10/8/99*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Phenanthrene	ug/kg, dry wt.	2	/	4	50%	29	40	34.5	NFK503	L16628-6	21	22
Phenol	ug/kg, dry wt.	0	/	4	0%	0	0				150	150
Pyrene	ug/kg, dry wt.	3	/	4	75%	29	65	47.3	NFK503	L16628-6	22	22
Total HPAH (calc'd)	ug/kg, dry wt.	3	/	4	75%	61	203	142	NFK503	L16628-6	58	58
Total LPAH (calc'd)	ug/kg, dry wt.	4	/	4	100%	40	96	71.0	NFK502	L16628-4	0	0
Method: *PSEP, 1986*											
Clay (percent)	%, dry wt.	4	/	4	100%	0.7	0.9	0.750	NFK502	L16628-4	0	0
Gravel (percent)	%, dry wt.	4	/	4	100%	0.5	1.1	0.750	NFK503	L16628-6	0	0
Sand (percent)	%, dry wt.	4	/	4	100%	90	96	93.8	NFK501	L16628-2	0	0
Silt (percent)	%, dry wt.	4	/	4	100%	1.8	9.3	5.18	NFK502	L16628-4	0	0
Method: *SM 2540-B*											
Total solids	mg/kg, dry wt.	4	/	4	100%	718000	747000	732000	NFK501	L16628-2	0	0
Method: *SM 5310-B*											
Total Organic Carbon (TOC)	%, dry wt.	4	/	4	100%	0.18	0.37	0.293	NFK502	L16628-4	0	0

Table A-03. Summary of surface (0-2 cm) sediment chemistry from Norfolk CSO five-year monitoring program-6-month post construction October 1999 (Norfolk-monit2a)

Event Start Date: *10/8/99*
Event Stop Date: *10/8/99*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	4	/	4	100%	11000	13000	12300	NFK502	L16628-3	0	0
Arsenic	mg/kg, dry wt.	4	/	4	100%	4	6.3	5.28	NFK504	L16628-7	0	0
Beryllium	mg/kg, dry wt.	4	/	4	100%	0.31	0.38	0.350	NFK502	L16628-3	0	0
Cadmium	mg/kg, dry wt.	0	/	4	0%	0	0				0.2	0.23
Calcium (total)	mg/kg, dry wt.	4	/	4	100%	3800	4500	4200	NFK504	L16628-7	0	0
Chromium	mg/kg, dry wt.	4	/	4	100%	15	18	16.0	NFK504	L16628-7	0	0
Copper	mg/kg, dry wt.	4	/	4	100%	15	19	17.0	NFK502	L16628-3	0	0
Iron	mg/kg, dry wt.	4	/	4	100%	20000	24000	22000	NFK502	L16628-3	0	0
Lead	mg/kg, dry wt.	4	/	4	100%	6.2	9	7.43	NFK502	L16628-3	0	0
Magnesium (total)	mg/kg, dry wt.	4	/	4	100%	4100	4700	4400	NFK504	L16628-7	0	0
Manganese	mg/kg, dry wt.	4	/	4	100%	300	650	505	NFK504	L16628-7	0	0
Molybdenum	mg/kg, dry wt.	0	/	4	0%	0	0				1.3	1.5
Nickel	mg/kg, dry wt.	4	/	4	100%	13	15	14.0	NFK504	L16628-7	0	0
Potassium (total)	mg/kg, dry wt.	4	/	4	100%	1100	1500	1230	NFK502	L16628-3	0	0
Selenium (total)	mg/kg, dry wt.	0	/	4	0%	0	0				3.3	3.9
Silver	mg/kg, dry wt.	0	/	4	0%	0	0				0.26	0.31
Thallium (total)	mg/kg, dry wt.	0	/	4	0%	0	0				13	15
Zinc	mg/kg, dry wt.	4	/	4	100%	52	62	56.0	NFK502	L16628-3	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	4	/	4	100%	0.02	0.04	0.0275	NFK502	L16628-3	0	0
Method: *EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/	4	0%	0	0				5.7	6.5
Aroclor-1221	ug/kg, dry wt.	0	/	4	0%	0	0				5.7	6.5
Aroclor-1232	ug/kg, dry wt.	0	/	4	0%	0	0				5.7	6.5
Aroclor-1242	ug/kg, dry wt.	0	/	4	0%	0	0				5.7	6.5
Aroclor-1248	ug/kg, dry wt.	4	/	4	100%	12	190	66.3	NFK503	L16628-5	0	0
Aroclor-1254	ug/kg, dry wt.	4	/	4	100%	13	120	44.5	NFK503	L16628-5	0	0
Aroclor-1260	ug/kg, dry wt.	0	/	4	0%	0	0				5.7	6.5
PCBs (total-calc'd)	ug/kg, dry wt.	4	/	4	100%	25	310	111	NFK503	L16628-5	0	0
Method: *EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.93	1.1
1,2-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.93	1.1
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	/	4	0%	0	0				71	82

Table A-03. Summary of surface (0-2 cm) sediment chemistry from Norfolk CSO five-year monitoring program-6-month post construction October 1999 (Norfolk-monit2a)

Event Start Date: *10/8/99*
Event Stop Date: *10/8/99*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
1,3-Dichlorobenzene	ug/kg, dry wt.	0 / 4	0%	0	0				0.93	1.1
1,4-Dichlorobenzene	ug/kg, dry wt.	0 / 4	0%	0	0				0.93	1.1
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 4	0%	0	0				150	170
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 4	0%	0	0				150	170
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 4	0%	0	0				36	42
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 4	0%	0	0				36	42
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 4	0%	0	0				71	82
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 4	0%	0	0				15	17
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 4	0%	0	0				15	17
2-Chloronaphthalene	ug/kg, dry wt.	0 / 4	0%	0	0				22	25
2-Chlorophenol	ug/kg, dry wt.	0 / 4	0%	0	0				71	82
2-Methylnaphthalene	ug/kg, dry wt.	0 / 4	0%	0	0				58	67
2-Methylphenol	ug/kg, dry wt.	0 / 4	0%	0	0				36	42
2-Nitroaniline	ug/kg, dry wt.	0 / 4	0%	0	0				150	170
2-Nitrophenol	ug/kg, dry wt.	0 / 4	0%	0	0				36	42
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0 / 4	0%	0	0				36	42
3-Nitroaniline	ug/kg, dry wt.	0 / 4	0%	0	0				150	170
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0 / 4	0%	0	0				71	82
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0 / 4	0%	0	0				15	17
4-Chloro-3-methylphenol	ug/kg, dry wt.	0 / 4	0%	0	0				71	82
4-Chloroaniline	ug/kg, dry wt.	0 / 4	0%	0	0				71	82
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0 / 4	0%	0	0				22	25
4-Methylphenol	ug/kg, dry wt.	0 / 4	0%	0	0				36	42
4-Nitroaniline	ug/kg, dry wt.	0 / 4	0%	0	0				150	170
4-Nitrophenol	ug/kg, dry wt.	0 / 4	0%	0	0				71	82
Acenaphthene	ug/kg, dry wt.	0 / 4	0%	0	0				15	17
Acenaphthylene	ug/kg, dry wt.	0 / 4	0%	0	0				22	25
Aniline	ug/kg, dry wt.	0 / 4	0%	0	0				71	82
Anthracene	ug/kg, dry wt.	0 / 4	0%	0	0				22	25
Benzidine	ug/kg, dry wt.	0 / 4	0%	0	0				860	990
Benzo(a)anthracene	ug/kg, dry wt.	4 / 4	100%	26	57	42.0	NFK502	L16628-3	0	0
Benzo(a)pyrene	ug/kg, dry wt.	2 / 4	50%	53	59	56.0	NFK502	L16628-3	36	39
Benzo(b)fluoranthene	ug/kg, dry wt.	3 / 4	75%	64	110	83.3	NFK502	L16628-3	58	58

Table A-03. Summary of surface (0-2 cm) sediment chemistry from Norfolk CSO five-year monitoring program-6-month post construction October 1999 (Norfolk-monit2a)

Event Start Date: *10/8/99*
Event Stop Date: *10/8/99*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Benzo(g,h,i)perylene	ug/kg, dry wt.	1	/	4	25%	76	76	76.0	NFK501	L16628-1	38	42
Benzo(k)fluoranthene	ug/kg, dry wt.	0	/	4	0%	0	0				58	67
Benzoic acid	ug/kg, dry wt.	3	/	4	75%	170	250	203	NFK502	L16628-3	150	150
Benzyl alcohol	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	4	0%	0	0				22	25
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	4	/	4	100%	98	170	132	NFK502	L16628-3	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0	/	4	0%	0	0				71	82
Butyl benzyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0				22	25
Caffeine	ug/kg, dry wt.	0	/	4	0%	0	0				7.1	8.2
Carbazole	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
Chrysene	ug/kg, dry wt.	4	/	4	100%	32	85	60.5	NFK502	L16628-3	0	0
Coprostanol	ug/kg, dry wt.	0	/	4	0%	0	0				360	420
Dibenzo(a,h)anthracene	ug/kg, dry wt.	0	/	4	0%	0	0				58	67
Dibenzofuran	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
Diethyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
Dimethyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0				15	17
Di-n-butyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0				22	25
Fluoranthene	ug/kg, dry wt.	4	/	4	100%	60	130	96.5	NFK502	L16628-3	0	0
Fluorene	ug/kg, dry wt.	0	/	4	0%	0	0				22	25
Hexachlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.93	1.1
Hexachlorobutadiene	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
Hexachloroethane	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	1	/	4	25%	46	46	46.0	NFK502	L16628-3	36	39
Isophorone	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
Naphthalene	ug/kg, dry wt.	4	/	4	100%	61	90	72.3	NFK501	L16628-1	0	0
Nitrobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
N-Nitrosodimethylamine	ug/kg, dry wt.	0	/	4	0%	0	0				150	170
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	/	4	0%	0	0				36	42
Pentachlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				36	42

Table A-03. Summary of surface (0-2 cm) sediment chemistry from Norfolk CSO five-year monitoring program-6-month post construction October 1999 (Norfolk-monit2a)

Event Start Date: *10/8/99*
Event Stop Date: *10/8/99*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Phenanthrene	ug/kg, dry wt.	4	/ 4	100%	28	80	52.0	NFK503	L16628-5	0	0
Phenol	ug/kg, dry wt.	0	/ 4	0%	0	0				150	170
Pyrene	ug/kg, dry wt.	4	/ 4	100%	59	130	96.3	NFK502	L16628-3	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	4	/ 4	100%	253	617	416	NFK502	L16628-3	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	4	/ 4	100%	108	141	124	NFK503	L16628-5	0	0
Method: *PSEP, 1986*											
Clay (percent)	%, dry wt.	4	/ 4	100%	1.5	3.4	2.38	NFK502	L16628-3	0	0
Gravel (percent)	%, dry wt.	4	/ 4	100%	0.5	1.7	1.03	NFK504	L16628-7	0	0
Sand (percent)	%, dry wt.	4	/ 4	100%	82	91	87.0	NFK503	L16628-5	0	0
Silt (percent)	%, dry wt.	4	/ 4	100%	6.5	14	10.1	NFK504	L16628-7	0	0
Method: *SM 2540-B*											
Total solids	mg/kg, dry wt.	4	/ 4	100%	646000	743000	699000	NFK501	L16628-1	0	0
Method: *SM 5310-B*											
Total Organic Carbon (TOC)	%, dry wt.	4	/ 4	100%	0.41	0.7	0.578	NFK502	L16628-3	0	0

Table A-04. Summary of surface sediment chemistry from Norfolk CSO five-year monitoring program-Supplemental sampling February 2000 (Norfolk-monit2b)

Event Start Date: *2/8/00*
Event Stop Date: *2/8/00*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/	3	0%	0	0			5.6	5.7
Aroclor-1221	ug/kg, dry wt.	0	/	3	0%	0	0			5.6	5.7
Aroclor-1232	ug/kg, dry wt.	0	/	3	0%	0	0			5.6	5.7
Aroclor-1242	ug/kg, dry wt.	0	/	3	0%	0	0			5.6	5.7
Aroclor-1248	ug/kg, dry wt.	1	/	3	33%	170	170	170	NFK503	L17315-3	5.6	5.7
Aroclor-1254	ug/kg, dry wt.	0	/	3	0%	0	0				5.6	5.7
Aroclor-1260	ug/kg, dry wt.	1	/	3	33%	6.7	6.7	6.70	NFK503	L17315-3	5.6	5.7
PCBs (total-calc'd)	ug/kg, dry wt.	1	/	3	33%	176.7	176.7	177	NFK503	L17315-3	5.6	5.7
Method: *PSEP, 1986*											
Clay (percent)	%, dry wt.	1	/	3	33%	0.2	0.2	0.200	NFK503	L17315-3	0.1	0.1
Gravel (percent)	%, dry wt.	3	/	3	100%	0.5	2.3	1.43	NFK503	L17315-3	0	0
Sand (percent)	%, dry wt.	3	/	3	100%	82	97	89.0	NFK501	L17315-1	0	0
Silt (percent)	%, dry wt.	3	/	3	100%	1.8	15	9.60	NFK503	L17315-3	0	0
Method: *SM 2540-B*											
Total solids	mg/kg, dry wt.	3	/	3	100%	743000	748000	746000	NFK503	L17315-3	0	0
Method: *SM 5310-B*											
Total Organic Carbon (TOC)	%, dry wt.	3	/	3	100%	0.34	0.43	0.380	NFK503	L17315-3	0	0

Table A-05. Summary of surface (0-10 cm) sediment chemistry from Norfolk CSO five-year monitoring program-12-month post construction April 2000 (Norfolk-monit3)

Event Start Date: *4/6/00*
Event Stop Date: *4/6/00*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	4	/	4	100%	9400	10000	9700	NFK504	L17647-8	0	0
Arsenic	mg/kg, dry wt.	4	/	4	100%	4.1	6	4.78	NFK504	L17647-8	0	0
Beryllium	mg/kg, dry wt.	4	/	4	100%	0.12	0.17	0.135	NFK504	L17647-8	0	0
Cadmium	mg/kg, dry wt.	0	/	4	0%	0	0				0.2	0.21
Chromium	mg/kg, dry wt.	4	/	4	100%	12	14	13.0	NFK504	L17647-8	0	0
Copper	mg/kg, dry wt.	4	/	4	100%	11	15	12.3	NFK504	L17647-8	0	0
Iron	mg/kg, dry wt.	4	/	4	100%	18000	19000	18800	NFK502	L17647-4	0	0
Lead	mg/kg, dry wt.	4	/	4	100%	5.4	6.7	6.08	NFK504	L17647-8	0	0
Manganese	mg/kg, dry wt.	4	/	4	100%	230	360	280	NFK501	L17647-2	0	0
Nickel	mg/kg, dry wt.	4	/	4	100%	12	14	13.0	NFK504	L17647-8	0	0
Selenium (total)	mg/kg, dry wt.	0	/	4	0%	0	0				3.3	3.4
Silver	mg/kg, dry wt.	0	/	4	0%	0	0				0.26	0.28
Thallium (total)	mg/kg, dry wt.	0	/	4	0%	0	0				13	14
Zinc	mg/kg, dry wt.	4	/	4	100%	44	47	45.5	NFK502	L17647-4	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	0	/	4	0%	0	0				0.03	0.03
Method: *EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/	4	0%	0	0				5.6	5.8
Aroclor-1221	ug/kg, dry wt.	0	/	4	0%	0	0				5.6	5.8
Aroclor-1232	ug/kg, dry wt.	0	/	4	0%	0	0				5.6	5.8
Aroclor-1242	ug/kg, dry wt.	0	/	4	0%	0	0				5.6	5.8
Aroclor-1248	ug/kg, dry wt.	2	/	4	50%	10	180	95.0	NFK503	L17647-6	5.6	5.8
Aroclor-1254	ug/kg, dry wt.	1	/	4	25%	13	13	13.0	NFK504	L17647-8	5.7	5.8
Aroclor-1260	ug/kg, dry wt.	0	/	4	0%	0	0				5.6	5.8
PCBs (total-calc'd)	ug/kg, dry wt.	3	/	4	75%	10	180	67.7	NFK503	L17647-6	5.8	5.8
Method: *EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.92	0.95
1,2-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.92	0.95
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	/	4	0%	0	0				71	73
1,3-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.92	0.95
1,4-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.92	0.95
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				150	150
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				150	150

Table A-05. Summary of surface (0-10 cm) sediment chemistry from Norfolk CSO five-year monitoring program-12-month post construction April 2000 (Norfolk-monit3)

Event Start Date: *4/6/00*
Event Stop Date: *4/6/00*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
2,4-Dichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0			36	37
2,4-Dimethylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			36	37
2,4-Dinitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0			71	73
2,4-Dinitrotoluene	ug/kg, dry wt.	0	/	4	0%	0	0			15	15
2,6-Dinitrotoluene	ug/kg, dry wt.	0	/	4	0%	0	0			15	15
2-Chloronaphthalene	ug/kg, dry wt.	0	/	4	0%	0	0			21	22
2-Chlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0			71	73
2-Methylnaphthalene	ug/kg, dry wt.	0	/	4	0%	0	0			57	59
2-Methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			36	37
2-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			150	150
2-Nitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0			36	37
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	4	0%	0	0			36	37
3-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			150	150
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	4	0%	0	0			71	73
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	4	0%	0	0			15	15
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			71	73
4-Chloroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			71	73
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	4	0%	0	0			21	22
4-Methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			36	37
4-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			150	150
4-Nitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0			71	73
Acenaphthene	ug/kg, dry wt.	0	/	4	0%	0	0			15	15
Acenaphthylene	ug/kg, dry wt.	0	/	4	0%	0	0			21	22
Aniline	ug/kg, dry wt.	0	/	4	0%	0	0			71	73
Anthracene	ug/kg, dry wt.	0	/	4	0%	0	0			21	22
Benzidine	ug/kg, dry wt.	0	/	4	0%	0	0			860	890
Benzo(a)anthracene	ug/kg, dry wt.	0	/	4	0%	0	0			21	22
Benzo(a)pyrene	ug/kg, dry wt.	0	/	4	0%	0	0			36	37
Benzo(b)fluoranthene	ug/kg, dry wt.	0	/	4	0%	0	0			57	59
Benzo(g,h,i)perylene	ug/kg, dry wt.	0	/	4	0%	0	0			36	37
Benzo(k)fluoranthene	ug/kg, dry wt.	0	/	4	0%	0	0			57	59
Benzoic acid	ug/kg, dry wt.	3	/	4	75%	150	210	170	NFK501	L17647-2	150	150
Benzyl alcohol	ug/kg, dry wt.	0	/	4	0%	0	0				36	37

Table A-05. Summary of surface (0-10 cm) sediment chemistry from Norfolk CSO five-year monitoring program-12-month post construction April 2000 (Norfolk-monit3)

Event Start Date: *4/6/00*
Event Stop Date: *4/6/00*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
bis(2-chloroethyl)ether	ug/kg, dry wt.	0 / 4	0%	0	0				21	22
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	4 / 4	100%	70	210	121	NFK504	L17647-8	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0 / 4	0%	0	0				71	73
Butyl benzyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				21	22
Caffeine	ug/kg, dry wt.	0 / 4	0%	0	0				7.1	7.3
Carbazole	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
Chrysene	ug/kg, dry wt.	1 / 4	25%	35	35	35.0	NFK504	L17647-8	22	22
Coprostanol	ug/kg, dry wt.	0 / 4	0%	0	0				360	370
Dibenzo(a,h)anthracene	ug/kg, dry wt.	0 / 4	0%	0	0				57	59
Dibenzofuran	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
Diethyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
Dimethyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				15	15
Di-n-butyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
Di-n-octyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				21	22
Fluoranthene	ug/kg, dry wt.	3 / 4	75%	26	64	38.7	NFK504	L17647-8	22	22
Fluorene	ug/kg, dry wt.	0 / 4	0%	0	0				21	22
Hexachlorobenzene	ug/kg, dry wt.	0 / 4	0%	0	0				0.92	0.95
Hexachlorobutadiene	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
Hexachlorocyclopentadiene	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
Hexachloroethane	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
Isophorone	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
Naphthalene	ug/kg, dry wt.	0 / 4	0%	0	0				57	59
Nitrobenzene	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
N-Nitrosodimethylamine	ug/kg, dry wt.	0 / 4	0%	0	0				150	150
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
N-Nitrosodiphenylamine	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
Pentachlorophenol	ug/kg, dry wt.	0 / 4	0%	0	0				36	37
Phenanthrene	ug/kg, dry wt.	0 / 4	0%	0	0				21	22
Phenol	ug/kg, dry wt.	0 / 4	0%	0	0				150	150
Pyrene	ug/kg, dry wt.	1 / 4	25%	48	48	48.0	NFK504	L17647-8	22	22
Total HPAH (calc'd)	ug/kg, dry wt.	3 / 4	75%	26	147	66.3	NFK504	L17647-8	58	58

Table A-05. Summary of surface (0-10 cm) sediment chemistry from Norfolk CSO five-year monitoring program-12-month post construction April 2000 (Norfolk-monit3)

Event Start Date: *4/6/00*
Event Stop Date: *4/6/00*

Parameter Name	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
Total LPAH (calc'd)	ug/kg, dry wt.	0 / 4	0%	0	0				57	59
Method: *PSEP, 1986*										
Clay (percent)	%, dry wt.	2 / 4	50%	0.1	0.1	0.100	NFK501	L17647-2	0.1	0.1
Gravel (percent)	%, dry wt.	4 / 4	100%	0.3	1.1	0.700	NFK502	L17647-4	0	0
Sand (percent)	%, dry wt.	4 / 4	100%	90	96	93.3	NFK503	L17647-6	0	0
Silt (percent)	%, dry wt.	4 / 4	100%	3.5	9.1	5.83	NFK504	L17647-8	0	0
Method: *SM 2540-B*										
Total solids	mg/kg, dry wt.	4 / 4	100%	723000	748000	734000	NFK504	L17647-8	0	0
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	%, dry wt.	4 / 4	100%	0.14	0.3	0.218	NFK504	L17647-8	0	0

Table A-06. Summary of surface (0-2 cm) sediment chemistry from Norfolk CSO five-year monitoring program-12-month post construction April 2000 (Norfolk-monit3)

Event Start Date: *4/6/00*
Event Stop Date: *4/6/00*

Parameter Name	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	4	/	4	100%	9800	13000	11000	NFK504	L17647-7	0	0
Arsenic	mg/kg, dry wt.	4	/	4	100%	5	7.3	5.68	NFK504	L17647-7	0	0
Beryllium	mg/kg, dry wt.	4	/	4	100%	0.14	0.21	0.163	NFK504	L17647-7	0	0
Cadmium	mg/kg, dry wt.	0	/	4	0%	0	0				0.2	0.23
Chromium	mg/kg, dry wt.	4	/	4	100%	13	22	16.8	NFK504	L17647-7	0	0
Copper	mg/kg, dry wt.	4	/	4	100%	13	18	14.5	NFK504	L17647-7	0	0
Iron	mg/kg, dry wt.	4	/	4	100%	18000	20000	19000	NFK504	L17647-7	0	0
Lead	mg/kg, dry wt.	4	/	4	100%	6.4	8.7	7.15	NFK504	L17647-7	0	0
Manganese	mg/kg, dry wt.	4	/	4	100%	250	460	328	NFK501	L17647-1	0	0
Nickel	mg/kg, dry wt.	4	/	4	100%	13	16	14.5	NFK504	L17647-7	0	0
Selenium (total)	mg/kg, dry wt.	0	/	4	0%	0	0				3.3	3.8
Silver	mg/kg, dry wt.	0	/	4	0%	0	0				0.26	0.3
Thallium (total)	mg/kg, dry wt.	0	/	4	0%	0	0				13	15
Zinc	mg/kg, dry wt.	4	/	4	100%	46	56	49.8	NFK504	L17647-7	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	4	/	4	100%	0.02	0.06	0.0400	NFK502	L17647-3	0	0
Method: *EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/	4	0%	0	0				5.5	6.4
Aroclor-1221	ug/kg, dry wt.	0	/	4	0%	0	0				5.5	6.4
Aroclor-1232	ug/kg, dry wt.	0	/	4	0%	0	0				5.5	6.4
Aroclor-1242	ug/kg, dry wt.	0	/	4	0%	0	0				5.5	6.4
Aroclor-1248	ug/kg, dry wt.	4	/	4	100%	6.6	270	88.6	NFK503	L17647-5	0	0
Aroclor-1254	ug/kg, dry wt.	0	/	4	0%	0	0				5.5	6.4
Aroclor-1260	ug/kg, dry wt.	0	/	4	0%	0	0				5.5	6.4
PCBs (total-calc'd)	ug/kg, dry wt.	4	/	4	100%	6.6	270	88.6	NFK503	L17647-5	0	0
Method: *EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.91	1.1
1,2-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.91	1.1
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	/	4	0%	0	0				70	81
1,3-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				0.91	1.1
1,4-Dichlorobenzene	ug/kg, dry wt.	2	/	4	50%	0.99	1.3	1.15	NFK502	L17647-3	0.95	1.1
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				140	170
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				140	170

Table A-06. Summary of surface (0-2 cm) sediment chemistry from Norfolk CSO five-year monitoring program-12-month post construction April 2000 (Norfolk-monit3)

Event Start Date: *4/6/00*
Event Stop Date: *4/6/00*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
2,4-Dichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0			35	41
2,4-Dimethylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			35	41
2,4-Dinitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0			70	81
2,4-Dinitrotoluene	ug/kg, dry wt.	0	/	4	0%	0	0			14	17
2,6-Dinitrotoluene	ug/kg, dry wt.	0	/	4	0%	0	0			14	17
2-Chloronaphthalene	ug/kg, dry wt.	0	/	4	0%	0	0			21	24
2-Chlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0			70	81
2-Methylnaphthalene	ug/kg, dry wt.	0	/	4	0%	0	0			57	66
2-Methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			35	41
2-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			140	170
2-Nitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0			35	41
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	4	0%	0	0			35	41
3-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			140	170
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	4	0%	0	0			70	81
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	4	0%	0	0			14	17
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			70	81
4-Chloroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			70	81
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	4	0%	0	0			21	24
4-Methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0			35	41
4-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0			140	170
4-Nitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0			70	81
Acenaphthene	ug/kg, dry wt.	0	/	4	0%	0	0			14	17
Acenaphthylene	ug/kg, dry wt.	0	/	4	0%	0	0			21	24
Aniline	ug/kg, dry wt.	0	/	4	0%	0	0			70	81
Anthracene	ug/kg, dry wt.	0	/	4	0%	0	0			21	24
Benzidine	ug/kg, dry wt.	0	/	4	0%	0	0			840	980
Benzo(a)anthracene	ug/kg, dry wt.	2	/	4	50%	37	66	51.5	NFK504	L17647-7	22	22
Benzo(a)pyrene	ug/kg, dry wt.	2	/	4	50%	41	59	50.0	NFK504	L17647-7	37	37
Benzo(b)fluoranthene	ug/kg, dry wt.	2	/	4	50%	57	110	83.5	NFK504	L17647-7	59	59
Benzo(g,h,i)perylene	ug/kg, dry wt.	1	/	4	25%	44	44	44.0	NFK504	L17647-7	35	37
Benzo(k)fluoranthene	ug/kg, dry wt.	0	/	4	0%	0	0				57	66
Benzoic acid	ug/kg, dry wt.	4	/	4	100%	230	380	275	NFK504	L17647-7	0	0
Benzyl alcohol	ug/kg, dry wt.	0	/	4	0%	0	0				35	41

Table A-06. Summary of surface (0-2 cm) sediment chemistry from Norfolk CSO five-year monitoring program-12-month post construction April 2000 (Norfolk-monit3)

Event Start Date: *4/6/00*
Event Stop Date: *4/6/00*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
bis(2-chloroethyl)ether	ug/kg, dry wt.	0 / 4	0%	0	0				21	24
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	4 / 4	100%	120	410	228	NFK504	L17647-7	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0 / 4	0%	0	0				70	81
Butyl benzyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				21	24
Caffeine	ug/kg, dry wt.	0 / 4	0%	0	0				7	8.1
Carbazole	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
Chrysene	ug/kg, dry wt.	4 / 4	100%	29	95	54.0	NFK504	L17647-7	0	0
Coprostanol	ug/kg, dry wt.	0 / 4	0%	0	0				350	410
Dibenzo(a,h)anthracene	ug/kg, dry wt.	0 / 4	0%	0	0				57	66
Dibenzofuran	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
Diethyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
Dimethyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				14	17
Di-n-butyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
Di-n-octyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				21	24
Fluoranthene	ug/kg, dry wt.	4 / 4	100%	52	180	96.5	NFK504	L17647-7	0	0
Fluorene	ug/kg, dry wt.	0 / 4	0%	0	0				21	24
Hexachlorobenzene	ug/kg, dry wt.	0 / 4	0%	0	0				0.91	1.1
Hexachlorobutadiene	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
Hexachlorocyclopentadiene	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
Hexachloroethane	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	1 / 4	25%	52	52	52.0	NFK504	L17647-7	35	37
Isophorone	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
Naphthalene	ug/kg, dry wt.	0 / 4	0%	0	0				57	66
Nitrobenzene	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
N-Nitrosodimethylamine	ug/kg, dry wt.	0 / 4	0%	0	0				140	170
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
N-Nitrosodiphenylamine	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
Pentachlorophenol	ug/kg, dry wt.	0 / 4	0%	0	0				35	41
Phenanthrene	ug/kg, dry wt.	4 / 4	100%	25	77	43.0	NFK504	L17647-7	0	0
Phenol	ug/kg, dry wt.	0 / 4	0%	0	0				140	170
Pyrene	ug/kg, dry wt.	4 / 4	100%	38	160	78.8	NFK504	L17647-7	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	4 / 4	100%	121	766	346	NFK504	L17647-7	0	0

Table A-06. Summary of surface (0-2 cm) sediment chemistry from Norfolk CSO five-year monitoring program-12-month post construction April 2000 (Norfolk-monit3)

Event Start Date: *4/6/00*
Event Stop Date: *4/6/00*

Parameter Name	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
Total LPAH (calc'd)	ug/kg, dry wt.	4 / 4	100%	25	77	43.0	NFK504	L17647-7	0	0
Method: *PSEP, 1986*										
Clay (percent)	%, dry wt.	4 / 4	100%	0.1	0.9	0.500	NFK504	L17647-7	0	0
Gravel (percent)	%, dry wt.	4 / 4	100%	0.1	1	0.600	NFK504	L17647-7	0	0
Sand (percent)	%, dry wt.	4 / 4	100%	74	94	84.8	NFK503	L17647-5	0	0
Silt (percent)	%, dry wt.	4 / 4	100%	5.9	24	14.5	NFK504	L17647-7	0	0
Method: *SM 2540-B*										
Total solids	mg/kg, dry wt.	4 / 4	100%	656000	761000	719000	NFK501	L17647-1	0	0
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	%, dry wt.	4 / 4	100%	0.33	0.79	0.540	NFK504	L17647-7	0	0

Table A-07. Summary of surface sediment chemistry from sediment quality monitoring in Puget Sound. Year 2-Central Puget Sound (PSAMP/NOAA98)

Event Start Date: *6/3/98*
Event Stop Date: *8/28/98*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 200.7*											
Aluminum (total)	mg/kg, dry wt.	3	/	3	100%	9470	16800	14100	203	203	0	0
Barium	mg/kg, dry wt.	3	/	3	100%	32.7	64.5	52.6	203	203	0	0
Calcium (total)	mg/kg, dry wt.	3	/	3	100%	4520	5580	5040	203	203	0	0
Chromium	mg/kg, dry wt.	3	/	3	100%	18.3	25.1	22.8	205	205	0	0
Cobalt (total)	mg/kg, dry wt.	3	/	3	100%	5	7.73	6.61	205	205	0	0
Copper (total)	mg/kg, wet wt.	3	/	3	100%	35	62.3	47.0	203	203	0	0
Dibutyltin	ug/kg, dry wt.	3	/	3	100%	20	41	29.7	203	203	0	0
Iron	mg/kg, dry wt.	3	/	3	100%	15500	23900	20900	203	203	0	0
Magnesium (total)	mg/kg, dry wt.	3	/	3	100%	3970	6590	5520	203	203	0	0
Manganese (total)	mg/kg, dry wt.	3	/	3	100%	164	257	219	203	203	0	0
Nickel (total)	mg/kg, dry wt.	3	/	3	100%	11	19.3	16.0	203	203	0	0
Potassium (total)	mg/kg, dry wt.	3	/	3	100%	1370	2340	1900	203	203	0	0
Sodium (total)	mg/kg, dry wt.	3	/	3	100%	6170	9620	8060	203	203	0	0
Titanium	mg/kg, dry wt.	3	/	3	100%	650	985	835	205	205	0	0
Vanadium	mg/kg, dry wt.	3	/	3	100%	37.9	56.7	49.5	205	205	0	0
Zinc (total)	mg/kg, dry wt.	3	/	3	100%	71.4	93.3	82.4	203	203	0	0
Method: *EPA 204.2*											
Antimony (total)	mg/kg, dry wt.	3	/	3	100%	0.83	1.7	1.14	203	203	0	0
Method: *EPA 245.5*											
Mercury (total)	mg/kg, wet wt.	3	/	3	100%	0.07	0.15	0.100	203	203	0	0
Method: *EPA 270.2*											
Selenium (total)	mg/kg, dry wt.	1	/	3	33%	0.45	0.45	0.450	203	203	0.3	0.3
Method: *EPA 279.2*											
Thallium (total)	mg/kg, dry wt.	0	/	3	0%	0	0				0.3	0.3
Method: *EPA 282.2*											
Tin	mg/kg, dry wt.	3	/	3	100%	5	7.78	6.24	203	203	0	0
Method: *EPA 6020*											
Antimony (total)	mg/kg, dry wt.	2	/	3	67%	0.22	0.25	0.235	203	203	0.2	0.2
Beryllium	mg/kg, dry wt.	3	/	3	100%	0.19	0.37	0.310	205	205	0	0
Cadmium (total)	mg/kg, wet wt.	3	/	3	100%	0.28	0.29	0.287	203	203	0	0
Lead	mg/kg, dry wt.	3	/	3	100%	26.2	41.5	32.8	203	203	0	0
Silver (total)	mg/kg, dry wt.	3	/	3	100%	0.36	0.45	0.397	204	204	0	0

Table A-07. Summary of surface sediment chemistry from sediment quality monitoring in Puget Sound. Year 2-Central Puget Sound (PSAMP/NOAA98)

Event Start Date: *6/3/98*
Event Stop Date: *8/28/98*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6020*											
Thallium (total)	mg/kg, dry wt.	2	/	3	67%	0.13	0.27	0.200	205	205	0.1	0.1
Method: *EPA 7060*											
Arsenic (total)	mg/kg, wet wt.	3	/	3	100%	7.24	10.5	8.86	203	203	0	0
Pyrene-D10	%, dry wt.	3	/	3	100%	60	62	61.0	204	204	0	0
Method: *Krone et al. 1989*											
Tributyltin as Cl	ug/kg, dry wt.	3	/	3	100%	62	132	88.3	203	203	0	0
Tripentyltin Chloride	%, dry wt.	2	/	2	100%	148	161	155	203	203	0	0
Method: *PSEP, 1997*											
Total Organic Carbon (TOC)	%, dry wt.	3	/	3	100%	1.13	1.5	1.32	203	203	0	0
Method: *SW6010A*											
Aluminum (total)	mg/kg, dry wt.	3	/	3	100%	74800	91600	82500	203	203	0	0
Barium	mg/kg, dry wt.	3	/	3	100%	393	421	406	204	204	0	0
Beryllium	mg/kg, dry wt.	3	/	3	100%	1.1	1.3	1.17	205	205	0	0
Cadmium (total)	mg/kg, wet wt.	3	/	3	100%	1	1.3	1.13	203	203	0	0
Calcium (total)	mg/kg, dry wt.	3	/	3	100%	23800	28100	25400	204	204	0	0
Chromium	mg/kg, dry wt.	3	/	3	100%	50.5	61.4	56.0	203	203	0	0
Cobalt (total)	mg/kg, dry wt.	3	/	3	100%	11	14	12.3	203	203	0	0
Copper (total)	mg/kg, wet wt.	3	/	3	100%	43.2	64.4	51.0	203	203	0	0
Iron	mg/kg, dry wt.	3	/	3	100%	40100	42700	41500	203	203	0	0
Lead	mg/kg, dry wt.	3	/	3	100%	22	40	30.3	203	203	0	0
Magnesium (total)	mg/kg, dry wt.	3	/	3	100%	14400	16500	15700	203	203	0	0
Manganese (total)	mg/kg, dry wt.	3	/	3	100%	592	647	612	204	204	0	0
Nickel (total)	mg/kg, dry wt.	3	/	3	100%	27	31	29.0	205	205	0	0
Potassium (total)	mg/kg, dry wt.	3	/	3	100%	12000	14100	13300	204	204	0	0
Silicon	mg/kg, dry wt.	3	/	3	100%	251000	271000	262000	204	204	0	0
Silver (total)	mg/kg, dry wt.	0	/	3	0%	0	0				1	1
Sodium (total)	mg/kg, dry wt.	3	/	3	100%	28500	29800	29100	203	203	0	0
Titanium	mg/kg, dry wt.	3	/	3	100%	4640	4690	4670	205	205	0	0
Vanadium	mg/kg, dry wt.	3	/	3	100%	104	114	110	205	205	0	0
Zinc (total)	mg/kg, dry wt.	3	/	3	100%	112	137	124	203	203	0	0
Method: *SW8081*											
2,2',4,5'-Tetrachlorobiphenyl	%, dry wt.	3	/	3	100%	61	88	78.0	204	204	0	0
2,4'-DDD	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9

Table A-07. Summary of surface sediment chemistry from sediment quality monitoring in Puget Sound. Year 2-Central Puget Sound (PSAMP/NOAA98)

Event Start Date: *6/3/98*
Event Stop Date: *8/28/98*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *SW8081*											
2,4'-DDE	ug/kg, dry wt.	0	/	3	0%	0	0			0.63	2.9
2,4'-DDT	ug/kg, dry wt.	0	/	3	0%	0	0			0.63	2.9
4,4'-DDD	ug/kg, dry wt.	3	/	3	100%	2.2	6.4	3.80	205	205	0	0
4,4'-DDE	ug/kg, dry wt.	3	/	3	100%	3.7	12	6.47	205	205	0	0
4,4'-DDT	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	3.3
Aldrin	ug/kg, dry wt.	0	/	3	0%	0	0				1.6	5.8
alpha-BHC	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
alpha-Chlordane	ug/kg, dry wt.	0	/	3	0%	0	0				0.81	5.8
alpha-Endosulfan	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
Aroclor-1016	ug/kg, dry wt.	0	/	3	0%	0	0				6.3	29
Aroclor-1221	ug/kg, dry wt.	0	/	3	0%	0	0				6.3	29
Aroclor-1232	ug/kg, dry wt.	0	/	3	0%	0	0				6.3	29
Aroclor-1242	ug/kg, dry wt.	2	/	3	67%	39	50	44.5	205	205	8.1	8.1
Aroclor-1248	ug/kg, dry wt.	0	/	3	0%	0	0				6.3	58
Aroclor-1254	ug/kg, dry wt.	3	/	3	100%	84	300	157	205	205	0	0
Aroclor-1260	ug/kg, dry wt.	3	/	3	100%	95	320	178	205	205	0	0
beta-BHC	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
beta-Endosulfan	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
delta-BHC	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
Dieldrin	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
Endosulfan sulfate	ug/kg, dry wt.	0	/	3	0%	0	0				7.6	23
Endrin	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
Endrin aldehyde	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
Endrin ketone	ug/kg, dry wt.	0	/	3	0%	0	0				2.5	5.8
gamma-BHC (Lindane)	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
Heptachlor	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
Heptachlor epoxide	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
Methoxychlor	ug/kg, dry wt.	0	/	3	0%	0	0				3.8	5.8
Mirex	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
Oxychlordane	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
PBB-153	%, dry wt.	3	/	3	100%	53	97	72.3	203	203	0	0
PCB-101	ug/kg, dry wt.	3	/	3	100%	9.8	35	18.3	205	205	0	0
PCB-105	ug/kg, dry wt.	3	/	3	100%	3.3	17	8.60	205	205	0	0

Table A-07. Summary of surface sediment chemistry from sediment quality monitoring in Puget Sound. Year 2-Central Puget Sound (PSAMP/NOAA98)

Event Start Date: *6/3/98*
Event Stop Date: *8/28/98*

ParameterName	Units	Det. Freq.			Detected Concentration Summary						Reporting Limit Summary	
						Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *SW8081*												
PCB-118	ug/kg, dry wt.	3	/	3	100%	3.9	29	13.4	205	205	0	0
PCB-126	ug/kg, dry wt.	0	/	3	0%	0	0				6.5	35
PCB-128	ug/kg, dry wt.	3	/	3	100%	3.5	5.6	4.40	205	205	0	0
PCB-138	ug/kg, dry wt.	3	/	3	100%	11	38	21.0	205	205	0	0
PCB-153	ug/kg, dry wt.	3	/	3	100%	10	36	19.7	205	205	0	0
PCB-170	ug/kg, dry wt.	3	/	3	100%	5.2	16	9.23	205	205	0	0
PCB-18	ug/kg, dry wt.	2	/	3	67%	2.8	6.8	4.80	204	204	0.81	0.81
PCB-180	ug/kg, dry wt.	3	/	3	100%	8.1	25	13.9	205	205	0	0
PCB-187	ug/kg, dry wt.	3	/	3	100%	4.9	16	9.07	205	205	0	0
PCB-195	ug/kg, dry wt.	3	/	3	100%	0.76	2.3	1.35	205	205	0	0
PCB-206	ug/kg, dry wt.	3	/	3	100%	0.58	2.2	1.29	205	205	0	0
PCB-209	ug/kg, dry wt.	3	/	3	100%	0.4	1.4	0.763	205	205	0	0
PCB-28	ug/kg, dry wt.	2	/	3	67%	11	24	17.5	205	205	0.81	0.81
PCB-44	ug/kg, dry wt.	3	/	3	100%	2.3	8.8	5.27	205	205	0	0
PCB-52	ug/kg, dry wt.	3	/	3	100%	4.4	22	11.1	205	205	0	0
PCB-66	ug/kg, dry wt.	3	/	3	100%	6.5	24	12.8	205	205	0	0
PCB-77	ug/kg, dry wt.	0	/	3	0%	0	0				6.5	35
PCB-8	ug/kg, dry wt.	1	/	3	33%	1.7	1.7	1.70	204	204	0.81	2.9
Toxaphene	ug/kg, dry wt.	0	/	3	0%	0	0				38	170
Trans-Chlordane (Gamma)	ug/kg, dry wt.	0	/	3	0%	0	0				0.81	2.9
Trans-Nonachlor	ug/kg, dry wt.	0	/	3	0%	0	0				0.81	2.9
Tripentyltin Chloride	%, dry wt.	1	/	1	100%	141	141	141	204	204	0	0
Method: *SW8270*												
1,2,4-Trichlorobenzene	ug/kg, dry wt.	1	/	3	33%	0.76	0.76	0.760	204	204	7	26
1,2-Dichlorobenzene	ug/kg, dry wt.	2	/	3	67%	1.4	6.4	3.90	204	204	7	7
1,2-Dichlorobenzene-D4	%, dry wt.	3	/	3	100%	36	62	51.3	204	204	0	0
1,3-Dichlorobenzene	ug/kg, dry wt.	1	/	3	33%	0.83	0.83	0.830	204	204	7	26
1,4-Dichlorobenzene	ug/kg, dry wt.	2	/	3	67%	5.3	9.9	7.60	204	204	7	7
1-Methylnaphthalene	ug/kg, dry wt.	3	/	3	100%	13	41	23.0	205	205	0	0
1-Methylnaphthalene-D10	%, dry wt.	3	/	3	100%	38	57	50.7	205	205	0	0
1-Methylphenanthrene	ug/kg, dry wt.	3	/	3	100%	27	92	48.7	205	205	0	0
2,3,5-Trimethylnaphthalene	ug/kg, dry wt.	3	/	3	100%	18	71	37.0	205	205	0	0
2,4-Dimethylphenol	ug/kg, dry wt.	0	/	3	0%	0	0				5.9	26

Table A-07. Summary of surface sediment chemistry from sediment quality monitoring in Puget Sound. Year 2-Central Puget Sound (PSAMP/NOAA98)

Event Start Date: *6/3/98*
Event Stop Date: *8/28/98*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *SW8270*											
2,6-Dimethylnaphthalene	ug/kg, dry wt.	3	/	3	100%	33	82	54.3	205	205	0	0
2,6-Dimethylnaphthalene-D12	%, dry wt.	3	/	3	100%	47	60	55.3	204	204	0	0
2-Fluorobiphenyl	%, dry wt.	3	/	3	100%	73	85	81.0	204	204	0	0
2-Fluorophenol	%, dry wt.	3	/	3	100%	75	78	76.7	203	203	0	0
2-Methylnaphthalene	ug/kg, dry wt.	3	/	3	100%	28	81	46.0	205	205	0	0
2-Methylnaphthalene-D10	%, dry wt.	3	/	3	100%	37	58	50.7	204	204	0	0
2-Methylphenanthrene	ug/kg, dry wt.	3	/	3	100%	31	123	65.0	205	205	0	0
2-Methylphenol	ug/kg, dry wt.	0	/	3	0%	0	0				5.9	26
4-Methylphenol	ug/kg, dry wt.	2	/	3	67%	712	6250	3480	205	205	7	7
Acenaphthene	ug/kg, dry wt.	3	/	3	100%	20	78	41.0	205	205	0	0
Acenaphthene-D10	%, dry wt.	3	/	3	100%	51	60	56.7	204	204	0	0
Acenaphthylene	ug/kg, dry wt.	3	/	3	100%	12	54	31.0	205	205	0	0
Acenaphthylene-D8	%, dry wt.	3	/	3	100%	49	73	60.7	204	204	0	0
Anthracene	ug/kg, dry wt.	3	/	3	100%	89	316	175	205	205	0	0
Anthracene-D10	%	1	/	1	100%	61	61	61.0	205	205	0	0
Anthracene-D10	%, dry wt.	2	/	2	100%	60	61	60.5	205	205	0	0
Arsenic (total)	mg/kg, wet wt.	3	/	3	100%	8.76	21.9	13.6	203	203	0	0
Benzo(a)anthracene	ug/kg, dry wt.	3	/	3	100%	163	908	451	205	205	0	0
Benzo(a)anthracene-D12	%, dry wt.	3	/	3	100%	56	57	56.3	203	203	0	0
Benzo(a)pyrene	ug/kg, dry wt.	3	/	3	100%	178	860	446	205	205	0	0
Benzo(a)pyrene-D12	%, dry wt.	3	/	3	100%	53	56	54.3	203	203	0	0
Benzo(b)fluoranthene	ug/kg, dry wt.	3	/	3	100%	294	1600	817	205	205	0	0
Benzo(b)fluoranthene-D12	%, dry wt.	3	/	3	100%	55	57	56.0	204	204	0	0
Benzo(e)pyrene	ug/kg, dry wt.	3	/	3	100%	164	778	406	205	205	0	0
Benzo(e)pyrene-D12	%, dry wt.	3	/	3	100%	52	55	53.7	203	203	0	0
Benzo(g,h,i)perylene	ug/kg, dry wt.	3	/	3	100%	134	589	316	205	205	0	0
Benzo(g,h,i)perylene-D12	%, dry wt.	3	/	3	100%	47	50	48.7	203	203	0	0
Benzo(k)fluoranthene	ug/kg, dry wt.	3	/	3	100%	126	587	312	205	205	0	0
Benzo(k)fluoranthene-D12	%, dry wt.	3	/	3	100%	51	53	52.3	203	203	0	0
Benzoic acid	ug/kg, dry wt.	3	/	3	100%	1350	5930	4200	205	205	0	0
Benzyl alcohol	ug/kg, dry wt.	0	/	3	0%	0	0				5.9	26
Biphenyl	ug/kg, dry wt.	2	/	2	100%	7.5	31	19.3	205	205	0	0
Biphenyl-D10	%, dry wt.	3	/	3	100%	42	57	51.7	205	205	0	0

Table A-07. Summary of surface sediment chemistry from sediment quality monitoring in Puget Sound. Year 2-Central Puget Sound (PSAMP/NOAA98)

Event Start Date: *6/3/98*
Event Stop Date: *8/28/98*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *SW8270*											
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	2	/	3	67%	486	663	575	204	204	1790	1790
Butyl benzyl phthalate	ug/kg, dry wt.	2	/	3	67%	46	86	66.0	205	205	36	36
C1-Chrysenes	ug/kg, dry wt.	2	/	3	67%	45	108	76.5	205	205	1	1
C1-Dibenzothiophenes	ug/kg, dry wt.	0	/	3	0%	0	0				1	4.6
C1-Fluoranthene/Pyrene	ug/kg, dry wt.	3	/	3	100%	84	478	216	205	205	0	0
C1-Fluorenes	ug/kg, dry wt.	2	/	3	67%	0.71	2.4	1.56	205	205	1	1
C1-Naphthalenes	ug/kg, dry wt.	3	/	3	100%	38	109	62.0	205	205	0	0
C1-Phenanthrenes/Anthracenes	ug/kg, dry wt.	3	/	3	100%	133	421	229	205	205	0	0
C2-Chrysenes	ug/kg, dry wt.	0	/	3	0%	0	0				1	4.6
C2-Dibenzothiophenes	ug/kg, dry wt.	2	/	3	67%	2.1	7.7	4.90	205	205	5.1	5.1
C2-Fluorenes	ug/kg, dry wt.	0	/	3	0%	0	0				1	4.6
C2-Naphthalenes	ug/kg, dry wt.	3	/	3	100%	62	214	123	205	205	0	0
C2-Phenanthrenes/Anthracenes	ug/kg, dry wt.	0	/	3	0%	0	0				1	4.6
C3-Chrysenes	ug/kg, dry wt.	2	/	3	67%	3	19	11.0	205	205	1.3	1.3
C3-Dibenzothiophenes	ug/kg, dry wt.	2	/	3	67%	12	44	28.0	205	205	1.3	1.3
C3-Fluorenes	ug/kg, dry wt.	1	/	3	33%	4.4	4.4	4.40	203	203	1	4.6
C3-Naphthalenes	ug/kg, dry wt.	3	/	3	100%	114	269	171	205	205	0	0
C3-Phenanthrenes/Anthracenes	ug/kg, dry wt.	3	/	3	100%	30	107	62.3	205	205	0	0
C4 -Naphthalenes	ug/kg, dry wt.	0	/	3	0%	0	0				1	4.6
C4-Chrysenes	ug/kg, dry wt.	0	/	3	0%	0	0				1	4.6
C4-Phenanthrenes/Anthracenes	ug/kg, dry wt.	3	/	3	100%	33	267	121	205	205	0	0
Chlorpyriphos	ug/kg, dry wt.	0	/	3	0%	0	0				10	46
Chrysene	ug/kg, dry wt.	3	/	3	100%	271	1470	734	205	205	0	0
Chrysene-D12	%, dry wt.	3	/	3	100%	52	54	53.0	204	204	0	0
Cis-Nonachlor	ug/kg, dry wt.	0	/	3	0%	0	0				0.63	2.9
D4-2-Chlorophenol	%, dry wt.	3	/	3	100%	77	79	78.0	203	203	0	0
D5-Nitrobenzene	%, dry wt.	3	/	3	100%	69	75	72.7	203	203	0	0
D5-Phenol	%, dry wt.	3	/	3	100%	79	82	81.0	203	203	0	0
Dibenzo(a,h)anthracene	ug/kg, dry wt.	3	/	3	100%	23	132	71.0	205	205	0	0
Dibenzo(a,h)anthraene-D14	%, dry wt.	3	/	3	100%	55	57	56.0	203	203	0	0
Dibenzofuran	ug/kg, dry wt.	3	/	3	100%	20	103	51.3	205	205	0	0
Dibenzothiophene	ug/kg, dry wt.	3	/	3	100%	17	59	32.0	205	205	0	0
Dibenzothiophene-D8	%, dry wt.	3	/	3	100%	56	60	58.3	205	205	0	0

Table A-07. Summary of surface sediment chemistry from sediment quality monitoring in Puget Sound. Year 2-Central Puget Sound (PSAMP/NOAA98)

Event Start Date: *6/3/98*
Event Stop Date: *8/28/98*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *SW8270*											
Dibutylchlorendate	%, dry wt.	3	/	3	100%	114	125	118	205	205	0	0
Diethyl phthalate	ug/kg, dry wt.	3	/	3	100%	21	27	24.3	205	205	0	0
Dimethyl phthalate	ug/kg, dry wt.	2	/	3	67%	29	34	31.5	205	205	5.9	5.9
Di-n-butyl phthalate	ug/kg, dry wt.	0	/	3	0%	0	0				254	918
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	3	0%	0	0				5.9	26
Fluoranthene	ug/kg, dry wt.	3	/	3	100%	355	1790	899	205	205	0	0
Fluoranthene-D10	%, dry wt.	3	/	3	100%	66	78	70.3	204	204	0	0
Fluorene	ug/kg, dry wt.	3	/	3	100%	26	124	62.3	205	205	0	0
Fluorene-D10	%, dry wt.	3	/	3	100%	58	65	62.3	204	204	0	0
Hexachlorobenzene	ug/kg, dry wt.	3	/	3	100%	0.43	4.5	1.92	205	205	0	0
Hexachlorobutadiene	ug/kg, dry wt.	0	/	3	0%	0	0				5.9	26
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	3	/	3	100%	133	619	331	205	205	0	0
Indeno(1,2,3cd)pyrene-D12	%, dry wt.	3	/	3	100%	49	51	50.0	204	204	0	0
Naphthalene	ug/kg, dry wt.	3	/	3	100%	37	104	62.7	205	205	0	0
Naphthalene-D8	%, dry wt.	3	/	3	100%	32	55	46.7	205	205	0	0
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	/	3	0%	0	0				5.9	26
Pentachlorophenol	ug/kg, dry wt.	1	/	3	33%	527	527	527	205	205	59	70
Perylene	ug/kg, dry wt.	3	/	3	100%	116	949	438	205	205	0	0
Perylene-D12	%, dry wt.	3	/	3	100%	54	56	54.7	203	203	0	0
Phenanthrene	ug/kg, dry wt.	3	/	3	100%	162	676	356	205	205	0	0
Phenanthrene-D10	%, dry wt.	3	/	3	100%	60	62	61.3	205	205	0	0
Phenol	ug/kg, dry wt.	0	/	3	0%	0	0				91	300
Phenol, 4-Nonyl-	ug/kg, dry wt.	0	/	3	0%	0	0				5.9	26
Pyrene	ug/kg, dry wt.	3	/	3	100%	389	1760	906	205	205	0	0
Pyrene-D10	%, dry wt.	3	/	3	100%	74	88	82.7	204	204	0	0
Retene	ug/kg, dry wt.	3	/	3	100%	33	267	121	205	205	0	0
Terphenyl-D14	%, dry wt.	3	/	3	100%	79	92	86.3	204	204	0	0

Table A-08. Summary of surface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*										
Aluminum	mg/kg, dry wt.	300 / 300	100%	2800	33500	18600	DR056	SD-DR056-0000	0	0
Antimony	mg/kg, dry wt.	46 / 300	15%	5	16	6.57	DR020	SD-DR020-0000	10	10
Arsenic	mg/kg, dry wt.	300 / 300	100%	1.8	99.3	12.6	DR020	SD-DR020-0000	0	0
Barium	mg/kg, dry wt.	300 / 300	100%	12	7380	120	DR027	SD-DR027-0000	0	0
Beryllium	mg/kg, dry wt.	300 / 300	100%	0.1	0.68	0.385	DR160	SD-DR160-0000	0	0
Cadmium	mg/kg, dry wt.	278 / 300	93%	0.07	3.1	0.463	DR020	SD-DR020-0000	0.04	0.42
Calcium (total)	mg/kg, dry wt.	300 / 300	100%	1760	48900	7000	DR004	SD-DR004-0000	0	0
Chromium	mg/kg, dry wt.	300 / 300	100%	8	180	28.6	DR186	SD-DR186-0000	0	0
Cobalt	mg/kg, dry wt.	300 / 300	100%	3	15	9.09	DR042	SD-DR042-0000	0	0
Copper	mg/kg, dry wt.	300 / 300	100%	10	204	58.8	DR123	SD-DR123-0000	0	0
Iron	mg/kg, dry wt.	300 / 300	100%	9730	45700	27400	DR042	SD-DR042-0000	0	0
Lead	mg/kg, dry wt.	300 / 300	100%	3.52	619	46.8	DR254	SD-DR254-0000	0	0
Magnesium (total)	mg/kg, dry wt.	300 / 300	100%	2150	17200	7340	DR124	SD-DR124-0000	0	0
Manganese	mg/kg, dry wt.	300 / 300	100%	122	779	320	DR273	SD-DR273-0000	0	0
Nickel	mg/kg, dry wt.	300 / 300	100%	7.4	96.4	20.3	DR186	SD-DR186-0000	0	0
Potassium (total)	mg/kg, dry wt.	300 / 300	100%	380	11100	2420	DR209	SD-DR209-0000	0	0
Selenium (total)	mg/kg, dry wt.	280 / 300	93%	0.4	28	8.34	DR018	SD-DR018-0000	1	1
Silver	mg/kg, dry wt.	300 / 300	100%	0.04	2.27	0.342	DR030	SD-DR030-0000	0	0
Sodium (total)	mg/kg, dry wt.	300 / 300	100%	845	22700	10800	DR292	SD-DR292-0000-CC	0	0
Thallium (total)	mg/kg, dry wt.	299 / 300	100%	0.01	0.4	0.0994	DR081	SD-DR081-0000	0.03	0.03
Tin	mg/kg, dry wt.	193 / 300	64%	1	466	10.8	DR123	SD-DR123-0000	1	9
Vanadium	mg/kg, dry wt.	300 / 300	100%	15	92	57.8	DR056	SD-DR056-0000	0	0
Zinc	mg/kg, dry wt.	300 / 300	100%	28	1060	121	DR020	SD-DR020-0000	0	0
Method: *EPA 7471A*										
Mercury	mg/kg, dry wt.	288 / 300	96%	0.02	1.6	0.189	DR157	SD-DR157-0000	0.05	0.05
Method: *EPA 8081*										
4,4'-DDD	ug/kg, dry wt.	7 / 47	15%	2	840	136	DR178	SD-DR178-0000-CC	2	20
4,4'-DDE	ug/kg, dry wt.	7 / 47	15%	1	370	75.6	DR178	SD-DR178-0000-CC	1	15
4,4'-DDT	ug/kg, dry wt.	5 / 47	11%	2	1670	338	DR178	SD-DR178-0000-CC	2	40
Aldrin	ug/kg, dry wt.	0 / 47	0%	0	0				1	10
alpha-BHC	ug/kg, dry wt.	0 / 47	0%	0	0				1	10
alpha-Chlordane	ug/kg, dry wt.	1 / 47	2%	26	26	26.0	DR178	SD-DR178-0000-CC	1	25
alpha-Endosulfan	ug/kg, dry wt.	0 / 47	0%	0	0				1	100

Table A-08. Summary of surface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8081*										
beta-BHC	ug/kg, dry wt.	1 / 47	2%	13	13	13.0	DR178	SD-DR178-0000-CC	1	10
beta-Endosulfan	ug/kg, dry wt.	0 / 47	0%	0	0				2	200
Dieldrin	ug/kg, dry wt.	3 / 47	6%	13	280	103	DR178	SD-DR178-0000-CC	2	20
Endosulfan sulfate	ug/kg, dry wt.	0 / 47	0%	0	0				2	200
Endrin	ug/kg, dry wt.	0 / 47	0%	0	0				2	200
Endrin aldehyde	ug/kg, dry wt.	2 / 47	4%	14	130	72.0	DR178	SD-DR178-0000-CC	2	50
Endrin ketone	ug/kg, dry wt.	0 / 47	0%	0	0				2	200
gamma-BHC	ug/kg, dry wt.	0 / 47	0%	0	0				1	10
gamma-Chlordane	ug/kg, dry wt.	2 / 47	4%	1	204	103	DR178	SD-DR178-0000-CC	1	11
Heptachlor	ug/kg, dry wt.	0 / 47	0%	0	0				1	10
Heptachlor epoxide	ug/kg, dry wt.	3 / 47	6%	1	2	1.33	DR301	SD-DR301-0000	1	100
Methoxychlor	ug/kg, dry wt.	6 / 47	13%	2	99	21.5	DR178	SD-DR178-0000-CC	1	10
Toxaphene	ug/kg, dry wt.	0 / 47	0%	0	0				1	3700
Method: *EPA 8082*										
Aroclor-1016	ug/kg, dry wt.	0 / 300	0%	0	0				20	50
Aroclor-1221	ug/kg, dry wt.	0 / 300	0%	0	0				40	50
Aroclor-1232	ug/kg, dry wt.	0 / 300	0%	0	0				20	50
Aroclor-1242	ug/kg, dry wt.	39 / 300	13%	20	2400	226	DR157	SD-DR157-0000	20	50
Aroclor-1248	ug/kg, dry wt.	0 / 300	0%	0	0				20	50
Aroclor-1254	ug/kg, dry wt.	266 / 300	89%	20	9400	181	DR271	SD-DR271-0000	20	1300
Aroclor-1260	ug/kg, dry wt.	256 / 300	85%	20	12000	164	DR207	SD-DR207-0000	20	50
PCB-101	ug/kg, dry wt.	261 / 300	87%	1	410	12.6	DR271	SD-DR271-0000	1	10
PCB-105	ug/kg, dry wt.	184 / 300	61%	1	229	6.22	DR271	SD-DR271-0000	1	19
PCB-114	ug/kg, dry wt.	6 / 300	2%	1	5	2.17	DR139	SD-DR139-0000	1	20
PCB-118	ug/kg, dry wt.	272 / 300	91%	1	411	10.6	DR271	SD-DR271-0000	1	5
PCB-123	ug/kg, dry wt.	0 / 300	0%	0	0				1	31
PCB-126	ug/kg, dry wt.	10 / 300	3%	1	3	1.70	DR123	SD-DR123-0000	1	50
PCB-128	ug/kg, dry wt.	146 / 300	49%	1	126	4.91	DR271	SD-DR271-0000	1	2
PCB-138	ug/kg, dry wt.	261 / 300	87%	1	920	22.3	DR207	SD-DR207-0000	1	40
PCB-153	ug/kg, dry wt.	278 / 300	93%	1	900	16.7	DR207	SD-DR207-0000	1	11
PCB-156	ug/kg, dry wt.	97 / 300	32%	1	76	4.45	DR271	SD-DR271-0000	1	10
PCB-157	ug/kg, dry wt.	11 / 300	4%	1	21	4.45	DR271	SD-DR271-0000	1	27
PCB-167	ug/kg, dry wt.	45 / 300	15%	1	30	4.09	DR271	SD-DR271-0000	1	10

Table A-08. Summary of surface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8082*										
PCB-169	ug/kg, dry wt.	0 / 300	0%	0	0				1	10
PCB-170	ug/kg, dry wt.	227 / 300	76%	1	320	7.25	DR207	SD-DR207-0000	1	7
PCB-18	ug/kg, dry wt.	87 / 285	31%	1	170	7.16	DR178	SD-DR178-0000-CC	1	24
PCB-180	ug/kg, dry wt.	265 / 300	88%	1	750	11.7	DR207	SD-DR207-0000	1	8
PCB-187	ug/kg, dry wt.	250 / 300	83%	1	360	6.91	DR207	SD-DR207-0000	1	6
PCB-189	ug/kg, dry wt.	10 / 300	3%	1	11	2.80	DR207	SD-DR207-0000	1	10
PCB-195	ug/kg, dry wt.	39 / 300	13%	1	49	4.82	DR207	SD-DR207-0000	1	10
PCB-206	ug/kg, dry wt.	51 / 300	17%	1	27	3.22	DR217	SD-DR217-0000	1	10
PCB-209	ug/kg, dry wt.	12 / 300	4%	1	3	1.42	DR030	SD-DR030-0000	1	10
PCB-28	ug/kg, dry wt.	163 / 300	54%	1	160	6.87	DR157	SD-DR157-0000	1	8
PCB-44	ug/kg, dry wt.	203 / 300	68%	1	190	6.70	DR178	SD-DR178-0000-CC	1	2
PCB-55	ug/kg, dry wt.	224 / 300	75%	1	890	13.8	DR178	SD-DR178-0000-CC	1	13
PCB-66	ug/kg, dry wt.	200 / 300	67%	1	440	16.6	DR178	SD-DR178-0000-CC	1	300
PCB-77	ug/kg, dry wt.	2 / 300	1%	3	3	3.00	DR293	SD-DR293-0000	1	20
PCB-81	ug/kg, dry wt.	0 / 300	0%	0	0				1	10
PCBs (total-calc'd)	ug/kg, dry wt.	272 / 300	91%	20	12000	364	DR207	SD-DR207-0000	40	50
Method: *EPA 8260*										
1,1,1,2-Tetrachloroethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
1,1,1-Trichloroethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
1,1,2,2-Tetrachloroethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
1,1,2-Trichloroethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
1,1,2-Trichlorotrifluoroethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
1,1-Dichloroacetone	ug/kg, dry wt.	0 / 45	0%	0	0				3	2660
1,1-Dichloroethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
1,1-Dichloroethene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
1,1-Dichloropropene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
1,2,3-Trichlorobenzene	ug/kg, dry wt.	0 / 47	0%	0	0				1.8	1060
1,2,3-Trichloropropane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
1,2,4-Trimethylbenzene	ug/kg, dry wt.	2 / 47	4%	0.54	1.5	1.02	DR053	SD-DR053-0000-CC	1.5	533
1,2-Dibromo-3-chloropropane	ug/kg, dry wt.	0 / 47	0%	0	0				3.7	1060
1,2-Dibromoethane (EDB)	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
1,2-Dichloroethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
1,2-Dichloropropane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533

Table A-08. Summary of surface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8260*										
1,3,5-Trimethylbenzene	ug/kg, dry wt.	1 / 47	2%	1.4	1.4	1.40	DR053	SD-DR053-0000-CC	1.5	533
1,3-Dichloropropane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
1-Chlorobutane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
2,2-Dichloropropane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
2-Chlorotoluene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
2-Hexanone	ug/kg, dry wt.	0 / 47	0%	0	0				3	2130
2-Nitropropane	ug/kg, dry wt.	0 / 47	0%	0	0				7.6	2660
4-Chlorotoluene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
Acetone	ug/kg, dry wt.	3 / 47	6%	114	1020	432	DR047	SD-DR047-0000	11.2	21300
Allyl Chloride	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
Benzene	ug/kg, dry wt.	1 / 47	2%	0.87	0.87	0.870	DR053	SD-DR053-0000-CC	1.5	533
Bromobenzene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
Bromochloromethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
Bromodichloromethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
Bromoform	ug/kg, dry wt.	0 / 47	0%	0	0				3	2660
Bromomethane	ug/kg, dry wt.	0 / 47	0%	0	0				7.6	5330
Carbon disulfide	ug/kg, dry wt.	17 / 47	36%	0.84	4	1.83	DR178	SD-DR178-0000-CC	3	1060
Carbon tetrachloride	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
Chloroacetonitrile	ug/kg, dry wt.	0 / 2	0%	0	0				7.6	23.8
Chlorobenzene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
Chloroethane	ug/kg, dry wt.	0 / 47	0%	0	0				3	10600
Chloroform	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
Chloromethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
cis-1,2-Dichloroethene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
cis-1,3-Dichloropropene	ug/kg, dry wt.	0 / 47	0%	0	0				1.6	564
Cymene	ug/kg, dry wt.	3 / 47	6%	1.6	25	9.40	DR111	SD-DR111-0000-CC	1.5	533
Dibromochloromethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	2660
Dibromomethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
Dichlorodifluoromethane	ug/kg, dry wt.	0 / 9	0%	0	0				1.5	3.3
Dichloromethane	ug/kg, dry wt.	1 / 47	2%	1610	1610	1610	DR008	SD-DR008-0000	4.6	19.4
Diethyl ether	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
Ethyl Methacrylate	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
Ethylbenzene	ug/kg, dry wt.	1 / 47	2%	0.49	0.49	0.490	DR053	SD-DR053-0000-CC	1.5	533

Table A-08. Summary of surface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8260*										
Iodomethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
iso-Propylbenzene	ug/kg, dry wt.	0 / 47	0%	0	0				1.8	533
Methacrylonitrile	ug/kg, dry wt.	0 / 47	0%	0	0				3.7	1060
Methyl Acrylate	ug/kg, dry wt.	0 / 47	0%	0	0				2.3	533
Methyl ethyl ketone	ug/kg, dry wt.	12 / 47	26%	5.3	34.5	13.6	DR154	SD-DR154-0000	3	1060
Methyl iso-butyl ketone	ug/kg, dry wt.	0 / 47	0%	0	0				3	1060
Methyl Methacrylate	ug/kg, dry wt.	0 / 47	0%	0	0				1.8	533
n-Butylbenzene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
n-Propylbenzene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
Pentachloroethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
sec-Butylbenzene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
Styrene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	1060
Tert-butyl methyl ether	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
tert-Butylbenzene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
Tetrachloroethene	ug/kg, dry wt.	2 / 47	4%	0.21	0.52	0.365	DR297	SD-DR297-0000	1.5	533
Tetrahydrofuran	ug/kg, dry wt.	0 / 2	0%	0	0				7.6	7.8
Toluene	ug/kg, dry wt.	5 / 47	11%	0.34	6.4	2.29	DR021	SD-DR021-0000	1.5	533
trans-1,2-Dichloroethene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
trans-1,3-Dichloropropene	ug/kg, dry wt.	0 / 47	0%	0	0				1.7	501
trans-1,4-Dichloro-2-butene	ug/kg, dry wt.	0 / 45	0%	0	0				7.6	2660
Trichloroethene	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	533
Trichlorofluoromethane	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	5330
Vinyl chloride	ug/kg, dry wt.	0 / 47	0%	0	0				1.5	2660
Xylene (meta & para)	ug/kg, dry wt.	1 / 47	2%	1.4	1.4	1.40	DR053	SD-DR053-0000-CC	3	1060
Xylene (ortho)	ug/kg, dry wt.	1 / 47	2%	1.1	1.1	1.10	DR053	SD-DR053-0000-CC	1.5	533
Method: *EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0 / 300	0%	0	0				3	1060
1,2-Dichlorobenzene	ug/kg, dry wt.	4 / 300	1%	1.4	523	132	DR008	SD-DR008-0000	1.5	20
1,3-Dichlorobenzene	ug/kg, dry wt.	0 / 300	0%	0	0				1.5	533
1,4-Dichlorobenzene	ug/kg, dry wt.	2 / 300	1%	0.74	30	15.4	DR007	SD-DR007-0000	1.5	533
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 300	0%	0	0				200	2000
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 300	0%	0	0				200	2000
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 300	0%	0	0				60	600

Table A-08. Summary of surface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 300	0%	0	0				20	200
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 300	0%	0	0				200	2000
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 300	0%	0	0				200	2000
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 300	0%	0	0				200	2000
2-Chloronaphthalene	ug/kg, dry wt.	0 / 300	0%	0	0				20	200
2-Chlorophenol	ug/kg, dry wt.	0 / 300	0%	0	0				20	200
2-Methylnaphthalene	ug/kg, dry wt.	63 / 300	21%	20	690	68.9	DR019	SD-DR019-0000	20	740
2-Methylphenol	ug/kg, dry wt.	1 / 300	0%	20	20	20.0	DR187	SD-DR187-0000	20	200
2-Nitroaniline	ug/kg, dry wt.	0 / 300	0%	0	0				100	1000
2-Nitrophenol	ug/kg, dry wt.	0 / 300	0%	0	0				100	1000
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0 / 300	0%	0	0				200	2000
3-Methylphenol and 4-Methylphenol Coelution	ug/kg, dry wt.	16 / 300	5%	20	910	99.4	DR053	SD-DR053-0000-CC	20	200
3-Nitroaniline	ug/kg, dry wt.	0 / 300	0%	0	0				200	2000
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0 / 300	0%	0	0				200	2000
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0 / 300	0%	0	0				40	400
4-Chloro-3-methylphenol	ug/kg, dry wt.	0 / 300	0%	0	0				40	400
4-Chloroaniline	ug/kg, dry wt.	0 / 300	0%	0	0				60	600
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0 / 300	0%	0	0				20	200
4-Nitroaniline	ug/kg, dry wt.	0 / 300	0%	0	0				100	1000
4-Nitrophenol	ug/kg, dry wt.	0 / 300	0%	0	0				100	1000
Acenaphthene	ug/kg, dry wt.	139 / 300	46%	20	1800	111	DR065	SD-DR065-0000	20	200
Acenaphthylene	ug/kg, dry wt.	31 / 300	10%	20	100	36.1	DR044	SD-DR044-0000	20	200
Anthracene	ug/kg, dry wt.	236 / 300	79%	20	1900	176	DR065	SD-DR065-0000	20	200
Benzo(a)anthracene	ug/kg, dry wt.	287 / 300	96%	30	4800	386	DR187	SD-DR187-0000	20	20
Benzo(a)pyrene	ug/kg, dry wt.	287 / 300	96%	20	3700	327	DR187	SD-DR187-0000	20	20
Benzo(b)fluoranthene	ug/kg, dry wt.	288 / 300	96%	20	4700	423	DR178	SD-DR178-0000-CC	20	20
Benzo(g,h,i)perylene	ug/kg, dry wt.	284 / 300	95%	20	2300	191	DR187	SD-DR187-0000	20	20
Benzo(k)fluoranthene	ug/kg, dry wt.	288 / 300	96%	20	4000	331	DR187	SD-DR187-0000	20	20
Benzofluoranthene (total)	ug/kg, dry wt.	300 / 300	100%	20	8000	725	DR178	SD-DR178-0000-CC	0	0
Benzoic acid	ug/kg, dry wt.	4 / 300	1%	200	500	300	DR004	SD-DR004-0000	200	2000
Benzyl alcohol	ug/kg, dry wt.	4 / 300	1%	50	1700	490	DR019	SD-DR019-0000	50	500
bis(2-chloroethoxy)methane	ug/kg, dry wt.	1 / 300	0%	40	40	40.0	DR188	SD-DR188-0000	40	400
bis(2-chloroethyl)ether	ug/kg, dry wt.	0 / 300	0%	0	0				40	400

Table A-08. Summary of surface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
bis(2-chloroisopropyl)ether	ug/kg, dry wt.	0 / 300	0%	0	0				40	400
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	223 / 300	74%	20	11000	690	DR009	SD-DR009-0000	20	520
Butyl benzyl phthalate	ug/kg, dry wt.	191 / 300	64%	20	940	61.7	DR008	SD-DR008-0000	20	20
Carbazole	ug/kg, dry wt.	200 / 300	67%	20	1100	83.0	DR187	SD-DR187-0000	20	20
Chrysene	ug/kg, dry wt.	290 / 300	97%	30	4600	523	DR044	SD-DR044-0000	20	20
Dibenzo(a,h)anthracene	ug/kg, dry wt.	215 / 300	72%	20	950	68.3	DR187	SD-DR187-0000	20	20
Dibenzofuran	ug/kg, dry wt.	134 / 300	45%	20	1300	86.3	DR065	SD-DR065-0000	20	200
Diethyl phthalate	ug/kg, dry wt.	1 / 300	0%	40	40	40.0	DR207	SD-DR207-0000	20	200
Dimethyl phthalate	ug/kg, dry wt.	67 / 300	22%	20	90	30.6	DR007	SD-DR007-0000	20	200
Di-n-butyl phthalate	ug/kg, dry wt.	78 / 300	26%	20	2000	79.7	DR217	SD-DR217-0000	20	200
Di-n-octyl phthalate	ug/kg, dry wt.	19 / 300	6%	20	570	81.1	DR178	SD-DR178-0000-CC	20	200
Fluoranthene	ug/kg, dry wt.	292 / 300	97%	20	23000	1150	DR044	SD-DR044-0000	20	20
Fluorene	ug/kg, dry wt.	188 / 300	63%	20	2100	112	DR065	SD-DR065-0000	20	200
Hexachlorobenzene	ug/kg, dry wt.	3 / 300	1%	20	690	247	DR198	SD-DR198-0000	20	200
Hexachlorobutadiene	ug/kg, dry wt.	0 / 300	0%	0	0				2.3	533
Hexachlorocyclopentadiene	ug/kg, dry wt.	1 / 300	0%	100	100	100	DR009	SD-DR009-0000	100	1000
Hexachloroethane	ug/kg, dry wt.	0 / 300	0%	0	0				1.5	1060
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	286 / 300	95%	30	2900	220	DR187	SD-DR187-0000	20	20
Isophorone	ug/kg, dry wt.	0 / 300	0%	0	0				20	200
Naphthalene	ug/kg, dry wt.	70 / 300	23%	4.3	510	57.3	DR019	SD-DR019-0000	1.5	533
Nitrobenzene	ug/kg, dry wt.	0 / 300	0%	0	0				20	200
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0 / 300	0%	0	0				40	400
N-Nitrosodiphenylamine	ug/kg, dry wt.	0 / 300	0%	0	0				40	400
Pentachlorophenol	ug/kg, dry wt.	4 / 300	1%	100	300	200	DR157	SD-DR157-0000	100	1000
Phenanthrene	ug/kg, dry wt.	290 / 300	97%	30	16000	531	DR175	SD-DR175-0000	20	20
Phenol	ug/kg, dry wt.	153 / 300	51%	20	2100	140	DR207	SD-DR207-0000	20	200
Pyrene	ug/kg, dry wt.	290 / 300	97%	30	16000	918	DR044	SD-DR044-0000	20	20
Total HPAH (calc'd)	ug/kg, dry wt.	293 / 300	98%	20	50840	4460	DR044	SD-DR044-0000	20	20
Total LPAH (calc'd)	ug/kg, dry wt.	290 / 300	97%	30	20030	818	DR175	SD-DR175-0000	20	20
Method: *EPA 8290*										
1,2,3,4,6,7,8-HpCDD	pg/g, dry wt.	28 / 30	93%	48	6600	604	DR008	SD-DR008-0000	0.99	1.1
1,2,3,4,6,7,8-HpCDF	pg/g, dry wt.	27 / 30	90%	8.3	1600	130	DR123	SD-DR123-0000	0.62	7.7
1,2,3,4,7,8,9-HpCDF	pg/g, dry wt.	11 / 30	37%	3.9	270	36.1	DR123	SD-DR123-0000	0.77	4.2

Table A-08. Summary of surface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8290*										
1,2,3,4,7,8-HxCDD	pg/g, dry wt.	2	30	7%	27	72	49.5	DR008	SD-DR008-0000	0.72	5.4
1,2,3,4,7,8-HxCDF	pg/g, dry wt.	14	30	47%	4.2	540	50.7	DR123	SD-DR123-0000	0.29	4.2
1,2,3,6,7,8-HxCDD	pg/g, dry wt.	20	30	67%	5.6	290	34.5	DR008	SD-DR008-0000	0.74	4.3
1,2,3,6,7,8-HxCDF	pg/g, dry wt.	2	30	7%	20	74	47.0	DR123	SD-DR123-0000	0.22	4.3
1,2,3,7,8,9-HxCDD	pg/g, dry wt.	15	30	50%	4.8	120	19.9	DR008	SD-DR008-0000	0.84	4.8
1,2,3,7,8,9-HxCDF	pg/g, dry wt.	1	30	3%	16	16	16.0	DR123	SD-DR123-0000	0.12	2.4
1,2,3,7,8-PeCDD	pg/g, dry wt.	2	30	7%	12	22	17.0	DR008	SD-DR008-0000	0.53	4.1
1,2,3,7,8-PeCDF	pg/g, dry wt.	1	30	3%	54	54	54.0	DR123	SD-DR123-0000	0.28	5
2,3,4,6,7,8-HxCDF	pg/g, dry wt.	2	30	7%	18	32	25.0	DR123	SD-DR123-0000	0.29	2.5
2,3,4,7,8-PeCDF	pg/g, dry wt.	2	30	7%	8.8	58	33.4	DR123	SD-DR123-0000	0.44	5.4
2,3,7,8-TCDD	pg/g, dry wt.	3	30	10%	2	3.8	2.80	DR123	SD-DR123-0000	0.27	1.1
2,3,7,8-TCDF	pg/g, dry wt.	19	30	63%	0.99	6.8	2.61	DR123	SD-DR123-0000	0.18	1.7
OCDD	pg/g, dry wt.	30	30	100%	7.8	91000	6480	DR123	SD-DR123-0000	0	0
OCDF	pg/g, dry wt.	29	30	97%	22	3600	299	DR123	SD-DR123-0000	0.74	0.74
Total 2,3,7,8-TCDD(Equiv)	pg/g, dry wt.	30	30	100%	0.00078	217.74	16.4	DR123	SD-DR123-0000	0	0
Total HpCDD	pg/g, dry wt.	28	30	93%	120	11000	1240	DR008	SD-DR008-0000	0.99	1.9
Total HpCDF	pg/g, dry wt.	28	30	93%	18	9300	593	DR123	SD-DR123-0000	0.84	2.2
Total HxCDD	pg/g, dry wt.	28	30	93%	7.5	1200	145	DR123	SD-DR123-0000	1.1	1.7
Total HxCDF	pg/g, dry wt.	28	30	93%	6.2	3900	227	DR123	SD-DR123-0000	0.36	0.45
Total PeCDD	pg/g, dry wt.	2	30	7%	49	58	53.5	DR123	SD-DR123-0000	1.4	8.5
Total PeCDF	pg/g, dry wt.	27	30	90%	4.9	230	37.0	DR123	SD-DR123-0000	0.71	3.9
Total TCDD	pg/g, dry wt.	23	30	77%	0.95	75	9.25	DR123	SD-DR123-0000	0.34	1.1
Total TCDF	pg/g, dry wt.	28	30	93%	3	150	32.9	DR123	SD-DR123-0000	0.28	0.32
Method: *EPA 9060*										
Total Organic Carbon (TOC)	%, dry wt.	300	300	100%	0.08	9.23	2.20	DR042	SD-DR042-0000	0	0
Method: *Krone et al. 1989*										
Dibutyltin	ug/kg, dry wt.	62	92	67%	1	210	25.7	DR008	SD-DR008-0000	1	49
n-Butyltin	ug/kg, dry wt.	58	89	65%	1	96	23.4	DR008	SD-DR008-0000	1	85
Tetrabutyltin	ug/kg, dry wt.	6	92	7%	2	7	4.50	DR053	SD-DR053-0000-CC	1	20
Tributyltin	ug/kg, dry wt.	85	92	92%	1	320	75.5	DR002	SD-DR002-0000	1	5
Method: *PSEP, 1986*										
Fractional % (>9525µm)	%, dry wt.	300	300	100%	0	0	0.00	DR167	SD-DR167-0000	0	0
Fractional % phi 0-1 (500-1000µm)	%, dry wt.	300	300	100%	0.24	62.75	4.93	DR298	SD-DR298-0000	0	0

Table A-08. Summary of surface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *PSEP, 1986*										
Fractional % phi -1-0 (1000-2000µm)	%, dry wt.	300 / 300	100%	0	37.01	1.75	DR257	SD-DR257-0000	0	0
Fractional % phi 10+ (<0.98µm)	%, dry wt.	291 / 300	97%	0.23	15.3	7.22	DR018	SD-DR018-0000	0.01	0.01
Fractional % phi 1-2 (250-500µm)	%, dry wt.	300 / 300	100%	0.44	58.22	9.14	DR172	SD-DR172-0000	0	0
Fractional % phi -2-(-1) (2000-4000µm)	%, dry wt.	300 / 300	100%	0	14.4	0.872	DR209	SD-DR209-0000	0	0
Fractional % phi 2-3 (125-250µm)	%, dry wt.	300 / 300	100%	0.46	32.2	7.43	DR274	SD-DR274-0000	0	0
Fractional % phi 3-4 (62.5-125µm)	%, dry wt.	300 / 300	100%	0.09	36.28	9.98	DR167	SD-DR167-0000	0	0
Fractional % phi 4-5 (31.2-62.5µm)	%, dry wt.	291 / 300	97%	0.06	30.52	12.1	DR238	SD-DR238-0000	0.01	0.01
Fractional % phi 5-6 (15.6-31.2µm)	%, dry wt.	291 / 300	97%	0.18	37.14	16.1	DR113	SD-DR113-0000-CC	0.01	0.01
Fractional % phi 6-7 (7.8-15.6µm)	%, dry wt.	291 / 300	97%	0.03	32.28	14.3	DR241	SD-DR241-0000	0.01	0.01
Fractional % phi 7-8 (3.9-7.8µm)	%, dry wt.	291 / 300	97%	0.07	21	8.99	DR221	SD-DR221-0000	0.01	0.01
Fractional % phi 8-9 (1.95-3.9µm)	%, dry wt.	291 / 300	97%	0.13	20.78	5.22	DR015	SD-DR015-0000	0.01	0.01
Fractional % phi 9-10 (0.98-1.95µm)	%, dry wt.	291 / 300	97%	0.01	7.78	3.31	DR068	SD-DR068-0000	0.01	0.01
Fractional % Sieve 3/8" (4750-9525 µm)	%, dry wt.	300 / 300	100%	0	58.85	0.874	DR124	SD-DR124-0000	0	0

Table A-09. Summary of subsurface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary						Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.		Min	Max
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	33	33	100%	15000	33000	23300	DR021	SD-DR021-0020	0	0
Antimony	mg/kg, dry wt.	6	33	18%	6	148	43.0	DR054	SD-DR054-0020	10	10
Arsenic	mg/kg, dry wt.	33	33	100%	5	622	39.0	DR054	SD-DR054-0020	0	0
Barium	mg/kg, dry wt.	33	33	100%	48	636	123	DR054	SD-DR054-0020	0	0
Beryllium	mg/kg, dry wt.	33	33	100%	0.16	0.56	0.383	DR054	SD-DR054-0020	0	0
Cadmium	mg/kg, dry wt.	28	33	85%	0.22	3.7	0.874	DR021	SD-DR021-0020	0.2	0.2
Calcium (total)	mg/kg, dry wt.	33	33	100%	4640	28100	8800	DR054	SD-DR054-0000A	0	0
Chromium	mg/kg, dry wt.	33	33	100%	19	88	36.1	DR054	SD-DR054-0020	0	0
Cobalt	mg/kg, dry wt.	33	33	100%	7	40	11.5	DR054	SD-DR054-0020	0	0
Copper	mg/kg, dry wt.	33	33	100%	26	802	109	DR054	SD-DR054-0000A	0	0
Iron	mg/kg, dry wt.	33	33	100%	19300	65200	32000	DR054	SD-DR054-0000A	0	0
Lead	mg/kg, dry wt.	33	33	100%	6.62	625	97.5	DR054	SD-DR054-0020	0	0
Magnesium (total)	mg/kg, dry wt.	33	33	100%	4440	10800	7800	DR054	SD-DR054-0000A	0	0
Manganese	mg/kg, dry wt.	33	33	100%	173	937	336	DR054	SD-DR054-0000A	0	0
Nickel	mg/kg, dry wt.	33	33	100%	13.6	37.8	22.5	DR054	SD-DR054-0020	0	0
Potassium (total)	mg/kg, dry wt.	33	33	100%	1600	3900	2880	DR068	SD-DR068-0000A	0	0
Selenium (total)	mg/kg, dry wt.	10	33	30%	0.6	1	0.800	DR044	SD-DR044-0020	1	4
Silver	mg/kg, dry wt.	33	33	100%	0.05	3.03	0.659	DR008	SD-DR008-0020	0	0
Sodium (total)	mg/kg, dry wt.	33	33	100%	4170	14000	9990	DR044	SD-DR044-0000A	0	0
Thallium (total)	mg/kg, dry wt.	22	33	67%	0.03	7	0.396	DR101	SD-DR101-0020	0.08	0.08
Tin	mg/kg, dry wt.	33	33	100%	2	46	9.39	DR054	SD-DR054-0020	0	0
Vanadium	mg/kg, dry wt.	33	33	100%	54	92	71.6	DR021	SD-DR021-0020	0	0
Zinc	mg/kg, dry wt.	33	33	100%	42	1560	231	DR054	SD-DR054-0000A	0	0
Method: *EPA 7471A*											
Mercury	mg/kg, dry wt.	33	33	100%	0.06	1.44	0.303	DR054	SD-DR054-0020	0	0
Method: *EPA 8081*											
4,4'-DDD	ug/kg, dry wt.	7	16	44%	2	14	6.86	DR008	SD-DR008-0020	2	2
4,4'-DDE	ug/kg, dry wt.	10	16	63%	1	18	6.70	DR021	SD-DR021-0020	1	1
4,4'-DDT	ug/kg, dry wt.	0	16	0%	0	0				2	5
Aldrin	ug/kg, dry wt.	0	16	0%	0	0				1	2
alpha-BHC	ug/kg, dry wt.	0	16	0%	0	0				1	1
alpha-Chlordane	ug/kg, dry wt.	0	16	0%	0	0				1	4
alpha-Endosulfan	ug/kg, dry wt.	0	16	0%	0	0				1	1

Table A-09. Summary of subsurface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8081*										
beta-BHC	ug/kg, dry wt.	0 / 16	0%	0	0				1	2
beta-Endosulfan	ug/kg, dry wt.	0 / 16	0%	0	0				2	2
Dieldrin	ug/kg, dry wt.	2 / 16	13%	3	5	4.00	DR008	SD-DR008-0020	2	2
Endosulfan sulfate	ug/kg, dry wt.	0 / 16	0%	0	0				2	4
Endrin	ug/kg, dry wt.	0 / 16	0%	0	0				2	2
Endrin aldehyde	ug/kg, dry wt.	1 / 16	6%	10	10	10.0	DR021	SD-DR021-0000A	2	25
Endrin ketone	ug/kg, dry wt.	0 / 16	0%	0	0				2	2
gamma-BHC	ug/kg, dry wt.	0 / 16	0%	0	0				1	1
gamma-Chlordane	ug/kg, dry wt.	0 / 16	0%	0	0				1	6
Heptachlor	ug/kg, dry wt.	0 / 16	0%	0	0				1	3
Heptachlor epoxide	ug/kg, dry wt.	0 / 16	0%	0	0				1	4
Methoxychlor	ug/kg, dry wt.	0 / 16	0%	0	0				1	4
Toxaphene	ug/kg, dry wt.	0 / 16	0%	0	0				10	10
Method: *EPA 8082*										
Aroclor-1016	ug/kg, dry wt.	0 / 33	0%	0	0				0.1	20
Aroclor-1221	ug/kg, dry wt.	0 / 33	0%	0	0				0.1	40
Aroclor-1232	ug/kg, dry wt.	0 / 33	0%	0	0				0.1	20
Aroclor-1242	ug/kg, dry wt.	19 / 33	58%	22	2500	234	DR021	SD-DR021-0020	0.1	20
Aroclor-1248	ug/kg, dry wt.	0 / 33	0%	0	0				0.1	20
Aroclor-1254	ug/kg, dry wt.	25 / 33	76%	37	2200	378	DR068	SD-DR068-0000A	0.1	20
Aroclor-1260	ug/kg, dry wt.	24 / 33	73%	22	678	217	DR206	SD-DR206-0000A	0.1	20
PCB-101	ug/kg, dry wt.	24 / 33	73%	1	130	22.3	DR068	SD-DR068-0000A	1	1
PCB-105	ug/kg, dry wt.	22 / 33	67%	1	43	9.14	DR068	SD-DR068-0000A	1	1
PCB-114	ug/kg, dry wt.	3 / 33	9%	2	5	3.00	DR137	SD-DR137-0000A-CC	1	4
PCB-118	ug/kg, dry wt.	25 / 33	76%	1	110	18.2	DR068	SD-DR068-0000A	1	1
PCB-123	ug/kg, dry wt.	0 / 33	0%	0	0				1	10
PCB-126	ug/kg, dry wt.	4 / 33	12%	1	4	2.25	DR025	SD-DR025-0020	1	1
PCB-128	ug/kg, dry wt.	22 / 33	67%	1	27	5.59	DR068	SD-DR068-0000A	1	1
PCB-138	ug/kg, dry wt.	26 / 33	79%	1	160	33.2	DR068	SD-DR068-0000A	1	1
PCB-153	ug/kg, dry wt.	25 / 33	76%	2	98	23.1	DR068	SD-DR068-0000A	1	1
PCB-156	ug/kg, dry wt.	17 / 33	52%	1	16	4.18	DR068	SD-DR068-0000A	1	1
PCB-157	ug/kg, dry wt.	6 / 33	18%	1	3	2.17	DR068	SD-DR068-0000A	1	1
PCB-167	ug/kg, dry wt.	11 / 33	33%	1	11	4.27	DR008	SD-DR008-0020	1	1

Table A-09. Summary of subsurface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8082*										
PCB-169	ug/kg, dry wt.	0 / 33	0%	0	0				1	1
PCB-170	ug/kg, dry wt.	20 / 33	61%	2	29	9.95	DR206	SD-DR206-0000A	1	7
PCB-18	ug/kg, dry wt.	20 / 33	61%	1	270	19.2	DR021	SD-DR021-0020	1	1
PCB-180	ug/kg, dry wt.	25 / 33	76%	1	53	13.8	DR206	SD-DR206-0000A	1	1
PCB-187	ug/kg, dry wt.	24 / 33	73%	1	28	8.29	DR206	SD-DR206-0000A	1	1
PCB-189	ug/kg, dry wt.	1 / 33	3%	1	1	1.00	DR044	SD-DR044-0020	1	1
PCB-195	ug/kg, dry wt.	12 / 33	36%	1	6	2.50	DR206	SD-DR206-0000A	1	1
PCB-206	ug/kg, dry wt.	13 / 33	39%	1	3	1.92	DR206	SD-DR206-0000A	1	1
PCB-209	ug/kg, dry wt.	3 / 33	9%	1	1	1.00	DR025	SD-DR025-0020	1	1
PCB-28	ug/kg, dry wt.	22 / 33	67%	1	220	17.9	DR021	SD-DR021-0020	1	1
PCB-44	ug/kg, dry wt.	24 / 33	73%	1	52	10.5	DR021	SD-DR021-0020	1	1
PCB-55	ug/kg, dry wt.	24 / 33	73%	1	150	18.5	DR021	SD-DR021-0020	1	14
PCB-66	ug/kg, dry wt.	25 / 33	76%	2	140	27.5	DR021	SD-DR021-0020	1	1
PCB-77	ug/kg, dry wt.	0 / 33	0%	0	0				1	9
PCB-81	ug/kg, dry wt.	0 / 33	0%	0	0				1	2
PCBs (total-calc'd)	ug/kg, dry wt.	25 / 33	76%	37	4043	765	DR021	SD-DR021-0020	0.1	40
Method: *EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0 / 33	0%	0	0				20	20
1,2-Dichlorobenzene	ug/kg, dry wt.	2 / 33	6%	20	30	25.0	DR008	SD-DR008-0020	20	20
1,3-Dichlorobenzene	ug/kg, dry wt.	0 / 33	0%	0	0				20	20
1,4-Dichlorobenzene	ug/kg, dry wt.	2 / 33	6%	340	1400	870	DR008	SD-DR008-0000A	20	20
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 33	0%	0	0				200	200
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 33	0%	0	0				200	200
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 33	0%	0	0				60	60
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 33	0%	0	0				20	20
2,4-Dinitrophenol	ug/kg, dry wt.	1 / 33	3%	300	300	300	DR206	SD-DR206-0000A	200	200
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 33	0%	0	0				200	200
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 33	0%	0	0				200	200
2-Chloronaphthalene	ug/kg, dry wt.	0 / 33	0%	0	0				20	20
2-Chlorophenol	ug/kg, dry wt.	0 / 33	0%	0	0				20	20
2-Methylnaphthalene	ug/kg, dry wt.	7 / 33	21%	20	90	44.3	DR008	SD-DR008-0000A	20	20
2-Methylphenol	ug/kg, dry wt.	0 / 33	0%	0	0				20	20
2-Nitroaniline	ug/kg, dry wt.	0 / 33	0%	0	0				100	100

Table A-09. Summary of subsurface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
2-Nitrophenol	ug/kg, dry wt.	0 / 33	0%	0	0				100	100
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0 / 33	0%	0	0				200	200
3-Methylphenol and 4-Methylphenol Coelution	ug/kg, dry wt.	2 / 33	6%	80	170	125	DR008	SD-DR008-0000A	20	20
3-Nitroaniline	ug/kg, dry wt.	0 / 33	0%	0	0				200	200
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0 / 33	0%	0	0				200	200
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0 / 33	0%	0	0				40	40
4-Chloro-3-methylphenol	ug/kg, dry wt.	0 / 33	0%	0	0				40	40
4-Chloroaniline	ug/kg, dry wt.	0 / 33	0%	0	0				60	60
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0 / 33	0%	0	0				20	20
4-Nitroaniline	ug/kg, dry wt.	0 / 33	0%	0	0				100	100
4-Nitrophenol	ug/kg, dry wt.	0 / 33	0%	0	0				100	100
Acenaphthene	ug/kg, dry wt.	10 / 33	30%	20	150	64.0	DR054	SD-DR054-0020	20	20
Acenaphthylene	ug/kg, dry wt.	6 / 33	18%	20	30	25.0	DR106	SD-DR106-0020	20	20
Anthracene	ug/kg, dry wt.	26 / 33	79%	20	480	118	DR068	SD-DR068-0000A	20	20
Benzo(a)anthracene	ug/kg, dry wt.	31 / 33	94%	30	1500	269	DR054	SD-DR054-0020	20	20
Benzo(a)pyrene	ug/kg, dry wt.	31 / 33	94%	30	1400	296	DR054	SD-DR054-0020	20	20
Benzo(b)fluoranthene	ug/kg, dry wt.	31 / 33	94%	30	1500	334	DR054	SD-DR054-0020	20	20
Benzo(g,h,i)perylene	ug/kg, dry wt.	31 / 33	94%	30	720	169	DR054	SD-DR054-0020	20	20
Benzo(k)fluoranthene	ug/kg, dry wt.	31 / 33	94%	20	1100	262	DR008	SD-DR008-0000A	20	20
Benzofluoranthene (total)	ug/kg, dry wt.	33 / 33	100%	20	2500	562	DR008	SD-DR008-0000A	0	0
Benzoic acid	ug/kg, dry wt.	2 / 33	6%	300	300	300	DR206	SD-DR206-0000A	200	200
Benzyl alcohol	ug/kg, dry wt.	0 / 33	0%	0	0				50	50
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0 / 33	0%	0	0				40	40
bis(2-chloroethyl)ether	ug/kg, dry wt.	0 / 33	0%	0	0				40	40
bis(2-chloroisopropyl)ether	ug/kg, dry wt.	0 / 33	0%	0	0				40	40
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	29 / 33	88%	30	6900	840	DR008	SD-DR008-0000A	20	20
Butyl benzyl phthalate	ug/kg, dry wt.	20 / 33	61%	20	670	103	DR008	SD-DR008-0020	20	20
Carbazole	ug/kg, dry wt.	17 / 33	52%	20	200	68.8	DR054	SD-DR054-0020	20	20
Chrysene	ug/kg, dry wt.	32 / 33	97%	20	1700	343	DR054	SD-DR054-0020	20	20
Dibenzo(a,h)anthracene	ug/kg, dry wt.	23 / 33	70%	20	220	60.9	DR054	SD-DR054-0020	20	20
Dibenzofuran	ug/kg, dry wt.	11 / 33	33%	20	70	36.4	DR008	SD-DR008-0000A	20	20
Diethyl phthalate	ug/kg, dry wt.	0 / 33	0%	0	0				20	20
Dimethyl phthalate	ug/kg, dry wt.	5 / 33	15%	20	40	28.0	DR008	SD-DR008-0000A	20	20

Table A-09. Summary of subsurface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Di-n-butyl phthalate	ug/kg, dry wt.	7	33	21%	20	320	74.3	DR008	SD-DR008-0000A	20	20
Di-n-octyl phthalate	ug/kg, dry wt.	2	33	6%	30	50	40.0	DR021	SD-DR021-0000A	20	20
Fluoranthene	ug/kg, dry wt.	33	33	100%	40	3400	578	DR054	SD-DR054-0020	0	0
Fluorene	ug/kg, dry wt.	14	33	42%	20	170	74.3	DR008	SD-DR008-0000A	20	20
Hexachlorobenzene	ug/kg, dry wt.	0	33	0%	0	0				20	20
Hexachlorobutadiene	ug/kg, dry wt.	0	33	0%	0	0				20	20
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	33	0%	0	0				100	100
Hexachloroethane	ug/kg, dry wt.	0	33	0%	0	0				20	20
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	31	33	94%	20	850	190	DR054	SD-DR054-0020	20	20
Isophorone	ug/kg, dry wt.	0	33	0%	0	0				20	20
Naphthalene	ug/kg, dry wt.	9	33	27%	20	80	40.0	DR008	SD-DR008-0000A	20	20
Nitrobenzene	ug/kg, dry wt.	0	33	0%	0	0				20	20
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	33	0%	0	0				40	40
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	33	0%	0	0				40	40
Pentachlorophenol	ug/kg, dry wt.	2	33	6%	70	300	185	DR206	SD-DR206-0000A	100	100
Phenanthrene	ug/kg, dry wt.	33	33	100%	20	1500	252	DR054	SD-DR054-0020	0	0
Phenol	ug/kg, dry wt.	4	33	12%	20	80	45.0	DR220	SD-DR220-0020	20	20
Pyrene	ug/kg, dry wt.	33	33	100%	40	3800	712	DR008	SD-DR008-0000A	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	33	33	100%	80	15080	3090	DR054	SD-DR054-0020	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	33	33	100%	20	2310	411	DR054	SD-DR054-0020	0	0
Method: *EPA 9060*											
Total Organic Carbon (TOC)	%, dry wt.	33	33	100%	0.79	3.6	2.22	DR008	SD-DR008-0000A	0	0
Method: *Krone et al. 1989*											
Dibutyltin	ug/kg, dry wt.	19	25	76%	7	250	51.7	DR054	SD-DR054-0000A	1	2
n-Butyltin	ug/kg, dry wt.	9	25	36%	7	170	54.2	DR054	SD-DR054-0020	1	65
Tetrabutyltin	ug/kg, dry wt.	4	25	16%	5	40	22.3	DR054	SD-DR054-0020	3	15
Tributyltin	ug/kg, dry wt.	20	25	80%	3	2500	293	DR054	SD-DR054-0000A	1	1
Method: *PSEP, 1986*											
Fractional % (>9525µm)	%, dry wt.	33	33	100%	0	0	0.00	DR171	SD-DR171-0000A	0	0
Fractional % phi 0-1 (500-1000µm)	%, dry wt.	33	33	100%	0.25	7.78	1.75	DR008	SD-DR008-0000A	0	0
Fractional % phi -1-0 (1000-2000µm)	%, dry wt.	33	33	100%	0.01	2.8	0.772	DR054	SD-DR054-0020	0	0
Fractional % phi 10+ (<0.98µm)	%, dry wt.	33	33	100%	1.2	16.05	7.73	DR021	SD-DR021-0020	0	0
Fractional % phi 1-2 (250-500µm)	%, dry wt.	33	33	100%	0.36	23.43	3.83	DR008	SD-DR008-0000A	0	0

Table A-09. Summary of subsurface sediment chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *PSEP, 1986*										
Fractional % phi -2-(-1) (2000-4000µm)	%, dry wt.	33 / 33	100%	0	3.76	0.425	DR021	SD-DR021-0000A	0	0
Fractional % phi 2-3 (125-250µm)	%, dry wt.	33 / 33	100%	0.81	36.47	6.44	DR269	SD-DR269-0020	0	0
Fractional % phi 3-4 (62.5-125µm)	%, dry wt.	33 / 33	100%	0.1	25.85	10.3	DR224	SD-DR224-0000A	0	0
Fractional % phi 4-5 (31.2-62.5µm)	%, dry wt.	33 / 33	100%	3.75	28.53	13.8	DR224	SD-DR224-0000A	0	0
Fractional % phi 5-6 (15.6-31.2µm)	%, dry wt.	33 / 33	100%	5.91	39.66	20.6	DR246	SD-DR246-0020	0	0
Fractional % phi 6-7 (7.8-15.6µm)	%, dry wt.	33 / 33	100%	5.41	31.21	18.8	DR025	SD-DR025-0020	0	0
Fractional % phi 7-8 (3.9-7.8µm)	%, dry wt.	33 / 33	100%	2.24	12.94	8.09	DR025	SD-DR025-0000A	0	0
Fractional % phi 8-9 (1.95-3.9µm)	%, dry wt.	33 / 33	100%	1.21	8.61	4.57	DR068	SD-DR068-0000A	0	0
Fractional % phi 9-10 (0.98-1.95µm)	%, dry wt.	33 / 33	100%	0.31	6.9	3.40	DR021	SD-DR021-0020	0	0
Fractional % Sieve 3/8" (4750-9525 µm)	%, dry wt.	33 / 33	100%	0	11.91	0.646	DR068	SD-DR068-0000A	0	0

Table A-10. Summary of sediment porewater chemistry from EPA Duwamish River Site Inspection (EPA SI)

Event Start Date: *8/11/98*
Event Stop Date: *9/23/98*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*										
Aluminum	ug/L	8 / 15	53%	77	378	172	DR055	PW-DR055-0000	50	77
Antimony	ug/L	1 / 15	7%	30	30	30.0	DR244	PW-DR244-0000	5	50
Arsenic	ug/L	12 / 15	80%	26	114	61.9	DR244	PW-DR244-0000	10	30
Barium	ug/L	15 / 15	100%	4	214	64.2	DR262	PW-DR262-0000	0	0
Beryllium	ug/L	0 / 15	0%	0	0				5	5
Cadmium	ug/L	4 / 15	27%	4	4	4.00	DR244	PW-DR244-0000	5	5
Calcium (total)	ug/L	15 / 15	100%	15300	347000	276000	DR018	PW-DR018-0000	0	0
Chromium	ug/L	0 / 15	0%	0	0				10	10
Cobalt	ug/L	0 / 15	0%	0	0				10	10
Copper	ug/L	4 / 15	27%	1	5	3.25	DR109	PW-DR109-0000	4	4
Iron	ug/L	15 / 15	100%	186	18300	9040	DR244	PW-DR244-0000	0	0
Lead	ug/L	13 / 15	87%	0.6	4	1.57	DR109	PW-DR109-0000	1	1
Magnesium (total)	ug/L	15 / 15	100%	51000	1100000	893000	DR055	PW-DR055-0000	0	0
Manganese	ug/L	15 / 15	100%	13	5440	2000	DR244	PW-DR244-0000	0	0
Nickel	ug/L	0 / 15	0%	0	0				20	30
Potassium (total)	ug/L	15 / 15	100%	41600	373000	291000	DR055	PW-DR055-0000	0	0
Selenium (total)	ug/L	0 / 15	0%	0	0				20	30
Silver	ug/L	6 / 15	40%	0.3	0.5	0.367	DR301	PW-DR301-0000	1	1
Sodium (total)	ug/L	15 / 15	100%	1160000	9730000	7790000	DR038	PW-DR038-0000	0	0
Thallium (total)	ug/L	0 / 15	0%	0	0				1	1
Tin	ug/L	0 / 15	0%	0	0				10	50
Vanadium	ug/L	15 / 15	100%	3	22	13.5	DR244	PW-DR244-0000	0	0
Zinc	ug/L	3 / 15	20%	4	6	5.00	DR140	PW-DR140-0000	10	10
Method: *EPA 7471A*										
Mercury	ug/L	0 / 15	0%	0	0				0.1	0.1
Method: *Krone et al. 1989*										
Dibutyltin	ug/L	4 / 15	27%	0.007	0.01	0.00925	DR038	PW-DR038-0000	0.05	0.05
n-Butyltin	ug/L	0 / 15	0%	0	0				0.05	0.05
Tetrabutyltin	ug/L	0 / 15	0%	0	0				0.05	0.05
Tributyltin	ug/L	8 / 15	53%	0.008	0.08	0.0271	DR055	PW-DR055-0000	0.05	0.05

Table A-11. Summary of surface (0-2 cm) sediment chemistry from King County Water Quality Assessment (KC WQA)

Event Start Date: *2/1/97*
Event Stop Date: *6/1/97*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 1630 (draft)*											
Methylmercury	ug/kg, dry wt.	39	/	39	100%	0.32	2.35	1.10	WQAHAMM	L11248-2	0	0
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	39	/	39	100%	14000	34800	22600	WQAKELL	L10601-2	0	0
Antimony	mg/kg, dry wt.	5	/	39	13%	3.2	4.9	4.02	WQABRAN	L10535-1	2.6	3.6
Arsenic	mg/kg, dry wt.	39	/	39	100%	11	22	15.1	WQABRAN	L11124-1	0	0
Beryllium	mg/kg, dry wt.	39	/	39	100%	0.24	0.72	0.397	WQAKELL	L10931-2	0	0
Cadmium	mg/kg, dry wt.	20	/	39	51%	0.3	0.53	0.383	WQAKELL	L10931-2	0.26	0.36
Calcium (total)	mg/kg, dry wt.	24	/	24	100%	5080	21600	7630	WQABRAN	L10787-1	0	0
Chromium	mg/kg, dry wt.	39	/	39	100%	19.4	40.7	29.1	WQABRAN	L10788-1	0	0
Copper	mg/kg, dry wt.	39	/	39	100%	23.8	78	51.2	WQABRAN	L11178-1	0	0
Iron	mg/kg, dry wt.	39	/	39	100%	20000	42000	29700	WQAKELL	L10601-2	0	0
Lead	mg/kg, dry wt.	39	/	39	100%	8.5	35.3	23.7	WQAKELL	L10931-2	0	0
Magnesium (total)	mg/kg, dry wt.	24	/	24	100%	6380	11600	8680	WQAKELL	L10601-2	0	0
Nickel	mg/kg, dry wt.	39	/	39	100%	17.7	33.3	25.8	WQABRAN	L11178-1	0	0
Potassium (total)	mg/kg, dry wt.	24	/	24	100%	2010	4180	2980	WQAKELL	L10601-2	0	0
Selenium (total)	mg/kg, dry wt.	0	/	39	0%	0	0				4.4	6
Silver	mg/kg, dry wt.	8	/	39	21%	0.42	0.77	0.531	WQABRAN	L10788-1	0.35	0.49
Sodium (total)	mg/kg, dry wt.	24	/	24	100%	8100	14200	11200	WQAKELL	L10601-2	0	0
Thallium (total)	mg/kg, dry wt.	0	/	39	0%	0	0				18	23
Zinc	mg/kg, dry wt.	39	/	39	100%	48.9	126	90.8	WQABRAN	L11178-1	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	39	/	39	100%	0.06	0.36	0.156	WQASOPK	L11188-3	0	0
Method: *EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/	26	0%	0	0				23	30
Aroclor-1221	ug/kg, dry wt.	0	/	26	0%	0	0				23	30
Aroclor-1232	ug/kg, dry wt.	0	/	26	0%	0	0				23	30
Aroclor-1242	ug/kg, dry wt.	0	/	26	0%	0	0				23	30
Aroclor-1248	ug/kg, dry wt.	3	/	26	12%	41	54	48.7	WQASOPK	L11188-3	23	30
Aroclor-1254	ug/kg, dry wt.	21	/	26	81%	36	140	68.7	WQASOPK	L11124-3	23	26
Aroclor-1260	ug/kg, dry wt.	14	/	26	54%	41	190	78.4	WQASOPK	L11124-3	23	30
PCBs (total-calc'd)	ug/kg, dry wt.	21	/	26	81%	36	381	128	WQASOPK	L11124-3	23	26
Method: *EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0	/	26	0%	0	0				1.2	1.6

Table A-11. Summary of surface (0-2 cm) sediment chemistry from King County Water Quality Assessment (KC WQA)

Event Start Date: *2/1/97*
Event Stop Date: *6/1/97*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
1,2-Dichlorobenzene	ug/kg, dry wt.	2	/	26	8%	1.7	2.7	2.20	WQAKELL	L10930-2	1.2	1.6
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	/	26	0%	0	0				93	120
1,3-Dichlorobenzene	ug/kg, dry wt.	3	/	26	12%	1.6	2.4	1.97	WQA8AVE	L10535-3	1.2	1.6
1,4-Dichlorobenzene	ug/kg, dry wt.	15	/	26	58%	1.6	4	2.61	WQABRAN	L11248-1	1.2	1.6
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/	26	0%	0	0				190	260
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/	26	0%	0	0				190	260
2,4-Dichlorophenol	ug/kg, dry wt.	0	/	26	0%	0	0				48	63
2,4-Dimethylphenol	ug/kg, dry wt.	0	/	26	0%	0	0				48	63
2,4-Dinitrophenol	ug/kg, dry wt.	0	/	26	0%	0	0				93	120
2,4-Dinitrotoluene	ug/kg, dry wt.	0	/	26	0%	0	0				19	26
2,6-Dinitrotoluene	ug/kg, dry wt.	0	/	26	0%	0	0				19	26
2-Chloronaphthalene	ug/kg, dry wt.	0	/	26	0%	0	0				28	37
2-Chlorophenol	ug/kg, dry wt.	0	/	26	0%	0	0				93	120
2-Methylnaphthalene	ug/kg, dry wt.	0	/	26	0%	0	0				76	100
2-Methylphenol	ug/kg, dry wt.	1	/	26	4%	58	58	58.0	WQA8AVE	L10601-3	48	63
2-Nitroaniline	ug/kg, dry wt.	0	/	26	0%	0	0				190	260
2-Nitrophenol	ug/kg, dry wt.	0	/	26	0%	0	0				48	63
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	26	0%	0	0				48	63
3-Nitroaniline	ug/kg, dry wt.	0	/	26	0%	0	0				190	260
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	26	0%	0	0				93	120
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	26	0%	0	0				19	26
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	26	0%	0	0				93	120
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	26	0%	0	0				28	37
4-Methylphenol	ug/kg, dry wt.	1	/	26	4%	66	66	66.0	WQA8AVE	L10601-3	48	63
4-Nitroaniline	ug/kg, dry wt.	0	/	26	0%	0	0				190	260
4-Nitrophenol	ug/kg, dry wt.	0	/	26	0%	0	0				93	120
Acenaphthene	ug/kg, dry wt.	14	/	26	54%	24	89	54.8	WQA8AVE	L10601-3	19	26
Acenaphthylene	ug/kg, dry wt.	0	/	26	0%	0	0				28	37
Anthracene	ug/kg, dry wt.	16	/	26	62%	36	140	82.3	WQABRAN	L10601-1	28	36
Benzidine	ug/kg, dry wt.	0	/	26	0%	0	0				1100	1500
Benzo(a)anthracene	ug/kg, dry wt.	26	/	26	100%	32	350	177	WQABRAN	L11248-1	0	0
Benzo(a)pyrene	ug/kg, dry wt.	22	/	26	85%	74	270	170	WQABRAN	L10535-1	48	53
Benzo(b)fluoranthene	ug/kg, dry wt.	24	/	26	92%	92	538	329	WQABRAN	L11248-1	76	77

Table A-11. Summary of surface (0-2 cm) sediment chemistry from King County Water Quality Assessment (KC WQA)

Event Start Date: *2/1/97*
Event Stop Date: *6/1/97*

ParameterName	Units	Det. Freq.		Detected Concentration Summary				Location of Max	Sample ID of Max.	Reporting Limit Summary	
				Min	Max	Average				Min	Max
Method: *EPA 8270*											
Benzo(g,h,i)perylene	ug/kg, dry wt.	23	26	88%	55	320	124	WQABRAN	L10787-1	48	50
Benzo(k)fluoranthene	ug/kg, dry wt.	19	26	73%	85	240	157	WQABRAN	L11248-1	76	85
Benzoic acid	ug/kg, dry wt.	2	26	8%	220	300	260	WQA8AVE	L10601-3	190	260
Benzyl alcohol	ug/kg, dry wt.	0	26	0%	0	0				48	63
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	26	0%	0	0				48	63
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	26	0%	0	0				28	37
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	26	26	100%	106	764	412	WQABRAN	L10535-1	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0	26	0%	0	0				93	120
Butyl benzyl phthalate	ug/kg, dry wt.	11	26	42%	32	47	39.6	WQABRAN	L10601-1	28	37
Carbazole	ug/kg, dry wt.	0	26	0%	0	0				48	63
Chrysene	ug/kg, dry wt.	26	26	100%	45	520	265	WQABRAN	L11248-1	0	0
Coprostanol	ug/kg, dry wt.	14	26	54%	440	2720	1610	WQABRAN	L10785-1	190	240
Dibenzo(a,h)anthracene	ug/kg, dry wt.	0	26	0%	0	0				76	100
Dibenzofuran	ug/kg, dry wt.	4	26	15%	55	76	66.0	WQA8AVE	L10601-3	48	63
Diethyl phthalate	ug/kg, dry wt.	0	26	0%	0	0				48	63
Dimethyl phthalate	ug/kg, dry wt.	0	26	0%	0	0				19	26
Di-n-butyl phthalate	ug/kg, dry wt.	1	26	4%	54	54	54.0	WQA8AVE	L10601-3	48	63
Di-n-octyl phthalate	ug/kg, dry wt.	0	26	0%	0	0				28	37
Fluoranthene	ug/kg, dry wt.	26	26	100%	80	1100	468	WQABRAN	L10930-1	0	0
Fluorene	ug/kg, dry wt.	12	26	46%	37	130	78.3	WQABRAN	L10930-1	28	37
Hexachlorobenzene	ug/kg, dry wt.	4	26	15%	1.9	3.5	2.80	WQA8AVE	L10930-3	1.2	1.6
Hexachlorobutadiene	ug/kg, dry wt.	0	26	0%	0	0				48	63
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	26	0%	0	0				48	63
Hexachloroethane	ug/kg, dry wt.	0	26	0%	0	0				48	63
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	23	26	88%	57	200	125	WQABRAN	L11248-1	48	50
Isophorone	ug/kg, dry wt.	0	26	0%	0	0				48	63
Naphthalene	ug/kg, dry wt.	0	26	0%	0	0				76	100
Nitrobenzene	ug/kg, dry wt.	0	26	0%	0	0				48	63
N-Nitrosodimethylamine	ug/kg, dry wt.	0	26	0%	0	0				190	260
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	26	0%	0	0				48	63
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	26	0%	0	0				48	63
Pentachlorophenol	ug/kg, dry wt.	0	26	0%	0	0				48	63
Phenanthrene	ug/kg, dry wt.	26	26	100%	52	650	235	WQABRAN	L10930-1	0	0

Table A-11. Summary of surface (0-2 cm) sediment chemistry from King County Water Quality Assessment (KC WQA)

Event Start Date: *2/1/97*
Event Stop Date: *6/1/97*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Phenol	ug/kg, dry wt.	0	/	26	0%	0	0			190	260
Pyrene	ug/kg, dry wt.	26	/	26	100%	73	820	402	WQABRAN	L10930-1	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	26	/	26	100%	230	3978	2100	WQABRAN	L11248-1	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	26	/	26	100%	52	988.2	351	WQABRAN	L10930-1	0	0
Method: *EPA 9030B*											
Sulfides (total)	mg/kg, dry wt.	25	/	39	64%	26.6	282	81.3	WQASOPK	L11188-3	18	24
Method: *PSEP, 1986*											
Clay (percent)	%, dry wt.	39	/	39	100%	3.2	34.3	18.7	WQAKELL	L10787-2	0	0
Fines (percent silt+clay)	%, dry wt.	39	/	39	100%	42.3	96.2	78.8	WQAKELL	L10623-2	0	0
Gravel (percent)	%, dry wt.	34	/	39	87%	0.2	1.6	0.541	WQABRAN	L11124-1	0.1	0.1
Sand (percent)	%, dry wt.	39	/	39	100%	3.5	57.4	21.0	WQAHAMM	L11178-2	0	0
Silt (percent)	%, dry wt.	39	/	39	100%	39.1	76	60.1	WQA8AVE	L10535-3	0	0
Method: *SM 2540-B*											
Total solids	%, dry wt.	39	/	39	100%	41.3	56.7	49.6	WQAHAMM	L11188-2	0	0
Method: *SM 5310-B*											
Total Organic Carbon (TOC)	%, dry wt.	39	/	39	100%	1.56	2.77	2.13	WQABRAN	L11178-1	0	0
Method: *SM4500-NH3*											
Ammonia	mg/kg, dry wt.	39	/	39	100%	4.55	69	10.1	WQA8AVE	L10931-3	0	0

Table A-12. Summary of surface (0-10 cm) sediment chemistry from King County Water Quality Assessment (KC WQA)

Event Start Date: *2/1/97*
Event Stop Date: *6/1/97*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*											
Antimony	mg/kg, dry wt.	8	/	18	44%	2.8	5.2	3.91	DD-4	L12666-6	2.3	3.4
Arsenic	mg/kg, dry wt.	17	/	18	94%	6.6	23	15.3	KI-1	L12666-8	4.4	4.4
Beryllium	mg/kg, dry wt.	17	/	18	94%	0.1	0.58	0.374	KI-3	L12666-11	0.09	0.09
Cadmium	mg/kg, dry wt.	12	/	18	67%	0.39	1.6	0.855	DD-2	L12666-2	0.23	0.33
Chromium	mg/kg, dry wt.	18	/	18	100%	11.7	54.1	36.9	DD-1	L12059-1	0	0
Copper	mg/kg, dry wt.	18	/	18	100%	14.8	108	72.9	DD-3	L12666-4	0	0
Lead	mg/kg, dry wt.	18	/	18	100%	7	134	58.8	DD-1	L12059-1	0	0
Nickel	mg/kg, dry wt.	18	/	18	100%	6.7	41.9	29.2	DD-3	L12666-4	0	0
Selenium (total)	mg/kg, dry wt.	0	/	18	0%	0	0				3.6	5.6
Silver	mg/kg, dry wt.	2	/	18	11%	0.31	0.75	0.530	DD-2	L12666-2	0.29	0.45
Thallium (total)	mg/kg, dry wt.	0	/	18	0%	0	0				15	22
Zinc	mg/kg, dry wt.	18	/	18	100%	28	290	157	DD-1	L12666-1	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	5	/	6	83%	0.15	0.37	0.230	DD-5	L12059-5	0.03	0.03
Method: *EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/	18	0%	0	0				20	29
Aroclor-1221	ug/kg, dry wt.	0	/	18	0%	0	0				20	29
Aroclor-1232	ug/kg, dry wt.	0	/	18	0%	0	0				20	29
Aroclor-1242	ug/kg, dry wt.	0	/	18	0%	0	0				20	29
Aroclor-1248	ug/kg, dry wt.	8	/	18	44%	44	300	120	DD-3	L12666-4	20	29
Aroclor-1254	ug/kg, dry wt.	9	/	18	50%	26	66	45.1	DD-5	L12666-7	20	29
Aroclor-1260	ug/kg, dry wt.	9	/	18	50%	35	82	52.3	DD-2	L12666-3	20	29
PCBs (total-calc'd)	ug/kg, dry wt.	12	/	18	67%	29	366	153	DD-3	L12666-4	20	29
Method: *EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0	/	18	0%	0	0				1	1.5
1,2-Dichlorobenzene	ug/kg, dry wt.	0	/	18	0%	0	0				1	1.5
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	/	18	0%	0	0				80	120
1,3-Dichlorobenzene	ug/kg, dry wt.	0	/	18	0%	0	0				1	1.5
1,4-Dichlorobenzene	ug/kg, dry wt.	6	/	18	33%	8.8	90	44.1	DD-1	L12059-1	1	1.5
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/	18	0%	0	0				170	250
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/	18	0%	0	0				170	250
2,4-Dichlorophenol	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
2,4-Dimethylphenol	ug/kg, dry wt.	1	/	18	6%	290	290	290	DD-2	L12666-3	41	61

Table A-12. Summary of surface (0-10 cm) sediment chemistry from King County Water Quality Assessment (KC WQA)

Event Start Date: *2/1/97*
Event Stop Date: *6/1/97*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
2,4-Dinitrophenol	ug/kg, dry wt.	0	/	18	0%	0	0			80	120
2,4-Dinitrotoluene	ug/kg, dry wt.	0	/	18	0%	0	0			17	25
2,6-Dinitrotoluene	ug/kg, dry wt.	0	/	18	0%	0	0			17	25
2-Chloronaphthalene	ug/kg, dry wt.	0	/	18	0%	0	0			24	36
2-Chlorophenol	ug/kg, dry wt.	0	/	18	0%	0	0			80	120
2-Methylnaphthalene	ug/kg, dry wt.	2	/	18	11%	75	100	87.5	DD-1	L12666-1	65	96
2-Methylphenol	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
2-Nitroaniline	ug/kg, dry wt.	0	/	18	0%	0	0				170	250
2-Nitrophenol	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
3-Nitroaniline	ug/kg, dry wt.	0	/	18	0%	0	0				170	250
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	18	0%	0	0				80	120
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	18	0%	0	0				17	25
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	18	0%	0	0				80	120
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	18	0%	0	0				24	36
4-Methylphenol	ug/kg, dry wt.	4	/	18	22%	170	477	322	DD-1	L12059-1	41	61
4-Nitroaniline	ug/kg, dry wt.	0	/	18	0%	0	0				170	250
4-Nitrophenol	ug/kg, dry wt.	0	/	18	0%	0	0				80	120
Acenaphthene	ug/kg, dry wt.	5	/	18	28%	34	144	80.6	DD-1	L12059-1	17	24
Acenaphthylene	ug/kg, dry wt.	0	/	18	0%	0	0				24	36
Anthracene	ug/kg, dry wt.	15	/	18	83%	37	390	131	DD-1	L12059-1	24	34
Benzidine	ug/kg, dry wt.	0	/	18	0%	0	0				960	1400
Benzo(a)anthracene	ug/kg, dry wt.	18	/	18	100%	27	1100	268	DD-1	L12059-1	0	0
Benzo(a)pyrene	ug/kg, dry wt.	16	/	18	89%	87	1200	332	DD-1	L12059-1	41	45
Benzo(b)fluoranthene	ug/kg, dry wt.	16	/	18	89%	130	1830	519	DD-1	L12059-1	65	72
Benzo(g,h,i)perylene	ug/kg, dry wt.	17	/	18	94%	47	450	158	DD-1	L12059-1	45	45
Benzo(k)fluoranthene	ug/kg, dry wt.	13	/	18	72%	92	740	263	DD-1	L12059-1	65	95
Benzoic acid	ug/kg, dry wt.	0	/	18	0%	0	0				170	250
Benzyl alcohol	ug/kg, dry wt.	1	/	18	6%	48	48	48.0	DD-1	L12666-1	41	61
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	18	0%	0	0				24	36
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	18	/	18	100%	32	7770	1940	DD-2	L12666-3	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0	/	18	0%	0	0				80	120

Table A-12. Summary of surface (0-10 cm) sediment chemistry from King County Water Quality Assessment (KC WQA)

Event Start Date: *2/1/97*
Event Stop Date: *6/1/97*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Butyl benzyl phthalate	ug/kg, dry wt.	6	/	18	33%	236	874	432	DD-1	L12666-1	24	35
Carbazole	ug/kg, dry wt.	6	/	18	33%	87	329	187	DD-1	L12059-1	41	59
Chrysene	ug/kg, dry wt.	17	/	18	94%	26	1380	412	DD-1	L12059-1	27	27
Coprostanol	ug/kg, dry wt.	6	/	18	33%	1100	3790	2230	DD-1	L12666-1	410	590
Dibenzo(a,h)anthracene	ug/kg, dry wt.	2	/	18	11%	69	110	89.5	DD-1	L12059-1	65	96
Dibenzofuran	ug/kg, dry wt.	2	/	18	11%	51	85	68.0	DD-1	L12666-1	41	61
Diethyl phthalate	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
Dimethyl phthalate	ug/kg, dry wt.	3	/	18	17%	44.7	147	88.8	DD-1	L12059-1	17	25
Di-n-butyl phthalate	ug/kg, dry wt.	5	/	18	28%	54	239	139	DD-2	L12666-3	41	61
Di-n-octyl phthalate	ug/kg, dry wt.	4	/	18	22%	397	798	588	DD-1	L12666-1	24	35
Fluoranthene	ug/kg, dry wt.	18	/	18	100%	39	2800	696	DD-1	L12059-1	0	0
Fluorene	ug/kg, dry wt.	6	/	18	33%	48	240	138	DD-1	L12059-1	24	35
Hexachlorobenzene	ug/kg, dry wt.	0	/	18	0%	0	0				1	1.5
Hexachlorobutadiene	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
Hexachloroethane	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	15	/	18	83%	63	580	168	DD-1	L12059-1	41	57
Isophorone	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
Naphthalene	ug/kg, dry wt.	0	/	18	0%	0	0				65	96
Nitrobenzene	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
N-Nitrosodimethylamine	ug/kg, dry wt.	0	/	18	0%	0	0				170	250
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
Pentachlorophenol	ug/kg, dry wt.	0	/	18	0%	0	0				41	61
Phenanthrene	ug/kg, dry wt.	17	/	18	94%	26	2000	433	DD-1	L12059-1	27	27
Phenol	ug/kg, dry wt.	0	/	18	0%	0	0				170	250
Pyrene	ug/kg, dry wt.	18	/	18	100%	45	2700	660	DD-1	L12059-1	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	18	/	18	100%	111	12890	3260	DD-1	L12059-1	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	17	/	18	94%	26	2774	621	DD-1	L12059-1	72	72
Method: *Krone et al. 1989*											
Tetrabutyltin	ug/kg, dry wt.	1	/	17	6%	2.29	2.29	2.29	DD-5	L12666-7	0.6	32
Method: *PSEP, 1986*											
Clay (percent)	%, dry wt.	18	/	18	100%	2.9	33.1	19.5	KI-2	L12059-7	0	0

Table A-12. Summary of surface (0-10 cm) sediment chemistry from King County Water Quality Assessment (KC WQA)

Event Start Date: *2/1/97*
Event Stop Date: *6/1/97*

Parameter Name	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *PSEP, 1986*										
Fines (percent silt+clay)	%, dry wt.	18 / 18	100%	14.6	94.1	65.6	KI-3	L12666-11	0	0
Gravel (percent)	%, dry wt.	10 / 18	56%	0.11	19.4	2.69	DD-2	L12666-3	0.1	0.1
Sand (percent)	%, dry wt.	18 / 18	100%	5.8	82.9	32.8	DD-1	L12059-1	0	0
Silt (percent)	%, dry wt.	18 / 18	100%	11.1	64.2	46.1	KI-1	L12666-8	0	0
Method: *SM 2540-B*										
Total solids	%, dry wt.	18 / 18	100%	44.6	66.6	52.9	KI-4	L12666-12	0	0
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	%, dry wt.	18 / 18	100%	0.71	5.09	2.63	DD-3	L12666-4	0	0

Table A-13. Summary of surface sediment chemistry from Phase I Site Characterization (Boeing SiteChar)

Event Start Date: *10/8/97*
Event Stop Date: *10/19/97*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*										
Arsenic	mg/kg, dry wt.	91 / 91	100%	1.9	79.4	12.3	R22	SD0001	0	0
Cadmium	mg/kg, dry wt.	17 / 91	19%	0.4	2.2	0.929	R14	SD0065	0.2	0.7
Chromium	mg/kg, dry wt.	91 / 91	100%	5	76	28.1	R22	SD0001	0	0
Copper	mg/kg, dry wt.	91 / 91	100%	5	169	44.6	R45	SD0070	0	0
Lead	mg/kg, dry wt.	91 / 91	100%	2	221	30.8	R23	SD0020	0	0
Nickel	mg/kg, dry wt.	89 / 91	98%	5	43	25.7	R3	SD0054	29	32
Silver	mg/kg, dry wt.	20 / 91	22%	0.3	5.7	1.08	R14	SD0065	0.2	0.7
Zinc	mg/kg, dry wt.	89 / 91	98%	16	290	101	R22	SD0001	128	340
Method: *EPA 7471*										
Mercury	mg/kg, dry wt.	55 / 91	60%	0.07	0.38	0.127	R10	SD0063	0.05	0.1
Method: *EPA 8080*										
Aroclor-1016	ug/kg, dry wt.	0 / 91	0%	0	0				18	50
Aroclor-1221	ug/kg, dry wt.	0 / 91	0%	0	0				36	99
Aroclor-1232	ug/kg, dry wt.	0 / 91	0%	0	0				18	50
Aroclor-1242	ug/kg, dry wt.	31 / 91	34%	7.8	66	18.1	R84	SD0082	18	6100
Aroclor-1248	ug/kg, dry wt.	7 / 91	8%	140	8200	1470	R86	SD0091	18	1900
Aroclor-1254	ug/kg, dry wt.	82 / 91	90%	13	14000	335	R14	SD0065	19	1400
Aroclor-1260	ug/kg, dry wt.	69 / 91	76%	13	2400	166	R14	SD0065	19	65
PCBs (total-calc'd)	ug/kg, dry wt.	86 / 91	95%	13	16400	579	R14	SD0065	37	41
Method: *EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0 / 91	0%	0	0				19	200
1,2-Dichlorobenzene	ug/kg, dry wt.	0 / 91	0%	0	0				19	200
1,3-Dichlorobenzene	ug/kg, dry wt.	0 / 91	0%	0	0				19	200
1,4-Dichlorobenzene	ug/kg, dry wt.	1 / 91	1%	1300	1300	1300	R88	SD0078	19	200
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 91	0%	0	0				93	2000
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 91	0%	0	0				93	2000
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 91	0%	0	0				56	1200
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 91	0%	0	0				19	200
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 91	0%	0	0				19	2000
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 91	0%	0	0				93	980
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 91	0%	0	0				93	980
2-Chloronaphthalene	ug/kg, dry wt.	0 / 91	0%	0	0				19	200
2-Chlorophenol	ug/kg, dry wt.	0 / 91	0%	0	0				19	200

Table A-13. Summary of surface sediment chemistry from Phase I Site Characterization (Boeing SiteChar)

Event Start Date: *10/8/97*
Event Stop Date: *10/19/97*

ParameterName	Units	Det. Freq.		Detected Concentration Summary						Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
2-Fluorobiphenyl	%, dry wt.	91	91	100%	42.7	85.3	65.8	R82	SD0083	0	0
2-Fluorophenol	%, dry wt.	90	91	99%	31.4	88.1	54.1	R12	SD0064	53	53
2-Methylnaphthalene	ug/kg, dry wt.	16	91	18%	20	290	59.4	R40	SD0032	19	110
2-Methylphenol	ug/kg, dry wt.	0	91	0%	0	0				19	200
2-Nitroaniline	ug/kg, dry wt.	0	91	0%	0	0				93	2000
2-Nitrophenol	ug/kg, dry wt.	0	91	0%	0	0				93	2000
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	91	0%	0	0				93	980
3-Nitroaniline	ug/kg, dry wt.	0	91	0%	0	0				110	1200
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	91	0%	0	0				190	2000
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	91	0%	0	0				19	200
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	91	0%	0	0				37	390
4-Chloroaniline	ug/kg, dry wt.	0	91	0%	0	0				56	590
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	91	0%	0	0				19	200
4-Methylphenol	ug/kg, dry wt.	15	91	16%	20	86	38.2	R2	SD0058	19	200
4-Nitroaniline	ug/kg, dry wt.	0	91	0%	0	0				93	980
4-Nitrophenol	ug/kg, dry wt.	0	91	0%	0	0				93	980
Acenaphthene	ug/kg, dry wt.	36	91	40%	20	3300	206	R40	SD0032	19	20
Acenaphthylene	ug/kg, dry wt.	6	91	7%	19	27	22.8	R15	SD0066	19	200
Anthracene	ug/kg, dry wt.	60	91	66%	20	9300	291	R40	SD0032	19	20
Benzo(a)anthracene	ug/kg, dry wt.	89	91	98%	25	21000	589	R40	SD0032	19	19
Benzo(a)pyrene	ug/kg, dry wt.	88	91	97%	28	21000	654	R40	SD0032	19	19
Benzo(b)fluoranthene	ug/kg, dry wt.	88	91	97%	41	18000	640	R40	SD0032	19	4400
Benzo(g,h,i)perylene	ug/kg, dry wt.	88	91	97%	30	14000	416	R40	SD0032	19	19
Benzo(k)fluoranthene	ug/kg, dry wt.	89	91	98%	35	14000	545	R40	SD0032	19	19
Benzoic acid	ug/kg, dry wt.	0	91	0%	0	0				19	2000
Benzyl alcohol	ug/kg, dry wt.	2	91	2%	23	27	25.0	R22	SD0001	19	200
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	91	0%	0	0				19	400
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	91	0%	0	0				37	390
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	90	91	99%	58	3500	449	R3	SD0054	19	19
bis-chloroisopropyl ether	ug/kg, dry wt.	0	91	0%	0	0				19	400
Butyl benzyl phthalate	ug/kg, dry wt.	60	91	66%	20	320	54.8	R3	SD0054	19	200
Carbazole	ug/kg, dry wt.	64	91	70%	20	7500	284	R40	SD0032	19	20
Chrysene	ug/kg, dry wt.	89	91	98%	47	21000	741	R40	SD0032	19	19

Table A-13. Summary of surface sediment chemistry from Phase I Site Characterization (Boeing SiteChar)

Event Start Date: *10/8/97*
Event Stop Date: *10/19/97*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
Dibenzo(a,h)anthracene	ug/kg, dry wt.	66	91	73%	20	7200	240	R40	SD0032	19	20
Dibenzofuran	ug/kg, dry wt.	39	91	43%	19	2300	129	R40	SD0032	19	20
Diethyl phthalate	ug/kg, dry wt.	1	91	1%	44	44	44.0	R11	SD0068	19	200
Dimethyl phthalate	ug/kg, dry wt.	18	91	20%	19	200	49.3	R23	SD0020	19	200
Di-n-butyl phthalate	ug/kg, dry wt.	17	91	19%	21	100	44.4	R77	SD0050	19	210
Di-n-octyl phthalate	ug/kg, dry wt.	15	91	16%	22	250	69.8	R11	SD0068	19	200
Fluoranthene	ug/kg, dry wt.	90	91	99%	19	62000	1680	R40	SD0032	1400	1400
Fluorene	ug/kg, dry wt.	43	91	47%	20	4400	191	R40	SD0032	19	220
Hexachlorobenzene	ug/kg, dry wt.	31	91	34%	0.4	9.8	1.47	R19	SD0019	0.9	97
Hexachlorobutadiene	ug/kg, dry wt.	0	91	0%	0	0				19	200
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	91	0%	0	0				93	2000
Hexachloroethane	ug/kg, dry wt.	0	91	0%	0	0				19	200
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	88	91	97%	26	15000	469	R40	SD0032	19	400
Isophorone	ug/kg, dry wt.	0	90	0%	0	0				19	200
Naphthalene	ug/kg, dry wt.	17	91	19%	21	230	67.4	R40	SD0032	19	110
Nitrobenzene	ug/kg, dry wt.	0	91	0%	0	0				19	2000
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	91	0%	0	0				37	3900
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	91	0%	0	0				19	2000
Pentachlorophenol	ug/kg, dry wt.	2	43	5%	97	97	97.0	R73	SD0040	93	190
Phenanthrene	ug/kg, dry wt.	89	91	98%	43	43000	996	R40	SD0032	19	850
Phenol	ug/kg, dry wt.	25	91	27%	20	230	55.8	R41	SD0034	19	2000
Pyrene	ug/kg, dry wt.	87	91	96%	22	48000	1340	R40	SD0032	700	5400
Total HPAH (calc'd)	ug/kg, dry wt.	91	91	100%	41	241200	7060	R40	SD0032	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	90	91	99%	43	60230	1370	R40	SD0032	19	19
Method: *PSEP, 1986*										
% Passing phi 4 (<62.5µm)	%, dry wt.	90	91	99%	1	31	17.9	R88	SD0078	17	17
% Passing phi 5 (<31.2µm)	%, dry wt.	89	89	100%	4	49	20.6	R14	SD0065	0	0
% Passing phi 6 (<15.6µm)	%, dry wt.	87	89	98%	2	31	14.7	R46	SD0092	18	18
% Passing phi 7 (<7.8µm)	%, dry wt.	86	89	97%	1	18	7.39	R44	SD0071	11	13
% Passing phi 8 (<3.9µm)	%, dry wt.	86	89	97%	1	9	3.98	R43	SD0090	5	8
% Passing phi 9 (<1.95µm)	%, dry wt.	86	89	97%	0	5	2.40	R41	SD0034	3	4
Fractional % phi >-3 (>8000µm)	%, dry wt.	3	3	100%	2	4	3.33	R22	SD0001	0	0
Fractional % phi 0-1 (500-1000µm)	%, dry wt.	86	90	96%	0	65	4.41	REF-2	SD0077	1	12

Table A-13. Summary of surface sediment chemistry from Phase I Site Characterization (Boeing SiteChar)

Event Start Date: *10/8/97*
Event Stop Date: *10/19/97*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *PSEP, 1986*										
Fractional % phi -1-0 (1000-2000µm)	%, dry wt.	61 / 64	95%	0	16	2.13	R78	SD0047	1	4
Fractional % phi 10+ (<0.98µm)	%, dry wt.	86 / 89	97%	1	11	5.12	R46	SD0092	6	8
Fractional % phi 1-2 (250-500µm)	%, dry wt.	90 / 91	99%	0	36	5.24	R80	SD0052	4	4
Fractional % phi -2-(-1) (2000-4000µm)	%, dry wt.	34 / 35	97%	0	7	1.40	R18	SD0018	3	3
Fractional % phi 2-3 (125-250µm)	%, dry wt.	91 / 91	100%	0	26	5.84	REF-3	SD0075	0	0
Fractional % phi -3-(-2) (4000-8000µm)	%, dry wt.	12 / 12	100%	1	3	1.50	R7	SD0056	0	0
Fractional % phi 3-4 (62.5-125µm)	%, dry wt.	91 / 91	100%	0	30	10.9	R72	SD0045	0	0
Method: *SM 2540-B*										
Total solids	%, dry wt.	90 / 91	99%	37.4	78.4	51.0	REF-2	SD0077	48.6	48.6
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	%, dry wt.	89 / 91	98%	0.43	3.8	1.74	R4	SD0059	1.4	1.9

Table A-14. Summary of surface sediment chemistry from Duwamish Waterway Characterization chemistry report (NOAA SiteChar)

Event Start Date: *9/15/97*
Event Stop Date: *11/13/97*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*										
PCTs (total)	ppb	286	/ 328	87%	1.8	5600	59.5	EIT076	EIT09-03	1.6	8.1
Method: *HPLC/PDA*										
PCB-101	ug/kg, dry wt.	302	/ 324	93%	0.41	5600	99.8	EIT070	EIT08-02	0.12	2.6
PCB-105	ug/kg, dry wt.	254	/ 321	79%	0.25	560	11.7	EIT070	EIT08-02	0.12	2.2
PCB-110	ug/kg, dry wt.	291	/ 326	89%	0.22	3000	41.4	EIT070	EIT08-02	0.12	6.6
PCB-118	ug/kg, dry wt.	245	/ 325	75%	0.42	2200	32.7	EIT070	EIT08-02	0.12	8.3
PCB-126	ug/kg, dry wt.	1	/ 325	0%	0.65	0.65	0.650	WIT280	WIT11-01	0.1	2
PCB-128	ug/kg, dry wt.	192	/ 321	60%	0.35	620	22.4	EIT070	EIT08-02	0.13	13
PCB-138	ug/kg, dry wt.	292	/ 326	90%	0.21	1400	26.7	EIT070	EIT08-02	0.13	1.3
PCB-153	ug/kg, dry wt.	292	/ 323	90%	0.48	3000	70.6	EIT070	EIT08-02	0.12	4.4
PCB-156	ug/kg, dry wt.	141	/ 326	43%	0.33	160	5.73	EIT070	EIT08-02	0.08	1.7
PCB-157	ug/kg, dry wt.	60	/ 324	19%	0.36	56	5.13	EIT070	EIT08-02	0.08	1.5
PCB-169	ug/kg, dry wt.	0	/ 326	0%	0	0				0.25	4.8
PCB-170	ug/kg, dry wt.	251	/ 326	77%	0.19	560	17.5	WST323	WST09-02	0.08	14
PCB-180	ug/kg, dry wt.	253	/ 326	78%	0.19	970	26.0	WST323	WST09-02	0.11	9.5
PCB-189	ug/kg, dry wt.	19	/ 326	6%	0.78	12	4.36	WST323	WST09-02	0.11	2.2
PCB-77	ug/kg, dry wt.	18	/ 326	6%	0.7	26	4.36	WIT280	WIT11-01	0.11	2.1
PCBs (total-calc'd, non-standard)	ppb, dry wt.	322	/ 326	99%	1.6	25000	421	EIT070	EIT08-02	0.56	0.79
PCBs + PCTs (total)	ppb, dry wt.	323	/ 326	99%	1.6	26000	455	EIT070	EIT08-02	0.56	0.63
Method: *PSEP, 1986*										
Total Organic Carbon (TOC)	%, dry wt.	328	/ 328	100%	0.05	5.05	1.52	WIT296	WIT13-05	0	0
Method: *Sweet et al. 1994*										
Clay (percent)	%, dry wt.	328	/ 328	100%	0.13	44.27	17.0	WST370	WST21-01	0	0
Fines (percent silt+clay)	%, dry wt.	328	/ 328	100%	0.19	99.78	61.1	EST130	EST07-02	0	0
Gravel (percent)	%, dry wt.	328	/ 328	100%	0	60	3.53	EIT070	EIT08-02	0	0
Sand (percent)	%, dry wt.	328	/ 328	100%	0.22	99.56	35.4	EST103	EST02-02	0	0
Silt (percent)	%, dry wt.	328	/ 328	100%	0	77	44.1	EST150	EST11-02	0	0

Table A-15. Summary of surface sediment chemistry from King County CSO sediment monitoring - 1996 (KC CSO 96)

Event Start Date: *9/24/96*
Event Stop Date: *9/30/96*

ParameterName	Units	Det. Freq.			Detected Concentration Summary						Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.		Min	Max
Method: *EPA 6010*												
Aluminum	mg/kg, dry wt.	8	/	8	100%	10600	26500	17700	HN20S	L10422-2	0	0
Antimony	mg/kg, dry wt.	2	/	8	25%	2.7	3.3	3.00	CH00	L10422-4	2.6	3.9
Arsenic	mg/kg, dry wt.	8	/	8	100%	8.5	21.3	15.0	CH20S	L10422-5	0	0
Barium	mg/kg, dry wt.	8	/	8	100%	56.3	101	80.1	CH20S	L10422-5	0	0
Beryllium	mg/kg, dry wt.	8	/	8	100%	0.09	0.33	0.183	HN20S	L10422-2	0	0
Cadmium	mg/kg, dry wt.	7	/	8	88%	0.56	1.93	1.10	HN10N	L10422-1	0.39	0.39
Chromium	mg/kg, dry wt.	8	/	8	100%	19.6	104	49.5	CN20N	L10422-8	0	0
Copper	mg/kg, dry wt.	8	/	8	100%	58.7	531	162	CN20N	L10422-8	0	0
Iron	mg/kg, dry wt.	8	/	8	100%	19800	38700	29200	HN20S	L10422-2	0	0
Lead	mg/kg, dry wt.	8	/	8	100%	29.7	142	93.7	HN10N	L10422-1	0	0
Magnesium (total)	mg/kg, dry wt.	8	/	8	100%	5280	11100	7710	CN20N	L10422-8	0	0
Manganese	mg/kg, dry wt.	8	/	8	100%	191	338	261	HN20S	L10422-2	0	0
Nickel	mg/kg, dry wt.	8	/	8	100%	16.8	42.7	31.3	CN20N	L10422-8	0	0
Potassium (total)	mg/kg, dry wt.	8	/	8	100%	1030	3620	2410	HN20S	L10422-2	0	0
Selenium (total)	mg/kg, dry wt.	0	/	8	0%	0	0				3.2	6.5
Silver	mg/kg, dry wt.	6	/	8	75%	0.63	2.91	1.70	CN10N	L10422-7	0.26	0.3
Sodium (total)	mg/kg, dry wt.	8	/	8	100%	5640	17300	11400	CN20N	L10422-8	0	0
Thallium (total)	mg/kg, dry wt.	0	/	8	0%	0	0				13	26
Zinc	mg/kg, dry wt.	8	/	8	100%	142	517	234	CH20S	L10422-5	0	0
Method: *EPA 7471*												
Mercury	mg/kg, dry wt.	8	/	8	100%	0.08	0.34	0.170	HN10N	L9553-2	0	0
Method: *EPA 8080*												
Aroclor-1016	ug/kg, dry wt.	0	/	8	0%	0	0				17	34
Aroclor-1221	ug/kg, dry wt.	0	/	8	0%	0	0				17	34
Aroclor-1232	ug/kg, dry wt.	0	/	8	0%	0	0				17	34
Aroclor-1242	ug/kg, dry wt.	0	/	8	0%	0	0				17	34
Aroclor-1248	ug/kg, dry wt.	5	/	8	63%	75.2	185	126	HN10W	L10422-3	23	34
Aroclor-1254	ug/kg, dry wt.	8	/	8	100%	68	554	272	HN10N	L10422-1	0	0
Aroclor-1260	ug/kg, dry wt.	8	/	8	100%	38.8	1500	534	HN10N	L10422-1	0	0
PCBs (total-calc'd)	ug/kg, dry wt.	8	/	8	100%	168.8	2231	885	HN10N	L10422-1	0	0
Method: *EPA 8270*												
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	/	8	0%	0	0				68	140
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/	8	0%	0	0				21	290

Table A-15. Summary of surface sediment chemistry from King County CSO sediment monitoring - 1996 (KC CSO 96)

Event Start Date: *9/24/96*
Event Stop Date: *9/30/96*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/	8	0%	0	0			21	290
2,4-Dichlorophenol	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
2,4-Dimethylphenol	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
2,4-Dinitrophenol	ug/kg, dry wt.	0	/	8	0%	0	0			68	140
2,4-Dinitrotoluene	ug/kg, dry wt.	0	/	8	0%	0	0			14	29
2,6-Dinitrotoluene	ug/kg, dry wt.	0	/	8	0%	0	0			14	29
2-Chloronaphthalene	ug/kg, dry wt.	0	/	8	0%	0	0			20	42
2-Chlorophenol	ug/kg, dry wt.	0	/	8	0%	0	0			68	140
2-Methylnaphthalene	ug/kg, dry wt.	3	/	8	38%	120	297	196	CN20N	L10422-8	55	100
2-Methylphenol	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
2-Nitroaniline	ug/kg, dry wt.	0	/	8	0%	0	0			140	290
2-Nitrophenol	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
3-Nitroaniline	ug/kg, dry wt.	0	/	8	0%	0	0			140	290
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	8	0%	0	0			68	140
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	8	0%	0	0			14	29
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	8	0%	0	0			68	140
4-Chloroaniline	ug/kg, dry wt.	0	/	8	0%	0	0			68	140
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	8	0%	0	0			20	42
4-Methylphenol	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
4-Nitroaniline	ug/kg, dry wt.	0	/	8	0%	0	0			140	290
4-Nitrophenol	ug/kg, dry wt.	0	/	8	0%	0	0			68	140
Acenaphthene	ug/kg, dry wt.	8	/	8	100%	42.7	1900	412	CN20N	L10422-8	0	0
Acenaphthylene	ug/kg, dry wt.	7	/	8	88%	22	210	67.7	CN20N	L10422-8	30	30
Aniline	ug/kg, dry wt.	0	/	8	0%	0	0				68	140
Anthracene	ug/kg, dry wt.	8	/	8	100%	204	4690	1180	CN20N	L10422-8	0	0
Benzidine	ug/kg, dry wt.	0	/	8	0%	0	0				820	1700
Benzo(a)anthracene	ug/kg, dry wt.	8	/	8	100%	352	9530	2450	CN20N	L10422-8	0	0
Benzo(a)pyrene	ug/kg, dry wt.	8	/	8	100%	442	5570	1740	CN20N	L10422-8	0	0
Benzo(b)fluoranthene	ug/kg, dry wt.	8	/	8	100%	827	9950	3120	CN20N	L10422-8	0	0
Benzo(g,h,i)perylene	ug/kg, dry wt.	8	/	8	100%	156	1520	587	CN20N	L10422-8	0	0
Benzo(k)fluoranthene	ug/kg, dry wt.	8	/	8	100%	299	3650	1190	CN20N	L10422-8	0	0
Benzoic acid	ug/kg, dry wt.	2	/	8	25%	250	565	408	CN20N	L10422-8	21	260

Table A-15. Summary of surface sediment chemistry from King County CSO sediment monitoring - 1996 (KC CSO 96)

Event Start Date: *9/24/96*
Event Stop Date: *9/30/96*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Benzyl alcohol	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	8	0%	0	0			20	42
bis(2-chloroisopropyl)ether	ug/kg, dry wt.	0	/	8	0%	0	0			68	140
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	8	/	8	100%	582	10600	3670	CN20N	L10422-8	0	0
Butyl benzyl phthalate	ug/kg, dry wt.	7	/	8	88%	73.5	1300	375	CN10N	L10422-7	20	20
Carbazole	ug/kg, dry wt.	8	/	8	100%	52	917	283	CN20N	L10422-8	0	0
Chrysene	ug/kg, dry wt.	8	/	8	100%	546	10700	2990	CN20N	L10422-8	0	0
Coprostanol	ug/kg, dry wt.	8	/	8	100%	380	4050	1650	HN10N	L10422-1	0	0
Dibenzo(a,h)anthracene	ug/kg, dry wt.	4	/	8	50%	176	563	282	CN20N	L10422-8	55	100
Dibenzofuran	ug/kg, dry wt.	7	/	8	88%	85.5	1310	351	CN20N	L10422-8	51	51
Diethyl phthalate	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
Dimethyl phthalate	ug/kg, dry wt.	4	/	8	50%	21	213	82.6	CN10N	L10422-7	14	29
Di-n-butyl phthalate	ug/kg, dry wt.	4	/	8	50%	126	2460	726	HN20S	L10422-2	34	70
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	8	0%	0	0			20	42
Fluoranthene	ug/kg, dry wt.	8	/	8	100%	552	32300	6380	CN20N	L10422-8	0	0
Fluorene	ug/kg, dry wt.	8	/	8	100%	55.8	2160	509	CN20N	L10422-8	0	0
Hexachlorobutadiene	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
Hexachloroethane	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	8	/	8	100%	182	1920	700	CN20N	L10422-8	0	0
Isophorone	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
Naphthalene	ug/kg, dry wt.	2	/	8	25%	99	200	150	CN20N	L10422-8	55	100
Nitrobenzene	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
N-Nitrosodimethylamine	ug/kg, dry wt.	0	/	8	0%	0	0			140	290
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
Pentachlorophenol	ug/kg, dry wt.	0	/	8	0%	0	0			34	70
Phenanthrene	ug/kg, dry wt.	8	/	8	100%	314	8440	2410	CN20N	L10422-8	0	0
Phenol	ug/kg, dry wt.	0	/	8	0%	0	0			21	290
Pyrene	ug/kg, dry wt.	8	/	8	100%	1010	22900	5530	CN20N	L10422-8	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	8	/	8	100%	4523	98603	24800	CN20N	L10422-8	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	8	/	8	100%	616.5	17600	4600	CN20N	L10422-8	0	0

Table A-15. Summary of surface sediment chemistry from King County CSO sediment monitoring - 1996 (KC CSO 96)

Event Start Date: *9/24/96*
Event Stop Date: *9/30/96*

ParameterName	Units	Det. Freq.			Detected Concentration Summary						Reporting Limit Summary	
						Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270-SIM*												
1,2,4-Trichlorobenzene	ug/kg, dry wt.	3	/	8	38%	3.93	8.52	5.96	HN20S	L10422-2	0.88	1.8
1,2-Dichlorobenzene	ug/kg, dry wt.	6	/	8	75%	1.8	6.62	3.54	HN10N	L10422-1	1.1	1.8
1,3-Dichlorobenzene	ug/kg, dry wt.	4	/	8	50%	1.4	9.65	6.21	HN20S	L10422-2	0.88	1.8
1,4-Dichlorobenzene	ug/kg, dry wt.	8	/	8	100%	5.04	343	91.5	CH00	L10422-4	0	0
Hexachlorobenzene	ug/kg, dry wt.	1	/	8	13%	2.4	2.4	2.40	CN10N	L10422-7	0.88	1.8
Method: *PSEP, 1986*												
Fractional % phi >-3 (>8000µm)	%, dry wt.	7	/	8	88%	0.2	14	4.53	CH00	L9554-1	0.1	0.1
Fractional % phi 0-1 (500-1000µm)	%, dry wt.	8	/	8	100%	0.7	13.4	4.09	CH00	L9554-1	0	0
Fractional % phi -1-0 (1000-2000µm)	%, dry wt.	8	/	8	100%	0.4	10.9	2.24	CH00	L9554-1	0	0
Fractional % phi 10+ (<0.98µm)	%, dry wt.	8	/	8	100%	3.8	16.1	8.76	HN20S	L9553-5	0	0
Fractional % phi 1-2 (250-500µm)	%, dry wt.	8	/	8	100%	3	29.2	14.1	CH20S	L9554-5	0	0
Fractional % phi -2-(-1) (2000-4000µm)	%, dry wt.	8	/	8	100%	0.5	14	2.64	CH00	L9554-1	0	0
Fractional % phi 2-3 (125-250µm)	%, dry wt.	8	/	8	100%	7.9	36.8	17.9	CN00	L9555-1	0	0
Fractional % phi -3-(-2) (4000-8000µm)	%, dry wt.	7	/	8	88%	0.2	3.8	0.814	CH00	L9554-1	0.1	0.1
Fractional % phi 3-4 (62.5-125µm)	%, dry wt.	8	/	8	100%	3.1	14.2	9.31	CN20N	L9555-3	0	0
Fractional % phi 4-5 (31.2-62.5µm)	%, dry wt.	8	/	8	100%	0.2	17.3	5.32	HN10N	L9553-2	0	0
Fractional % phi 5-6 (15.6-31.2µm)	%, dry wt.	8	/	8	100%	1	32	9.56	HN10N	L9553-2	0	0
Fractional % phi 6-7 (7.8-15.6µm)	%, dry wt.	8	/	8	100%	2.1	23.7	12.0	HN10W	L9553-6	0	0
Fractional % phi 7-8 (3.9-7.8µm)	%, dry wt.	8	/	8	100%	1.6	11.7	5.40	HN20S	L9553-5	0	0
Fractional % phi 8-9 (1.95-3.9µm)	%, dry wt.	8	/	8	100%	0.6	7.1	2.70	HN20S	L9553-5	0	0
Fractional % phi 9-10 (0.98-1.95µm)	%, dry wt.	6	/	8	75%	0.5	4	1.83	HN20S	L9553-5	0.1	0.1
Method: *SM 2540-G*												
Total solids	%, dry wt.	8	/	8	100%	38.4	78.4	53.0	CH00	L10422-4	0	0
Method: *SM 5310-B*												
Total Organic Carbon (TOC)	mg/kg, dry wt.	8	/	8	100%	5040	43400	21500	HN10N	L10422-1	0	0

Table A-16. Summary of surface sediment chemistry from King County CSO sediment monitoring - 1995 (KC CSO 95)

Event Start Date: *6/26/95*
Event Stop Date: *6/29/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 150.1*										
pH	pH	20 / 20	100%	6.4	8.1	7.24	CN10N	L6392-2	0	0
Method: *EPA 1991/EPA 6010*										
Acid volatile sulfides	mg/kg, dry wt.	3 / 3	100%	260	1200	643	HN00	L6393-1	0	0
Antimony	mg/kg, dry wt.	1 / 1	100%	4	4	4.00	CH00	L6397-1		
Arsenic	mg/kg, dry wt.	2 / 2	100%	4	4	4.00	CN00	L6392-1		
Cadmium	mg/kg, dry wt.	3 / 3	100%	0.2	1	0.500	HN00	L6393-1	0	0
Chromium	mg/kg, dry wt.	3 / 3	100%	4.8	29	14.5	HN00	L6393-1	0	0
Copper	mg/kg, dry wt.	3 / 3	100%	27.1	75	45.7	HN00	L6393-1	0	0
Lead	mg/kg, dry wt.	3 / 3	100%	35	130	71.3	HN00	L6393-1	0	0
Nickel	mg/kg, dry wt.	3 / 3	100%	3.5	20	13.7	HN00	L6393-1	0	0
Silver	mg/kg, dry wt.	1 / 1	100%	1.1	1.1	1.10	CN00	L6392-1		
Zinc	mg/kg, dry wt.	3 / 3	100%	10	90	62.3	HN00	L6393-1	0	0
Method: *EPA 376.2*										
Acid volatile sulfides	mg/kg, dry wt.	18 / 18	100%	2.4	2300	568	HN20S	L6393-5	0	0
Method: *EPA 413.1*										
TPH - Oil and Grease	mg/kg, dry wt.	17 / 18	94%	270	27000	8150	CN10W	L6392-6	250	250
Method: *EPA 6010*										
Aluminum	mg/kg, dry wt.	18 / 18	100%	6400	24000	13500	HN20N	L6393-3	0	0
Antimony	mg/kg, dry wt.	0 / 18	0%	0	0				3.9	7.5
Arsenic	mg/kg, dry wt.	9 / 18	50%	9.1	17	14.0	CH20S	L6397-5	6.7	13
Barium	mg/kg, dry wt.	18 / 18	100%	24	160	82.2	HN20S	L6393-5	0	0
Beryllium	mg/kg, dry wt.	15 / 18	83%	0.14	0.48	0.275	HN20N	L6393-3	0.16	0.21
Cadmium	mg/kg, dry wt.	13 / 18	72%	0.56	2.7	1.40	HN10W	L6393-6	0.39	0.63
Calcium (total)	mg/kg, dry wt.	18 / 18	100%	4300	9300	6590	CH00	L6397-1	0	0
Chromium	mg/kg, dry wt.	18 / 18	100%	12	55	32.2	HN10W	L6393-6	0	0
Copper	mg/kg, dry wt.	18 / 18	100%	21	180	88.2	CH10N	L6397-2	0	0
Iron	mg/kg, dry wt.	18 / 18	100%	12000	33000	22300	HN10S	L6393-4	0	0
Lead	mg/kg, dry wt.	18 / 18	100%	13	180	70.2	HN10W	L6393-6	0	0
Magnesium (total)	mg/kg, dry wt.	18 / 18	100%	2900	9700	6170	HN20N	L6393-3	0	0
Manganese	mg/kg, dry wt.	18 / 18	100%	110	310	211	HN20N	L6393-3	0	0
Molybdenum	mg/kg, dry wt.	0 / 18	0%	0	0				2.6	5
Nickel	mg/kg, dry wt.	18 / 18	100%	9.2	35	22.6	HN20N	L6393-3	0	0
Potassium (total)	mg/kg, dry wt.	18 / 18	100%	840	3700	1930	HN20N	L6393-3	0	0

Table A-16. Summary of surface sediment chemistry from King County CSO sediment monitoring - 1995 (KC CSO 95)

Event Start Date: *6/26/95*
Event Stop Date: *6/29/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*											
Selenium (total)	mg/kg, dry wt.	0	/	18	0%	0	0			6.5	13
Silver	mg/kg, dry wt.	9	/	18	50%	0.77	3.1	2.02	HN10W	L6393-6	0.52	0.84
Sodium (total)	mg/kg, dry wt.	18	/	18	100%	4100	15000	8780	HN10S	L6393-4	0	0
Sulfur	ug/kg, dry wt.	4	/	4	100%	320	1900	1330	HN20S	L6393-5	0	0
Thallium (total)	mg/kg, dry wt.	0	/	18	0%	0	0				26	50
Zinc	mg/kg, dry wt.	18	/	18	100%	39	300	147	HN00	L6393-1	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	18	/	18	100%	0.06	0.78	0.307	HN10W	L6393-6	0	0
Method: *EPA 8080*											
4,4'-DDD	ug/kg, dry wt.	12	/	18	67%	2.4	110	26.0	HN10W	L6393-6	1.7	3.1
4,4'-DDE	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
4,4'-DDT	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
Aldrin	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
alpha-BHC	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
Aroclor-1016	ug/kg, dry wt.	0	/	18	0%	0	0				17	140
Aroclor-1221	ug/kg, dry wt.	0	/	18	0%	0	0				17	140
Aroclor-1232	ug/kg, dry wt.	0	/	18	0%	0	0				17	140
Aroclor-1242	ug/kg, dry wt.	0	/	18	0%	0	0				17	140
Aroclor-1248	ug/kg, dry wt.	5	/	18	28%	85	700	299	HN10W	L6393-6	17	33
Aroclor-1254	ug/kg, dry wt.	16	/	18	89%	23	1500	297	HN00	L6393-1	19	21
Aroclor-1260	ug/kg, dry wt.	12	/	18	67%	76	2900	852	HN10W	L6393-6	17	21
beta-BHC	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
Chlordane	ug/kg, dry wt.	0	/	18	0%	0	0				8.8	68
delta-BHC	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
Dieldrin	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
Endosulfan	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
Endosulfan sulfate	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
Endrin	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
Endrin aldehyde	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
gamma-BHC	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
Heptachlor	ug/kg, dry wt.	1	/	18	6%	10	10	10.0	HN20N	L6393-3	1.7	14
Heptachlor epoxide	ug/kg, dry wt.	0	/	18	0%	0	0				1.7	14
Methoxychlor	ug/kg, dry wt.	0	/	18	0%	0	0				8.8	68

Table A-16. Summary of surface sediment chemistry from King County CSO sediment monitoring - 1995 (KC CSO 95)

Event Start Date: *6/26/95*
Event Stop Date: *6/29/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*										
PCBs (total-calc'd)	ug/kg, dry wt.	16 / 18		89%	23	4600	1030	HN10W	L6393-6	19	21
Toxaphene	ug/kg, dry wt.	0 / 18		0%	0	0				17	140
Method: *EPA 8260*										
2-Butanone, 3-methoxy-3-methyl	ug/kg, dry wt.	1 / 1		100%	410	410	410	CH20S	L6397-5	0	0
Method: *EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	6 / 18		33%	2.2	11	4.77	HN10W	L6393-6	0.9	1.5
1,2-Dichlorobenzene	ug/kg, dry wt.	5 / 18		28%	1.9	6.4	3.90	HN00	L6393-1	0.9	1.6
1,2-Diphenylhydrazine	ug/kg, dry wt.	0 / 18		0%	0	0				69	130
1,3-Dichlorobenzene	ug/kg, dry wt.	6 / 18		33%	2.4	14	5.70	HN10W	L6393-6	0.9	1.5
1,4-Dichlorobenzene	ug/kg, dry wt.	15 / 18		83%	4.9	160	52.6	HN00	L6393-1	0.9	0.97
11H-Benzo[a]fluorene	mg/kg, dry wt.	1 / 1		100%	1.8	1.8	1.80	CH20N	L6397-3	0	0
11H-Benzo[a]fluorene	ug/kg, dry wt.	2 / 2		100%	590	760	675	CN20N	L6392-3	0	0
1-decanol, 2-ethyl-	mg/kg, dry wt.	2 / 2		100%	2.3	6.8	4.55	HN10N	L6393-2	0	0
1-Heptadecanol	mg/kg, dry wt.	1 / 1		100%	4.7	4.7	4.70	HN20S	L6393-5	0	0
1h-Indene, 2,3-dihydro-1,1,3,3,5-pentaamethyl-4,6-dinitro	ug/kg, dry wt.	2 / 2		100%	420	1200	810	CH10N	L6397-2	0	0
1-Naphthalenemethanol	mg/kg, dry wt.	1 / 1		100%	2	2	2.00	HN10W	L6393-6	0	0
2,2'-Met 1,3-Cyclohexanedione	mg/kg, dry wt.	1 / 1		100%	4.3	4.3	4.30	CN20S	L6392-5	0	0
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 18		0%	0	0				140	280
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 18		0%	0	0				140	280
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 18		0%	0	0				35	68
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 18		0%	0	0				35	68
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 18		0%	0	0				69	130
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 18		0%	0	0				14	28
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 18		0%	0	0				14	28
2-Chloronaphthalene	ug/kg, dry wt.	0 / 18		0%	0	0				21	40
2-Chlorophenol	ug/kg, dry wt.	0 / 18		0%	0	0				69	130
2-Dodecyltetrade phenanthrene	ug/kg, dry wt.	1 / 1		100%	1400	1400	1400	HN10W	L6393-6	0	0
2-Methylnaphthalene	ug/kg, dry wt.	3 / 18		17%	97	1000	399	HN10W	L6393-6	56	110
2-Methylphenol	ug/kg, dry wt.	0 / 18		0%	0	0				35	68
2-Nitroaniline	ug/kg, dry wt.	0 / 18		0%	0	0				140	280
2-Nitrophenol	ug/kg, dry wt.	0 / 18		0%	0	0				35	68
2-norbornanone, 6-chloro-3,3-d	ug/kg, dry wt.	1 / 1		100%	630	630	630	HN20S	L6393-5	0	0

Table A-16. Summary of surface sediment chemistry from King County CSO sediment monitoring - 1995 (KC CSO 95)

Event Start Date: *6/26/95*
Event Stop Date: *6/29/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
2-pentene, 4,4'-oxybis-	ug/kg, dry wt.	2	/	2	100%	430	1000	715	CH20S	L6397-5	0	0
3-(Dodecenyl)dihydro 2,5-furandione	mg/kg, dry wt.	2	/	2	100%	2.3	2.4	2.35	HN20N	L6393-3	0	0
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	18	0%	0	0				35	68
3,3-Dimethyl-1-hexene	ug/kg, dry wt.	2	/	2	100%	300	470	385	CN00	L6392-1	0	0
3h-Naphtho[2,1-b]Pyran-3-One,	ug/kg, dry wt.	1	/	1	100%	2200	2200	2200	HN10S	L6393-4	0	0
3-Nitroaniline	ug/kg, dry wt.	0	/	18	0%	0	0				140	280
3-penten-1-ol, 2-methyl-	ug/kg, dry wt.	2	/	2	100%	430	790	610	CH20S	L6397-5	0	0
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	18	0%	0	0				69	130
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	18	0%	0	0				14	28
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	18	0%	0	0				69	130
4-Chloroaniline	ug/kg, dry wt.	0	/	18	0%	0	0				69	130
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	18	0%	0	0				21	40
4H-Cyclopenta[def]phenanthrene	ug/kg, dry wt.	1	/	1	100%	510	510	510	CN20N	L6392-3	0	0
4-Methylphenol	ug/kg, dry wt.	1	/	18	6%	62	62	62.0	CN10S	L6392-4	35	68
4-Nitroaniline	ug/kg, dry wt.	0	/	18	0%	0	0				140	280
4-Nitrophenol	ug/kg, dry wt.	0	/	18	0%	0	0				69	130
5-octadecene, (e)-	ug/kg, dry wt.	6	/	6	100%	300	630	478	CN20N	L6392-3	0	0
9-Phenyl-anthracene	ug/kg, dry wt.	1	/	1	100%	770	770	770	CH20N	L6397-3	0	0
Acenaphthene	ug/kg, dry wt.	16	/	18	89%	17	720	154	HN10W	L6393-6	15	26
Acenaphthylene	ug/kg, dry wt.	11	/	18	61%	31	100	52.0	CH20N	L6397-3	21	38
Acetoin	ug/kg, dry wt.	2	/	2	100%	560	660	610	HN00	L6393-1	0	0
Aniline	ug/kg, dry wt.	0	/	18	0%	0	0				69	130
Anthracene	ug/kg, dry wt.	18	/	18	100%	55	1600	338	CH20N	L6397-3	0	0
Anthracene, 9-dodecyltetradeca	mg/kg, dry wt.	1	/	1	100%	1.4	1.4	1.40	CN20S	L6392-5	0	0
Azulene, 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl-7-(1-methylethyl)-,didehydro deriv	mg/kg, dry wt.	2	/	2	100%	1.4	4.1	2.75	HN10W	L6393-6	0	0
Benzidine	ug/kg, dry wt.	0	/	18	0%	0	0				840	1600
Benzo(a)anthracene	ug/kg, dry wt.	18	/	18	100%	120	2700	733	CH20N	L6397-3	0	0
Benzo(a)pyrene	ug/kg, dry wt.	18	/	18	100%	110	2400	701	CH20N	L6397-3	0	0
Benzo(b)fluoranthene	ug/kg, dry wt.	18	/	18	100%	160	3100	961	CH20N	L6397-3	0	0
Benzo(g,h,i)perylene	ug/kg, dry wt.	18	/	18	100%	63	830	324	CH20N	L6397-3	0	0
Benzo(k)fluoranthene	ug/kg, dry wt.	18	/	18	100%	98	1200	419	CH20N	L6397-3	0	0
Benzo[c]phenanthrene, 1-methyl	ug/kg, dry wt.	1	/	1	100%	820	820	820	CH20N	L6397-3	0	0

Table A-16. Summary of surface sediment chemistry from King County CSO sediment monitoring - 1995 (KC CSO 95)

Event Start Date: *6/26/95*
Event Stop Date: *6/29/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Benzo[g,h,i]fluoranthene	ug/kg, dry wt.	2	/	2	100%	390	440	415	CN20N	L6392-3	0	0
Benzoic acid	ug/kg, dry wt.	15	/	18	83%	160	730	370	HN10S	L6393-4	160	260
Benzyl alcohol	ug/kg, dry wt.	1	/	18	6%	270	270	270	CH10S	L6397-4	36	68
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	18	0%	0	0				35	68
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	18	0%	0	0				21	40
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	18	/	18	100%	110	14000	1600	CN10N	L6392-2	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0	/	18	0%	0	0				69	130
Butyl benzyl phthalate	ug/kg, dry wt.	12	/	18	67%	25	110	74.8	CN10S	L6392-4	21	33
Carbazole	ug/kg, dry wt.	9	/	18	50%	99	380	180	HN10W	L6393-6	35	68
Chlorotrimethylstannane	mg/kg, dry wt.	1	/	1	100%	4.2	4.2	4.20	CN20N	L6392-3	0	0
Chlorotrimethylstannane	ug/kg, dry wt.	1	/	1	100%	980	980	980	CN10N	L6392-2	0	0
Cholest-22-ene, (5.alpha.,20.x	ug/kg, dry wt.	1	/	1	100%	730	730	730	HN00	L6393-1	0	0
Cholestan-3-one, 14-methyl-, (	mg/kg, dry wt.	1	/	1	100%	2	2	2.00	HN10W	L6393-6	0	0
Cholestan-3-one, 14-methyl-, (	ug/kg, dry wt.	1	/	1	100%	2500	2500	2500	HN10S	L6393-4	0	0
Cholesterol	mg/kg, dry wt.	12	/	12	100%	1.4	4.8	2.66	CH10N	L6397-2	0	0
Cholesterol	ug/kg, dry wt.	3	/	3	100%	840	1600	1250	CN10W	L6392-6	0	0
Chrysene	ug/kg, dry wt.	18	/	18	100%	200	2800	973	CH20N	L6397-3	0	0
Coprostanol	ug/kg, dry wt.	11	/	18	61%	230	2700	1200	HN20N	L6393-3	140	230
D-homo-24-nor-17-oxachola-20,2	ug/kg, dry wt.	1	/	1	100%	1500	1500	1500	CH10N	L6397-2	0	0
Dibenzo(a,h)anthracene	ug/kg, dry wt.	12	/	18	67%	67	290	141	CH20N	L6397-3	56	110
Dibenzofuran	ug/kg, dry wt.	10	/	18	56%	43	480	159	HN10W	L6393-6	36	68
Diethyl phthalate	ug/kg, dry wt.	0	/	18	0%	0	0				35	68
Dimethyl phthalate	ug/kg, dry wt.	2	/	18	11%	28	31	29.5	HN20N	L6393-3	15	28
Di-n-butyl phthalate	ug/kg, dry wt.	18	/	18	100%	47	520	115	CN10N	L6392-2	0	0
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	18	0%	0	0				21	40
Fluoranthene	ug/kg, dry wt.	18	/	18	100%	290	6400	1570	CH20N	L6397-3	0	0
Fluorene	ug/kg, dry wt.	16	/	18	89%	26	910	205	HN10W	L6393-6	23	38
Hexachlorobenzene	ug/kg, dry wt.	0	/	18	0%	0	0				0.9	1.7
Hexachlorobutadiene	ug/kg, dry wt.	0	/	18	0%	0	0				35	68
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/	18	0%	0	0				35	68
Hexachloroethane	ug/kg, dry wt.	0	/	18	0%	0	0				35	68
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	18	/	18	100%	71	1100	430	CH20N	L6397-3	0	0
Isophorone	ug/kg, dry wt.	0	/	18	0%	0	0				35	68

Table A-16. Summary of surface sediment chemistry from King County CSO sediment monitoring - 1995 (KC CSO 95)

Event Start Date: *6/26/95*
Event Stop Date: *6/29/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Longifolene	mg/kg, dry wt.	1	/	1	100%	5.7	5.7	5.70	CN20S	L6392-5	0	0
Naphthalene	ug/kg, dry wt.	2	/	18	11%	79	2300	1190	HN10W	L6393-6	56	110
Nitrobenzene	ug/kg, dry wt.	0	/	18	0%	0	0				35	68
N-Nitrosodimethylamine	ug/kg, dry wt.	0	/	18	0%	0	0				140	280
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	/	18	0%	0	0				35	68
N-Nitrosodiphenylamine	ug/kg, dry wt.	2	/	18	11%	54	70	62.0	HN20S	L6393-5	35	68
Octadecanal, 2-bromo-	ug/kg, dry wt.	1	/	1	100%	1400	1400	1400	HN10N	L6393-2	0	0
Oxacyclotetradecane-2,11-dione	mg/kg, dry wt.	1	/	1	100%	1.6	1.6	1.60	CH10N	L6397-2	0	0
Oxacyclotetradecane-2,11-dione	ug/kg, dry wt.	1	/	1	100%	1000	1000	1000	CH10E	L6397-6	0	0
Pentachlorophenol	ug/kg, dry wt.	0	/	18	0%	0	0				35	68
Phenanthrene	ug/kg, dry wt.	18	/	18	100%	140	3900	1050	CH20N	L6397-3	0	0
Phenanthrene, 3,9-bis(1,1-dime	mg/kg, dry wt.	1	/	1	100%	2.9	2.9	2.90	CN20S	L6392-5	0	0
Phenanthrene, 9-dodecyltetrade	mg/kg, dry wt.	1	/	1	100%	2	2	2.00	HN10W	L6393-6	0	0
Phenanthrene, 9-dodecyltetrade	ug/kg, dry wt.	1	/	1	100%	1400	1400	1400	HN00	L6393-1	0	0
Phenol	ug/kg, dry wt.	8	/	18	44%	510	3300	1430	HN10S	L6393-4	150	270
Phytol	ug/kg, dry wt.	2	/	2	100%	460	590	525	CN20N	L6392-3	0	0
Pyrene	ug/kg, dry wt.	18	/	18	100%	230	3600	1020	CH20N	L6397-3	0	0
Resorcinol, 4-[(2-hydroxy-3-py	mg/kg, dry wt.	1	/	1	100%	2.4	2.4	2.40	HN20N	L6393-3	0	0
Stannane, bromodibutyl(1-methy	mg/kg, dry wt.	1	/	1	100%	2.1	2.1	2.10	CN20N	L6392-3	0	0
Stannane, bromodibutyl(1-methy	ug/kg, dry wt.	1	/	1	100%	570	570	570	CN10N	L6392-2	0	0
Stigmastane	mg/kg, dry wt.	2	/	2	100%	2.4	2.5	2.45	HN10S	L6393-4	0	0
Stigmastane	ug/kg, dry wt.	2	/	2	100%	1700	2000	1850	HN00	L6393-1	0	0
Stigmastane, 23,24-epoxy-, (5.	mg/kg, dry wt.	1	/	1	100%	2.3	2.3	2.30	HN20S	L6393-5	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	18	/	18	100%	1342	24420	7230	CH20N	L6397-3	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	18	/	18	100%	221	8231	1870	HN10W	L6393-6	0	0
Vinyl hexadecyl ether	mg/kg, dry wt.	2	/	2	100%	2	2.3	2.15	HN10N	L6393-2	0	0
Method: *EPA 9030B*											
Sulfides (total)	mg/kg, dry wt.	18	/	18	100%	33	1800	444	HN00	L6393-1	0	0
Method: *PSEP, 1986*											
Clay (percent)	%, dry wt.	18	/	18	100%	1.6	17	7.94	HN20N	L6393-3	0	0
Gravel (percent)	%, dry wt.	18	/	18	100%	0.4	15	3.95	CH10N	L6397-2	0	0
Sand (percent)	%, dry wt.	18	/	18	100%	19	85	60.5	CH20S	L6397-5	0	0
Silt (percent)	%, dry wt.	18	/	18	100%	5.4	68	27.9	HN10N	L6393-2	0	0

Table A-16. Summary of surface sediment chemistry from King County CSO sediment monitoring - 1995 (KC CSO 95)

Event Start Date: *6/26/95*
Event Stop Date: *6/29/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *SM 2520B*										
Oxidation reduction-field	millivolts	20 / 20	100%	-350	110	-166	CN10W	L6392-6	0	0
Method: *SM 2540-B*										
Total solids	%, dry wt.	18 / 18	100%	40	76	57.1	CH10S	L6397-4	0	0
Total Volatile Solids	%, dry wt.	18 / 18	100%	1.1	3.5	2.23	HN00	L6393-1	0	0
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	mg/kg, dry wt.	18 / 18	100%	4000	42000	20800	HN00	L6393-1	0	0
Method: *SM4500-NH3*										
Ammonia	mg/kg, dry wt.	18 / 18	100%	1.6	22	7.81	HN20S	L6393-5	0	0

Table A-17. Summary of surface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 1 Aug 1994 (Norfolk-cleanup1)

Event Start Date: *8/17/94*
Event Stop Date: *8/31/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary						Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 150.1*											
pH	pH	8	/ 8	100%	6.9	7.7	7.26	NFKUPRIV2	L4321-24	0	0
Method: *EPA 1630 (draft)*											
Methylmercury	ug/kg, dry wt.	8	/ 8	100%	0.02	2	0.631	NFK004	L4321-4	0	0
Method: *EPA 376.2*											
Acid volatile sulfides	mg/kg, dry wt.	10	/ 21	48%	370	3100	1370	NFK009	L4321-9	48	89
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	19	/ 19	100%	9100	22000	14300	NFK008	L4321-8	0	0
Antimony	mg/kg, dry wt.	1	/ 19	5%	12	12	12.0	NFK006	L4321-6	3.5	6
Arsenic	mg/kg, dry wt.	15	/ 19	79%	9.4	51	18.2	NFK006	L4321-6	6.2	7
Barium	mg/kg, dry wt.	19	/ 19	100%	27	83	51.8	NFK002	L4321-2	0	0
Beryllium	mg/kg, dry wt.	19	/ 19	100%	0.22	0.51	0.371	NFK001	L4321-1	0	0
Cadmium	mg/kg, dry wt.	1	/ 19	5%	0.96	0.96	0.960	NFK009	L4321-25	0.35	0.6
Calcium (total)	mg/kg, dry wt.	19	/ 19	100%	3200	6400	4480	NFK009	L4321-25	0	0
Chromium	mg/kg, dry wt.	19	/ 19	100%	11	33	20.2	NFK003	L4321-3	0	0
Copper	mg/kg, dry wt.	19	/ 19	100%	11	120	29.9	NFK009	L4321-25	0	0
Iron	mg/kg, dry wt.	19	/ 19	100%	17000	27000	21700	NFKUPRIV1	L4321-23	0	0
Lead	mg/kg, dry wt.	19	/ 19	100%	4.6	68	19.9	NFK009	L4321-9	0	0
Magnesium (total)	mg/kg, dry wt.	19	/ 19	100%	3600	6800	5130	NFK008	L4321-8	0	0
Manganese	mg/kg, dry wt.	19	/ 19	100%	180	470	290	NFK016	L4321-18	0	0
Molybdenum	mg/kg, dry wt.	0	/ 19	0%	0	0				2.4	4.1
Nickel	mg/kg, dry wt.	19	/ 19	100%	11	22	17.0	NFK003	L4321-3	0	0
Potassium (total)	mg/kg, dry wt.	17	/ 17	100%	890	2400	1500	NFK008	L4321-8	0	0
Selenium (total)	mg/kg, dry wt.	0	/ 19	0%	0	0				5.8	10
Silver	mg/kg, dry wt.	2	/ 19	11%	0.53	0.67	0.600	NFK005	L4321-5	0.46	0.8
Sodium (total)	mg/kg, dry wt.	17	/ 17	100%	1400	8600	4420	NFK008	L4321-8	0	0
Thallium (total)	mg/kg, dry wt.	0	/ 19	0%	0	0				24	41
Zinc	mg/kg, dry wt.	19	/ 19	100%	42	350	87.2	NFK009	L4321-25	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	16	/ 21	76%	0.03	0.84	0.152	NFK008	L4321-8	0.02	0.04
Method: *EPA 8080*											
4,4'-DDD	ug/kg, dry wt.	1	/ 19	5%	2.9	2.9	2.90	NFK009	L4321-9	1.5	2.6
4,4'-DDE	ug/kg, dry wt.	0	/ 19	0%	0	0				1.5	2.7
4,4'-DDT	ug/kg, dry wt.	1	/ 19	5%	4	4	4.00	NFK004	L4321-4	1.5	2.7

Table A-17. Summary of surface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 1 Aug 1994 (Norfolk-cleanup1)

Event Start Date: *8/17/94*
Event Stop Date: *8/31/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*										
Aldrin	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
alpha-BHC	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
Aroclor-1016	ug/kg, dry wt.	0 / 19	0%	0	0				15	27
Aroclor-1221	ug/kg, dry wt.	0 / 19	0%	0	0				15	27
Aroclor-1232	ug/kg, dry wt.	0 / 19	0%	0	0				15	27
Aroclor-1242	ug/kg, dry wt.	1 / 19	5%	470	470	470	NFK008	L4321-8	15	27
Aroclor-1248	ug/kg, dry wt.	7 / 19	37%	32	720	230	NFK008	L4321-8	15	26
Aroclor-1254	ug/kg, dry wt.	6 / 19	32%	35	550	161	NFK008	L4321-8	15	26
Aroclor-1260	ug/kg, dry wt.	4 / 19	21%	19	370	111	NFK008	L4321-8	15	33
beta-BHC	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
Chlordane	ug/kg, dry wt.	0 / 19	0%	0	0				8.3	16
delta-BHC	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
Dieldrin	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
Endosulfan	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
Endosulfan sulfate	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
Endrin	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
Endrin aldehyde	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
gamma-BHC	ug/kg, dry wt.	1 / 19	5%	6.9	6.9	6.90	NFK001	L4321-1	1.5	2.7
Heptachlor	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
Heptachlor epoxide	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
Methoxychlor	ug/kg, dry wt.	0 / 19	0%	0	0				8.3	16
PCBs (total-calc'd)	ug/kg, dry wt.	7 / 19	37%	67	2110	498	NFK008	L4321-8	15	26
Toxaphene	ug/kg, dry wt.	0 / 19	0%	0	0				15	27
Method: *EPA 8260*										
Olean-12-ene	ug/kg, dry wt.	1 / 1	100%	720	720	720	NFK007	L4321-7	0	0
Method: *EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0 / 19	0%	0	0				1.5	2.7
1,2-Dichlorobenzene	ug/kg, dry wt.	4 / 19	21%	2.1	2.9	2.45	NFK009	L4321-9	1.5	2.6
1,2-Diphenylhydrazine	ug/kg, dry wt.	0 / 19	0%	0	0				63	110
1,3-Dichlorobenzene	ug/kg, dry wt.	1 / 19	5%	3	3	3.00	NFK008	L4321-8	1.5	2.7
1,4-Dichlorobenzene	ug/kg, dry wt.	12 / 19	63%	1.7	520	75.1	NFK009	L4321-25	1.5	2.6
1H-Naphtho[2,1-b]Pyran 4a,5,6	ug/kg, dry wt.	1 / 1	100%	480	480	480	NFK016	L4321-18	0	0
2,3,5,6- S-indacene-1,7-dione	ug/kg, dry wt.	1 / 1	100%	760	760	760	NFK016	L4321-18	0	0

Table A-17. Summary of surface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 1 Aug 1994 (Norfolk-cleanup1)

Event Start Date: *8/17/94*
Event Stop Date: *8/31/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary				Location of Max	Sample ID of Max.	Reporting Limit Summary	
					Min	Max	Average			Min	Max
Method: *EPA 8270*											
2,4,5,7-Tetramethyl phenanthrene	ug/kg, dry wt.	1	/ 1	100%	620	620	620	NFK016	L4321-18	0	0
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/ 19	0%	0	0				130	220
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/ 19	0%	0	0				130	220
2,4-Dichlorophenol	ug/kg, dry wt.	0	/ 19	0%	0	0				32	55
2,4-Dimethylphenol	ug/kg, dry wt.	0	/ 19	0%	0	0				32	55
2,4-Dinitrophenol	ug/kg, dry wt.	0	/ 19	0%	0	0				63	110
2,4-Dinitrotoluene	ug/kg, dry wt.	0	/ 19	0%	0	0				13	22
2,6-Bis(1,1-dimethylet phenol	ug/kg, dry wt.	1	/ 1	100%	450	450	450	NFK009	L4321-9	0	0
2,6-Dinitrotoluene	ug/kg, dry wt.	0	/ 19	0%	0	0				13	22
2-Chloronaphthalene	ug/kg, dry wt.	0	/ 19	0%	0	0				19	33
2-Chlorophenol	ug/kg, dry wt.	0	/ 19	0%	0	0				63	110
2-Methylnaphthalene	ug/kg, dry wt.	0	/ 19	0%	0	0				51	88
2-Methylphenol	ug/kg, dry wt.	0	/ 19	0%	0	0				32	55
2-Nitroaniline	ug/kg, dry wt.	0	/ 19	0%	0	0				130	220
2-Nitrophenol	ug/kg, dry wt.	0	/ 19	0%	0	0				32	55
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/ 19	0%	0	0				32	55
3-Nitroaniline	ug/kg, dry wt.	0	/ 19	0%	0	0				130	220
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/ 19	0%	0	0				63	110
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/ 19	0%	0	0				13	22
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/ 19	0%	0	0				63	110
4-Chloroaniline	ug/kg, dry wt.	0	/ 19	0%	0	0				63	110
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/ 19	0%	0	0				19	33
4H-Cyclopenta[def]phenanthrene	ug/kg, dry wt.	1	/ 1	100%	330	330	330	NFK005	L4321-5	0	0
4-Methylphenol	ug/kg, dry wt.	1	/ 19	5%	280	280	280	NFK005	L4321-5	32	55
4-Nitroaniline	ug/kg, dry wt.	0	/ 19	0%	0	0				130	220
4-Nitrophenol	ug/kg, dry wt.	0	/ 19	0%	0	0				63	110
5,10-Pentadecadien-1-ol, (e,z)	ug/kg, dry wt.	1	/ 1	100%	360	360	360	NFK016	L4321-18	0	0
6-Methyl-8-(2,6 5-octen-2-one,	ug/kg, dry wt.	1	/ 1	100%	460	460	460	NFK016	L4321-18	0	0
Acenaphthene	ug/kg, dry wt.	4	/ 19	21%	41	120	78.3	NFK006	L4321-6	13	22
Acenaphthylene	ug/kg, dry wt.	0	/ 19	0%	0	0				19	33
A'-Neogammacer-22(29)-en-3-One	ug/kg, dry wt.	1	/ 1	100%	820	820	820	NFK007	L4321-7	0	0
Aniline	ug/kg, dry wt.	0	/ 19	0%	0	0				63	110
Anthracene	ug/kg, dry wt.	7	/ 19	37%	31	190	89.9	NFK009	L4321-25	19	32

Table A-17. Summary of surface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 1 Aug 1994 (Norfolk-cleanup1)

Event Start Date: *8/17/94*
Event Stop Date: *8/31/94*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Benzene, [[[(phenylmethyl)sulf	ug/kg, dry wt.	1	/	1	100%	580	580	580	NFKUPRIV1	L4321-23	0	0
Benzidine	ug/kg, dry wt.	0	/	19	0%	0	0				760	1300
Benzo(a)anthracene	ug/kg, dry wt.	15	/	19	79%	27	530	205	NFK005	L4321-5	19	22
Benzo(a)pyrene	ug/kg, dry wt.	14	/	19	74%	53	760	230	NFK006	L4321-6	32	38
Benzo(b)fluoranthene	ug/kg, dry wt.	14	/	19	74%	91	930	345	NFK006	L4321-6	51	60
Benzo(g,h,i)perylene	ug/kg, dry wt.	12	/	19	63%	41	320	151	NFK005	L4321-5	32	43
Benzo(k)fluoranthene	ug/kg, dry wt.	11	/	19	58%	55	410	180	NFK009	L4321-25	51	87
Benzoic acid	ug/kg, dry wt.	1	/	19	5%	150	150	150	NFK007	L4321-7	130	220
Benzyl alcohol	ug/kg, dry wt.	0	/	19	0%	0	0				32	55
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	19	0%	0	0				32	55
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	19	0%	0	0				19	33
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	19	/	19	100%	25	4900	663	NFK009	L4321-9	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0	/	19	0%	0	0				63	110
Butyl benzyl phthalate	ug/kg, dry wt.	7	/	19	37%	23	94	55.1	NFK009	L4321-25	19	32
Carbazole	ug/kg, dry wt.	6	/	19	32%	61	380	159	NFK006	L4321-6	32	54
Cholesterol	mg/kg, dry wt.	1	/	1	100%	2	2	2.00	NFK009	L4321-9	0	0
Cholesterol	ug/kg, dry wt.	1	/	1	100%	430	430	430	NFK007	L4321-7	0	0
Chrysene	ug/kg, dry wt.	15	/	19	79%	27	620	244	NFK009	L4321-25	19	22
Coprostanol	ug/kg, dry wt.	6	/	19	32%	360	2600	965	NFK009	L4321-9	130	220
Diacetate 1,1-ethanediol	ug/kg, dry wt.	1	/	1	100%	740	740	740	NFK007	L4321-7	0	0
Dibenzo(a,h)anthracene	ug/kg, dry wt.	4	/	19	21%	85	180	116	NFK006	L4321-6	51	87
Dibenzofuran	ug/kg, dry wt.	1	/	18	6%	37	37	37.0	NFK006	L4321-6	32	55
Diethyl phthalate	ug/kg, dry wt.	0	/	19	0%	0	0				32	55
Dimethyl phthalate	ug/kg, dry wt.	0	/	19	0%	0	0				13	22
Di-n-butyl phthalate	ug/kg, dry wt.	19	/	19	100%	52	150	100	NFK009	L4321-9	0	0
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	19	0%	0	0				19	33
Fluoranthene	ug/kg, dry wt.	16	/	19	84%	20	1700	485	NFK005	L4321-5	19	21
Fluorene	ug/kg, dry wt.	4	/	19	21%	41	110	72.5	NFK006	L4321-6	19	32
Gamma-sitosterol	mg/kg, dry wt.	1	/	1	100%	1.2	1.2	1.20	NFK015	L4321-17	0	0
Gamma-sitosterol	ug/kg, dry wt.	2	/	2	100%	430	1200	815	NFK007	L4321-7	0	0
Hexachlorobenzene	ug/kg, dry wt.	0	/	19	0%	0	0				1.5	2.7
Hexachlorobutadiene	ug/kg, dry wt.	0	/	19	0%	0	0				32	55
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/	19	0%	0	0				32	55

Table A-17. Summary of surface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 1 Aug 1994 (Norfolk-cleanup1)

Event Start Date: *8/17/94*
Event Stop Date: *8/31/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
Hexachloroethane	ug/kg, dry wt.	0 / 19	0%	0	0				32	55
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	14 / 19	74%	38	450	176	NFK006	L4321-6	32	38
Isophorone	ug/kg, dry wt.	0 / 19	0%	0	0				32	55
Naphthalene	ug/kg, dry wt.	0 / 19	0%	0	0				51	88
Nitrobenzene	ug/kg, dry wt.	0 / 19	0%	0	0				32	55
N-Nitrosodimethylamine	ug/kg, dry wt.	0 / 19	0%	0	0				130	220
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0 / 19	0%	0	0				32	55
N-Nitrosodiphenylamine	ug/kg, dry wt.	5 / 19	26%	41	120	74.8	NFK009	L4321-25	32	54
Pentachlorophenol	ug/kg, dry wt.	0 / 19	0%	0	0				32	55
Phenanthrene	ug/kg, dry wt.	14 / 19	74%	38	1500	311	NFK006	L4321-6	19	21
Phenol	ug/kg, dry wt.	0 / 19	0%	0	0				130	220
Pyrene	ug/kg, dry wt.	17 / 19	89%	24	1400	406	NFK005	L4321-5	19	20
Sclareol	ug/kg, dry wt.	1 / 1	100%	430	430	430	NFK007	L4321-7	0	0
Tetradecanal	mg/kg, dry wt.	1 / 1	100%	4.1	4.1	4.10	NFK009	L4321-9	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	17 / 19	89%	44	6318	2130	NFK005	L4321-5	51	53
Total LPAH (calc'd)	ug/kg, dry wt.	14 / 19	74%	38	1900	399	NFK006	L4321-6	51	55
Method: *PSEP, 1986*										
Clay (percent)	%, dry wt.	13 / 19	68%	0.1	14	6.55	NFK002	L4321-2	0.1	0.1
Gravel (percent)	%, dry wt.	16 / 19	84%	0.2	45	9.99	NFK009	L4321-25	0.1	0.1
Sand (percent)	%, dry wt.	19 / 19	100%	40	100	66.9	NFK014	L4321-15	0	0
Silt (percent)	%, dry wt.	18 / 19	95%	0.3	53	21.5	NFK007	L4321-7	0.1	0.1
Method: *SM 2520B*										
Salinity	g/kg, wet wt.	8 / 8	100%	5	22	14.0	NFK010	L4321-11	0	0
Method: *SM 2540-B*										
Total solids	%, dry wt.	21 / 21	100%	45	84	69.2	NFKUPRIV2	L4321-24	0	0
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	mg/kg, dry wt.	19 / 19	100%	680	30000	13200	NFK015	L4321-17	0	0

Table A-18. Summary of subsurface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 1 Aug 1994 (Norfolk-cleanup1)

Event Start Date: *8/17/94*
Event Stop Date: *8/31/94*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 376.2*											
Acid volatile sulfides	mg/kg, dry wt.	3	/	3	100%	170	1800	820	NFK009	L4321-26	0	0
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	3	/	3	100%	8400	13000	10800	NFK009	L4321-26	0	0
Antimony	mg/kg, dry wt.	0	/	3	0%	0	0				3.5	3.7
Arsenic	mg/kg, dry wt.	3	/	3	100%	8	14	11.7	NFK009	L4321-26	0	0
Barium	mg/kg, dry wt.	3	/	3	100%	21	44	36.0	NFK009	L4321-26	0	0
Beryllium	mg/kg, dry wt.	3	/	3	100%	0.21	0.3	0.267	NFK009	L4321-26	0	0
Cadmium	mg/kg, dry wt.	2	/	3	67%	0.54	1.2	0.870	NFK009	L4321-26	0.37	0.37
Calcium (total)	mg/kg, dry wt.	3	/	3	100%	3200	4700	4100	NFK009	L4321-26	0	0
Chromium	mg/kg, dry wt.	3	/	3	100%	13	29	20.7	NFK009	L4321-26	0	0
Copper	mg/kg, dry wt.	3	/	3	100%	22	130	84.0	NFK009	L4321-26	0	0
Iron	mg/kg, dry wt.	3	/	3	100%	17000	20000	18700	NFK009	L4321-26	0	0
Lead	mg/kg, dry wt.	3	/	3	100%	7.1	62	35.7	NFK009	L4321-26	0	0
Magnesium (total)	mg/kg, dry wt.	3	/	3	100%	3900	5300	4700	NFK009	L4321-26	0	0
Manganese	mg/kg, dry wt.	3	/	3	100%	170	180	173	NFK009	L4321-27	0	0
Molybdenum	mg/kg, dry wt.	0	/	3	0%	0	0				2.4	2.5
Nickel	mg/kg, dry wt.	3	/	3	100%	13	23	19.0	NFK009	L4321-26	0	0
Potassium (total)	mg/kg, dry wt.	3	/	3	100%	760	1300	1020	NFK009	L4321-26	0	0
Selenium (total)	mg/kg, dry wt.	0	/	3	0%	0	0				5.8	6.2
Silver	mg/kg, dry wt.	2	/	3	67%	0.49	0.52	0.505	NFK009	L4321-26	0.48	0.48
Sodium (total)	mg/kg, dry wt.	3	/	3	100%	2100	4900	3470	NFK009	L4321-26	0	0
Thallium (total)	mg/kg, dry wt.	0	/	3	0%	0	0				24	25
Zinc	mg/kg, dry wt.	3	/	3	100%	45	240	148	NFK009	L4321-26	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	3	/	3	100%	0.03	0.85	0.330	NFK009	L4321-26	0	0
Method: *EPA 8080*											
4,4'-DDD	ug/kg, dry wt.	1	/	3	33%	3.2	3.2	3.20	NFK009	L4321-26	1.5	1.6
4,4'-DDE	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
4,4'-DDT	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Aldrin	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
alpha-BHC	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Aroclor-1016	ug/kg, dry wt.	0	/	3	0%	0	0				15	17
Aroclor-1221	ug/kg, dry wt.	0	/	3	0%	0	0				15	17

Table A-18. Summary of subsurface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 1 Aug 1994 (Norfolk-cleanup1)

Event Start Date: *8/17/94*
Event Stop Date: *8/31/94*

ParameterName	Units	Det. Freq.			Detected Concentration Summary						Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.		Min	Max
Method: *EPA 8080*												
Aroclor-1232	ug/kg, dry wt.	0	/	3	0%	0	0				15	17
Aroclor-1242	ug/kg, dry wt.	0	/	3	0%	0	0				15	17
Aroclor-1248	ug/kg, dry wt.	2	/	3	67%	58	97	77.5	NFK009	L4321-26	15	15
Aroclor-1254	ug/kg, dry wt.	1	/	3	33%	89	89	89.0	NFK009	L4321-26	15	16
Aroclor-1260	ug/kg, dry wt.	1	/	3	33%	110	110	110	NFK009	L4321-26	15	16
beta-BHC	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Chlordane	ug/kg, dry wt.	0	/	3	0%	0	0				9.5	10
delta-BHC	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Dieldrin	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Endosulfan	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Endosulfan sulfate	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Endrin	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Endrin aldehyde	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
gamma-BHC	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Heptachlor	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Heptachlor epoxide	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Methoxychlor	ug/kg, dry wt.	0	/	3	0%	0	0				9.5	10
PCBs (total-calc'd)	ug/kg, dry wt.	2	/	3	67%	58	296	177	NFK009	L4321-26	15	15
Toxaphene	ug/kg, dry wt.	0	/	3	0%	0	0				15	17
Method: *EPA 8270*												
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
1,2-Dichlorobenzene	ug/kg, dry wt.	2	/	3	67%	1.9	2.3	2.10	NFK009	L4321-26	1.6	1.6
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	/	3	0%	0	0				63	67
1,3-Dichlorobenzene	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
1,4-Dichlorobenzene	ug/kg, dry wt.	3	/	3	100%	550	2800	1580	NFK009	L4321-27	0	0
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/	3	0%	0	0				130	140
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/	3	0%	0	0				130	140
2,4-Dichlorophenol	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
2,4-Dimethylphenol	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
2,4-Dinitrophenol	ug/kg, dry wt.	0	/	3	0%	0	0				63	67
2,4-Dinitrotoluene	ug/kg, dry wt.	0	/	3	0%	0	0				13	14
2,6-Dinitrotoluene	ug/kg, dry wt.	0	/	3	0%	0	0				13	14
2-Chloronaphthalene	ug/kg, dry wt.	0	/	3	0%	0	0				19	20

Table A-18. Summary of subsurface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 1 Aug 1994 (Norfolk-cleanup1)

Event Start Date: *8/17/94*
Event Stop Date: *8/31/94*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
2-Chlorophenol	ug/kg, dry wt.	0	/	3	0%	0	0			63	67
2-Methylnaphthalene	ug/kg, dry wt.	0	/	3	0%	0	0			51	55
2-Methylphenol	ug/kg, dry wt.	0	/	3	0%	0	0			32	34
2-Nitroaniline	ug/kg, dry wt.	0	/	3	0%	0	0			130	140
2-Nitrophenol	ug/kg, dry wt.	0	/	3	0%	0	0			32	34
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	3	0%	0	0			32	34
3-Nitroaniline	ug/kg, dry wt.	0	/	3	0%	0	0			130	140
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	3	0%	0	0			63	67
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	3	0%	0	0			13	14
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	3	0%	0	0			63	67
4-Chloroaniline	ug/kg, dry wt.	0	/	3	0%	0	0			63	67
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	3	0%	0	0			19	20
4-Methylphenol	ug/kg, dry wt.	0	/	3	0%	0	0			32	34
4-Nitroaniline	ug/kg, dry wt.	0	/	3	0%	0	0			130	140
4-Nitrophenol	ug/kg, dry wt.	0	/	3	0%	0	0			63	67
Acenaphthene	ug/kg, dry wt.	2	/	3	67%	29	51	40.0	NFK009	L4321-26	14	14
Acenaphthylene	ug/kg, dry wt.	0	/	3	0%	0	0				19	20
Aniline	ug/kg, dry wt.	0	/	3	0%	0	0				63	67
Anthracene	ug/kg, dry wt.	2	/	3	67%	58	97	77.5	NFK009	L4321-26	20	20
Benzidine	ug/kg, dry wt.	0	/	3	0%	0	0				760	810
Benzo(a)anthracene	ug/kg, dry wt.	3	/	3	100%	62	230	161	NFK009	L4321-26	0	0
Benzo(a)pyrene	ug/kg, dry wt.	3	/	3	100%	48	230	159	NFK009	L4321-26	0	0
Benzo(b)fluoranthene	ug/kg, dry wt.	3	/	3	100%	68	320	233	NFK009	L4321-26	0	0
Benzo(g,h,i)perylene	ug/kg, dry wt.	3	/	3	100%	37	61	51.7	NFK009	L4321-27	0	0
Benzo(k)fluoranthene	ug/kg, dry wt.	2	/	3	67%	130	130	130	NFK009	L4321-27	53	53
Benzoic acid	ug/kg, dry wt.	0	/	3	0%	0	0				130	140
Benzyl alcohol	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	3	0%	0	0				19	20
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	3	/	3	100%	140	840	457	NFK009	L4321-27	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0	/	3	0%	0	0				63	67
Butyl benzyl phthalate	ug/kg, dry wt.	1	/	3	33%	93	93	93.0	NFK009	L4321-28	19	20
Carbazole	ug/kg, dry wt.	2	/	3	67%	61	74	67.5	NFK009	L4321-27	33	33

Table A-18. Summary of subsurface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 1 Aug 1994 (Norfolk-cleanup1)

Event Start Date: *8/17/94*
Event Stop Date: *8/31/94*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Chrysene	ug/kg, dry wt.	3	/	3	100%	63	240	178	NFK009	L4321-26	0	0
Coprostanol	ug/kg, dry wt.	0	/	3	0%	0	0				130	140
Dibenzo(a,h)anthracene	ug/kg, dry wt.	0	/	3	0%	0	0				51	55
Dibenzofuran	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
Diethyl phthalate	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
Dimethyl phthalate	ug/kg, dry wt.	0	/	3	0%	0	0				13	14
Di-n-butyl phthalate	ug/kg, dry wt.	3	/	3	100%	42	76	63.7	NFK009	L4321-27	0	0
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	3	0%	0	0				19	20
Fluoranthene	ug/kg, dry wt.	3	/	3	100%	120	590	400	NFK009	L4321-26	0	0
Fluorene	ug/kg, dry wt.	2	/	3	67%	20	25	22.5	NFK009	L4321-26	20	20
Hexachlorobenzene	ug/kg, dry wt.	0	/	3	0%	0	0				1.5	1.7
Hexachlorobutadiene	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
Hexachloroethane	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	3	/	3	100%	38	75	62.7	NFK009	L4321-27	0	0
Isophorone	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
Naphthalene	ug/kg, dry wt.	0	/	3	0%	0	0				51	55
Nitrobenzene	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
N-Nitrosodimethylamine	ug/kg, dry wt.	0	/	3	0%	0	0				130	140
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
N-Nitrosodiphenylamine	ug/kg, dry wt.	1	/	3	33%	120	120	120	NFK009	L4321-26	32	33
Pentachlorophenol	ug/kg, dry wt.	0	/	3	0%	0	0				32	34
Phenanthrene	ug/kg, dry wt.	3	/	3	100%	28	380	236	NFK009	L4321-26	0	0
Phenol	ug/kg, dry wt.	0	/	3	0%	0	0				130	140
Pyrene	ug/kg, dry wt.	3	/	3	100%	130	480	327	NFK009	L4321-26	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	3	/	3	100%	566	2352	1660	NFK009	L4321-26	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	3	/	3	100%	28	553	329	NFK009	L4321-26	0	0
Method: *PSEP, 1986*											
Clay (percent)	%, dry wt.	3	/	3	100%	0.2	1.4	0.800	NFK009	L4321-26	0	0
Gravel (percent)	%, dry wt.	3	/	3	100%	7	41	24.3	NFK009	L4321-26	0	0
Sand (percent)	%, dry wt.	3	/	3	100%	46	89	67.3	NFK009	L4321-28	0	0
Silt (percent)	%, dry wt.	3	/	3	100%	3.9	13	8.27	NFK009	L4321-26	0	0
Method: *SM 2540-B*											

Table A-18. Summary of subsurface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 1 Aug 1994 (Norfolk-cleanup1)

Event Start Date: *8/17/94*
Event Stop Date: *8/31/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary						Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.		Min	Max
Method: *SM 2540-B*											
Total solids	%, dry wt.	3	3	100%	79	84	81.3	NFK009	L4321-27	0	0
Method: *SM 5310-B*											
Total Organic Carbon (TOC)	mg/kg, dry wt.	3	3	100%	5500	20000	10400	NFK009	L4321-26	0	0

Table A-19. Summary of surface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 2 Aug 1995 (Norfolk-cleanup2)

Event Start Date: *8/23/95*
Event Stop Date: *8/28/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	6	/	6	100%	10000	23000	17200	NFK202	L6725-2	0	0
Antimony	mg/kg, dry wt.	0	/	6	0%	0	0				3.2	5.4
Arsenic	mg/kg, dry wt.	4	/	6	67%	7.2	14	9.75	NFK204	L6725-4	8.1	9.1
Barium	mg/kg, dry wt.	6	/	6	100%	37	78	55.2	NFK202	L6725-2	0	0
Beryllium	mg/kg, dry wt.	6	/	6	100%	0.4	0.61	0.518	NFK206	L6725-6	0	0
Cadmium	mg/kg, dry wt.	2	/	6	33%	0.51	0.55	0.530	NFK203	L6725-3	0.32	0.54
Chromium	mg/kg, dry wt.	6	/	6	100%	21	29	23.7	NFK202	L6725-2	0	0
Copper	mg/kg, dry wt.	6	/	6	100%	26	49	35.0	NFK203	L6725-3	0	0
Iron	mg/kg, dry wt.	6	/	6	100%	21000	27000	23700	NFK202	L6725-2	0	0
Lead	mg/kg, dry wt.	6	/	6	100%	6.2	62	30.2	NFK203	L6725-3	0	0
Manganese	mg/kg, dry wt.	6	/	6	100%	210	420	283	NFK204	L6725-4	0	0
Molybdenum	mg/kg, dry wt.	0	/	6	0%	0	0				2.2	3.7
Nickel	mg/kg, dry wt.	6	/	6	100%	16	25	19.3	NFK202	L6725-2	0	0
Potassium (total)	mg/kg, dry wt.	6	/	6	100%	920	2300	1670	NFK201	L6725-1	0	0
Selenium (total)	mg/kg, dry wt.	0	/	6	0%	0	0				5.4	9.1
Silver	mg/kg, dry wt.	4	/	6	67%	0.87	0.97	0.910	NFK201	L6725-1	0.44	0.58
Thallium (total)	mg/kg, dry wt.	0	/	6	0%	0	0				22	37
Zinc	mg/kg, dry wt.	6	/	6	100%	53	180	102	NFK203	L6725-3	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	6	/	6	100%	0.03	3.7	0.747	NFK203	L6725-3	0	0
Method: *EPA 8080*											
4,4'-DDD	ug/kg, dry wt.	2	/	6	33%	5	86	45.5	NFK203	L6725-3	1.5	2.5
4,4'-DDE	ug/kg, dry wt.	1	/	6	17%	3.7	3.7	3.70	NFK203	L6725-3	1.5	2.5
4,4'-DDT	ug/kg, dry wt.	0	/	6	0%	0	0				1.5	2.5
Aldrin	ug/kg, dry wt.	0	/	6	0%	0	0				1.5	2.5
alpha-BHC	ug/kg, dry wt.	0	/	6	0%	0	0				1.5	2.5
Aroclor-1016	ug/kg, dry wt.	0	/	6	0%	0	0				15	25
Aroclor-1221	ug/kg, dry wt.	0	/	6	0%	0	0				15	25
Aroclor-1232	ug/kg, dry wt.	0	/	6	0%	0	0				15	25
Aroclor-1242	ug/kg, dry wt.	0	/	6	0%	0	0				15	25
Aroclor-1248	ug/kg, dry wt.	3	/	6	50%	130	2900	1440	NFK201	L6725-1	15	21
Aroclor-1254	ug/kg, dry wt.	2	/	6	33%	31	65	48.0	NFK202	L6725-2	15	25
Aroclor-1260	ug/kg, dry wt.	1	/	6	17%	120	120	120	NFK201	L6725-1	15	25

Table A-19. Summary of surface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 2 Aug 1995 (Norfolk-cleanup2)

Event Start Date: *8/23/95*
Event Stop Date: *8/28/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*										
beta-BHC	ug/kg, dry wt.	0 / 6	0%	0	0				1.5	2.5
Chlordane	ug/kg, dry wt.	1 / 6	17%	30	30	30.0	NFK203	L6725-3	7.7	13
delta-BHC	ug/kg, dry wt.	0 / 6	0%	0	0				1.5	2.5
Dieldrin	ug/kg, dry wt.	0 / 6	0%	0	0				1.5	2.5
Endosulfan	ug/kg, dry wt.	0 / 6	0%	0	0				1.5	2.5
Endosulfan sulfate	ug/kg, dry wt.	0 / 6	0%	0	0				1.5	2.5
Endrin	ug/kg, dry wt.	0 / 6	0%	0	0				1.5	2.5
Endrin aldehyde	ug/kg, dry wt.	0 / 6	0%	0	0				1.5	2.5
gamma-BHC	ug/kg, dry wt.	0 / 6	0%	0	0				1.5	2.5
Heptachlor	ug/kg, dry wt.	0 / 6	0%	0	0				1.5	2.5
Heptachlor epoxide	ug/kg, dry wt.	0 / 6	0%	0	0				1.5	2.5
Methoxychlor	ug/kg, dry wt.	0 / 6	0%	0	0				7.7	13
PCBs (total-calc'd)	ug/kg, dry wt.	4 / 6	67%	31	3020	1140	NFK201	L6725-1	15	21
Toxaphene	ug/kg, dry wt.	0 / 6	0%	0	0				15	25
Method: *EPA 8260*										
2-Butanone, 3-methoxy-3-methyl	ug/kg, dry wt.	1 / 1	100%	710	710	710	NFK206	L6725-6	0	0
Olean-12-ene	ug/kg, dry wt.	2 / 2	100%	520	770	645	NFK201	L6725-1	0	0
Method: *EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0 / 6	0%	0	0				18	31
1,2-Dichlorobenzene	ug/kg, dry wt.	0 / 6	0%	0	0				0.79	1.3
1,2-Diphenylhydrazine	ug/kg, dry wt.	0 / 6	0%	0	0				61	100
1,3-Dichlorobenzene	ug/kg, dry wt.	0 / 6	0%	0	0				0.79	1.3
1,4-Dichlorobenzene	ug/kg, dry wt.	4 / 6	67%	3.4	140	37.9	NFK203	L6725-3	0.79	1.3
2,2'-Met 1,3-Cyclohexanedione	ug/kg, dry wt.	1 / 1	100%	520	520	520	NFK205	L6725-5	0	0
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 6	0%	0	0				130	210
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 6	0%	0	0				130	210
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 6	0%	0	0				31	52
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 6	0%	0	0				31	52
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 6	0%	0	0				61	100
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 6	0%	0	0				13	21
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 6	0%	0	0				13	21
2-Butyn-1-ol	ug/kg, dry wt.	1 / 1	100%	280	280	280	NFK206	L6725-6	0	0
2-Chloronaphthalene	ug/kg, dry wt.	0 / 6	0%	0	0				18	31

Table A-19. Summary of surface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 2 Aug 1995 (Norfolk-cleanup2)

Event Start Date: *8/23/95*
Event Stop Date: *8/28/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
2-Chlorophenol	ug/kg, dry wt.	0	/	6	0%	0	0			61	100
2-Dodecyltetrade phenanthrene	ug/kg, dry wt.	1	/	1	100%	1200	1200	1200	NFK203	L6725-3	0	0
2-Methylnaphthalene	ug/kg, dry wt.	0	/	6	0%	0	0				49	83
2-Methylphenol	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
2-Nitroaniline	ug/kg, dry wt.	0	/	6	0%	0	0				130	210
2-Nitrophenol	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
3-Nitroaniline	ug/kg, dry wt.	0	/	6	0%	0	0				130	210
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	6	0%	0	0				61	100
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	6	0%	0	0				13	21
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	6	0%	0	0				61	100
4-Chloroaniline	ug/kg, dry wt.	0	/	6	0%	0	0				61	100
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	6	0%	0	0				18	31
4-Methylphenol	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
4-Nitroaniline	ug/kg, dry wt.	0	/	6	0%	0	0				130	210
4-Nitrophenol	ug/kg, dry wt.	0	/	6	0%	0	0				61	100
9.Beta.H-17,18-Dinor-8.Beta.H	ug/kg, dry wt.	1	/	1	100%	530	530	530	NFK201	L6725-1	0	0
Acenaphthene	ug/kg, dry wt.	2	/	6	33%	22	49	35.5	NFK201	L6725-1	13	21
Acenaphthylene	ug/kg, dry wt.	0	/	6	0%	0	0				18	31
A'-Neogammacer-22(29)-en-3-One	ug/kg, dry wt.	2	/	2	100%	480	500	490	NFK201	L6725-1	0	0
Aniline	ug/kg, dry wt.	0	/	6	0%	0	0				61	100
Anthracene	ug/kg, dry wt.	4	/	6	67%	35	110	67.5	NFK201	L6725-1	18	27
Benzidine	ug/kg, dry wt.	0	/	6	0%	0	0				730	1200
Benzo(a)anthracene	ug/kg, dry wt.	5	/	6	83%	100	380	220	NFK203	L6725-3	18	18
Benzo(a)pyrene	ug/kg, dry wt.	5	/	6	83%	100	360	214	NFK203	L6725-3	31	31
Benzo(b)fluoranthene	ug/kg, dry wt.	5	/	6	83%	160	450	292	NFK203	L6725-3	49	49
Benzo(g,h,i)perylene	ug/kg, dry wt.	5	/	6	83%	110	340	214	NFK203	L6725-3	31	31
Benzo(k)fluoranthene	ug/kg, dry wt.	5	/	6	83%	77	250	139	NFK203	L6725-3	49	49
Benzoic acid	ug/kg, dry wt.	4	/	6	67%	250	1500	595	NFK202	L6725-2	130	200
Benzyl alcohol	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	6	0%	0	0				18	31
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	6	/	6	100%	46	910	366	NFK203	L6725-3	0	0

Table A-19. Summary of surface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 2 Aug 1995 (Norfolk-cleanup2)

Event Start Date: *8/23/95*
Event Stop Date: *8/28/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary						Reporting Limit Summary	
						Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*												
bis-chloroisopropyl ether	ug/kg, dry wt.	0	/	6	0%	0	0				61	100
Butyl benzyl phthalate	ug/kg, dry wt.	2	/	6	33%	31	110	70.5	NFK203	L6725-3	18	31
Carbazole	ug/kg, dry wt.	2	/	6	33%	56	120	88.0	NFK203	L6725-3	31	50
Chrysene	ug/kg, dry wt.	5	/	6	83%	130	430	280	NFK203	L6725-3	18	18
Coprostanol	ug/kg, dry wt.	0	/	6	0%	0	0				130	210
D-friedoolean-14-en-3-one	ug/kg, dry wt.	1	/	1	100%	400	400	400	NFK201	L6725-1	0	0
Dibenzo(a,h)anthracene	ug/kg, dry wt.	1	/	6	17%	68	68	68.0	NFK203	L6725-3	49	83
Dibenzofuran	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
Diethyl phthalate	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
Dimethyl phthalate	ug/kg, dry wt.	0	/	6	0%	0	0				13	21
Di-n-butyl phthalate	ug/kg, dry wt.	6	/	6	100%	52	200	127	NFK205	L6725-5	0	0
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	6	0%	0	0				18	31
Fluoranthene	ug/kg, dry wt.	6	/	6	100%	23	940	484	NFK203	L6725-3	0	0
Fluorene	ug/kg, dry wt.	2	/	6	33%	29	58	43.5	NFK201	L6725-1	18	31
Hexachlorobenzene	ug/kg, dry wt.	0	/	6	0%	0	0				0.79	1.3
Hexachlorobutadiene	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
Hexachloroethane	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	5	/	6	83%	130	340	224	NFK203	L6725-3	31	31
Isophorone	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
Lup-20(29)-en-3-one	ug/kg, dry wt.	1	/	1	100%	580	580	580	NFK204	L6725-4	0	0
Naphthalene	ug/kg, dry wt.	0	/	6	0%	0	0				49	83
Nitrobenzene	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
N-Nitrosodimethylamine	ug/kg, dry wt.	0	/	6	0%	0	0				130	210
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
Octadecanal	ug/kg, dry wt.	2	/	2	100%	980	1100	1040	NFK201	L6725-1	0	0
Pentachlorophenol	ug/kg, dry wt.	0	/	6	0%	0	0				31	52
Phenanthrene	ug/kg, dry wt.	5	/	6	83%	120	540	314	NFK201	L6725-1	18	18
Phenol	ug/kg, dry wt.	0	/	6	0%	0	0				130	210
Pyrene	ug/kg, dry wt.	5	/	6	83%	190	780	454	NFK203	L6725-3	18	18
Total HPAH (calc'd)	ug/kg, dry wt.	6	/	6	100%	23	4338	2190	NFK203	L6725-3	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	5	/	6	83%	120	757	400	NFK201	L6725-1	49	49

Table A-19. Summary of surface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 2 Aug 1995 (Norfolk-cleanup2)

Event Start Date: *8/23/95*
Event Stop Date: *8/28/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *PSEP, 1986*											
Clay (percent)	%, dry wt.	6	/	6	100%	0.1	4.4	2.65	NFK202	L6725-2	0	0
Gravel (percent)	%, dry wt.	5	/	6	83%	0.2	14	4.00	NFK206	L6725-6	0.1	0.1
Sand (percent)	%, dry wt.	6	/	6	100%	35	74	57.8	NFK206	L6725-6	0	0
Silt (percent)	%, dry wt.	6	/	6	100%	12	60	36.5	NFK202	L6725-2	0	0
Method: *SM 2540-B*											
Total solids	%, dry wt.	6	/	6	100%	52	87	63.5	NFK206	L6725-6	0	0
Method: *SM 5310-B*											
Total Organic Carbon (TOC)	mg/kg, dry wt.	6	/	6	100%	8900	22000	14600	NFK201	L6725-1	0	0

Table A-20. Summary of subsurface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 2 Aug 1995 (Norfolk-cleanup2)

Event Start Date: *8/23/95*
Event Stop Date: *8/28/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary						Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.		Min	Max
Method: *EPA 335.3*											
Cyanide	mg/kg, dry wt.	0	9	0%	0	0				0.56	63
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	18	18	100%	6500	27000	13800	NFK008	L7089-5	0	0
Antimony	mg/kg, dry wt.	0	18	0%	0	0				3	5.7
Arsenic	mg/kg, dry wt.	1	18	6%	6.9	6.9	6.90	NFK009	L6725-17	5	9.6
Barium	mg/kg, dry wt.	12	12	100%	12	100	55.3	NFK008	L7089-3	0	0
Beryllium	mg/kg, dry wt.	18	18	100%	0.21	0.65	0.357	NFK008	L6725-27	0	0
Cadmium	mg/kg, dry wt.	5	18	28%	0.48	0.9	0.652	NFK008	L6725-27	0.32	0.57
Calcium (total)	mg/kg, dry wt.	12	12	100%	3300	7900	4910	NFK008	L7089-5	0	0
Chromium	mg/kg, dry wt.	18	18	100%	10	28	18.6	NFK207	L6725-8	0	0
Copper	mg/kg, dry wt.	18	18	100%	9	120	34.0	NFK207	L6725-9	0	0
Iron	mg/kg, dry wt.	18	18	100%	9800	37000	19500	NFK008	L7089-5	0	0
Lead	mg/kg, dry wt.	11	18	61%	10	120	40.3	NFK009	L6725-17	3.2	3.6
Magnesium (total)	mg/kg, dry wt.	6	6	100%	4100	8800	5930	NFK008	L7089-5	0	0
Manganese	mg/kg, dry wt.	18	18	100%	98	450	217	NFK008	L7089-5	0	0
Molybdenum	mg/kg, dry wt.	2	18	11%	2.6	4.5	3.55	NFK009	L6725-17	2.1	3.8
Nickel	mg/kg, dry wt.	18	18	100%	10	30	16.9	NFK207	L6725-8	0	0
Potassium (total)	mg/kg, dry wt.	18	18	100%	370	2100	1100	NFK008	L6725-26	0	0
Selenium (total)	mg/kg, dry wt.	0	18	0%	0	0				5	9.6
Silver	mg/kg, dry wt.	11	18	61%	0.5	1.4	0.858	NFK207	L6725-8	0.41	0.49
Sodium (total)	mg/kg, dry wt.	12	12	100%	700	5200	2230	NFK008	L7089-1	0	0
Thallium (total)	mg/kg, dry wt.	0	18	0%	0	0				20	38
Zinc	mg/kg, dry wt.	18	18	100%	26	260	76.1	NFK207	L6725-8	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	12	18	67%	0.03	37	3.23	NFK008	L6725-27	0	0.03
Method: *EPA 8080*											
4,4'-DDD	ug/kg, dry wt.	3	12	25%	2.7	4.1	3.20	NFK008	L6725-26	1.4	2.1
4,4'-DDE	ug/kg, dry wt.	1	12	8%	5.1	5.1	5.10	NFK207	L6725-8	1.4	2.3
4,4'-DDT	ug/kg, dry wt.	1	12	8%	2.8	2.8	2.80	NFK207	L6725-8	1.4	2.3
Aldrin	ug/kg, dry wt.	0	12	0%	0	0				1.4	2.3
alpha-BHC	ug/kg, dry wt.	0	12	0%	0	0				1.4	2.3
Aroclor-1016	ug/kg, dry wt.	0	18	0%	0	0				9.5	23
Aroclor-1221	ug/kg, dry wt.	0	18	0%	0	0				9.5	23

Table A-20. Summary of subsurface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 2 Aug 1995 (Norfolk-cleanup2)

Event Start Date: *8/23/95*
Event Stop Date: *8/28/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*											
Aroclor-1232	ug/kg, dry wt.	0	/	18	0%	0	0			9.5	23
Aroclor-1242	ug/kg, dry wt.	0	/	18	0%	0	0			9.5	23
Aroclor-1248	ug/kg, dry wt.	9	/	18	50%	48	80000	10200	NFK008	L6725-27	12	16
Aroclor-1254	ug/kg, dry wt.	3	/	18	17%	33	130	83.3	NFK008	L7089-1	9.5	23
Aroclor-1260	ug/kg, dry wt.	7	/	18	39%	19	1700	346	NFK008	L6725-27	9.5	17
beta-BHC	ug/kg, dry wt.	0	/	12	0%	0	0				1.4	2.3
Chlordane	ug/kg, dry wt.	1	/	12	8%	29	29	29.0	NFK207	L6725-8	7.3	12
delta-BHC	ug/kg, dry wt.	0	/	12	0%	0	0				1.4	2.3
Dieldrin	ug/kg, dry wt.	1	/	12	8%	1.8	1.8	1.80	NFK207	L6725-8	1.4	2.3
Endosulfan	ug/kg, dry wt.	0	/	12	0%	0	0				1.4	2.3
Endosulfan sulfate	ug/kg, dry wt.	0	/	12	0%	0	0				1.4	2.3
Endrin	ug/kg, dry wt.	0	/	12	0%	0	0				1.4	2.3
Endrin aldehyde	ug/kg, dry wt.	0	/	12	0%	0	0				1.4	2.3
gamma-BHC	ug/kg, dry wt.	0	/	12	0%	0	0				1.4	2.3
Heptachlor	ug/kg, dry wt.	0	/	12	0%	0	0				1.4	2.3
Heptachlor epoxide	ug/kg, dry wt.	0	/	12	0%	0	0				1.4	2.3
Methoxychlor	ug/kg, dry wt.	0	/	12	0%	0	0				7.3	12
PCB-116	mg/kg, dry wt.	1	/	1	100%	1.6	1.6	1.60	NFK008	L6725-27	0	0
PCB-25	mg/kg, dry wt.	1	/	1	100%	4.8	4.8	4.80	NFK008	L6725-27	0	0
PCB-28	mg/kg, dry wt.	1	/	1	100%	11	11	11.0	NFK008	L6725-27	0	0
PCB-31	mg/kg, dry wt.	1	/	1	100%	3.2	3.2	3.20	NFK008	L6725-27	0	0
PCB-44	mg/kg, dry wt.	1	/	1	100%	3.2	3.2	3.20	NFK008	L6725-27	0	0
PCB-49	mg/kg, dry wt.	1	/	1	100%	4.8	4.8	4.80	NFK008	L6725-27	0	0
PCB-55	mg/kg, dry wt.	1	/	1	100%	4.8	4.8	4.80	NFK008	L6725-27	0	0
PCB-56	mg/kg, dry wt.	1	/	1	100%	1.6	1.6	1.60	NFK008	L6725-27	0	0
PCB-71	mg/kg, dry wt.	1	/	1	100%	3.2	3.2	3.20	NFK008	L6725-27	0	0
PCB-79	mg/kg, dry wt.	1	/	1	100%	1.6	1.6	1.60	NFK008	L6725-27	0	0
PCBs (total-calc'd)	ug/kg, dry wt.	10	/	18	56%	48	81700	9420	NFK008	L6725-27	12	16
Toxaphene	ug/kg, dry wt.	0	/	12	0%	0	0				14	23
Method: *EPA 8260*											
2-Butanone, 3-methoxy-3-methyl	ug/kg, dry wt.	3	/	3	100%	520	630	560	NFK009	L6725-20	0	0
Urs-12-en-28-al	ug/kg, dry wt.	1	/	1	100%	1700	1700	1700	NFK008	L6725-26	0	0
Method: *EPA 8270*											

Table A-20. Summary of subsurface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 2 Aug 1995 (Norfolk-cleanup2)

Event Start Date: *8/23/95*
Event Stop Date: *8/28/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
1,2,3-Propanetricarboxylic acid	ug/kg, dry wt.	1 / 1	100%	420	420	420	NFK009	L6725-17	0	0
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0 / 12	0%	0	0				17	28
1,2-Dichlorobenzene	ug/kg, dry wt.	1 / 12	8%	1.7	1.7	1.70	NFK207	L6725-8	0.52	1.2
1,2-Diphenylhydrazine	ug/kg, dry wt.	0 / 12	0%	0	0				58	94
1,3-Dichlorobenzene	ug/kg, dry wt.	0 / 12	0%	0	0				0.52	1.2
1,4-Dichlorobenzene	ug/kg, dry wt.	11 / 12	92%	2.1	750	94.1	NFK207	L6725-8	0.86	0.86
1H-Indole 2-methyl-3-phenyl-	ug/kg, dry wt.	1 / 1	100%	720	720	720	NFK207	L6725-8	0	0
2,2'-Met 1,3-Cyclohexanedione	ug/kg, dry wt.	1 / 1	100%	590	590	590	NFK008	L6725-26	0	0
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 12	0%	0	0				120	200
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 12	0%	0	0				120	200
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 12	0%	0	0				58	94
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 12	0%	0	0				12	20
2,6-Bis(1,1-dimethylet phenol	ug/kg, dry wt.	1 / 1	100%	650	650	650	NFK009	L6725-17	0	0
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 12	0%	0	0				12	20
2-Chloronaphthalene	ug/kg, dry wt.	0 / 12	0%	0	0				17	28
2-Chlorophenol	ug/kg, dry wt.	0 / 12	0%	0	0				58	94
2-Methylnaphthalene	ug/kg, dry wt.	0 / 12	0%	0	0				47	76
2-Methylphenol	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
2-Nitroaniline	ug/kg, dry wt.	0 / 12	0%	0	0				120	200
2-Nitrophenol	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
3,5-Bis(1-methylethyl) phenol	ug/kg, dry wt.	1 / 1	100%	360	360	360	NFK207	L6725-8	0	0
3-Decylhe indeno[2,1-a]indene	ug/kg, dry wt.	1 / 1	100%	380	380	380	NFK009	L6725-17	0	0
3-Nitroaniline	ug/kg, dry wt.	0 / 12	0%	0	0				120	200
4-(1,1,3,3-tetramethyl phenol	ug/kg, dry wt.	1 / 1	100%	930	930	930	NFK207	L6725-8	0	0
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0 / 12	0%	0	0				58	94
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0 / 12	0%	0	0				12	20
4-Chloro-3-methylphenol	ug/kg, dry wt.	0 / 12	0%	0	0				58	94
4-Chloroaniline	ug/kg, dry wt.	1 / 12	8%	230	230	230	NFK207	L6725-8	58	94
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0 / 12	0%	0	0				17	28
4-Methylphenol	ug/kg, dry wt.	0 / 12	0%	0	0				29	48

Table A-20. Summary of subsurface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 2 Aug 1995 (Norfolk-cleanup2)

Event Start Date: *8/23/95*
Event Stop Date: *8/28/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
4-Nitroaniline	ug/kg, dry wt.	0	/	12	0%	0	0			120	200
4-Nitrophenol	ug/kg, dry wt.	0	/	12	0%	0	0			58	94
5Beta-cholestan-3alpha-ol	mg/kg, dry wt.	1	/	1	100%	1.2	1.2	1.20	NFK207	L6725-8	0	0
Acenaphthene	ug/kg, dry wt.	2	/	12	17%	29	48	38.5	NFK207	L6725-8	12	20
Acenaphthylene	ug/kg, dry wt.	1	/	12	8%	27	27	27.0	NFK207	L6725-8	17	28
A'-Neogammacer-22(29)-en-3-One	ug/kg, dry wt.	1	/	1	100%	1600	1600	1600	NFK008	L6725-26	0	0
Aniline	ug/kg, dry wt.	0	/	12	0%	0	0				58	94
Anthracene	ug/kg, dry wt.	5	/	12	42%	29	100	52.2	NFK207	L6725-8	17	20
Benzene, 1-methyl-3-(1-methyle	ug/kg, dry wt.	1	/	1	100%	900	900	900	NFK009	L6725-17	0	0
Benzidine	ug/kg, dry wt.	0	/	12	0%	0	0				700	1100
Benzo(a)anthracene	ug/kg, dry wt.	5	/	12	42%	97	850	277	NFK207	L6725-8	17	20
Benzo(a)pyrene	ug/kg, dry wt.	5	/	12	42%	120	1100	334	NFK207	L6725-8	29	34
Benzo(b)fluoranthene	ug/kg, dry wt.	5	/	12	42%	120	1100	382	NFK207	L6725-8	47	54
Benzo(g,h,i)perylene	ug/kg, dry wt.	5	/	12	42%	99	590	220	NFK207	L6725-8	29	34
Benzo(k)fluoranthene	ug/kg, dry wt.	5	/	12	42%	57	410	152	NFK207	L6725-8	47	54
Benzoic acid	ug/kg, dry wt.	4	/	12	33%	140	350	230	NFK008	L6725-26	120	140
Benzyl alcohol	ug/kg, dry wt.	0	/	12	0%	0	0				29	48
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	12	0%	0	0				29	48
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	12	0%	0	0				17	28
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	10	/	12	83%	20	1400	329	NFK207	L6725-8	19	19
bis-chloroisopropyl ether	ug/kg, dry wt.	0	/	12	0%	0	0				58	94
Butyl benzyl phthalate	ug/kg, dry wt.	1	/	12	8%	130	130	130	NFK207	L6725-8	17	28
Butyl citrate	ug/kg, dry wt.	1	/	1	100%	1100	1100	1100	NFK207	L6725-8	0	0
Carbazole	ug/kg, dry wt.	2	/	12	17%	36	78	57.0	NFK207	L6725-8	29	48
Cholesta-8,24-dien-3.beta.-ol,	ug/kg, dry wt.	1	/	1	100%	960	960	960	NFK009	L6725-17	0	0
Cholestane, 3,4-epoxy-, (3.alp	mg/kg, dry wt.	1	/	1	100%	2.4	2.4	2.40	NFK207	L6725-8	0	0
Chrysene	ug/kg, dry wt.	5	/	12	42%	110	890	318	NFK207	L6725-8	17	20
Coprostanol	ug/kg, dry wt.	1	/	12	8%	2600	2600	2600	NFK009	L6725-17	120	200
Cyclopropa[7,8]cholestan-3-one	mg/kg, dry wt.	1	/	1	100%	1.3	1.3	1.30	NFK009	L6725-17	0	0
Dibenzo(a,h)anthracene	ug/kg, dry wt.	1	/	12	8%	130	130	130	NFK207	L6725-8	47	76
Dibenzofuran	ug/kg, dry wt.	0	/	12	0%	0	0				29	48
Diethyl phthalate	ug/kg, dry wt.	0	/	12	0%	0	0				29	48
Dimethyl phthalate	ug/kg, dry wt.	0	/	12	0%	0	0				12	20

Table A-20. Summary of subsurface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 2 Aug 1995 (Norfolk-cleanup2)

Event Start Date: *8/23/95*
Event Stop Date: *8/28/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
Di-n-butyl phthalate	ug/kg, dry wt.	9 / 12	75%	45	190	104	NFK008	L6725-27	29	33
Di-n-octyl phthalate	ug/kg, dry wt.	0 / 12	0%	0	0				17	28
Fluoranthene	ug/kg, dry wt.	5 / 12	42%	270	1700	640	NFK207	L6725-8	17	20
Fluorene	ug/kg, dry wt.	3 / 12	25%	21	46	31.3	NFK207	L6725-8	17	28
Hexachlorobenzene	ug/kg, dry wt.	0 / 12	0%	0	0				0.52	1.2
Hexachlorobutadiene	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
Hexachlorocyclopentadiene	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
Hexachloroethane	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	5 / 12	42%	120	630	242	NFK207	L6725-8	29	34
Isophorone	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
Naphthalene	ug/kg, dry wt.	0 / 12	0%	0	0				47	76
Nitrobenzene	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
N-Nitrosodimethylamine	ug/kg, dry wt.	0 / 12	0%	0	0				120	200
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
N-Nitrosodiphenylamine	ug/kg, dry wt.	2 / 12	17%	33	51	42.0	NFK008	L6725-27	29	48
Nonyl-phenol	ug/kg, dry wt.	1 / 1	100%	850	850	850	NFK207	L6725-8	0	0
Pentachlorophenol	ug/kg, dry wt.	0 / 12	0%	0	0				29	48
Phenanthrene	ug/kg, dry wt.	5 / 12	42%	120	520	234	NFK207	L6725-8	17	20
Phenol	ug/kg, dry wt.	0 / 12	0%	0	0				120	200
Pyrene	ug/kg, dry wt.	5 / 12	42%	190	1600	522	NFK207	L6725-8	17	20
Stigmastan-3-ol, 5-chloro-, ac	mg/kg, dry wt.	1 / 1	100%	2.6	2.6	2.60	NFK009	L6725-17	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	5 / 12	42%	1294	9000	3110	NFK207	L6725-8	47	54
Total LPAH (calc'd)	ug/kg, dry wt.	5 / 12	42%	178	741	326	NFK207	L6725-8	47	54
Triacetin	mg/kg, dry wt.	1 / 1	100%	1.2	1.2	1.20	NFK207	L6725-8	0	0
Vitamin E	ug/kg, dry wt.	1 / 1	100%	1200	1200	1200	NFK009	L6725-17	0	0
Method: *EPA 8440*										
Gasoline	mg/kg, dry wt.	0 / 9	0%	0	0				22	34
Method: *PSEP, 1986*										
Clay (percent)	%, dry wt.	12 / 15	80%	0.1	5.4	1.37	NFK008	L7089-5	0.1	0.1
Gravel (percent)	%, dry wt.	13 / 15	87%	0.6	27	8.12	NFK207	L6725-8	0.1	0.1
Sand (percent)	%, dry wt.	15 / 15	100%	41	95	76.2	NFK008	L6725-29	0	0
Silt (percent)	%, dry wt.	15 / 15	100%	1.7	55	15.7	NFK008	L7089-4	0	0
Method: *SM 2540-B*										

Table A-20. Summary of subsurface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 2 Aug 1995 (Norfolk-cleanup2)

Event Start Date: *8/23/95*
Event Stop Date: *8/28/95*

Parameter Name	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *SM 2540-B*										
Total solids	%, dry wt.	27 / 27	100%	52	92	78.1	NFK009	L6725-20	0	0
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	mg/kg, dry wt.	18 / 18	100%	270	28000	7700	NFK008	L7089-5	0	0
Method: *WTPH-D*										
Heavy Oil	mg/kg, dry wt.	1 / 9	11%	150	150	150	NFK008	L6725-32	110	130
TPH - Diesel #2 Range	mg/kg, dry wt.	0 / 8	0%	0	0				56	64

Table A-21. Summary of surface sediment chemistry from Norfolk CSO sediment cleanup study-Phase 3 Dec 1995 (Norfolk-cleanup3)

Event Start Date: *12/5/95*
Event Stop Date: *12/6/95*

Parameter Name	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/	16	0%	0	0			8.8	1700
Aroclor-1221	ug/kg, dry wt.	0	/	16	0%	0	0			8.8	1700
Aroclor-1232	ug/kg, dry wt.	0	/	16	0%	0	0			8.8	1700
Aroclor-1242	ug/kg, dry wt.	0	/	16	0%	0	0			8.8	1700
Aroclor-1248	ug/kg, dry wt.	16	/	16	100%	16	468000	43200	NFK315	L7462-15	0	0
Aroclor-1254	ug/kg, dry wt.	7	/	16	44%	17	270	90.4	NFK310	L7462-10	8.8	1700
Aroclor-1260	ug/kg, dry wt.	12	/	16	75%	31	10000	1190	NFK315	L7462-15	8.8	17
PCBs (total-calc'd)	ug/kg, dry wt.	16	/	16	100%	16	478000	44200	NFK315	L7462-15	0	0
Method: *PSEP, 1986*											
Clay (percent)	%, dry wt.	16	/	16	100%	0.1	8.8	5.58	NFK310	L7462-10	0	0
Gravel (percent)	%, dry wt.	12	/	16	75%	0.2	8.4	1.64	NFK302	L7462-2	0.1	0.1
Sand (percent)	%, dry wt.	16	/	16	100%	35	90	50.3	NFK302	L7462-2	0	0
Silt (percent)	%, dry wt.	16	/	16	100%	1.3	57	43.1	NFK306	L7462-6	0	0
Method: *SM 2540-B*											
Total solids	%, dry wt.	16	/	16	100%	48	94	54.8	NFK302	L7462-2	0	0
Method: *SM 5310-B*											
Total Organic Carbon (TOC)	mg/kg, dry wt.	16	/	16	100%	320	33000	20300	NFK201	L7462-16	0	0

Table A-22. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1 Aug 1994 (Duw/Diag-1)

Event Start Date: *8/9/94*
Event Stop Date: *8/25/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary				Location of Max	Sample ID of Max.	Reporting Limit Summary	
					Min	Max	Average			Min	Max
Method: *EPA 150.1*											
pH	pH	12	/ 12	100%	6.7	8.1	7.52	DUD001	L4288-30	0	0
Method: *EPA 1630 (draft)*											
Methylmercury	ug/kg, dry wt.	12	/ 12	100%	0.14	3.4	0.948	DUD005	L4288-31	0	0
Method: *EPA 376.2*											
Acid volatile sulfides	mg/kg, dry wt.	38	/ 40	95%	88	6100	2240	DUD010	L4288-9	51	53
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	40	/ 40	100%	5000	28000	18400	DUD023	L4288-37	0	0
Antimony	mg/kg, dry wt.	16	/ 40	40%	5.2	29	8.43	DUD032	L4288-27	3.8	6.8
Arsenic	mg/kg, dry wt.	37	/ 40	93%	7.2	150	28.3	DUD032	L4288-27	6.3	7.1
Barium	mg/kg, dry wt.	40	/ 40	100%	9.4	440	101	DUD026	L4288-23	0	0
Beryllium	mg/kg, dry wt.	39	/ 40	98%	0.13	0.63	0.425	DUD025	L4288-38	0.13	0.13
Cadmium	mg/kg, dry wt.	32	/ 40	80%	0.49	9.4	1.36	DUD027	L4288-24	0.38	0.56
Calcium (total)	mg/kg, dry wt.	40	/ 40	100%	2400	33000	8240	DUD028	L4288-25	0	0
Chromium	mg/kg, dry wt.	40	/ 40	100%	10	490	52.3	DUD027	L4288-24	0	0
Copper	mg/kg, dry wt.	40	/ 40	100%	7.9	250	89.0	DUD027	L4288-24	0	0
Iron	mg/kg, dry wt.	40	/ 40	100%	8100	37000	24900	DUD021	L4288-20	0	0
Lead	mg/kg, dry wt.	40	/ 40	100%	9.9	560	137	DUD027	L4288-24	0	0
Magnesium (total)	mg/kg, dry wt.	40	/ 40	100%	2000	9800	7050	DUD028	L4288-25	0	0
Manganese	mg/kg, dry wt.	40	/ 40	100%	78	350	256	DUD025	L4288-38	0	0
Molybdenum	mg/kg, dry wt.	8	/ 40	20%	3.5	10	4.86	DUD027	L4288-24	2.5	4.5
Nickel	mg/kg, dry wt.	40	/ 40	100%	6	36	25.9	DUD003	L4288-2	0	0
Potassium (total)	mg/kg, dry wt.	40	/ 40	100%	520	3500	2320	DUD023	L4288-37	0	0
Selenium (total)	mg/kg, dry wt.	0	/ 40	0%	0	0				6.3	11
Silver	mg/kg, dry wt.	18	/ 40	45%	0.69	30	3.08	DUD027	L4288-24	0.51	0.79
Sodium (total)	mg/kg, dry wt.	40	/ 40	100%	2800	15000	9380	DUD010	L4288-9	0	0
Thallium (total)	mg/kg, dry wt.	0	/ 40	0%	0	0				25	45
Zinc	mg/kg, dry wt.	40	/ 40	100%	31	800	234	DUD027	L4288-24	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	37	/ 40	93%	0.03	2.3	0.384	DUD027	L4288-24	0.03	0.03
Method: *EPA 8080*											
4,4'-DDD	ug/kg, dry wt.	29	/ 40	73%	2.2	230	14.1	DUD027	L4288-24	1.6	51
4,4'-DDE	ug/kg, dry wt.	5	/ 40	13%	5.3	12	8.56	DUD004	L4288-3	1.6	56
4,4'-DDT	ug/kg, dry wt.	3	/ 40	8%	37	180	99.3	DUD021	L4288-19	1.6	56

Table A-22. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1 Aug 1994 (Duw/Diag-1)

Event Start Date: *8/9/94*
Event Stop Date: *8/25/94*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*											
Aldrin	ug/kg, dry wt.	0	/ 40	0%	0	0				1.6	56
alpha-BHC	ug/kg, dry wt.	0	/ 40	0%	0	0				1.6	56
Aroclor-1016	ug/kg, dry wt.	0	/ 40	0%	0	0				16	560
Aroclor-1221	ug/kg, dry wt.	0	/ 40	0%	0	0				16	560
Aroclor-1232	ug/kg, dry wt.	0	/ 40	0%	0	0				16	560
Aroclor-1242	ug/kg, dry wt.	1	/ 40	3%	280	280	280	DUD032	L4288-27	16	560
Aroclor-1248	ug/kg, dry wt.	35	/ 40	88%	21	19000	776	DUD027	L4288-24	16	19
Aroclor-1254	ug/kg, dry wt.	34	/ 40	85%	19	14000	638	DUD026	L4288-23	16	19
Aroclor-1260	ug/kg, dry wt.	36	/ 40	90%	30	4700	308	DUD027	L4288-24	16	19
beta-BHC	ug/kg, dry wt.	0	/ 40	0%	0	0				1.6	56
Chlordane	ug/kg, dry wt.	5	/ 40	13%	25	50	39.2	DUD005	L4288-31	10	330
delta-BHC	ug/kg, dry wt.	0	/ 40	0%	0	0				1.6	56
Dieldrin	ug/kg, dry wt.	2	/ 40	5%	3.1	3.5	3.30	DUD006	L4288-5	1.6	56
Endosulfan	ug/kg, dry wt.	0	/ 40	0%	0	0				1.6	56
Endosulfan sulfate	ug/kg, dry wt.	0	/ 40	0%	0	0				1.6	56
Endrin	ug/kg, dry wt.	0	/ 40	0%	0	0				1.6	56
Endrin aldehyde	ug/kg, dry wt.	0	/ 40	0%	0	0				1.6	56
gamma-BHC	ug/kg, dry wt.	3	/ 40	8%	4.9	8.6	6.17	DUD032	L4288-27	1.6	56
Heptachlor	ug/kg, dry wt.	0	/ 40	0%	0	0				1.6	56
Heptachlor epoxide	ug/kg, dry wt.	0	/ 40	0%	0	0				1.6	56
Methoxychlor	ug/kg, dry wt.	0	/ 40	0%	0	0				10	330
PCBs (total-calc'd)	ug/kg, dry wt.	36	/ 40	90%	35	26000	1670	DUD027	L4288-24	16	19
Toxaphene	ug/kg, dry wt.	0	/ 40	0%	0	0				16	560
Method: *EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	4	/ 40	10%	2.6	72	20.6	DUD027	L4288-24	1.6	3
1,2-Dichlorobenzene	ug/kg, dry wt.	15	/ 40	38%	2.1	150	13.3	DUD027	L4288-24	1.6	3
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	/ 40	0%	0	0				67	120
1,3-Dichlorobenzene	ug/kg, dry wt.	7	/ 40	18%	2.7	8.4	3.79	DUD027	L4288-24	1.6	3
1,4-Dichlorobenzene	ug/kg, dry wt.	36	/ 40	90%	3	1600	54.5	DUD027	L4288-24	1.7	3
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/ 40	0%	0	0				140	250
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/ 40	0%	0	0				140	250
2,4-Dichlorophenol	ug/kg, dry wt.	0	/ 40	0%	0	0				34	61
2,4-Dimethylphenol	ug/kg, dry wt.	0	/ 40	0%	0	0				34	61

Table A-22. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1 Aug 1994 (Duw/Diag-1)

Event Start Date: *8/9/94*
Event Stop Date: *8/25/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 40	0%	0	0				67	120
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 40	0%	0	0				14	25
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 40	0%	0	0				14	25
2-Chloronaphthalene	ug/kg, dry wt.	0 / 40	0%	0	0				20	36
2-Chlorophenol	ug/kg, dry wt.	0 / 40	0%	0	0				67	120
2-Methylnaphthalene	ug/kg, dry wt.	4 / 40	10%	73	250	176	DUD005	L4288-31	55	98
2-Methylphenol	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
2-Nitroaniline	ug/kg, dry wt.	0 / 40	0%	0	0				140	250
2-Nitrophenol	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
3-Nitroaniline	ug/kg, dry wt.	0 / 40	0%	0	0				140	250
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0 / 40	0%	0	0				67	120
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0 / 40	0%	0	0				14	25
4-Chloro-3-methylphenol	ug/kg, dry wt.	0 / 40	0%	0	0				67	120
4-Chloroaniline	ug/kg, dry wt.	0 / 40	0%	0	0				67	120
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0 / 40	0%	0	0				20	36
4-Methylphenol	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
4-Nitroaniline	ug/kg, dry wt.	0 / 40	0%	0	0				140	250
4-Nitrophenol	ug/kg, dry wt.	0 / 40	0%	0	0				67	120
Acenaphthene	ug/kg, dry wt.	26 / 40	65%	26	260	72.1	DUD005	L4288-31	14	22
Acenaphthylene	ug/kg, dry wt.	17 / 40	43%	28	110	44.8	DUD010	L4288-9	20	33
Aniline	ug/kg, dry wt.	0 / 40	0%	0	0				67	120
Anthracene	ug/kg, dry wt.	36 / 40	90%	37	520	178	DUD010	L4288-9	20	23
Benzidine	ug/kg, dry wt.	0 / 40	0%	0	0				810	1500
Benzo(a)anthracene	ug/kg, dry wt.	38 / 40	95%	86	1600	623	DUD010	L4288-9	20	21
Benzo(a)pyrene	ug/kg, dry wt.	38 / 40	95%	59	1700	654	DUD019	L4288-16	34	36
Benzo(b)fluoranthene	ug/kg, dry wt.	38 / 40	95%	120	3200	1220	DUD019	L4288-16	55	57
Benzo(g,h,i)perylene	ug/kg, dry wt.	37 / 40	93%	76	720	251	DUD019	L4288-16	34	38
Benzo(k)fluoranthene	ug/kg, dry wt.	37 / 40	93%	100	1300	497	DUD004	L4288-3	55	61
Benzoic acid	ug/kg, dry wt.	10 / 40	25%	270	410	320	DUD019	L4288-16	140	230
Benzyl alcohol	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
bis(2-chloroethyl)ether	ug/kg, dry wt.	0 / 40	0%	0	0				20	36

Table A-22. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1 Aug 1994 (Duw/Diag-1)

Event Start Date: *8/9/94*
Event Stop Date: *8/25/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	40 / 40	100%	35	17000	4200	DUD027	L4288-24	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0 / 40	0%	0	0				67	120
Butyl benzyl phthalate	ug/kg, dry wt.	35 / 40	88%	35	2400	329	DUD026	L4288-23	20	32
Carbazole	ug/kg, dry wt.	35 / 40	88%	51	660	188	DUD019	L4288-16	34	51
Chrysene	ug/kg, dry wt.	39 / 40	98%	40	1900	751	DUD010	L4288-9	20	20
Coprostanol	ug/kg, dry wt.	18 / 40	45%	240	29000	2270	DUD027	L4288-24	140	220
Dibenzo(a,h)anthracene	ug/kg, dry wt.	20 / 40	50%	82	220	127	DUD026	L4288-23	55	89
Dibenzofuran	ug/kg, dry wt.	7 / 40	18%	44	150	77.4	DUD005	L4288-31	34	56
Diethyl phthalate	ug/kg, dry wt.	2 / 40	5%	47	140	93.5	DUD007	L4288-6	34	61
Dimethyl phthalate	ug/kg, dry wt.	18 / 40	45%	22	200	73.6	DUD001	L4288-30	14	23
Di-n-butyl phthalate	ug/kg, dry wt.	40 / 40	100%	63	2100	195	DUD026	L4288-23	0	0
Di-n-octyl phthalate	ug/kg, dry wt.	0 / 40	0%	0	0				20	36
Fluoranthene	ug/kg, dry wt.	39 / 40	98%	110	4400	1270	DUD005	L4288-31	20	20
Fluorene	ug/kg, dry wt.	32 / 40	80%	25	300	79.8	DUD005	L4288-31	20	30
Hexachlorobenzene	ug/kg, dry wt.	0 / 40	0%	0	0				1.6	3
Hexachlorobutadiene	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
Hexachlorocyclopentadiene	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
Hexachloroethane	ug/kg, dry wt.	0 / 39	0%	0	0				34	61
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	37 / 40	93%	73	820	310	DUD019	L4288-16	34	38
Isophorone	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
Naphthalene	ug/kg, dry wt.	1 / 40	3%	120	120	120	DUD005	L4288-31	55	98
Nitrobenzene	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
N-Nitrosodimethylamine	ug/kg, dry wt.	0 / 40	0%	0	0				140	250
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
N-Nitrosodiphenylamine	ug/kg, dry wt.	8 / 40	20%	42	230	108	DUD021	L4288-36	34	56
Pentachlorophenol	ug/kg, dry wt.	0 / 40	0%	0	0				34	61
Phenanthrene	ug/kg, dry wt.	39 / 40	98%	46	2700	624	DUD005	L4288-31	20	20
Phenol	ug/kg, dry wt.	3 / 40	8%	180	870	440	DUD020	L4378-12	140	250
Pyrene	ug/kg, dry wt.	39 / 40	98%	67	3100	1090	DUD005	L4288-31	20	20
Total HPAH (calc'd)	ug/kg, dry wt.	39 / 40	98%	217	18060	6610	DUD019	L4288-16	55	55
Total LPAH (calc'd)	ug/kg, dry wt.	39 / 40	98%	46	3768	924	DUD005	L4288-31	55	55
Method: *Krone et al. 1989*										
Butyltin (total)	ug/kg, dry wt.	27 / 38	71%	70	590	258	DUD034	L4288-28	15	25

Table A-22. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1 Aug 1994 (Duw/Diag-1)

Event Start Date: *8/9/94*
Event Stop Date: *8/25/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *PSEP, 1986*										
Clay (percent)	%, dry wt.	36 / 37	97%	0.3	32	16.0	DUD021	L4288-19	0.1	0.1
Gravel (percent)	%, dry wt.	31 / 40	78%	0.2	28	3.76	DUD006	L4288-5	0.1	0.1
Sand (percent)	%, dry wt.	40 / 40	100%	15	91	46.1	DUD015	L4288-13	0	0
Silt (percent)	%, dry wt.	37 / 37	100%	4.6	77	34.6	DUD025	L4288-38	0	0
Method: *SM 2520B*										
Salinity	g/kg, wet wt.	12 / 12	100%	21	27	25.6	DUD033	L4288-41	0	0
Method: *SM 2540-B*										
Total solids	%, dry wt.	40 / 40	100%	44	79	58.4	DUD015	L4288-13	0	0
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	mg/kg, dry wt.	40 / 40	100%	800	94000	24400	DUD027	L4288-24	0	0

Table A-23. Summary of subsurface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1 Aug 1994 (Duw/Diag-1)

Event Start Date: *8/9/94*
Event Stop Date: *8/25/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 376.2*										
Acid volatile sulfides	mg/kg, dry wt.	11 / 12	92%	76	4600	1600	DUD020	L4378-13	51	51
Method: *EPA 6010*										
Aluminum	mg/kg, dry wt.	12 / 12	100%	8600	40000	14600	DUD020	L4378-15	0	0
Antimony	mg/kg, dry wt.	11 / 12	92%	4.2	8.9	6.48	DUD006	L4378-9	5.3	5.3
Arsenic	mg/kg, dry wt.	12 / 12	100%	14	36	21.8	DUD020	L4378-15	0	0
Barium	mg/kg, dry wt.	12 / 12	100%	37	140	84.8	DUD006	L4378-7	0	0
Beryllium	mg/kg, dry wt.	12 / 12	100%	0.18	0.75	0.289	DUD020	L4378-15	0	0
Cadmium	mg/kg, dry wt.	12 / 12	100%	1.6	18	6.83	DUD006	L4378-10	0	0
Calcium (total)	mg/kg, dry wt.	12 / 12	100%	4100	7900	5710	DUD020	L4378-14	0	0
Chromium	mg/kg, dry wt.	12 / 12	100%	35	180	72.3	DUD006	L4378-9	0	0
Copper	mg/kg, dry wt.	12 / 12	100%	76	420	162	DUD006	L4378-4	0	0
Iron	mg/kg, dry wt.	12 / 12	100%	15000	39000	20800	DUD020	L4378-15	0	0
Lead	mg/kg, dry wt.	12 / 12	100%	230	1400	685	DUD006	L4378-9	0	0
Magnesium (total)	mg/kg, dry wt.	12 / 12	100%	4600	11000	6030	DUD020	L4378-15	0	0
Manganese	mg/kg, dry wt.	12 / 12	100%	170	420	233	DUD020	L4378-15	0	0
Molybdenum	mg/kg, dry wt.	5 / 12	42%	3	6.4	4.64	DUD020	L4378-17	2.5	4
Nickel	mg/kg, dry wt.	12 / 12	100%	24	35	30.3	DUD006	L4378-9	0	0
Potassium (total)	mg/kg, dry wt.	12 / 12	100%	830	5000	1610	DUD020	L4378-15	0	0
Selenium (total)	mg/kg, dry wt.	0 / 12	0%	0	0				6.2	10
Silver	mg/kg, dry wt.	12 / 12	100%	0.62	6.1	2.21	DUD020	L4378-14	0	0
Sodium (total)	mg/kg, dry wt.	12 / 12	100%	3000	14000	5810	DUD020	L4378-15	0	0
Thallium (total)	mg/kg, dry wt.	0 / 12	0%	0	0				25	40
Zinc	mg/kg, dry wt.	12 / 12	100%	210	460	327	DUD020	L4378-17	0	0
Method: *EPA 7471*										
Mercury	mg/kg, dry wt.	12 / 12	100%	0.22	3.3	1.03	DUD006	L4378-8	0	0
Method: *EPA 8080*										
4,4'-DDD	ug/kg, dry wt.	8 / 12	67%	5	46	22.6	DUD006	L4378-10	1.6	2
4,4'-DDE	ug/kg, dry wt.	4 / 12	33%	35	66	48.0	DUD006	L4378-9	1.6	2.6
4,4'-DDT	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
Aldrin	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
alpha-BHC	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
Aroclor-1016	ug/kg, dry wt.	0 / 12	0%	0	0				16	26
Aroclor-1221	ug/kg, dry wt.	0 / 12	0%	0	0				16	26

Table A-23. Summary of subsurface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1 Aug 1994 (Duw/Diag-1)

Event Start Date: *8/9/94*
Event Stop Date: *8/25/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*										
Aroclor-1232	ug/kg, dry wt.	0 / 12	0%	0	0				16	26
Aroclor-1242	ug/kg, dry wt.	8 / 12	67%	96	1600	600	DUD020	L4378-17	16	26
Aroclor-1248	ug/kg, dry wt.	11 / 12	92%	53	1600	448	DUD020	L4378-17	16	16
Aroclor-1254	ug/kg, dry wt.	12 / 12	100%	58	770	300	DUD020	L4378-16	0	0
Aroclor-1260	ug/kg, dry wt.	12 / 12	100%	20	670	164	DUD020	L4378-17	0	0
beta-BHC	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
Chlordane	ug/kg, dry wt.	1 / 12	8%	70	70	70.0	DUD006	L4378-5	9.9	16
delta-BHC	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
Dieldrin	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
Endosulfan	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
Endosulfan sulfate	ug/kg, dry wt.	0 / 11	0%	0	0				1.6	2.6
Endrin	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
Endrin aldehyde	ug/kg, dry wt.	0 / 11	0%	0	0				1.6	2.6
gamma-BHC	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
Heptachlor	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
Heptachlor epoxide	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
Methoxychlor	ug/kg, dry wt.	0 / 12	0%	0	0				9.9	16
PCBs (total-calc'd)	ug/kg, dry wt.	12 / 12	100%	158	4450	1270	DUD020	L4378-17	0	0
Toxaphene	ug/kg, dry wt.	0 / 12	0%	0	0				16	26
Method: *EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0 / 12	0%	0	0				1.6	2.6
1,2-Dichlorobenzene	ug/kg, dry wt.	10 / 12	83%	1.7	96	13.1	DUD006	L4378-9	1.6	2.6
1,2-Diphenylhydrazine	ug/kg, dry wt.	0 / 12	0%	0	0				66	110
1,3-Dichlorobenzene	ug/kg, dry wt.	2 / 12	17%	2.2	2.3	2.25	DUD020	L4378-17	1.6	2.6
1,4-Dichlorobenzene	ug/kg, dry wt.	11 / 12	92%	34	260	87.9	DUD006	L4378-6	1.7	1.7
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 12	0%	0	0				140	220
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 12	0%	0	0				140	220
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 12	0%	0	0				33	55
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 12	0%	0	0				33	55
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 12	0%	0	0				66	110
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 12	0%	0	0				14	22
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 12	0%	0	0				14	22
2-Chloronaphthalene	ug/kg, dry wt.	0 / 12	0%	0	0				20	32

Table A-23. Summary of subsurface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1 Aug 1994 (Duw/Diag-1)

Event Start Date: *8/9/94*
Event Stop Date: *8/25/94*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
2-Chlorophenol	ug/kg, dry wt.	0	/	12	0%	0	0			66	110
2-Methylnaphthalene	ug/kg, dry wt.	3	/	12	25%	65	110	85.7	DUD006	L4378-10	53	87
2-Methylphenol	ug/kg, dry wt.	0	/	12	0%	0	0				33	55
2-Nitroaniline	ug/kg, dry wt.	0	/	12	0%	0	0				140	220
2-Nitrophenol	ug/kg, dry wt.	0	/	12	0%	0	0				33	55
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	12	0%	0	0				33	55
3-Nitroaniline	ug/kg, dry wt.	0	/	12	0%	0	0				140	220
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	12	0%	0	0				66	110
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	12	0%	0	0				14	22
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	12	0%	0	0				66	110
4-Chloroaniline	ug/kg, dry wt.	0	/	12	0%	0	0				66	110
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	12	0%	0	0				20	32
4-Methylphenol	ug/kg, dry wt.	0	/	12	0%	0	0				33	55
4-Nitroaniline	ug/kg, dry wt.	0	/	12	0%	0	0				140	220
4-Nitrophenol	ug/kg, dry wt.	0	/	12	0%	0	0				66	110
Acenaphthene	ug/kg, dry wt.	10	/	12	83%	20	330	143	DUD006	L4378-8	14	22
Acenaphthylene	ug/kg, dry wt.	6	/	12	50%	27	49	37.7	DUD006	L4378-10	20	32
Aniline	ug/kg, dry wt.	0	/	12	0%	0	0				66	110
Anthracene	ug/kg, dry wt.	12	/	12	100%	67	760	252	DUD006	L4378-9	0	0
Benzidine	ug/kg, dry wt.	0	/	12	0%	0	0				790	1300
Benzo(a)anthracene	ug/kg, dry wt.	12	/	12	100%	200	1500	707	DUD006	L4378-9	0	0
Benzo(a)pyrene	ug/kg, dry wt.	12	/	12	100%	220	1800	777	DUD006	L4378-10	0	0
Benzo(b)fluoranthene	ug/kg, dry wt.	12	/	12	100%	310	2900	1140	DUD006	L4378-10	0	0
Benzo(g,h,i)perylene	ug/kg, dry wt.	12	/	12	100%	98	650	273	DUD006	L4378-10	0	0
Benzo(k)fluoranthene	ug/kg, dry wt.	12	/	12	100%	110	1100	456	DUD006	L4378-10	0	0
Benzoic acid	ug/kg, dry wt.	1	/	12	8%	220	220	220	DUD020	L4378-16	140	220
Benzyl alcohol	ug/kg, dry wt.	0	/	12	0%	0	0				33	55
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	12	0%	0	0				33	55
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	12	0%	0	0				20	32
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	12	/	12	100%	1500	11000	3820	DUD020	L4378-13	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0	/	12	0%	0	0				66	110
Butyl benzyl phthalate	ug/kg, dry wt.	11	/	12	92%	44	1300	263	DUD006	L4378-7	20	20
Carbazole	ug/kg, dry wt.	11	/	12	92%	53	410	177	DUD020	L4378-17	37	37

Table A-23. Summary of subsurface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1 Aug 1994 (Duw/Diag-1)

Event Start Date: *8/9/94*
Event Stop Date: *8/25/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
Chrysene	ug/kg, dry wt.	12 / 12	100%	250	1600	792	DUD006	L4378-9	0	0
Coprostanol	ug/kg, dry wt.	6 / 12	50%	300	2300	1090	DUD006	L4378-10	140	220
Dibenzo(a,h)anthracene	ug/kg, dry wt.	7 / 12	58%	65	190	94.6	DUD006	L4378-10	53	87
Dibenzofuran	ug/kg, dry wt.	7 / 12	58%	44	150	75.7	DUD006	L4378-8	33	55
Diethyl phthalate	ug/kg, dry wt.	0 / 12	0%	0	0				33	55
Dimethyl phthalate	ug/kg, dry wt.	2 / 12	17%	66	72	69.0	DUD020	L4378-17	14	22
Di-n-butyl phthalate	ug/kg, dry wt.	12 / 12	100%	50	130	89.8	DUD006	L4378-8	0	0
Di-n-octyl phthalate	ug/kg, dry wt.	0 / 12	0%	0	0				20	32
Fluoranthene	ug/kg, dry wt.	12 / 12	100%	360	3400	1340	DUD006	L4378-9	0	0
Fluorene	ug/kg, dry wt.	11 / 12	92%	20	440	159	DUD006	L4378-9	32	32
Hexachlorobenzene	ug/kg, dry wt.	0 / 11	0%	0	0				1.6	2.6
Hexachlorobutadiene	ug/kg, dry wt.	0 / 12	0%	0	0				33	55
Hexachlorocyclopentadiene	ug/kg, dry wt.	0 / 12	0%	0	0				33	55
Hexachloroethane	ug/kg, dry wt.	0 / 12	0%	0	0				33	55
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	12 / 12	100%	94	720	293	DUD006	L4378-10	0	0
Isophorone	ug/kg, dry wt.	0 / 12	0%	0	0				33	55
Naphthalene	ug/kg, dry wt.	2 / 12	17%	110	180	145	DUD020	L4378-17	53	87
Nitrobenzene	ug/kg, dry wt.	0 / 12	0%	0	0				33	55
N-Nitrosodimethylamine	ug/kg, dry wt.	0 / 12	0%	0	0				140	220
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0 / 12	0%	0	0				33	55
N-Nitrosodiphenylamine	ug/kg, dry wt.	3 / 12	25%	130	190	167	DUD006	L4378-7	33	55
Pentachlorophenol	ug/kg, dry wt.	0 / 12	0%	0	0				33	55
Phenanthrene	ug/kg, dry wt.	12 / 12	100%	220	4100	1070	DUD006	L4378-9	0	0
Phenol	ug/kg, dry wt.	2 / 12	17%	390	920	655	DUD006	L4378-7	140	220
Pyrene	ug/kg, dry wt.	12 / 12	100%	330	3600	1370	DUD006	L4378-9	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	12 / 12	100%	2116	14866	7190	DUD006	L4378-9	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	12 / 12	100%	331	5607	1630	DUD006	L4378-9	0	0
Method: *PSEP, 1986*										
Clay (percent)	%, dry wt.	12 / 12	100%	0.1	38	8.39	DUD020	L4378-15	0	0
Gravel (percent)	%, dry wt.	12 / 12	100%	0.6	11	2.68	DUD006	L4378-4	0	0
Sand (percent)	%, dry wt.	12 / 12	100%	33	91	69.8	DUD006	L4378-6	0	0
Silt (percent)	%, dry wt.	12 / 12	100%	5.5	54	19.2	DUD020	L4378-16	0	0
Method: *SM 2540-B*										

Table A-23. Summary of subsurface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1 Aug 1994 (Duw/Diag-1)

Event Start Date: *8/9/94*
Event Stop Date: *8/25/94*

Parameter Name	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *SM 2540-B*										
Total solids	%, dry wt.	12 / 12	100%	49	81	70.7	DUD006	L4378-4	0	0
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	mg/kg, dry wt.	12 / 12	100%	5200	47000	19500	DUD020	L4378-14	0	0

Table A-24. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1.5 Nov 1995 (Duw/Diag-1.5)

Event Start Date: *11/7/95*
Event Stop Date: *11/11/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 376.2*											
Acid volatile sulfides	mg/kg, dry wt.	12	/ 12	100%	270	3000	1500	DUD032	L7279-2	0	0
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	12	/ 12	100%	12000	27000	21500	DUD038	L7279-6	0	0
Antimony	mg/kg, dry wt.	1	/ 12	8%	14	14	14.0	DUD027	L7279-1	4.3	6.2
Arsenic	mg/kg, dry wt.	10	/ 12	83%	8.7	23	14.6	DUD027	L7279-1	9	9.4
Barium	mg/kg, dry wt.	12	/ 12	100%	91	260	132	DUD027	L7279-1	0	0
Beryllium	mg/kg, dry wt.	12	/ 12	100%	0.25	0.59	0.473	DUD038	L7279-6	0	0
Cadmium	mg/kg, dry wt.	8	/ 12	67%	0.51	14	2.36	DUD027	L7279-1	0.56	0.62
Calcium (total)	mg/kg, dry wt.	12	/ 12	100%	5400	12000	8660	DUD027	L7279-1	0	0
Chromium	mg/kg, dry wt.	12	/ 12	100%	33	660	91.0	DUD027	L7279-1	0	0
Copper	mg/kg, dry wt.	12	/ 12	100%	61	230	110	DUD027	L7279-1	0	0
Iron	mg/kg, dry wt.	12	/ 12	100%	19000	34000	29400	DUD037	L7279-5	0	0
Lead	mg/kg, dry wt.	12	/ 12	100%	60	440	127	DUD027	L7279-1	0	0
Magnesium (total)	mg/kg, dry wt.	12	/ 12	100%	5700	9400	8090	DUD041	L7279-10	0	0
Manganese	mg/kg, dry wt.	12	/ 12	100%	200	340	298	DUD037	L7279-5	0	0
Molybdenum	mg/kg, dry wt.	1	/ 12	8%	9.1	9.1	9.10	DUD027	L7279-1	2.9	4.1
Nickel	mg/kg, dry wt.	12	/ 12	100%	21	35	27.8	DUD027	L7279-1	0	0
Potassium (total)	mg/kg, dry wt.	12	/ 12	100%	1600	3600	2780	DUD038	L7279-6	0	0
Selenium (total)	mg/kg, dry wt.	0	/ 12	0%	0	0				7.1	11
Silver	mg/kg, dry wt.	12	/ 12	100%	1	57	6.24	DUD027	L7279-1	0	0
Sodium (total)	mg/kg, dry wt.	12	/ 12	100%	5700	13000	10600	DUD037	L7279-5	0	0
Thallium (total)	mg/kg, dry wt.	0	/ 12	0%	0	0				29	42
Zinc	mg/kg, dry wt.	12	/ 12	100%	120	940	241	DUD027	L7279-1	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	12	/ 12	100%	0.2	3.6	0.584	DUD027	L7279-1	0	0
Method: *EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/ 12	0%	0	0				22	2800
Aroclor-1221	ug/kg, dry wt.	0	/ 12	0%	0	0				22	2800
Aroclor-1232	ug/kg, dry wt.	0	/ 12	0%	0	0				22	2800
Aroclor-1242	ug/kg, dry wt.	0	/ 12	0%	0	0				22	2800
Aroclor-1248	ug/kg, dry wt.	12	/ 12	100%	67	56000	4920	DUD027	L7279-1	0	0
Aroclor-1254	ug/kg, dry wt.	11	/ 12	92%	140	1100	306	DUD044	L7279-13	2800	2800
Aroclor-1260	ug/kg, dry wt.	12	/ 12	100%	120	28000	2590	DUD027	L7279-1	0	0

Table A-24. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1.5 Nov 1995 (Duw/Diag-1.5)

Event Start Date: *11/7/95*
Event Stop Date: *11/11/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary				Location of Max	Sample ID of Max.	Reporting Limit Summary	
					Min	Max	Average			Min	Max
Method: *EPA 8080*											
PCBs (total-calc'd)	ug/kg, dry wt.	12	/ 12	100%	327	84000	7790	DUD027	L7279-1	0	0
Method: *EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	2	/ 12	17%	2.8	310	156	DUD027	L7279-1	0.98	1.4
1,2-Dichlorobenzene	ug/kg, dry wt.	9	/ 12	75%	1.5	960	109	DUD027	L7279-1	1.2	1.3
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	/ 12	0%	0	0				76	360
1,3-Dichlorobenzene	ug/kg, dry wt.	1	/ 12	8%	190	190	190	DUD027	L7279-1	0.98	1.4
1,4-Dichlorobenzene	ug/kg, dry wt.	11	/ 12	92%	2.3	2200	205	DUD027	L7279-1	1.2	1.2
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/ 12	0%	0	0				160	700
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/ 12	0%	0	0				160	700
2,4-Dichlorophenol	ug/kg, dry wt.	0	/ 12	0%	0	0				39	180
2,4-Dimethylphenol	ug/kg, dry wt.	0	/ 12	0%	0	0				39	180
2,4-Dinitrophenol	ug/kg, dry wt.	0	/ 12	0%	0	0				76	360
2,4-Dinitrotoluene	ug/kg, dry wt.	0	/ 12	0%	0	0				16	70
2,6-Dinitrotoluene	ug/kg, dry wt.	0	/ 12	0%	0	0				16	70
2-Chloronaphthalene	ug/kg, dry wt.	0	/ 12	0%	0	0				23	110
2-Chlorophenol	ug/kg, dry wt.	0	/ 12	0%	0	0				76	360
2-Methylnaphthalene	ug/kg, dry wt.	1	/ 12	8%	4600	4600	4600	DUD027	L7279-1	61	88
2-Methylphenol	ug/kg, dry wt.	0	/ 12	0%	0	0				39	180
2-Nitroaniline	ug/kg, dry wt.	0	/ 12	0%	0	0				160	700
2-Nitrophenol	ug/kg, dry wt.	0	/ 12	0%	0	0				39	180
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/ 12	0%	0	0				39	180
3-Nitroaniline	ug/kg, dry wt.	0	/ 12	0%	0	0				160	700
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/ 12	0%	0	0				76	360
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/ 12	0%	0	0				16	70
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/ 12	0%	0	0				76	360
4-Chloroaniline	ug/kg, dry wt.	0	/ 12	0%	0	0				76	360
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/ 12	0%	0	0				23	110
4-Methylphenol	ug/kg, dry wt.	0	/ 12	0%	0	0				39	180
4-Nitroaniline	ug/kg, dry wt.	0	/ 12	0%	0	0				160	700
4-Nitrophenol	ug/kg, dry wt.	0	/ 12	0%	0	0				76	360
Acenaphthene	ug/kg, dry wt.	10	/ 12	83%	24	640	97.1	DUD027	L7279-1	16	20
Acenaphthylene	ug/kg, dry wt.	2	/ 12	17%	33	33	33.0	DUD037	L7279-5	23	110
Aniline	ug/kg, dry wt.	0	/ 12	0%	0	0				76	360

Table A-24. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1.5 Nov 1995 (Duw/Diag-1.5)

Event Start Date: *11/7/95*
Event Stop Date: *11/11/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary				Location of Max	Sample ID of Max.	Reporting Limit Summary	
				Min	Max	Average				Min	Max
Method: *EPA 8270*											
Anthracene	ug/kg, dry wt.	12	12	100%	60	450	172	DUD027	L7279-1	0	0
Benzidine	ug/kg, dry wt.	0	12	0%	0	0				910	4200
Benzo(a)anthracene	ug/kg, dry wt.	12	12	100%	170	770	474	DUD036	L7279-4	0	0
Benzo(a)pyrene	ug/kg, dry wt.	12	12	100%	230	870	598	DUD036	L7279-4	0	0
Benzo(b)fluoranthene	ug/kg, dry wt.	12	12	100%	280	990	658	DUD037	L7279-5	0	0
Benzo(g,h,i)perylene	ug/kg, dry wt.	12	12	100%	160	620	421	DUD036	L7279-4	0	0
Benzo(k)fluoranthene	ug/kg, dry wt.	12	12	100%	230	970	608	DUD036	L7279-4	0	0
Benzoic acid	ug/kg, dry wt.	2	12	17%	220	230	225	DUD036	L7279-4	160	700
Benzyl alcohol	ug/kg, dry wt.	0	12	0%	0	0				39	180
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	12	0%	0	0				39	180
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	12	0%	0	0				23	110
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	12	12	100%	760	8900	2040	DUD027	L7279-1	0	0
bis-chloroisopropyl ether	ug/kg, dry wt.	0	12	0%	0	0				76	360
Butyl benzyl phthalate	ug/kg, dry wt.	11	12	92%	42	140	99.4	DUD036	L7279-4	110	110
Carbazole	ug/kg, dry wt.	8	12	67%	51	96	73.4	DUD036	L7279-4	39	180
Chrysene	ug/kg, dry wt.	12	12	100%	270	1100	713	DUD036	L7279-4	0	0
Coprostanol	ug/kg, dry wt.	12	12	100%	400	70000	6540	DUD027	L7279-1	0	0
Dibenzo(a,h)anthracene	ug/kg, dry wt.	10	12	83%	64	180	132	DUD043	L7279-12	77	280
Dibenzofuran	ug/kg, dry wt.	0	12	0%	0	0				39	180
Diethyl phthalate	ug/kg, dry wt.	0	12	0%	0	0				39	180
Dimethyl phthalate	ug/kg, dry wt.	5	12	42%	20	29	23.2	DUD037	L7279-5	16	70
Di-n-butyl phthalate	ug/kg, dry wt.	2	12	17%	140	320	230	DUD040	L7279-9	39	180
Di-n-octyl phthalate	ug/kg, dry wt.	0	12	0%	0	0				23	110
Fluoranthene	ug/kg, dry wt.	12	12	100%	320	1300	788	DUD036	L7279-4	0	0
Fluorene	ug/kg, dry wt.	10	12	83%	34	930	138	DUD027	L7279-1	23	29
Hexachlorobenzene	ug/kg, dry wt.	3	12	25%	3.8	33	14.5	DUD039	L7279-8	1.2	15
Hexachlorobutadiene	ug/kg, dry wt.	0	12	0%	0	0				39	180
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	12	0%	0	0				39	180
Hexachloroethane	ug/kg, dry wt.	0	12	0%	0	0				39	180
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	12	12	100%	170	670	453	DUD036	L7279-4	0	0
Isophorone	ug/kg, dry wt.	0	12	0%	0	0				39	180
Naphthalene	ug/kg, dry wt.	1	12	8%	4100	4100	4100	DUD027	L7279-1	61	88
Nitrobenzene	ug/kg, dry wt.	0	12	0%	0	0				39	180

Table A-24. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 1.5 Nov 1995 (Duw/Diag-1.5)

Event Start Date: *11/7/95*
Event Stop Date: *11/11/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
N-Nitrosodimethylamine	ug/kg, dry wt.	0	/ 12	0%	0	0				160	700
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	/ 12	0%	0	0				39	180
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	/ 12	0%	0	0				39	180
Pentachlorophenol	ug/kg, dry wt.	0	/ 12	0%	0	0				39	180
Phenanthrene	ug/kg, dry wt.	12	/ 12	100%	140	3900	690	DUD027	L7279-1	0	0
Phenol	ug/kg, dry wt.	0	/ 12	0%	0	0				160	700
Pyrene	ug/kg, dry wt.	12	/ 12	100%	460	1600	973	DUD027	L7279-1	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	12	/ 12	100%	2354	8830	5800	DUD036	L7279-4	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	12	/ 12	100%	200	10020	1410	DUD027	L7279-1	0	0
Method: *EPA 9030B*											
Sulfides (total)	mg/kg, dry wt.	12	/ 12	100%	210	2300	843	DUD027	L7279-1	0	0
Method: *Krone et al. 1989*											
Butyltin (total)	ug/kg, dry wt.	12	/ 12	100%	69	600	182	DUD027	L7279-1	0	0
Method: *PSEP, 1986*											
Clay (percent)	%, dry wt.	12	/ 12	100%	5.6	20	13.1	DUD039	L7279-8	0	0
Gravel (percent)	%, dry wt.	12	/ 12	100%	0.2	7	2.11	DUD027	L7279-1	0	0
Sand (percent)	%, dry wt.	12	/ 12	100%	16	65	33.2	DUD044	L7279-13	0	0
Silt (percent)	%, dry wt.	12	/ 12	100%	24	67	51.9	DUD037	L7279-5	0	0
Method: *SM 2540-B*											
Total solids	%, dry wt.	12	/ 12	100%	47	70	55.3	DUD044	L7279-13	0	0
Method: *SM 5310-B*											
Total Organic Carbon (TOC)	mg/kg, dry wt.	12	/ 12	100%	7200	85000	27200	DUD027	L7279-1	0	0
Method: *SM4500-NH3*											
Ammonia	mg/kg, dry wt.	12	/ 12	100%	5.4	20	10.4	DUD037	L7279-5	0	0

Table A-25. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 2 May-Sep 1996 (Duw/Diag-2)

Event Start Date: *5/20/96*
Event Stop Date: *9/9/96*

Parameter Name	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 150.1*											
pH	pH	6	/	6	100%	7.4	7.7	7.52	DUD201	L9443-2	0	0
Method: *EPA 6010*											
Aluminum	mg/kg, dry wt.	10	/	10	100%	7000	33000	23300	DUD208	L8542-9	0	0
Antimony	mg/kg, dry wt.	2	/	10	20%	2.7	4	3.35	DUD205	L9443-6	1.8	3.7
Arsenic	mg/kg, dry wt.	9	/	10	90%	5.3	14	10.6	DUD208	L8542-9	3.1	3.1
Barium	mg/kg, dry wt.	3	/	3	100%	34	120	88.0	DUD208	L8542-9	0	0
Beryllium	mg/kg, dry wt.	10	/	10	100%	0.15	0.73	0.473	DUD203	L9443-4	0	0
Cadmium	mg/kg, dry wt.	10	/	10	100%	0.21	0.62	0.443	DUD204	L9443-5	0	0
Chromium	mg/kg, dry wt.	10	/	10	100%	16	40	32.4	DUD208	L8542-9	0	0
Copper	mg/kg, dry wt.	10	/	10	100%	15	91	62.9	DUD200	L9443-1	0	0
Iron	mg/kg, dry wt.	10	/	10	100%	12000	37000	28100	DUD208	L8542-9	0	0
Lead	mg/kg, dry wt.	10	/	10	100%	21	86	49.0	DUD202	L9443-3	0	0
Magnesium (total)	mg/kg, dry wt.	10	/	10	100%	2400	10000	7820	DUD207	L8542-8	0	0
Manganese	mg/kg, dry wt.	10	/	10	100%	150	430	329	DUD208	L8542-9	0	0
Molybdenum	mg/kg, dry wt.	1	/	10	10%	2.1	2.1	2.10	DUD202	L9443-3	1.2	2.3
Nickel	mg/kg, dry wt.	10	/	10	100%	8.4	33	25.3	DUD203	L9443-4	0	0
Potassium (total)	mg/kg, dry wt.	10	/	10	100%	570	4100	2780	DUD208	L8542-9	0	0
Selenium (total)	mg/kg, dry wt.	0	/	10	0%	0	0				3.1	5.9
Silver	mg/kg, dry wt.	3	/	10	30%	0.44	0.92	0.603	DUD209	L8542-10	0.25	0.48
Sodium (total)	mg/kg, dry wt.	3	/	3	100%	6100	13000	10400	DUD207	L8542-8	0	0
Thallium (total)	mg/kg, dry wt.	0	/	10	0%	0	0				12	23
Zinc	mg/kg, dry wt.	10	/	10	100%	40	160	116	DUD202	L9443-3	0	0
Method: *EPA 7471*											
Mercury	mg/kg, dry wt.	9	/	10	90%	0.1	0.28	0.222	DUD202	L9443-3	0.02	0.02
Method: *EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/	10	0%	0	0				16	30
Aroclor-1221	ug/kg, dry wt.	0	/	10	0%	0	0				16	30
Aroclor-1232	ug/kg, dry wt.	0	/	10	0%	0	0				16	30
Aroclor-1242	ug/kg, dry wt.	0	/	10	0%	0	0				16	30
Aroclor-1248	ug/kg, dry wt.	8	/	10	80%	43	200	128	DUD205	L9443-6	16	27
Aroclor-1254	ug/kg, dry wt.	9	/	10	90%	44	130	78.1	DUD201	L9443-2	16	16
Aroclor-1260	ug/kg, dry wt.	9	/	10	90%	40	130	85.8	DUD205	L9443-6	16	16
PCBs (total-calc'd)	ug/kg, dry wt.	9	/	10	90%	84	450	278	DUD205	L9443-6	16	16

Table A-25. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 2 May-Sep 1996 (Duw/Diag-2)

Event Start Date: *5/20/96*
Event Stop Date: *9/9/96*

ParameterName	Units	Det. Freq.		Detected Concentration Summary				Location of Max	Sample ID of Max.	Reporting Limit Summary	
					Min	Max	Average			Min	Max
Method: *EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	1	10	10%	1.6	1.6	1.60	DUD205	L9443-6	0.85	1.6
1,2-Dichlorobenzene	ug/kg, dry wt.	2	10	20%	1.3	2	1.65	DUD205	L9443-6	0.85	1.6
1,2-Diphenylhydrazine	ug/kg, dry wt.	0	10	0%	0	0				65	120
1,3-Dichlorobenzene	ug/kg, dry wt.	0	10	0%	0	0				0.85	1.6
1,4-Dichlorobenzene	ug/kg, dry wt.	7	10	70%	2.8	11	5.60	DUD202	L9443-3	0.85	1.5
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	10	0%	0	0				140	250
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	10	0%	0	0				140	250
2,4-Dichlorophenol	ug/kg, dry wt.	0	10	0%	0	0				33	62
2,4-Dimethylphenol	ug/kg, dry wt.	0	10	0%	0	0				33	62
2,4-Dinitrophenol	ug/kg, dry wt.	0	10	0%	0	0				65	120
2,4-Dinitrotoluene	ug/kg, dry wt.	0	10	0%	0	0				14	25
2,6-Dinitrotoluene	ug/kg, dry wt.	0	10	0%	0	0				14	25
2-Chloronaphthalene	ug/kg, dry wt.	0	10	0%	0	0				20	37
2-Chlorophenol	ug/kg, dry wt.	0	10	0%	0	0				65	120
2-Methylnaphthalene	ug/kg, dry wt.	0	10	0%	0	0				53	98
2-Methylphenol	ug/kg, dry wt.	0	10	0%	0	0				33	62
2-Nitroaniline	ug/kg, dry wt.	0	10	0%	0	0				140	250
2-Nitrophenol	ug/kg, dry wt.	0	10	0%	0	0				33	62
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	10	0%	0	0				33	62
3-Nitroaniline	ug/kg, dry wt.	0	10	0%	0	0				140	250
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	10	0%	0	0				65	120
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	10	0%	0	0				14	25
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	10	0%	0	0				65	120
4-Chloroaniline	ug/kg, dry wt.	0	10	0%	0	0				65	120
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	10	0%	0	0				20	37
4-Methylphenol	ug/kg, dry wt.	7	10	70%	480	4600	1300	DUD207	L8542-8	33	56
4-Nitroaniline	ug/kg, dry wt.	0	10	0%	0	0				140	250
4-Nitrophenol	ug/kg, dry wt.	0	10	0%	0	0				65	120
Acenaphthene	ug/kg, dry wt.	6	10	60%	18	30	24.0	DUD204	L9443-5	14	23
Acenaphthylene	ug/kg, dry wt.	0	10	0%	0	0				20	37
Aniline	ug/kg, dry wt.	0	10	0%	0	0				65	120
Anthracene	ug/kg, dry wt.	9	10	90%	38	150	89.2	DUD205	L9443-6	20	20
Benzidine	ug/kg, dry wt.	0	10	0%	0	0				790	1500

Table A-25. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 2 May-Sep 1996 (Duw/Diag-2)

Event Start Date: *5/20/96*
Event Stop Date: *9/9/96*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Benzo(a)anthracene	ug/kg, dry wt.	9	/ 10	90%	120	440	294	DUD205	L9443-6	20	20
Benzo(a)pyrene	ug/kg, dry wt.	9	/ 10	90%	130	560	337	DUD202	L9443-3	33	33
Benzo(b)fluoranthene	ug/kg, dry wt.	9	/ 10	90%	210	910	558	DUD202	L9443-3	53	53
Benzo(g,h,i)perylene	ug/kg, dry wt.	8	/ 10	80%	85	200	153	DUD202	L9443-3	33	57
Benzo(k)fluoranthene	ug/kg, dry wt.	9	/ 10	90%	100	460	246	DUD205	L9443-6	53	53
Benzoic acid	ug/kg, dry wt.	2	/ 10	20%	250	250	250	DUD207	L8542-8	140	250
Benzyl alcohol	ug/kg, dry wt.	0	/ 10	0%	0	0				33	62
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/ 10	0%	0	0				33	62
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/ 10	0%	0	0				20	37
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	9	/ 10	90%	550	2700	1390	DUD202	L9443-3	20	20
bis-chloroisopropyl ether	ug/kg, dry wt.	0	/ 10	0%	0	0				65	120
Butyl benzyl phthalate	ug/kg, dry wt.	9	/ 10	90%	41	300	114	DUD204	L9443-5	20	20
Carbazole	ug/kg, dry wt.	3	/ 10	30%	50	77	62.3	DUD205	L9443-6	33	62
Chrysene	ug/kg, dry wt.	9	/ 10	90%	190	700	434	DUD205	L9443-6	20	20
Coprostanol	ug/kg, dry wt.	9	/ 10	90%	330	1100	720	DUD200	L9443-1	140	140
Dibenzo(a,h)anthracene	ug/kg, dry wt.	0	/ 10	0%	0	0				53	98
Dibenzofuran	ug/kg, dry wt.	0	/ 10	0%	0	0				33	62
Diethyl phthalate	ug/kg, dry wt.	0	/ 10	0%	0	0				33	62
Dimethyl phthalate	ug/kg, dry wt.	1	/ 10	10%	32	32	32.0	DUD204	L9443-5	14	23
Di-n-butyl phthalate	ug/kg, dry wt.	3	/ 10	30%	66	270	139	DUD200	L9443-1	33	57
Di-n-octyl phthalate	ug/kg, dry wt.	1	/ 10	10%	35	35	35.0	DUD208	L8542-9	20	37
Fluoranthene	ug/kg, dry wt.	9	/ 10	90%	240	960	568	DUD205	L9443-6	20	20
Fluorene	ug/kg, dry wt.	6	/ 10	60%	31	52	39.0	DUD207	L8542-8	20	34
Hexachlorobenzene	ug/kg, dry wt.	0	/ 10	0%	0	0				0.85	1.6
Hexachlorobutadiene	ug/kg, dry wt.	0	/ 10	0%	0	0				33	62
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/ 10	0%	0	0				33	62
Hexachloroethane	ug/kg, dry wt.	0	/ 10	0%	0	0				33	62
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	9	/ 10	90%	57	230	147	DUD202	L9443-3	33	33
Isophorone	ug/kg, dry wt.	0	/ 10	0%	0	0				33	62
Naphthalene	ug/kg, dry wt.	0	/ 10	0%	0	0				53	98
Nitrobenzene	ug/kg, dry wt.	0	/ 10	0%	0	0				33	62
N-Nitrosodimethylamine	ug/kg, dry wt.	0	/ 10	0%	0	0				140	250
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0	/ 10	0%	0	0				33	62

Table A-25. Summary of surface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 2 May-Sep 1996 (Duw/Diag-2)

Event Start Date: *5/20/96*
Event Stop Date: *9/9/96*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	/	10	0%	0	0			33	62
Pentachlorophenol	ug/kg, dry wt.	0	/	10	0%	0	0			33	62
Phenanthrene	ug/kg, dry wt.	9	/	10	90%	95	410	247	DUD204	L9443-5	20	20
Phenol	ug/kg, dry wt.	0	/	10	0%	0	0				140	250
Pyrene	ug/kg, dry wt.	9	/	10	90%	250	1200	633	DUD205	L9443-6	20	20
Total HPAH (calc'd)	ug/kg, dry wt.	9	/	10	90%	1297	5530	3350	DUD205	L9443-6	53	53
Total LPAH (calc'd)	ug/kg, dry wt.	9	/	10	90%	133	585	378	DUD202	L9443-3	53	53
Method: *PSEP, 1986*											
Clay (percent)	%, dry wt.	10	/	10	100%	0.8	33	19.9	DUD203	L9443-4	0	0
Gravel (percent)	%, dry wt.	9	/	10	90%	0.2	4.5	1.52	DUD206	L9443-7	0.1	0.1
Sand (percent)	%, dry wt.	10	/	10	100%	3	89	32.2	DUD206	L9443-7	0	0
Silt (percent)	%, dry wt.	10	/	10	100%	7.1	71	46.8	DUD205	L9443-6	0	0
Method: *SM 2540-B*											
Total solids	%, dry wt.	10	/	10	100%	44	81	55.8	DUD206	L9443-7	0	0
Method: *SM 5310-B*											
Total Organic Carbon (TOC)	mg/kg, dry wt.	10	/	10	100%	2700	28000	18900	DUD205	L9443-6	0	0

Table A-26. Summary of subsurface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 2 May-Sep 1996 (Duw/Diag-2)

Event Start Date: *5/20/96*
Event Stop Date: *9/9/96*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 335.3*										
Cyanide	mg/kg, dry wt.	0 / 4	0%	0	0				0.71	0.99
Method: *EPA 6010*										
Aluminum	mg/kg, dry wt.	28 / 28	100%	8700	36000	19600	DUD261	L8542-31	0	0
Antimony	mg/kg, dry wt.	18 / 28	64%	2.3	130	11.1	DUD027	L8542-35	1.7	11
Arsenic	mg/kg, dry wt.	22 / 28	79%	4.3	30	11.8	DUD254	L9142-1	2.9	18
Barium	mg/kg, dry wt.	28 / 28	100%	16	270	87.5	DUD261	L8542-32	0	0
Beryllium	mg/kg, dry wt.	26 / 28	93%	0.16	0.7	0.418	DUD261	L8542-31	0.34	0.36
Cadmium	mg/kg, dry wt.	24 / 28	86%	0.29	10	2.63	DUD261	L8542-32	0.17	1.1
Calcium (total)	mg/kg, dry wt.	26 / 26	100%	3700	20000	7820	DUD255	L8542-21	0	0
Chromium	mg/kg, dry wt.	28 / 28	100%	15	1100	91.9	DUD027	L8542-35	0	0
Copper	mg/kg, dry wt.	28 / 28	100%	11	250	86.9	DUD261	L8542-32	0	0
Iron	mg/kg, dry wt.	28 / 28	100%	12000	36000	23600	DUD261	L8542-31	0	0
Lead	mg/kg, dry wt.	28 / 28	100%	5	12000	597	DUD027	L8542-35	0	0
Magnesium (total)	mg/kg, dry wt.	28 / 28	100%	2600	9800	6800	DUD261	L8542-31	0	0
Manganese	mg/kg, dry wt.	28 / 28	100%	94	400	248	DUD261	L8542-31	0	0
Molybdenum	mg/kg, dry wt.	20 / 28	71%	1.9	6.4	3.28	DUD254	L8542-20	1.1	7.4
Nickel	mg/kg, dry wt.	28 / 28	100%	8.3	45	26.3	DUD254	L8542-20	0	0
Potassium (total)	mg/kg, dry wt.	2 / 2	100%	1900	2300	2100	DUD027	L9142-2	0	0
Selenium (total)	mg/kg, dry wt.	0 / 28	0%	0	0				2.9	18
Silver	mg/kg, dry wt.	24 / 28	86%	0.29	16	3.75	DUD261	L8542-32	0.23	1.5
Sodium (total)	mg/kg, dry wt.	28 / 28	100%	1600	14000	7690	DUD261	L8542-32	0	0
Thallium (total)	mg/kg, dry wt.	0 / 28	0%	0	0				11	74
Zinc	mg/kg, dry wt.	28 / 28	100%	30	690	201	DUD261	L8542-32	0	0
Method: *EPA 7471*										
Mercury	mg/kg, dry wt.	27 / 28	96%	0.02	2.7	0.600	DUD254	L8542-19	0.02	0.02
Method: *EPA 8080*										
Aroclor-1016	ug/kg, dry wt.	0 / 37	0%	0	0				15	80
Aroclor-1221	ug/kg, dry wt.	0 / 37	0%	0	0				15	80
Aroclor-1232	ug/kg, dry wt.	0 / 37	0%	0	0				15	80
Aroclor-1242	ug/kg, dry wt.	0 / 37	0%	0	0				15	80
Aroclor-1248	ug/kg, dry wt.	25 / 37	68%	73	13000	2070	DUD261	L8542-32	15	29
Aroclor-1254	ug/kg, dry wt.	18 / 37	49%	20	5200	548	DUD261	L8542-32	15	25
Aroclor-1260	ug/kg, dry wt.	23 / 37	62%	43	2800	567	DUD261	L8542-32	15	21

Table A-26. Summary of subsurface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 2 May-Sep 1996 (Duw/Diag-2)

Event Start Date: *5/20/96*
Event Stop Date: *9/9/96*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*										
PCBs (total-calc'd)	ug/kg, dry wt.	25 / 37	68%	80	21000	2990	DUD261	L8542-32	15	29
Method: *EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	15 / 28	54%	1.3	63	9.84	DUD261	L8542-32	0.8	1.2
1,2-Dichlorobenzene	ug/kg, dry wt.	21 / 28	75%	0.98	160	16.7	DUD261	L8542-32	0.8	1.1
1,2-Diphenylhydrazine	ug/kg, dry wt.	0 / 28	0%	0	0				61	120
1,3-Dichlorobenzene	ug/kg, dry wt.	10 / 28	36%	1.1	18	4.82	DUD262	L8542-33	0.8	1.4
1,4-Dichlorobenzene	ug/kg, dry wt.	23 / 28	82%	0.8	660	72.4	DUD254	L8542-19	0.8	1.1
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 28	0%	0	0				130	250
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 28	0%	0	0				130	250
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 28	0%	0	0				61	120
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 28	0%	0	0				13	25
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 28	0%	0	0				13	25
2-Chloronaphthalene	ug/kg, dry wt.	0 / 28	0%	0	0				18	36
2-Chlorophenol	ug/kg, dry wt.	0 / 28	0%	0	0				61	120
2-Methylnaphthalene	ug/kg, dry wt.	3 / 28	11%	69	880	360	DUD261	L8542-32	50	85
2-Methylphenol	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
2-Nitroaniline	ug/kg, dry wt.	0 / 28	0%	0	0				130	250
2-Nitrophenol	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
3-Nitroaniline	ug/kg, dry wt.	0 / 28	0%	0	0				130	250
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0 / 28	0%	0	0				61	120
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0 / 28	0%	0	0				13	25
4-Chloro-3-methylphenol	ug/kg, dry wt.	0 / 28	0%	0	0				61	120
4-Chloroaniline	ug/kg, dry wt.	2 / 28	7%	200	1200	700	DUD261	L8542-32	61	110
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0 / 28	0%	0	0				18	36
4-Methylphenol	ug/kg, dry wt.	5 / 28	18%	62	370	142	DUD254	L8542-19	31	54
4-Nitroaniline	ug/kg, dry wt.	0 / 28	0%	0	0				130	250
4-Nitrophenol	ug/kg, dry wt.	0 / 28	0%	0	0				61	120
Acenaphthene	ug/kg, dry wt.	12 / 28	43%	19	250	71.6	DUD261	L8542-32	13	22
Acenaphthylene	ug/kg, dry wt.	2 / 28	7%	30	58	44.0	DUD261	L8542-32	18	32
Aniline	ug/kg, dry wt.	0 / 28	0%	0	0				61	120

Table A-26. Summary of subsurface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 2 May-Sep 1996 (Duw/Diag-2)

Event Start Date: *5/20/96*
Event Stop Date: *9/9/96*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
Anthracene	ug/kg, dry wt.	21 / 28	75%	29	680	165	DUD261	L8542-32	18	29
Benzidine	ug/kg, dry wt.	0 / 28	0%	0	0				740	1400
Benzo(a)anthracene	ug/kg, dry wt.	25 / 28	89%	20	1300	305	DUD254	L8542-20	18	21
Benzo(a)pyrene	ug/kg, dry wt.	22 / 28	79%	55	1100	412	DUD258	L8542-27	31	42
Benzo(b)fluoranthene	ug/kg, dry wt.	22 / 28	79%	78	1700	535	DUD254	L8542-20	50	67
Benzo(g,h,i)perylene	ug/kg, dry wt.	21 / 28	75%	43	790	255	DUD254	L8542-20	31	42
Benzo(k)fluoranthene	ug/kg, dry wt.	19 / 28	68%	76	1200	440	DUD258	L8542-27	50	67
Benzoic acid	ug/kg, dry wt.	8 / 28	29%	180	400	280	DUD258	L8542-27	130	250
Benzyl alcohol	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
bis(2-chloroethyl)ether	ug/kg, dry wt.	0 / 28	0%	0	0				18	36
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	26 / 28	93%	23	18000	2640	DUD261	L8542-32	24	25
bis-chloroisopropyl ether	ug/kg, dry wt.	0 / 28	0%	0	0				61	120
Butyl benzyl phthalate	ug/kg, dry wt.	13 / 28	46%	44	480	186	DUD254	L8542-19	18	36
Carbazole	ug/kg, dry wt.	6 / 28	21%	79	250	147	DUD254	L8542-20	31	54
Chrysene	ug/kg, dry wt.	25 / 28	89%	26	1800	444	DUD254	L8542-20	18	21
Coprostanol	ug/kg, dry wt.	9 / 28	32%	570	37000	4970	DUD261	L8542-32	130	220
Dibenzo(a,h)anthracene	ug/kg, dry wt.	6 / 28	21%	84	160	112	DUD254	L8542-20	50	96
Dibenzofuran	ug/kg, dry wt.	2 / 28	7%	110	220	165	DUD261	L8542-32	31	54
Diethyl phthalate	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
Dimethyl phthalate	ug/kg, dry wt.	5 / 28	18%	19	96	37.8	DUD254	L8542-19	13	25
Di-n-butyl phthalate	ug/kg, dry wt.	5 / 28	18%	48	240	126	DUD027	L8542-35	31	60
Di-n-octyl phthalate	ug/kg, dry wt.	0 / 28	0%	0	0				18	36
Fluoranthene	ug/kg, dry wt.	26 / 28	93%	31	2600	591	DUD254	L8542-20	18	20
Fluorene	ug/kg, dry wt.	11 / 28	39%	30	500	119	DUD261	L8542-32	18	30
Hexachlorobenzene	ug/kg, dry wt.	2 / 28	7%	2	2.1	2.05	DUD253	L8542-18	0.8	1.4
Hexachlorobutadiene	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
Hexachlorocyclopentadiene	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
Hexachloroethane	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	21 / 28	75%	43	710	245	DUD254	L8542-20	31	42
Isophorone	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
Naphthalene	ug/kg, dry wt.	2 / 28	7%	130	280	205	DUD261	L8542-32	50	85
Nitrobenzene	ug/kg, dry wt.	0 / 28	0%	0	0				31	60

Table A-26. Summary of subsurface sediment chemistry from Duwamish/Diagonal CSO/SD site assessment-Phase 2 May-Sep 1996 (Duw/Diag-2)

Event Start Date: *5/20/96*
Event Stop Date: *9/9/96*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
N-Nitrosodimethylamine	ug/kg, dry wt.	0 / 28	0%	0	0				130	250
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
N-Nitrosodiphenylamine	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
Pentachlorophenol	ug/kg, dry wt.	0 / 28	0%	0	0				31	60
Phenanthrene	ug/kg, dry wt.	22 / 28	79%	28	2200	454	DUD254	L8542-20	18	29
Phenol	ug/kg, dry wt.	0 / 28	0%	0	0				130	250
Pyrene	ug/kg, dry wt.	27 / 28	96%	30	4900	1050	DUD254	L8542-20	18	18
Total HPAH (calc'd)	ug/kg, dry wt.	27 / 28	96%	30	15800	3810	DUD254	L8542-20	50	50
Total LPAH (calc'd)	ug/kg, dry wt.	22 / 28	79%	28	3590	733	DUD254	L8542-20	50	78
Method: *EPA 8440*										
Gasoline	mg/kg, dry wt.	0 / 4	0%	0	0				28	40
Method: *NWTPH-HCID*										
TPH - Diesel #2 Range	mg/kg, dry wt.	0 / 1	0%	0	0				81	81
Method: *PSEP, 1986*										
Clay (percent)	%, dry wt.	36 / 37	97%	0.3	22	8.60	DUD255	L10112-4	0.1	0.1
Gravel (percent)	%, dry wt.	36 / 37	97%	0.1	22	2.78	DUD252	L10112-2	0.1	0.1
Sand (percent)	%, dry wt.	37 / 37	100%	14	96	50.0	DUD257	L10112-7	0	0
Silt (percent)	%, dry wt.	37 / 37	100%	1.5	77	39.1	DUD258	L8542-27	0	0
Method: *SM 2540-B*										
Total solids	%, dry wt.	37 / 37	100%	45	87	67.3	DUD252	L8542-16	0	0
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	mg/kg, dry wt.	37 / 37	100%	180	65000	18300	DUD261	L8542-32	0	0
Method: *WTPH-D*										
Heavy Oil	mg/kg, dry wt.	4 / 4	100%	240	6200	3290	DUD254	L8542-20	0	0
TPH - Diesel #2 Range	mg/kg, dry wt.	4 / 4	100%	100	2600	1380	DUD027	L8542-35	0	0

Table A-27. Summary of surface sediment chemistry from Seaboard Lumber Phase 2 Site Investigation (Seaboard-Ph2)

Event Start Date: *3/12/96*
Event Stop Date: *4/7/96*

Parameter Name	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*										
Cadmium	mg/kg, dry wt.	16 / 20	80%	0.3	1.1	0.606	SD-17	SD-17	0.4	0.5
Chromium	mg/kg, dry wt.	20 / 20	100%	25.2	44	36.6	SD-10	SD-10	0	0
Copper	mg/kg, dry wt.	20 / 20	100%	22.5	177	68.9	SD-17	SD-17	0	0
Nickel	mg/kg, dry wt.	20 / 20	100%	18	37	29.3	SD-8	SD-8	0	0
Silver	mg/kg, dry wt.	12 / 20	60%	0.6	0.9	0.758	SD-12	SD-12	0.4	0.7
Zinc	mg/kg, dry wt.	20 / 20	100%	57.6	440	146	SD-10	SD-10	0	0
Method: *EPA 7060*										
Arsenic	mg/kg, dry wt.	20 / 20	100%	4.1	29	11.7	SD-17	SD-17	0	0
Method: *EPA 7421*										
Lead	mg/kg, dry wt.	20 / 20	100%	22	182	54.9	SD-16	SD-16	0	0
Method: *EPA 7471*										
Mercury	mg/kg, dry wt.	20 / 20	100%	0.05	0.35	0.175	SD-16	SD-16	0	0
Method: *EPA 8081*										
Aroclor-1016	ug/kg, dry wt.	0 / 20	0%	0	0				0.87	3.02
Aroclor-1221	ug/kg, dry wt.	0 / 20	0%	0	0				1.89	6.07
Aroclor-1232	ug/kg, dry wt.	0 / 20	0%	0	0				0.87	3.02
Aroclor-1242	ug/kg, dry wt.	0 / 20	0%	0	0				0.87	3.02
Aroclor-1248	ug/kg, dry wt.	0 / 20	0%	0	0				0.87	3.43
Aroclor-1254	ug/kg, dry wt.	18 / 20	90%	2.17	8.71	4.37	SD-13	SD-13	1.31	7.47
Aroclor-1260	ug/kg, dry wt.	20 / 20	100%	1.24	35.88	6.36	SD-16	SD-16	0	0
PCBs (total-calc'd)	ug/kg, dry wt.	20 / 20	100%	2.62	35.88	10.3	SD-16	SD-16	0	0
Method: *EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0 / 20	0%	0	0				1.79	2.05
1,2-Dichlorobenzene	ug/kg, dry wt.	0 / 20	0%	0	0				1.79	2.05
1,3-Dichlorobenzene	ug/kg, dry wt.	0 / 20	0%	0	0				18	20
1,4-Dichlorobenzene	ug/kg, dry wt.	0 / 20	0%	0	0				1.79	2.05
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 20	0%	0	0				18	20
2-Methylnaphthalene	ug/kg, dry wt.	2 / 20	10%	2.66	2.69	2.68	SD-16	SD-16	1.8	2.05
2-Methylphenol	ug/kg, dry wt.	0 / 20	0%	0	0				18	20
4-Methylphenol	ug/kg, dry wt.	4 / 20	20%	25	36	31.0	SD-8	SD-8	18	20
Acenaphthene	ug/kg, dry wt.	5 / 20	25%	1.92	3.33	2.41	SD-4	SD-4	1.79	2.05
Acenaphthylene	ug/kg, dry wt.	2 / 20	10%	2.22	3.72	2.97	SD-17	SD-17	1.8	2.39
Anthracene	ug/kg, dry wt.	20 / 20	100%	2.01	154.28	13.5	SD-17	SD-17	0	0

Table A-27. Summary of surface sediment chemistry from Seaboard Lumber Phase 2 Site Investigation (Seaboard-Ph2)

Event Start Date: *3/12/96*
Event Stop Date: *4/7/96*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*											
Benzo(a)anthracene	ug/kg, dry wt.	20	/ 20	100%	10.56	87.78	22.9	SD-17	SD-17	0	0
Benzo(a)pyrene	ug/kg, dry wt.	20	/ 20	100%	11	82.46	25.8	SD-17	SD-17	0	0
Benzo(b)fluoranthene	ug/kg, dry wt.	20	/ 20	100%	14.32	114.38	31.9	SD-17	SD-17	0	0
Benzo(g,h,i)perylene	ug/kg, dry wt.	20	/ 20	100%	6.05	29.26	11.6	SD-17	SD-17	0	0
Benzo(k)fluoranthene	ug/kg, dry wt.	20	/ 20	100%	14.02	106.4	33.4	SD-17	SD-17	0	0
Benzofluoranthene (total)	ug/kg, dry wt.	19	/ 20	95%	29.92	220.78	65.7	SD-17	SD-17	36.96	36.96
Benzoic acid	ug/kg, dry wt.	0	/ 20	0%	0	0				180	200
Benzyl alcohol	ug/kg, dry wt.	0	/ 20	0%	0	0				18	20
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	20	/ 20	100%	5.42	31.92	19.6	SD-17	SD-17	0	0
Butyl benzyl phthalate	ug/kg, dry wt.	14	/ 20	70%	2.01	4.83	3.04	SD-6	SD-6	1.79	1.92
Chrysene	ug/kg, dry wt.	20	/ 20	100%	19.69	180.88	46.1	SD-17	SD-17	0	0
Dibenzo(a,h)anthracene	ug/kg, dry wt.	19	/ 20	95%	2.2	14.89	5.41	SD-17	SD-17	5.9	5.9
Dibenzofuran	ug/kg, dry wt.	3	/ 20	15%	2.25	5.32	3.76	SD-17	SD-17	1.7	2.05
Diethyl phthalate	ug/kg, dry wt.	0	/ 20	0%	0	0				1.79	2.05
Dimethyl phthalate	ug/kg, dry wt.	0	/ 20	0%	0	0				1.79	2.05
Di-n-butyl phthalate	ug/kg, dry wt.	1	/ 20	5%	13.1	13.1	13.1	SD-10	SD-10	1.79	2.05
Di-n-octyl phthalate	ug/kg, dry wt.	2	/ 20	10%	1.84	2.01	1.92	SD-9	SD-9	1.79	2.05
Fluoranthene	ug/kg, dry wt.	20	/ 20	100%	21.36	178.22	53.7	SD-17	SD-17	0	0
Fluorene	ug/kg, dry wt.	10	/ 20	50%	2.01	16.22	4.39	SD-17	SD-17	1.79	2.05
Hexachlorobenzene	mg/kg, dry wt.	0	/ 11	0%	0	0				17.94	20.56
Hexachlorobenzene	ug/kg, dry wt.	0	/ 9	0%	0	0				0.11	0.43
Hexachlorobutadiene	ug/kg, dry wt.	0	/ 20	0%	0	0				1.79	2.05
Hexachloroethane	ug/kg, dry wt.	0	/ 20	0%	0	0				18	20
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	20	/ 20	100%	7.7	37.24	13.6	SD-17	SD-17	0	0
Naphthalene	ug/kg, dry wt.	0	/ 20	0%	0	0				1.79	2.05
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	/ 20	0%	0	0				1.79	2.05
Pentachlorophenol	ug/kg, dry wt.	0	/ 20	0%	0	0				90	100
Phenanthrene	ug/kg, dry wt.	20	/ 20	100%	7.05	85.1	21.6	SD-4	SD-4	0	0
Phenol	ug/kg, dry wt.	14	/ 20	70%	29	300	133	SD-10	SD-10	18	590
Pyrene	ug/kg, dry wt.	20	/ 20	100%	21.48	182.39	61.6	SD-16	SD-16	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	20	/ 20	100%	136.93	975.15	306	SD-17	SD-17	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	20	/ 20	100%	9.07	235.14	38.2	SD-17	SD-17	0	0
Method: *EPA 9045C*											

Table A-27. Summary of surface sediment chemistry from Seaboard Lumber Phase 2 Site Investigation (Seaboard-Ph2)

Event Start Date: *3/12/96*
Event Stop Date: *4/7/96*

Parameter Name	Units	Detected Concentration Summary							Reporting Limit Summary	
		Det. Freq.		Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 9045C*										
pH	pH	20 / 20	100%	4.6	8.2	7.22	SD-18	SD-18	0	0
Method: *PSEP, 1986*										
Fractional % phi 0-1 (500-1000µm)	%, dry wt.	20 / 20	100%	0	10	3.10	SD-20	SD-20	0	0
Fractional % phi -1-0 (1000-2000µm)	%, dry wt.	20 / 20	100%	0	12	2.20	SD-18	SD-18	0	0
Fractional % phi 10+ (<0.98µm)	%, dry wt.	20 / 20	100%	0	17	9.25	SD-2	SD-2	0	0
Fractional % phi 1-2 (250-500µm)	%, dry wt.	20 / 20	100%	0	35	6.05	SD-20	SD-20	0	0
Fractional % phi 2-3 (125-250µm)	%, dry wt.	20 / 20	100%	0	34	6.20	SD-20	SD-20	0	0
Fractional % phi 3-4 (62.5-125µm)	%, dry wt.	20 / 20	100%	0	26	4.70	SD-15	SD-15	0	0
Fractional % phi 4-5 (31.2-62.5µm)	%, dry wt.	20 / 20	100%	1	17	4.35	SD-15	SD-15	0	0
Fractional % phi 5-6 (15.6-31.2µm)	%, dry wt.	20 / 20	100%	1	20	10.2	SD-12	SD-12	0	0
Fractional % phi 6-7 (7.8-15.6µm)	%, dry wt.	20 / 20	100%	0	21	13.1	SD-11	SD-11	0	0
Fractional % phi 7-8 (3.9-7.8µm)	%, dry wt.	20 / 20	100%	1	21	12.3	SD-9	SD-9	0	0
Fractional % phi 8-9 (1.95-3.9µm)	%, dry wt.	20 / 20	100%	0	26	12.0	SD-2	SD-2	0	0
Fractional % phi 9-10 (0.98-1.95µm)	%, dry wt.	20 / 20	100%	1	12	6.95	SD-2	SD-2	0	0
Fractional % Sieve #10 (2000-4750µm)	%, dry wt.	20 / 20	100%	0	17	3.20	SD-19	SD-19	0	0
Fractional % Sieve #4 (>4750µm)	%, dry wt.	20 / 20	100%	0	24	3.90	SD-16	SD-16	0	0
Total Organic Carbon (TOC)	%, dry wt.	20 / 20	100%	1.13	3.4	2.22	SD-1	SD-1	0	0

Table A-28. Summary of surface sediment chemistry from Rhone-Poulenc RFI - Marginal Way Facility - Round 1 March 1994 (Rhone-Poulenc RFI-1)

Event Start Date: *3/3/94*
Event Stop Date: *3/3/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3050B/EPA 6010*										
Aluminum	mg/kg, dry wt.	1 / 1	100%	11000	11000	11000	A11-03	RPL-A11-03-01	0	0
Barium	mg/kg, dry wt.	1 / 1	100%	30	30	30.0	A11-03	RPL-A11-03-01	0	0
Beryllium	mg/kg, dry wt.	1 / 1	100%	0.58	0.58	0.580	A11-03	RPL-A11-08-01	0	0
Cadmium	mg/kg, dry wt.	0 / 7	0%	0	0				0.88	1.6
Calcium (total)	mg/kg, dry wt.	1 / 1	100%	3700	3700	3700	A11-03	RPL-A11-03-01	0	0
Chromium	mg/kg, dry wt.	7 / 7	100%	12.5	25	18.4	A11-06	RPL-A11-06-01	0	0
Cobalt	mg/kg, dry wt.	1 / 1	100%	8.7	8.7	8.70	A11-03	RPL-A11-03-01	0	0
Copper	mg/kg, dry wt.	7 / 7	100%	13.2	57.4	30.8	A11-07	RPL-A11-07-01	0	0
Iron	mg/kg, dry wt.	1 / 1	100%	16000	16000	16000	A11-03	RPL-A11-03-01	0	0
Lead	mg/kg, dry wt.	7 / 7	100%	5.2	30	16.5	A11-03	RPL-A11-03-01	0	0
Magnesium (total)	mg/kg, dry wt.	1 / 1	100%	3800	3800	3800	A11-03	RPL-A11-03-01	0	0
Manganese	mg/kg, dry wt.	1 / 1	100%	190	190	190	A11-03	RPL-A11-03-01	0	0
Nickel	mg/kg, dry wt.	1 / 1	100%	15	15	15.0	A11-03	RPL-A11-03-01	0	0
Potassium (total)	mg/kg, dry wt.	1 / 1	100%	1170	1170	1170	A11-03	RPL-A11-03-01	0	0
Silver	mg/kg, dry wt.	0 / 7	0%	0	0				1.8	3.3
Sodium (total)	mg/kg, dry wt.	1 / 1	100%	1900	1900	1900	A11-03	RPL-A11-03-01	0	0
Vanadium	mg/kg, dry wt.	1 / 1	100%	48	48	48.0	A11-03	RPL-A11-03-01	0	0
Zinc	mg/kg, dry wt.	7 / 7	100%	32.4	92.5	67.8	A11-06	RPL-A11-06-01	0	0
Method: *EPA 3050B/EPA 7060*										
Arsenic	mg/kg, dry wt.	7 / 7	100%	2.8	9.9	6.04	A11-06	RPL-A11-06-01	0	0
Method: *EPA 3550B/EPA 8080*										
Aroclor-1254	ug/kg, dry wt.	1 / 1	100%	200	200	200	A11-03	RPL-A11-08-01	0	0
PCBs (total-calc'd)	ug/kg, dry wt.	1 / 1	100%	200	200	200	A11-03	RPL-A11-08-01	0	0
Method: *EPA 3550B/EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0 / 7	0%	0	0				43	73
1,2-Dichlorobenzene	ug/kg, dry wt.	0 / 7	0%	0	0				43	73
1,4-Dichlorobenzene	ug/kg, dry wt.	0 / 7	0%	0	0				43	73
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 7	0%	0	0				43	520
2-Methylnaphthalene	ug/kg, dry wt.	0 / 7	0%	0	0				43	73
2-Methylphenol	ug/kg, dry wt.	0 / 7	0%	0	0				43	520
4-Methylphenol	ug/kg, dry wt.	0 / 7	0%	0	0				43	520
Acenaphthene	ug/kg, dry wt.	0 / 7	0%	0	0				43	73
Acenaphthylene	ug/kg, dry wt.	0 / 7	0%	0	0				43	73

Table A-28. Summary of surface sediment chemistry from Rhone-Poulenc RFI - Marginal Way Facility - Round 1 March 1994 (Rhone-Poulenc RFI-1)

Event Start Date: *3/3/94*
Event Stop Date: *3/3/94*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8270*											
Anthracene	ug/kg, dry wt.	0	/	7	0%	0	0			43	73
Benzo(a)anthracene	ug/kg, dry wt.	5	/	7	71%	110	220	160	A11-05	RPL-A11-05-01	43	43
Benzo(a)pyrene	ug/kg, dry wt.	5	/	7	71%	75	170	133	A11-06	RPL-A11-06-01	43	43
Benzo(b)fluoranthene	ug/kg, dry wt.	1	/	1	100%	230	230	230	A11-03	RPL-A11-08-01	0	0
Benzo(g,h,i)perylene	ug/kg, dry wt.	5	/	7	71%	45	91	68.8	A11-06	RPL-A11-06-01	43	56
Benzo(k)fluoranthene	ug/kg, dry wt.	1	/	1	100%	210	210	210	A11-03	RPL-A11-08-01	0	0
Benzyl alcohol	ug/kg, dry wt.	0	/	7	0%	0	0				43	520
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	7	/	7	100%	45	300	157	A11-06	RPL-A11-06-01	0	0
Butyl benzyl phthalate	ug/kg, dry wt.	0	/	7	0%	0	0				43	520
Chrysene	ug/kg, dry wt.	5	/	7	71%	160	410	282	A11-05	RPL-A11-05-01	43	43
Dibenzo(a,h)anthracene	ug/kg, dry wt.	0	/	7	0%	0	0				43	73
Dibenzofuran	ug/kg, dry wt.	0	/	7	0%	0	0				43	520
Diethyl phthalate	ug/kg, dry wt.	0	/	7	0%	0	0				43	520
Dimethyl phthalate	ug/kg, dry wt.	0	/	7	0%	0	0				43	520
Di-n-butyl phthalate	ug/kg, dry wt.	0	/	7	0%	0	0				43	520
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	7	0%	0	0				43	520
Fluoranthene	ug/kg, dry wt.	7	/	7	100%	55	1200	455	A11-04	RPL-A11-04-01	0	0
Fluorene	ug/kg, dry wt.	0	/	7	0%	0	0				43	73
Hexachlorobenzene	ug/kg, dry wt.	0	/	7	0%	0	0				43	520
Hexachlorobutadiene	ug/kg, dry wt.	0	/	7	0%	0	0				43	73
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	5	/	7	71%	39	120	83.2	A11-06	RPL-A11-06-01	43	43
Naphthalene	ug/kg, dry wt.	0	/	7	0%	0	0				43	73
N-Nitrosodiphenylamine	ug/kg, dry wt.	0	/	7	0%	0	0				43	73
Pentachlorophenol	ug/kg, dry wt.	0	/	7	0%	0	0				2200	3800
Phenanthrene	ug/kg, dry wt.	5	/	7	71%	65	470	171	A11-04	RPL-A11-04-01	43	43
Phenol	ug/kg, dry wt.	0	/	7	0%	0	0				43	73
Pyrene	ug/kg, dry wt.	7	/	7	100%	55	890	367	A11-04	RPL-A11-04-01	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	8	/	8	100%	113	2792	1520	A11-04	RPL-A11-04-01	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	5	/	8	63%	82	470	184	A11-04	RPL-A11-04-01	43	83
Method: *EPA 8080*											
4,4'-DDD	ug/kg, dry wt.	1	/	1	100%	18	18	18.0	A11-03	RPL-A11-03-01	0	0
4,4'-DDE	ug/kg, dry wt.	1	/	1	100%	7.6	7.6	7.60	A11-03	RPL-A11-03-01	0	0
4,4'-DDT	ug/kg, dry wt.	1	/	1	100%	13	13	13.0	A11-03	RPL-A11-03-01	0	0

Table A-28. Summary of surface sediment chemistry from Rhone-Poulenc RFI - Marginal Way Facility - Round 1 March 1994 (Rhone-Poulenc RFI-1)

Event Start Date: *3/3/94*
Event Stop Date: *3/3/94*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*											
alpha-Endosulfan	ug/kg, dry wt.	1	/	1	100%	2	2	2.00	A11-03	RPL-A11-08-01	0	0
beta-Endosulfan	ug/kg, dry wt.	1	/	1	100%	2.9	2.9	2.90	A11-03	RPL-A11-03-01	0	0
delta-BHC	ug/kg, dry wt.	1	/	1	100%	6.7	6.7	6.70	A11-03	RPL-A11-08-01	0	0
Endosulfan sulfate	ug/kg, dry wt.	1	/	1	100%	6.1	6.1	6.10	A11-03	RPL-A11-03-01	0	0
Endrin aldehyde	ug/kg, dry wt.	1	/	1	100%	4.6	4.6	4.60	A11-03	RPL-A11-03-01	0	0
Endrin ketone	ug/kg, dry wt.	1	/	1	100%	2.8	2.8	2.80	A11-03	RPL-A11-03-01	0	0
gamma-Chlordane	ug/kg, dry wt.	1	/	1	100%	3.4	3.4	3.40	A11-03	RPL-A11-03-01	0	0
Method: *EPA CLP SOW 1.8/EPA 7471*											
Mercury	mg/kg, dry wt.	1	/	7	14%	0.09	0.09	0.0900	A11-03	RPL-A11-03-01	0.11	0.22
Method: *Plumb, 1981*											
Total Organic Carbon (TOC)	%, dry wt.	7	/	7	100%	1.78	2.61	2.11	A11-04	RPL-A11-04-01	0	0

Table A-29. Summary of surface sediment chemistry from Rhone-Poulenc RFI - Marginal Way Facility - Round 2 August 1994 (Rhone-Poulenc RFI-2)

Event Start Date: *8/18/94*
Event Stop Date: *8/18/94*

Parameter Name	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 150.1*											
pH	pH	1	/	1	100%	7.5	7.5	7.50	A11-05	RPL-A11-05-02	0	0
Method: *EPA 3050B/EPA 6010*											
Cadmium	mg/kg, dry wt.	1	/	1	100%	0.4	0.4	0.400	A11-05	RPL-A11-05-02	0	0
Chromium	mg/kg, dry wt.	1	/	1	100%	23.1	23.1	23.1	A11-05	RPL-A11-05-02	0	0
Copper	mg/kg, dry wt.	1	/	1	100%	32	32	32.0	A11-05	RPL-A11-05-02	0	0
Lead	mg/kg, dry wt.	1	/	1	100%	26	26	26.0	A11-05	RPL-A11-05-02	0	0
Silver	mg/kg, dry wt.	1	/	1	100%	0.19	0.19	0.190	A11-05	RPL-A11-05-02	0	0
Zinc	mg/kg, dry wt.	1	/	1	100%	82	82	82.0	A11-05	RPL-A11-05-02	0	0
Method: *EPA 3050B/EPA 7060*											
Arsenic	mg/kg, dry wt.	1	/	1	100%	6.5	6.5	6.50	A11-05	RPL-A11-05-02	0	0
Method: *EPA 3550B/EPA 8080*											
Aroclor-1254	ug/kg, dry wt.	1	/	1	100%	62	62	62.0	A11-05	RPL-A11-05-02	0	0
Aroclor-1260	ug/kg, dry wt.	1	/	1	100%	47	47	47.0	A11-05	RPL-A11-05-02	0	0
Method: *EPA 3550B/EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0	/	7	0%	0	0				13	20
1,2-Dichlorobenzene	ug/kg, dry wt.	0	/	7	0%	0	0				13	20
1,4-Dichlorobenzene	ug/kg, dry wt.	0	/	7	0%	0	0				13	20
2,4-Dimethylphenol	ug/kg, dry wt.	0	/	7	0%	0	0				13	20
2-Methylnaphthalene	ug/kg, dry wt.	1	/	7	14%	17	17	17.0	A11-04	RPL-A11-04-02	13	20
2-Methylphenol	ug/kg, dry wt.	0	/	7	0%	0	0				13	20
4-Methylphenol	ug/kg, dry wt.	4	/	7	57%	16	22	18.5	A11-07	RPL-A11-07-02	13	20
Acenaphthene	ug/kg, dry wt.	0	/	7	0%	0	0				13	20
Acenaphthylene	ug/kg, dry wt.	0	/	7	0%	0	0				13	20
Anthracene	ug/kg, dry wt.	4	/	7	57%	9	26	19.5	A11-02	RPL-A11-02-02	13	17
Benzo(a)anthracene	ug/kg, dry wt.	6	/	7	86%	13	150	74.7	A11-06	RPL-A11-06-02	13	13
Benzo(a)pyrene	ug/kg, dry wt.	6	/	7	86%	18	110	71.5	A11-06	RPL-A11-06-02	13	13
Benzo(b)fluoranthene	ug/kg, dry wt.	1	/	1	100%	180	180	180	A11-05	RPL-A11-10-02	0	0
Benzo(g,h,i)perylene	ug/kg, dry wt.	5	/	7	71%	16	40	29.0	A11-07	RPL-A11-07-02	13	17
Benzo(k)fluoranthene	ug/kg, dry wt.	1	/	1	100%	160	160	160	A11-05	RPL-A11-10-02	0	0
Benzoic acid	ug/kg, dry wt.	0	/	7	0%	0	0				13	170
Benzyl alcohol	ug/kg, dry wt.	0	/	7	0%	0	0				13	20
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	7	/	7	100%	29	710	197	A11-04	RPL-A11-04-02	0	0
Butyl benzyl phthalate	ug/kg, dry wt.	2	/	7	29%	19	23	21.0	A11-06	RPL-A11-06-02	13	17

Table A-29. Summary of surface sediment chemistry from Rhone-Poulenc RFI - Marginal Way Facility - Round 2 August 1994 (Rhone-Poulenc RFI-2)

Event Start Date: *8/18/94*
Event Stop Date: *8/18/94*

ParameterName	Units	Det. Freq.		Detected Concentration Summary				Location of Max	Sample ID of Max.	Reporting Limit Summary	
					Min	Max	Average			Min	Max
Method: *EPA 3550B/EPA 8270*											
Chrysene	ug/kg, dry wt.	7 / 7	100%	16	220	84.7		A11-07	RPL-A11-07-02	0	0
Dibenzo(a,h)anthracene	ug/kg, dry wt.	4 / 7	57%	9	26	20.0		A11-06	RPL-A11-06-02	13	17
Dibenzofuran	ug/kg, dry wt.	0 / 7	0%	0	0					13	20
Diethyl phthalate	ug/kg, dry wt.	0 / 7	0%	0	0					13	20
Dimethyl phthalate	ug/kg, dry wt.	1 / 7	14%	19	19	19.0		A11-07	RPL-A11-07-02	13	20
Di-n-butyl phthalate	ug/kg, dry wt.	1 / 7	14%	13	13	13.0		A11-02	RPL-A11-02-02	13	20
Di-n-octyl phthalate	ug/kg, dry wt.	2 / 7	29%	22	140	81.0		A11-07	RPL-A11-07-02	13	20
Fluoranthene	ug/kg, dry wt.	7 / 7	100%	36	370	178		A11-07	RPL-A11-07-02	0	0
Fluorene	ug/kg, dry wt.	1 / 7	14%	15	15	15.0		A11-02	RPL-A11-02-02	13	20
Hexachlorobenzene	ug/kg, dry wt.	0 / 7	0%	0	0					13	20
Hexachlorobutadiene	ug/kg, dry wt.	0 / 7	0%	0	0					13	20
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	5 / 7	71%	21	56	40.0		A11-06	RPL-A11-06-02	13	17
Naphthalene	ug/kg, dry wt.	0 / 7	0%	0	0					13	20
N-Nitrosodiphenylamine	ug/kg, dry wt.	0 / 7	0%	0	0					13	20
Pentachlorophenol	ug/kg, dry wt.	0 / 7	0%	0	0					66	98
Phenanthrene	ug/kg, dry wt.	7 / 7	100%	18	100	59.1		A11-06	RPL-A11-06-02	0	0
Phenol	ug/kg, dry wt.	3 / 7	43%	57	130	87.0		A11-06	RPL-A11-06-02	13	17
Pyrene	ug/kg, dry wt.	7 / 7	100%	19	310	152		A11-06	RPL-A11-06-02	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	8 / 8	100%	29	1497	669		A11-05	RPL-A11-10-02	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	7 / 8	88%	18	467	139		A11-03	RPL-A11-03-02	56	56
Method: *EPA 376.2*											
Sulfides (total)	mg/kg, dry wt.	1 / 1	100%	45	45	45.0		A11-05	RPL-A11-05-02	0	0
Method: *EPA 8080*											
4,4'-DDD	ug/kg, dry wt.	1 / 1	100%	53	53	53.0		A11-05	RPL-A11-05-02	0	0
4,4'-DDE	ug/kg, dry wt.	1 / 1	100%	11	11	11.0		A11-05	RPL-A11-05-02	0	0
4,4'-DDT	ug/kg, dry wt.	1 / 1	100%	78	78	78.0		A11-05	RPL-A11-05-02	0	0
Method: *EPA CLP SOW 1.8/EPA 7471*											
Mercury	mg/kg, dry wt.	1 / 1	100%	0.08	0.08	0.0800		A11-05	RPL-A11-05-02	0	0
Method: *Plumb, 1981*											
Total Organic Carbon (TOC)	%, dry wt.	7 / 7	100%	1.7	2.61	2.10		A11-04	RPL-A11-04-02	0	0
Method: *PSEP, 1986*											
Balance-Fractional %	%, dry wt.	7 / 7	100%	0	3	1.86		A11-05	RPL-A11-05-02	0	0
Fractional % phi 0-1 (500-1000µm)	%, dry wt.	7 / 7	100%	1	23	9.57		A11-01	RPL-A11-01-02	0	0

Table A-29. Summary of surface sediment chemistry from Rhone-Poulenc RFI - Marginal Way Facility - Round 2 August 1994 (Rhone-Poulenc RFI-2)

Event Start Date: *8/18/94*
Event Stop Date: *8/18/94*

Parameter Name	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *PSEP, 1986*											
Fractional % phi -1-0 (1000-2000µm)	%, dry wt.	7	/	7	100%	0	3	1.29	A11-01	RPL-A11-01-02	0	0
Fractional % phi 10+ (<0.98µm)	%, dry wt.	7	/	7	100%	0	4	1.71	A11-04	RPL-A11-04-02	0	0
Fractional % phi 1-2 (250-500µm)	%, dry wt.	7	/	7	100%	1	54	22.7	A11-01	RPL-A11-01-02	0	0
Fractional % phi 2-3 (125-250µm)	%, dry wt.	7	/	7	100%	3	20	11.3	A11-07	RPL-A11-07-02	0	0
Fractional % phi 3-4 (62.5-125µm)	%, dry wt.	7	/	7	100%	3	31	12.7	A11-05	RPL-A11-05-02	0	0
Fractional % phi 4-5 (31.2-62.5µm)	%, dry wt.	7	/	7	100%	2	30	13.0	A11-06	RPL-A11-06-02	0	0
Fractional % phi 5-6 (15.6-31.2µm)	%, dry wt.	7	/	7	100%	0	26	11.1	A11-04	RPL-A11-04-02	0	0
Fractional % phi 6-7 (7.8-15.6µm)	%, dry wt.	7	/	7	100%	1	16	7.71	A11-04	RPL-A11-04-02	0	0
Fractional % phi 7-8 (3.9-7.8µm)	%, dry wt.	7	/	7	100%	0	7	3.86	A11-04	RPL-A11-04-02	0	0
Fractional % phi 8-9 (1.95-3.9µm)	%, dry wt.	7	/	7	100%	1	3	2.14	A11-04	RPL-A11-04-02	0	0
Fractional % phi 9-10 (0.98-1.95µm)	%, dry wt.	7	/	7	100%	0	2	1.14	A11-05	RPL-A11-05-02	0	0
Fractional % Sieve #10 (2000-4750µm)	%, dry wt.	7	/	7	100%	0	1	0.143	A11-01	RPL-A11-01-02	0	0
Fractional % Sieve #4 (>4750µm)	%, dry wt.	7	/	7	100%	0	1	0.143	A11-02	RPL-A11-02-02	0	0
Method: *SM4500-NH3*											
Ammonia	mg-N/kg	1	/	1	100%	4.6	4.6	4.60	A11-05	RPL-A11-05-02	0	0

Table A-30. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

Parameter Name	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 150.1*										
pH	pH	61 / 61	100%	6.6	8.7	7.55	SD-04907	SD-04907-0000	0	0
Method: *EPA 3050B/EPA 6010*										
Aluminum	mg/kg, dry wt.	58 / 58	100%	9800	110000	20200	SS-SWY02	SS-SWY02-0000	0	0
Antimony	mg/kg, dry wt.	16 / 20	80%	6	110	25.4	SD-SWY05	SD-SWY05-0000	8	31
Barium	mg/kg, dry wt.	58 / 58	100%	22	3500	209	SS-SWY01	SS-SWY01-0000	0	0
Beryllium	mg/kg, dry wt.	49 / 58	84%	0.1	0.6	0.245	SD-SWY05	SD-SWY05-0000	0.1	0.7
Beryllium (total)	mg/kg, dry wt.	1 / 1	100%	0.3	0.3	0.300	SD-01001	SD-01001-0000	0	0
Cadmium	mg/kg, dry wt.	55 / 58	95%	0.2	120	8.28	SS-SWY01	SS-SWY01-0000	0.2	0.2
Calcium (total)	mg/kg, dry wt.	58 / 58	100%	4100	12000	5910	SS-SWY03	SS-SWY03-0000	0	0
Chromium	mg/kg, dry wt.	58 / 58	100%	19	1100	124	SS-SWY06	SS-SWY06	0	0
Cobalt	mg/kg, dry wt.	58 / 58	100%	5.3	140	14.6	SD-04115	SD-04115-0000	0	0
Copper	mg/kg, dry wt.	58 / 58	100%	14	12000	644	SS-SWY01	SS-SWY01-0000	0	0
Iron	mg/kg, dry wt.	58 / 58	100%	14000	160000	32600	SS-SWY06	SS-SWY06	0	0
Lead	mg/kg, dry wt.	58 / 58	100%	8	23000	826	SS-SWY02	SS-SWY02-0000	0	0
Magnesium (total)	mg/kg, dry wt.	58 / 58	100%	3200	17000	5900	SD-04913	SD-04913-0000	0	0
Manganese	mg/kg, dry wt.	58 / 58	100%	150	3300	514	SS-SWY02	SS-SWY02-0000	0	0
Nickel	mg/kg, dry wt.	58 / 58	100%	12	910	82.3	SS-SWY06	SS-SWY06	0	0
Potassium (total)	mg/kg, dry wt.	58 / 58	100%	620	2800	1350	SD-04122	SD-04122-0000	0	0
Selenium (total)	mg/kg, dry wt.	8 / 58	14%	8	20	10.9	SS-SWY06	SS-SWY06	5	34
Silver	mg/kg, dry wt.	45 / 58	78%	0.3	270	10.3	SS-SWY02	SS-SWY02-0000	0.3	0.6
Sodium (total)	mg/kg, dry wt.	58 / 58	100%	580	8900	3830	SD-SWY12	SD-SWY12-0000	0	0
Vanadium	mg/kg, dry wt.	58 / 58	100%	38	150	58.2	SD-04115	SD-04115-0000	0	0
Zinc	mg/kg, dry wt.	58 / 58	100%	54	9700	745	SS-SWY01	SS-SWY01-0000	0	0
Method: *EPA 3050B/EPA 7060*										
Arsenic	mg/kg, dry wt.	29 / 58	50%	7	57	17.7	SS-SWY02	SS-SWY02-0000	5	31
Arsenic (total)	mg/kg, dry wt.	0 / 1	0%	0	0				9	9
Method: *EPA 3050B/EPA 7841*										
Thallium (total)	mg/kg, dry wt.	19 / 58	33%	7	30	14.6	SS-SWY06	SS-SWY06	5	34
Method: *EPA 3550B/EPA 8080*										
Aroclor-1016	ug/kg, dry wt.	0 / 67	0%	0	0				37	1100
Aroclor-1242	ug/kg, dry wt.	0 / 67	0%	0	0				37	1100
Aroclor-1248	ug/kg, dry wt.	14 / 67	21%	63	3400	833	SD-04901	SD-04901-0000	38	2300
Aroclor-1254	ug/kg, dry wt.	27 / 67	40%	63	13000	2430	SD-04116	SD-04116-0000	38	4300

Table A-30. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8080*										
Aroclor-1260	ug/kg, dry wt.	65 / 67		97%	68	26000	2930	SD-04905	SD-04905-0000	890	940
Aroclor-1262	ug/kg, dry wt.	1 / 1		100%	840	840	840	SD-SWY12	SD-SWY12-0000	0	0
PCBs (total-calc'd)	ug/kg, dry wt.	67 / 67		100%	130	26000	4000	SD-04905	SD-04905-0000	0	0
Method: *EPA 3550B/EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0 / 52		0%	0	0				75	140
1,2-Dichlorobenzene	ug/kg, dry wt.	0 / 52		0%	0	0				75	140
1,3-Dichlorobenzene	ug/kg, dry wt.	0 / 52		0%	0	0				75	140
1,4-Dichlorobenzene	ug/kg, dry wt.	0 / 52		0%	0	0				75	140
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 52		0%	0	0				370	690
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 52		0%	0	0				370	690
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 52		0%	0	0				220	410
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 52		0%	0	0				220	410
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 52		0%	0	0				750	1400
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 52		0%	0	0				370	690
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 52		0%	0	0				370	690
2-Chloronaphthalene	ug/kg, dry wt.	0 / 52		0%	0	0				75	140
2-Chlorophenol	ug/kg, dry wt.	0 / 52		0%	0	0				75	140
2-Methylnaphthalene	ug/kg, dry wt.	1 / 52		2%	220	220	220	SD-04104	SD-04104-0000	75	140
2-Methylphenol	ug/kg, dry wt.	0 / 52		0%	0	0				150	270
2-Nitroaniline	ug/kg, dry wt.	0 / 52		0%	0	0				370	690
2-Nitrophenol	ug/kg, dry wt.	0 / 52		0%	0	0				370	690
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0 / 52		0%	0	0				370	690
3-Nitroaniline	ug/kg, dry wt.	0 / 52		0%	0	0				450	820
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0 / 52		0%	0	0				750	1400
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0 / 52		0%	0	0				75	140
4-Chloro-3-methylphenol	ug/kg, dry wt.	0 / 52		0%	0	0				150	270
4-Chloroaniline	ug/kg, dry wt.	0 / 52		0%	0	0				220	410
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0 / 52		0%	0	0				75	140
4-Methylphenol	ug/kg, dry wt.	0 / 52		0%	0	0				75	140
4-Nitroaniline	ug/kg, dry wt.	0 / 52		0%	0	0				370	690
4-Nitrophenol	ug/kg, dry wt.	0 / 52		0%	0	0				370	690
Acenaphthene	ug/kg, dry wt.	9 / 52		17%	96	760	278	SD-04112	SD-04112-0000	75	140
Acenaphthylene	ug/kg, dry wt.	0 / 52		0%	0	0				75	140

Table A-30. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8270*										
Anthracene	ug/kg, dry wt.	17 / 52	33%	87	860	285	SD-04112	SD-04112-0000	75	130
Benzo(a)anthracene	ug/kg, dry wt.	38 / 52	73%	110	2200	471	SD-04109	SD-04109-0000	75	110
Benzo(a)pyrene	ug/kg, dry wt.	40 / 52	77%	80	1600	441	SD-04109	SD-04109-0000	75	110
Benzo(b)fluoranthene	ug/kg, dry wt.	42 / 52	81%	89	2800	655	SD-04109	SD-04109-0000	75	110
Benzo(g,h,i)perylene	ug/kg, dry wt.	34 / 52	65%	85	700	267	SD-04407	SD-04407-0000	75	110
Benzo(k)fluoranthene	ug/kg, dry wt.	37 / 52	71%	100	2000	556	SD-04109	SD-04109-0000	75	110
Benzofluoranthene (total)	ug/kg, dry wt.	52 / 52	100%	75	4800	940	SD-04109	SD-04109-0000	0	0
Benzoic acid	ug/kg, dry wt.	0 / 52	0%	0	0				750	1400
Benzyl alcohol	ug/kg, dry wt.	0 / 52	0%	0	0				370	690
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0 / 52	0%	0	0				75	140
bis(2-chloroethyl)ether	ug/kg, dry wt.	0 / 52	0%	0	0				150	270
bis(2-chloroisopropyl)ether	ug/kg, dry wt.	0 / 52	0%	0	0				75	140
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	38 / 52	73%	100	8600	1120	SD-04408	SD-04408-0000	75	380
Butyl benzyl phthalate	ug/kg, dry wt.	10 / 52	19%	83	7100	1390	SD-04116	SD-04116-0000	75	130
Carbazole	ug/kg, dry wt.	5 / 52	10%	110	340	224	SD-SWY06	SD-SWY06-0000	75	140
Chrysene	ug/kg, dry wt.	45 / 52	87%	81	2800	636	SD-04109	SD-04109-0000	75	110
Dibenzo(a,h)anthracene	ug/kg, dry wt.	8 / 52	15%	92	330	223	SD-04109	SD-04109-0000	75	260
Dibenzofuran	ug/kg, dry wt.	5 / 52	10%	90	360	164	SD-04104	SD-04104-0000	75	140
Diethyl phthalate	ug/kg, dry wt.	0 / 1	0%	0	0				110	110
Diethyl phthalate	ug/kg, dry wt.	1 / 52	2%	130	130	130	SD-SWY09	SD-SWY09-0000	75	140
Dimethyl phthalate	ug/kg, dry wt.	0 / 52	0%	0	0				75	140
Di-n-butyl phthalate	ug/kg, dry wt.	22 / 52	42%	83	3800	710	SD-04115	SD-04115-0000	75	130
Di-n-octyl phthalate	ug/kg, dry wt.	3 / 52	6%	87	290	192	SD-04102	SD-04102-0000	75	140
Fluoranthene	ug/kg, dry wt.	48 / 52	92%	85	5300	866	SD-04112	SD-04112-0000	75	78
Fluorene	ug/kg, dry wt.	7 / 52	13%	96	500	234	SD-04104	SD-04104-0000	75	140
Hexachlorobenzene	ug/kg, dry wt.	0 / 52	0%	0	0				75	140
Hexachlorobutadiene	ug/kg, dry wt.	0 / 52	0%	0	0				150	270
Hexachlorocyclopentadiene	ug/kg, dry wt.	0 / 52	0%	0	0				370	690
Hexachloroethane	ug/kg, dry wt.	0 / 52	0%	0	0				150	270
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	32 / 52	62%	84	830	284	SD-04109	SD-04109-0000	75	110
Isophorone	ug/kg, dry wt.	0 / 52	0%	0	0				75	140
Naphthalene	ug/kg, dry wt.	5 / 52	10%	130	380	196	SD-04104	SD-04104-0000	75	140
Nitrobenzene	ug/kg, dry wt.	0 / 52	0%	0	0				75	140

Table A-30. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8270*										
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0 / 52	0%	0	0				150	270
N-Nitrosodiphenylamine	ug/kg, dry wt.	0 / 52	0%	0	0				75	140
Pentachlorophenol	ug/kg, dry wt.	0 / 52	0%	0	0				370	690
Phenanthrene	ug/kg, dry wt.	41 / 52	79%	86	1400	408	SD-04104	SD-04104-0000	75	110
Phenol	ug/kg, dry wt.	3 / 52	6%	300	390	353	SD-SWY08	SD-SWY08-0000	150	270
Pyrene	ug/kg, dry wt.	46 / 52	88%	110	5200	868	SD-04109	SD-04109-0000	75	79
Total HPAH (calc'd)	ug/kg, dry wt.	49 / 52	94%	100	21560	4360	SD-04109	SD-04109-0000	75	78
Total LPAH (calc'd)	ug/kg, dry wt.	41 / 52	79%	86	3230	651	SD-04104	SD-04104-0000	75	110
Method: *EPA 376.2*										
Sulfides (total)	mg/kg, dry wt.	17 / 51	33%	9.8	2100	564	SD-04116	SD-04116-0000	0.68	3.7
Method: *EPA 8015*										
TPH - Diesel Range	mg/kg, dry wt.	2 / 2	100%	130	260	195	SD-04122	SD-04122-0000	0	0
Method: *EPA 8260*										
1,1,1-Trichloroethane	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
1,1,2,2-Tetrachloroethane	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
1,1,2-Trichloroethane	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
1,1,2-Trichloroethene	ug/kg, dry wt.	1 / 4	25%	7.3	7.3	7.30	SB-04119	W20-SB-04119-0005	1.4	2.5
1,1,2-Trichlorotrifluoroethane	ug/kg, dry wt.	0 / 4	0%	0	0				2.6	5
1,1-Dichloroethane	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
1,1-Dichloroethene	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
1,2-Dichloroethane	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
1,2-Dichloropropane	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
1,2-Dimethylbenzene	ug/kg, dry wt.	0 / 3	0%	0	0				1.4	2.5
2-Chloroethyl vinyl ether	ug/kg, dry wt.	0 / 4	0%	0	0				6.6	12
2-Hexanone	ug/kg, dry wt.	0 / 4	0%	0	0				6.6	12
Acetone	ug/kg, dry wt.	0 / 4	0%	0	0				6.6	54
Benzene	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Bromodichloromethane	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Bromoform	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Bromomethane	ug/kg, dry wt.	0 / 4	0%	0	0				2.6	5
Carbon disulfide	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Carbon tetrachloride	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Chlorobenzene	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5

Table A-30. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

Parameter Name	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8260*										
Chloroethane	ug/kg, dry wt.	0 / 4	0%	0	0				2.6	5
Chloroform	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Chloromethane	ug/kg, dry wt.	0 / 4	0%	0	0				2.6	5
cis-1,2-Dichloroethene	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
cis-1,3-Dichloropropene	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Dibromochloromethane	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Dichloromethane	ug/kg, dry wt.	0 / 4	0%	0	0				2.6	5.3
Ethylbenzene	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Methyl ethyl ketone	ug/kg, dry wt.	3 / 4	75%	8.7	16	12.9	SD-04108	SD-04108-0000	6.6	6.6
Methyl iso-butyl ketone	ug/kg, dry wt.	0 / 4	0%	0	0				6.6	12
Styrene	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Tetrachloroethene	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Toluene	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
trans-1,2-Dichloroethene	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
trans-1,3-Dichloropropene	ug/kg, dry wt.	0 / 4	0%	0	0				1.3	2.5
Trichlorofluoromethane	ug/kg, dry wt.	0 / 4	0%	0	0				2.6	5
Vinyl acetate	ug/kg, dry wt.	0 / 4	0%	0	0				6.6	12
Vinyl chloride	ug/kg, dry wt.	0 / 4	0%	0	0				2.6	5
Xylene (meta & para)	ug/kg, dry wt.	0 / 3	0%	0	0				1.4	2.5
Xylene (total)	ug/kg, dry wt.	0 / 1	0%	0	0				2.6	2.6
Method: *EPA CLP SOW 1.8/EPA 7471*										
Mercury	mg/kg, dry wt.	48 / 58	83%	0.05	4.6	0.404	SD-04408	SD-04408-0000	0.05	0.07
Method: *NWTPH-HCID*										
TPH	mg/kg, dry wt.	51 / 57	89%	23	23000	1840	SS-SWY05	SS-SWY05	20	20
Method: *Plumb, 1981*										
Total Organic Carbon (TOC)	%, dry wt.	66 / 66	100%	0.22	8.3	1.99	SS-SWY06	SS-SWY06	0	0
Method: *PSEP, 1986*										
Balance-Fractional %	%, dry wt.	64 / 64	100%	0	6	1.14	SD-SWY12	SD-SWY12-0000	0	0
Fines (percent silt+clay)	%, dry wt.	64 / 64	100%	2	78	25.0	SD-04122	SD-04122-0000	0	0
Fractional % phi 0-1 (500-1000µm)	%, dry wt.	64 / 64	100%	1	19	8.70	SD-SWY03	SD-SWY03-0000	0	0
Fractional % phi -1-0 (1000-2000µm)	%, dry wt.	64 / 64	100%	0	11	3.77	SD-SWY11	SD-SWY11-0000	0	0
Fractional % phi 10+ (<0.98µm)	%, dry wt.	64 / 64	100%	0	6	1.17	SD-04111	SD-04111-0000	0	0
Fractional % phi 1-2 (250-500µm)	%, dry wt.	64 / 64	100%	5	46	21.6	SD-04913	SD-04913-0000	0	0

Table A-30. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *PSEP, 1986*										
Fractional % phi 2-3 (125-250µm)	%, dry wt.	64 / 64	100%	3	35	17.7	SD-04913	SD-04913-0000	0	0
Fractional % phi 3-4 (62.5-125µm)	%, dry wt.	64 / 64	100%	1	28	10.4	SD-04911	SD-04911-0000	0	0
Fractional % phi 4-5 (31.2-62.5µm)	%, dry wt.	64 / 64	100%	0	15	6.03	SD-04920	SD-04920-0000	0	0
Fractional % phi 5-6 (15.6-31.2µm)	%, dry wt.	64 / 64	100%	0	25	6.06	SD-04121	SD-04121-0000	0	0
Fractional % phi 6-7 (7.8-15.6µm)	%, dry wt.	64 / 64	100%	0	21	4.73	SD-04122	SD-04122-0000	0	0
Fractional % phi 7-8 (3.9-7.8µm)	%, dry wt.	64 / 64	100%	0	9	2.84	SD-04122	SD-04122-0000	0	0
Fractional % phi 8-9 (1.95-3.9µm)	%, dry wt.	64 / 64	100%	0	5	1.79	SD-04921	SD-04921-0000	0	0
Fractional % phi 9-10 (0.98-1.95µm)	%, dry wt.	64 / 64	100%	0	8	1.23	SD-04115	SD-04115-0000	0	0
Fractional % Sieve #10 (2000-4750µm)	%, dry wt.	64 / 64	100%	0	25	3.91	SD-04402	SD-04402-0000	0	0
Fractional % Sieve #4 (>4750µm)	%, dry wt.	64 / 64	100%	0	47	8.90	SD-04107	SD-04107-0000	0	0
Sand (percent)	%, dry wt.	64 / 64	100%	21	96	62.2	SD-04913	SD-04913-0000	0	0
Method: *WTPH - 418.1*										
TPH - Heavy Fuel Oil Range	mg/kg, dry wt.	2 / 2	100%	250	370	310	SD-04121	SD-04121-0000	0	0
Method: *WTPH-D*										
TPH - Diesel Range	mg/kg, dry wt.	2 / 2	100%	68	81	74.5	SD-04121	SD-04121-0000	0	0
Method: *WTPH-G*										
TPH - Gasoline Range	mg/kg, dry wt.	0 / 2	0%	0	0				20	20

Table A-31. Summary of subsurface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

Parameter Name	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 1311 TCLP/EPA 7196A*											
Chromium VI	mg/kg, dry wt.	0	/	2	0%	0	0			15	15
Method: *EPA 150.1*											
pH	pH	5	/	5	100%	6.8	9.2	7.88	SD-04920	SD-04920-0002	0	0
Method: *EPA 3050B/EPA 6010*											
Aluminum	mg/kg, dry wt.	4	/	4	100%	16000	21000	18500	SB-04117	W20-SB-04117-0020	0	0
Antimony	mg/kg, dry wt.	0	/	2	0%	0	0				7	7
Barium	mg/kg, dry wt.	4	/	4	100%	25	71	54.0	SD-04107	SD-04107-0003	0	0
Beryllium	mg/kg, dry wt.	4	/	4	100%	0.2	0.4	0.275	SD-04107	SD-04107-0003	0	0
Cadmium	mg/kg, dry wt.	4	/	4	100%	1	18	5.58	SD-04107	SD-04107-0003	0	0
Calcium (total)	mg/kg, dry wt.	4	/	4	100%	4800	5800	5380	SB-04117	W20-SB-04117-0020	0	0
Chromium	mg/kg, dry wt.	4	/	4	100%	45	210	96.5	SD-04107	SD-04107-0003	0	0
Cobalt	mg/kg, dry wt.	4	/	4	100%	6.3	11	9.13	SB-04117	W20-SB-04117-0020	0	0
Copper	mg/kg, dry wt.	4	/	4	100%	76	200	127	SD-04107	SD-04107-0003	0	0
Iron	mg/kg, dry wt.	4	/	4	100%	19000	43000	30000	SD-04107	SD-04107-0003	0	0
Lead	mg/kg, dry wt.	4	/	4	100%	50	280	119	SD-04107	SD-04107-0003	0	0
Magnesium (total)	mg/kg, dry wt.	4	/	4	100%	3300	5900	4900	SB-04117	W20-SB-04117-0020	0	0
Manganese	mg/kg, dry wt.	4	/	4	100%	150	450	313	SB-04117	W20-SB-04117-0020	0	0
Nickel	mg/kg, dry wt.	4	/	4	100%	19	34	24.8	SD-04107	SD-04107-0003	0	0
Potassium (total)	mg/kg, dry wt.	4	/	4	100%	940	2000	1510	SB-04117	W20-SB-04117-0020	0	0
Selenium (total)	mg/kg, dry wt.	2	/	4	50%	8	14	11.0	SD-04107	SD-04107-0003	7	7
Silver	mg/kg, dry wt.	4	/	4	100%	0.6	1.6	1.03	SD-04107	SD-04107-0003	0	0
Sodium (total)	mg/kg, dry wt.	4	/	4	100%	1300	4100	3000	SB-04117	W20-SB-04117-0020	0	0
Vanadium	mg/kg, dry wt.	4	/	4	100%	55	71	62.0	SD-04107	SD-04107-0003	0	0
Zinc	mg/kg, dry wt.	4	/	4	100%	94	300	211	SB-04117	W20-SB-04117-0005	0	0
Method: *EPA 3050B/EPA 7060*											
Arsenic	mg/kg, dry wt.	3	/	4	75%	11	15	13.0	SB-04117	W20-SB-04117-0020	6	6
Method: *EPA 3050B/EPA 7841*											
Thallium (total)	mg/kg, dry wt.	1	/	4	25%	13	13	13.0	SD-04107	SD-04107-0003	6	7
Method: *EPA 335.2*											
Cyanide	mg/kg, dry wt.	1	/	2	50%	0.35	0.35	0.350	SB-04117	W20-SB-04117-0020	0.14	0.14
Method: *EPA 3550B/EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/	13	0%	0	0				36	24000

Table A-31. Summary of subsurface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8080*											
Aroclor-1242	ug/kg, dry wt.	0	/	13	0%	0	0			36	24000
Aroclor-1248	ug/kg, dry wt.	7	/	13	54%	26	860	421	SD-04903	SD-04903-0003	38	24000
Aroclor-1254	ug/kg, dry wt.	3	/	13	23%	460	26000	14200	SD-04107	SD-04107-0015	36	130000
Aroclor-1260	ug/kg, dry wt.	13	/	13	100%	40	890000	70400	SD-04905	SD-04905-0003	0	0
PCBs (total-calc'd)	ug/kg, dry wt.	13	/	13	100%	66	890000	73900	SD-04905	SD-04905-0003	0	0
Method: *EPA 3550B/EPA 8270*											
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
1,2-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
1,3-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
1,4-Dichlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
2,4,5-Trichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				470	2000
2,4,6-Trichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				470	2000
2,4-Dichlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				280	1200
2,4-Dimethylphenol	ug/kg, dry wt.	0	/	4	0%	0	0				280	790
2,4-Dinitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0				940	4000
2,4-Dinitrotoluene	ug/kg, dry wt.	0	/	4	0%	0	0				470	2000
2,6-Dinitrotoluene	ug/kg, dry wt.	0	/	4	0%	0	0				470	2000
2-Chloronaphthalene	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
2-Chlorophenol	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
2-Methylnaphthalene	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
2-Methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0				180	400
2-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0				470	2000
2-Nitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0				470	2000
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0	/	4	0%	0	0				470	2000
3-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0				560	2000
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0	/	4	0%	0	0				940	4000
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
4-Chloro-3-methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0				190	790
4-Chloroaniline	ug/kg, dry wt.	0	/	4	0%	0	0				280	1200
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
4-Methylphenol	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
4-Nitroaniline	ug/kg, dry wt.	0	/	4	0%	0	0				470	2000
4-Nitrophenol	ug/kg, dry wt.	0	/	4	0%	0	0				470	2000

Table A-31. Summary of subsurface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8270*											
Acenaphthene	ug/kg, dry wt.	0	/	4	0%	0	0			94	400
Acenaphthylene	ug/kg, dry wt.	0	/	4	0%	0	0			94	400
Anthracene	ug/kg, dry wt.	1	/	4	25%	280	280	280	SD-04107	SD-04107-0003	94	400
Benzo(a)anthracene	ug/kg, dry wt.	4	/	4	100%	240	1400	588	SD-04107	SD-04107-0003	0	0
Benzo(a)pyrene	ug/kg, dry wt.	3	/	4	75%	280	960	543	SD-04107	SD-04107-0003	400	400
Benzo(b)fluoranthene	ug/kg, dry wt.	4	/	4	100%	470	1400	880	SD-04107	SD-04107-0003	0	0
Benzo(g,h,i)perylene	ug/kg, dry wt.	2	/	4	50%	130	380	255	SD-04107	SD-04107-0003	180	400
Benzo(k)fluoranthene	ug/kg, dry wt.	2	/	4	50%	360	1200	780	SD-04107	SD-04107-0003	180	400
Benzofluoranthene (total)	ug/kg, dry wt.	4	/	4	100%	700	2600	1270	SD-04107	SD-04107-0003	0	0
Benzoic acid	ug/kg, dry wt.	0	/	4	0%	0	0				940	4000
Benzyl alcohol	ug/kg, dry wt.	0	/	4	0%	0	0				470	2000
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	4	0%	0	0				180	400
bis(2-chloroisopropyl)ether	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	4	/	4	100%	180	820	473	SB-04117	W20-SB-04117-0020	0	0
Butyl benzyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
Carbazole	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
Chrysene	ug/kg, dry wt.	4	/	4	100%	280	2000	783	SD-04107	SD-04107-0003	0	0
Dibenzo(a,h)anthracene	ug/kg, dry wt.	1	/	4	25%	190	190	190	SD-04107	SD-04107-0003	94	400
Dibenzofuran	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
Diethyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
Dimethyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
Di-n-butyl phthalate	ug/kg, dry wt.	1	/	4	25%	280	280	280	SD-04107	SD-04107-0015	110	400
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
Fluoranthene	ug/kg, dry wt.	4	/	4	100%	360	2000	1040	SD-04107	SD-04107-0003	0	0
Fluorene	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
Hexachlorobenzene	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
Hexachlorobutadiene	ug/kg, dry wt.	0	/	4	0%	0	0				190	790
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/	4	0%	0	0				470	2000
Hexachloroethane	ug/kg, dry wt.	0	/	4	0%	0	0				190	790
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	2	/	4	50%	130	320	225	SD-04107	SD-04107-0003	180	400
Isophorone	ug/kg, dry wt.	0	/	4	0%	0	0				94	400
Naphthalene	ug/kg, dry wt.	0	/	4	0%	0	0				94	400

Table A-31. Summary of subsurface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8270*										
Nitrobenzene	ug/kg, dry wt.	0 / 4	0%	0	0				94	400
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0 / 4	0%	0	0				180	400
N-Nitrosodiphenylamine	ug/kg, dry wt.	0 / 4	0%	0	0				94	400
Pentachlorophenol	ug/kg, dry wt.	0 / 4	0%	0	0				470	2000
Phenanthrene	ug/kg, dry wt.	1 / 4	25%	420	420	420	SD-04107	SD-04107-0003	94	400
Phenol	ug/kg, dry wt.	0 / 4	0%	0	0				190	790
Pyrene	ug/kg, dry wt.	4 / 4	100%	320	1700	960	SD-04107	SD-04107-0003	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	4 / 4	100%	2680	11550	5330	SD-04107	SD-04107-0003	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	1 / 4	25%	700	700	700	SD-04107	SD-04107-0003	94	400
Method: *EPA 376.2*										
Sulfides (total)	mg/kg, dry wt.	1 / 3	33%	74	74	74.0	SD-04107	SD-04107-0003	1.1	1.3
Method: *EPA 8260*										
1,1,1-Trichloroethane	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
1,1,2,2-Tetrachloroethane	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
1,1,2-Trichloroethane	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
1,1,2-Trichloroethene	ug/kg, dry wt.	1 / 7	14%	23	23	23.0	SB-04119	W20-SB-04119-0030	1.2	5.6
1,1,2-Trichlorotrifluoroethane	ug/kg, dry wt.	0 / 7	0%	0	0				2.3	11
1,1-Dichloroethane	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
1,1-Dichloroethene	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
1,2-Dichloroethane	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
1,2-Dichloropropane	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
1,2-Dimethylbenzene	ug/kg, dry wt.	0 / 2	0%	0	0				1.4	1.8
2-Chloroethyl vinyl ether	ug/kg, dry wt.	0 / 7	0%	0	0				5.9	28
2-Hexanone	ug/kg, dry wt.	0 / 7	0%	0	0				5.9	28
Acetone	ug/kg, dry wt.	2 / 7	29%	17	53	35.0	SB-04117	W20-SB-04117-0020	6.7	37
Benzene	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
Bromodichloromethane	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
Bromoform	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
Bromomethane	ug/kg, dry wt.	0 / 7	0%	0	0				2.3	11
Carbon disulfide	ug/kg, dry wt.	1 / 7	14%	18	18	18.0	SB-04117	W20-SB-04117-0020	1.2	5.6
Carbon tetrachloride	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
Chlorobenzene	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
Chloroethane	ug/kg, dry wt.	0 / 7	0%	0	0				2.3	11

Table A-31. Summary of subsurface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

Parameter Name	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8260*										
Chloroform	ug/kg, dry wt.	1 / 7	14%	1.8	1.8	1.80	SD-04107	SD-04107-0003	1.2	5.6
Chloromethane	ug/kg, dry wt.	0 / 7	0%	0	0				2.3	11
cis-1,2-Dichloroethene	ug/kg, dry wt.	1 / 7	14%	2.3	2.3	2.30	SB-04119	W20-SB-04119-0030	1.2	5.6
cis-1,3-Dichloropropene	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
Dibromochloromethane	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
Dichloromethane	ug/kg, dry wt.	0 / 7	0%	0	0				2.3	11
Ethylbenzene	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
Methyl ethyl ketone	ug/kg, dry wt.	1 / 7	14%	13	13	13.0	SB-04117	W20-SB-04117-0020	5.9	28
Methyl iso-butyl ketone	ug/kg, dry wt.	0 / 7	0%	0	0				5.9	28
Styrene	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
Tetrachloroethene	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
Toluene	ug/kg, dry wt.	1 / 7	14%	1.8	1.8	1.80	SB-04117	W20-SB-04117-0020	1.2	5.6
trans-1,2-Dichloroethene	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
trans-1,3-Dichloropropene	ug/kg, dry wt.	0 / 7	0%	0	0				1.2	5.6
Trichlorofluoromethane	ug/kg, dry wt.	0 / 7	0%	0	0				2.3	11
Vinyl acetate	ug/kg, dry wt.	0 / 7	0%	0	0				5.9	28
Vinyl chloride	ug/kg, dry wt.	0 / 7	0%	0	0				2.3	11
Xylene (meta & para)	ug/kg, dry wt.	0 / 2	0%	0	0				1.4	1.8
Xylene (total)	ug/kg, dry wt.	0 / 5	0%	0	0				2.3	11
Method: *EPA CLP SOW 1.8/EPA 7471*										
Mercury	mg/kg, dry wt.	4 / 4	100%	0.07	0.16	0.110	SD-04107	SD-04107-0003	0	0
Method: *NWTPH-HCID*										
TPH	mg/kg, dry wt.	12 / 14	86%	26	4300	828	SD-04107	SD-04107-0003	20	20
Method: *Plumb, 1981*										
Total Organic Carbon (TOC)	%, dry wt.	5 / 5	100%	0.65	6.3	2.57	SD-04402	SD-04402-0001	0	0
Method: *PSEP, 1986*										
Balance-Fractional %	%, dry wt.	5 / 5	100%	0	1	0.200	SD-04107	SD-04107-0015	0	0
Fines (percent silt+clay)	%, dry wt.	5 / 5	100%	4	19	11.6	SD-04920	SD-04920-0002	0	0
Fractional % phi 0-1 (500-1000µm)	%, dry wt.	5 / 5	100%	5	32	16.0	SD-04107	SD-04107-0015	0	0
Fractional % phi -1-0 (1000-2000µm)	%, dry wt.	5 / 5	100%	3	11	6.60	SD-04920	SD-04920-0002	0	0
Fractional % phi 10+ (<0.98µm)	%, dry wt.	5 / 5	100%	0	2	1.00	SD-04920	SD-04920-0002	0	0
Fractional % phi 1-2 (250-500µm)	%, dry wt.	5 / 5	100%	9	40	23.0	SD-04405	SD-04405-0015	0	0
Fractional % phi 2-3 (125-250µm)	%, dry wt.	5 / 5	100%	5	22	9.40	SD-04405	SD-04405-0015	0	0

Table A-31. Summary of subsurface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 1 Sep 1994-Aug 1995 (Plant 2 RFI-1)

Event Start Date: *9/2/94*
Event Stop Date: *8/7/95*

Parameter Name	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *PSEP, 1986*										
Fractional % phi 3-4 (62.5-125µm)	%, dry wt.	5 / 5	100%	2	7	4.80	SD-04405	SD-04405-0015	0	0
Fractional % phi 4-5 (31.2-62.5µm)	%, dry wt.	5 / 5	100%	1	4	2.60	SD-04920	SD-04920-0002	0	0
Fractional % phi 5-6 (15.6-31.2µm)	%, dry wt.	5 / 5	100%	1	5	2.60	SD-04920	SD-04920-0002	0	0
Fractional % phi 6-7 (7.8-15.6µm)	%, dry wt.	5 / 5	100%	0	4	2.00	SD-04920	SD-04920-0002	0	0
Fractional % phi 7-8 (3.9-7.8µm)	%, dry wt.	5 / 5	100%	1	2	1.40	SD-04920	SD-04920-0002	0	0
Fractional % phi 8-9 (1.95-3.9µm)	%, dry wt.	5 / 5	100%	0	2	1.00	SD-04920	SD-04920-0002	0	0
Fractional % phi 9-10 (0.98-1.95µm)	%, dry wt.	5 / 5	100%	0	1	0.800	SD-04405	SD-04405-0015	0	0
Fractional % Sieve #10 (2000-4750µm)	%, dry wt.	5 / 5	100%	2	13	6.60	SD-04402	SD-04402-0001	0	0
Fractional % Sieve #4 (>4750µm)	%, dry wt.	5 / 5	100%	0	56	22.0	SD-04402	SD-04402-0001	0	0
Sand (percent)	%, dry wt.	5 / 5	100%	27	88	59.8	SD-04405	SD-04405-0015	0	0

Table A-32. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 2a Oct 1995 (Plant 2 RFI-2a)

Event Start Date: *10/23/95*
Event Stop Date: *10/25/95*

Parameter Name	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 150.1*											
pH	pH	54	/ 54	100%	6.5	8.1	7.49	SD-DUW14	SD-DUW14-0000	0	0
Method: *EPA 3050B/EPA 6010*											
Aluminum	mg/kg, dry wt.	20	/ 20	100%	11000	25000	17200	SD-DUW14	SD-DUW14-0000	0	0
Antimony	mg/kg, dry wt.	0	/ 2	0%	0	0				8	8
Barium	mg/kg, dry wt.	20	/ 20	100%	27	87	54.2	SD-DUW16	SD-DUW16-0000	0	0
Beryllium	mg/kg, dry wt.	20	/ 20	100%	0.2	0.4	0.280	SD-DUW49	SD-DUW49-0000	0	0
Beryllium (total)	mg/kg, dry wt.	2	/ 2	100%	0.2	0.3	0.250	SD-DUW28	SD-DUW28-0000	0	0
Cadmium	mg/kg, dry wt.	15	/ 20	75%	0.3	1.1	0.657	SD-DUW53	SD-DUW53-0000	0.3	0.5
Calcium (total)	mg/kg, dry wt.	20	/ 20	100%	4300	13000	6710	SD-DUW25	SD-DUW25-0000	0	0
Chromium	mg/kg, dry wt.	20	/ 20	100%	19	71	41.9	SD-DUW22	SD-DUW22-0000	0	0
Cobalt	mg/kg, dry wt.	20	/ 20	100%	4.9	10	7.07	SD-DUW27	SD-DUW27-0000	0	0
Copper	mg/kg, dry wt.	20	/ 20	100%	20	110	50.6	SD-DUW15	SD-DUW15-0000	0	0
Iron	mg/kg, dry wt.	20	/ 20	100%	16000	69000	28200	SD-DUW28	SD-DUW28-0000	0	0
Lead	mg/kg, dry wt.	20	/ 20	100%	18	650	87.2	SD-DUW54	SD-DUW54-0000	0	0
Magnesium (total)	mg/kg, dry wt.	20	/ 20	100%	3400	8200	5790	SD-DUW14	SD-DUW14-0000	0	0
Manganese	mg/kg, dry wt.	20	/ 20	100%	210	840	305	SD-DUW28	SD-DUW28-0000	0	0
Nickel	mg/kg, dry wt.	20	/ 20	100%	12	33	22.0	SD-DUW49	SD-DUW49-0000	0	0
Potassium (total)	mg/kg, dry wt.	20	/ 20	100%	970	3300	2030	SD-DUW14	SD-DUW14-0000	0	0
Selenium (total)	mg/kg, dry wt.	1	/ 20	5%	10	10	10.0	SD-DUW28	SD-DUW28-0000	6	10
Silver	mg/kg, dry wt.	9	/ 20	45%	0.6	1.1	0.783	SD-DUW49	SD-DUW49-0000	0.4	0.7
Sodium (total)	mg/kg, dry wt.	20	/ 20	100%	3500	14000	7960	SD-DUW14	SD-DUW14-0000	0	0
Vanadium	mg/kg, dry wt.	20	/ 20	100%	45	79	58.6	SD-DUW28	SD-DUW28-0000	0	0
Zinc	mg/kg, dry wt.	20	/ 20	100%	57	580	154	SD-DUW53	SD-DUW53-0000	0	0
Method: *EPA 3050B/EPA 7060*											
Arsenic	mg/kg, dry wt.	12	/ 20	60%	7	30	14.3	SD-DUW28	SD-DUW28-0000	6	10
Arsenic (total)	mg/kg, dry wt.	1	/ 2	50%	30	30	30.0	SD-DUW28	SD-DUW28-0000	7	7
Method: *EPA 3050B/EPA 7841*											
Thallium (total)	mg/kg, dry wt.	0	/ 20	0%	0	0				6	10
Method: *EPA 3550B/EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/ 54	0%	0	0				43	2000
Aroclor-1242	ug/kg, dry wt.	1	/ 54	2%	1100	1100	1100	SD-DUW30	SD-DUW30-0000	43	2000
Aroclor-1248	ug/kg, dry wt.	0	/ 54	0%	0	0				45	2000
Aroclor-1254	ug/kg, dry wt.	38	/ 54	70%	110	3300	808	SD-DUW47	SD-DUW47-0000	47	2700

Table A-32. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 2a Oct 1995 (Plant 2 RFI-2a)

Event Start Date: *10/23/95*
Event Stop Date: *10/25/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8080*										
Aroclor-1260	ug/kg, dry wt.	53 / 54	98%	87	15000	2090	SD-DUW13	SD-DUW13-0000	1700	1700
Aroclor-1268	ug/kg, dry wt.	1 / 1	100%	460	460	460	SD-DUW44	SD-DUW44-0000	0	0
PCBs (total-calc'd)	ug/kg, dry wt.	54 / 54	100%	120	15000	2640	SD-DUW13	SD-DUW13-0000	0	0
Method: *EPA 3550B/EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	0 / 18	0%	0	0				19	130
1,2-Dichlorobenzene	ug/kg, dry wt.	1 / 18	6%	22	22	22.0	SD-DUW12	SD-DUW12-0000	19	130
1,3-Dichlorobenzene	ug/kg, dry wt.	0 / 18	0%	0	0				19	130
1,4-Dichlorobenzene	ug/kg, dry wt.	1 / 18	6%	27	27	27.0	SD-DUW12	SD-DUW12-0000	19	130
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 18	0%	0	0				95	660
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 18	0%	0	0				95	660
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 18	0%	0	0				57	400
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 18	0%	0	0				57	400
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 18	0%	0	0				190	1300
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 18	0%	0	0				95	660
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 18	0%	0	0				95	660
2-Chloronaphthalene	ug/kg, dry wt.	0 / 18	0%	0	0				19	130
2-Chlorophenol	ug/kg, dry wt.	0 / 18	0%	0	0				19	130
2-Methylnaphthalene	ug/kg, dry wt.	0 / 18	0%	0	0				19	130
2-Methylphenol	ug/kg, dry wt.	0 / 18	0%	0	0				38	270
2-Nitroaniline	ug/kg, dry wt.	0 / 18	0%	0	0				95	660
2-Nitrophenol	ug/kg, dry wt.	0 / 18	0%	0	0				95	660
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0 / 18	0%	0	0				95	660
3-Nitroaniline	ug/kg, dry wt.	0 / 18	0%	0	0				110	800
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0 / 18	0%	0	0				190	1300
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0 / 18	0%	0	0				19	130
4-Chloro-3-methylphenol	ug/kg, dry wt.	0 / 18	0%	0	0				38	270
4-Chloroaniline	ug/kg, dry wt.	0 / 18	0%	0	0				57	400
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0 / 18	0%	0	0				19	130
4-Methylphenol	ug/kg, dry wt.	0 / 18	0%	0	0				19	130
4-Nitroaniline	ug/kg, dry wt.	0 / 18	0%	0	0				95	660
4-Nitrophenol	ug/kg, dry wt.	0 / 18	0%	0	0				95	660
Acenaphthene	ug/kg, dry wt.	2 / 18	11%	20	580	300	SD-DUW39	SD-DUW39-0000	19	130
Acenaphthylene	ug/kg, dry wt.	0 / 18	0%	0	0				19	130

Table A-32. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 2a Oct 1995 (Plant 2 RFI-2a)

Event Start Date: *10/23/95*
Event Stop Date: *10/25/95*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8270*											
Anthracene	ug/kg, dry wt.	4	/	18	22%	20	140	59.8	SD-DUW50	SD-DUW50-0000	19	130
Benzo(a)anthracene	ug/kg, dry wt.	9	/	18	50%	44	240	143	SD-DUW47	SD-DUW47-0000	89	130
Benzo(a)pyrene	ug/kg, dry wt.	12	/	18	67%	47	260	154	SD-DUW47	SD-DUW47-0000	89	130
Benzo(b)fluoranthene	ug/kg, dry wt.	13	/	18	72%	51	370	208	SD-DUW47	SD-DUW47-0000	89	120
Benzo(g,h,i)perylene	ug/kg, dry wt.	8	/	18	44%	40	230	121	SD-DUW47	SD-DUW47-0000	89	130
Benzo(k)fluoranthene	ug/kg, dry wt.	13	/	18	72%	60	280	158	SD-DUW48	SD-DUW48-0000	89	120
Benzofluoranthene (total)	ug/kg, dry wt.	18	/	18	100%	90	630	284	SD-DUW48	SD-DUW48-0000	0	0
Benzoic acid	ug/kg, dry wt.	1	/	18	6%	230	230	230	SD-DUW48	SD-DUW48-0000	190	1300
Benzyl alcohol	ug/kg, dry wt.	0	/	18	0%	0	0				95	660
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0	/	18	0%	0	0				19	130
bis(2-chloroethyl)ether	ug/kg, dry wt.	0	/	18	0%	0	0				38	270
bis(2-chloroisopropyl)ether	ug/kg, dry wt.	0	/	18	0%	0	0				19	130
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	18	/	18	100%	120	2800	590	SD-DUW12	SD-DUW12-0000	0	0
Butyl benzyl phthalate	ug/kg, dry wt.	6	/	18	33%	26	6900	1810	SD-DUW48	SD-DUW48-0000	89	130
Carbazole	ug/kg, dry wt.	1	/	18	6%	33	33	33.0	SD-DUW48	SD-DUW48-0000	19	130
Chrysene	ug/kg, dry wt.	16	/	18	89%	95	400	207	SD-DUW47	SD-DUW47-0000	97	120
Dibenzo(a,h)anthracene	ug/kg, dry wt.	1	/	18	6%	44	44	44.0	SD-DUW48	SD-DUW48-0000	19	130
Dibenzofuran	ug/kg, dry wt.	0	/	18	0%	0	0				19	130
Diethyl phthalate	ug/kg, dry wt.	0	/	2	0%	0	0				89	130
Diethyl phthalate	ug/kg, dry wt.	0	/	18	0%	0	0				19	130
Dimethyl phthalate	ug/kg, dry wt.	1	/	18	6%	22	22	22.0	SD-DUW48	SD-DUW48-0000	19	130
Di-n-butyl phthalate	ug/kg, dry wt.	8	/	18	44%	24	740	456	SD-DUW27	SD-DUW27-0000	20	130
Di-n-octyl phthalate	ug/kg, dry wt.	0	/	18	0%	0	0				19	130
Fluoranthene	ug/kg, dry wt.	18	/	18	100%	90	740	292	SD-DUW47	SD-DUW47-0000	0	0
Fluorene	ug/kg, dry wt.	1	/	18	6%	21	21	21.0	SD-DUW48	SD-DUW48-0000	19	130
Hexachlorobenzene	ug/kg, dry wt.	0	/	18	0%	0	0				19	130
Hexachlorobutadiene	ug/kg, dry wt.	0	/	18	0%	0	0				38	270
Hexachlorocyclopentadiene	ug/kg, dry wt.	0	/	18	0%	0	0				95	660
Hexachloroethane	ug/kg, dry wt.	0	/	18	0%	0	0				38	270
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	8	/	18	44%	54	250	139	SD-DUW47	SD-DUW47-0000	89	130
Isophorone	ug/kg, dry wt.	0	/	18	0%	0	0				19	130
Naphthalene	ug/kg, dry wt.	0	/	18	0%	0	0				19	130
Nitrobenzene	ug/kg, dry wt.	0	/	18	0%	0	0				19	130

Table A-32. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 2a Oct 1995 (Plant 2 RFI-2a)

Event Start Date: *10/23/95*
Event Stop Date: *10/25/95*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8270*										
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	0 / 18	0%	0	0				38	270
N-Nitrosodiphenylamine	ug/kg, dry wt.	0 / 18	0%	0	0				19	130
Pentachlorophenol	ug/kg, dry wt.	0 / 18	0%	0	0				95	660
Phenanthrene	ug/kg, dry wt.	10 / 18	56%	44	300	174	SD-DUW47	SD-DUW47-0000	89	130
Phenol	ug/kg, dry wt.	0 / 18	0%	0	0				38	270
Pyrene	ug/kg, dry wt.	18 / 18	100%	81	610	320	SD-DUW40	SD-DUW40-0000	0	0
Total HPAH (calc'd)	ug/kg, dry wt.	18 / 18	100%	322	3310	1350	SD-DUW47	SD-DUW47-0000	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	11 / 18	61%	44	580	236	SD-DUW39	SD-DUW39-0000	89	130
Method: *EPA CLP SOW 1.8/EPA 7471*										
Mercury	mg/kg, dry wt.	17 / 18	94%	0.08	0.51	0.204	SD-DUW28	SD-DUW28-0000	0.08	0.08
Method: *Plumb, 1981*										
Total Organic Carbon (TOC)	%, dry wt.	54 / 54	100%	1.1	3.4	1.76	SD-DUW24	SD-DUW24-0000	0	0
Method: *PSEP, 1986*										
Balance-Fractional %	%, dry wt.	54 / 54	100%	0	4	1.59	SD-DUW11	SD-DUW11-0000	0	0
Fines (percent silt+clay)	%, dry wt.	54 / 54	100%	10	76	40.9	SD-DUW16	SD-DUW16-0000	0	0
Fractional % phi 0-1 (500-1000µm)	%, dry wt.	54 / 54	100%	1	28	7.26	SD-DUW35	SD-DUW35-0000	0	0
Fractional % phi -1-0 (1000-2000µm)	%, dry wt.	54 / 54	100%	0	8	1.63	SD-DUW35	SD-DUW35-0000	0	0
Fractional % phi 10+ (<0.98µm)	%, dry wt.	54 / 54	100%	0	5	1.89	SD-DUW14	SD-DUW14-0000	0	0
Fractional % phi 1-2 (250-500µm)	%, dry wt.	54 / 54	100%	1	46	21.0	SD-DUW46	SD-DUW46-0000	0	0
Fractional % phi 2-3 (125-250µm)	%, dry wt.	54 / 54	100%	4	28	14.2	SD-DUW53	SD-DUW53-0000	0	0
Fractional % phi 3-4 (62.5-125µm)	%, dry wt.	54 / 54	100%	3	27	13.3	SD-DUW41	SD-DUW41-0000	0	0
Fractional % phi 4-5 (31.2-62.5µm)	%, dry wt.	54 / 54	100%	2	25	11.7	SD-DUW16	SD-DUW16-0000	0	0
Fractional % phi 5-6 (15.6-31.2µm)	%, dry wt.	54 / 54	100%	2	25	10.1	SD-DUW26	SD-DUW26-0000	0	0
Fractional % phi 6-7 (7.8-15.6µm)	%, dry wt.	54 / 54	100%	1	18	6.76	SD-DUW26	SD-DUW26-0000	0	0
Fractional % phi 7-8 (3.9-7.8µm)	%, dry wt.	54 / 54	100%	1	9	4.52	SD-DUW49	SD-DUW49-0000	0	0
Fractional % phi 8-9 (1.95-3.9µm)	%, dry wt.	54 / 54	100%	1	6	2.61	SD-DUW14	SD-DUW14-0000	0	0
Fractional % phi 9-10 (0.98-1.95µm)	%, dry wt.	54 / 54	100%	1	4	1.76	SD-DUW09	SD-DUW09-0000	0	0
Fractional % Sieve #10 (2000-4750µm)	%, dry wt.	54 / 54	100%	0	10	1.07	SD-DUW20	SD-DUW20-0000	0	0
Fractional % Sieve #4 (>4750µm)	%, dry wt.	54 / 54	100%	0	12	0.667	SD-DUW13	SD-DUW13-0000	0	0
Sand (percent)	%, dry wt.	54 / 54	100%	23	88	57.3	SD-DUW35	SD-DUW35-0000	0	0

Table A-33. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 2b Mar-Apr 1996 (Plant 2 RFI-2b)

Event Start Date: *3/19/96*
Event Stop Date: *4/4/96*

ParameterName	Units	Det. Freq.		Detected Concentration Summary						Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.		Min	Max
Method: *EPA 3050B/EPA 6010*											
Aluminum	mg/kg, dry wt.	11	11	100%	19000	31000	27000	SD-DUW69	SD2B-DUW69-0000	0	0
Antimony	mg/kg, dry wt.	5	5	100%	9	12	10.4	SD-DUW89	SD2B-DUW89-0000	0	0
Barium	mg/kg, dry wt.	11	11	100%	75	110	94.0	SD-DUW92	SD2B-DUW92-0000	0	0
Beryllium	mg/kg, dry wt.	11	11	100%	0.4	0.6	0.514	SD-DUW72	SD2B-DUW72-0000	0	0
Beryllium (total)	mg/kg, dry wt.	1	1	100%	0.55	0.55	0.550	SD-DUW69	SD2B-DUW69-0000	0	0
Cadmium	mg/kg, dry wt.	10	11	91%	0.5	1.8	0.830	SD-DUW89	SD2B-DUW89-0000	0.4	0.4
Calcium (total)	mg/kg, dry wt.	11	11	100%	7100	7900	7470	SD-DUW92	SD2B-DUW92-0000	0	0
Chromium	mg/kg, dry wt.	11	11	100%	33	140	62.6	SD-DUW93	SD2B-DUW93-0000	0	0
Cobalt	mg/kg, dry wt.	11	11	100%	10	14	11.7	SD-DUW92	SD2B-DUW92-0000	0	0
Copper	mg/kg, dry wt.	11	11	100%	45	98	65.5	SD-DUW89	SD2B-DUW89-0000	0	0
Iron	mg/kg, dry wt.	11	11	100%	32000	58000	39300	SD-DUW89	SD2B-DUW89-0000	0	0
Lead	mg/kg, dry wt.	11	11	100%	31	1300	204	SD-DUW90	SD2B-DUW90-0000	0	0
Magnesium (total)	mg/kg, dry wt.	11	11	100%	7000	9300	8350	SD-DUW69	SD2B-DUW69-0000	0	0
Manganese	mg/kg, dry wt.	11	11	100%	350	1700	654	SD-DUW89	SD2B-DUW89-0000	0	0
Nickel	mg/kg, dry wt.	11	11	100%	26	170	59.5	SD-DUW89	SD2B-DUW89-0000	0	0
Potassium (total)	mg/kg, dry wt.	11	11	100%	1700	3800	2980	SD-DUW69	SD2B-DUW69-0000	0	0
Selenium (total)	mg/kg, dry wt.	0	11	0%	0	0				8	10
Silver	mg/kg, dry wt.	9	11	82%	0.6	1.4	0.800	SD-DUW89	SD2B-DUW89-0000	0.5	0.5
Sodium (total)	mg/kg, dry wt.	11	11	100%	3700	14000	9920	SD-DUW72	SD2B-DUW72-0000	0	0
Vanadium	mg/kg, dry wt.	11	11	100%	67	85	77.6	SD-DUW89	SD2B-DUW89-0000	0	0
Zinc	mg/kg, dry wt.	11	11	100%	88	3500	454	SD-DUW89	SD2B-DUW89-0000	0	0
Method: *EPA 3050B/EPA 7060*											
Arsenic	mg/kg, dry wt.	8	11	73%	10	19	12.9	SD-DUW93	SD2B-DUW93-0000	9	10
Arsenic (total)	mg/kg, dry wt.	1	1	100%	10	10	10.0	SD-DUW69	SD2B-DUW69-0000	0	0
Method: *EPA 3050B/EPA 7841*											
Thallium (total)	mg/kg, dry wt.	2	11	18%	10	11	10.5	SD-DUW89	SD2B-DUW89-0000	8	10
Method: *EPA 3550B/EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	39	0%	0	0				40	75
Aroclor-1221	ug/kg, dry wt.	0	21	0%	0	0				79	140
Aroclor-1232	ug/kg, dry wt.	0	21	0%	0	0				40	69
Aroclor-1242	ug/kg, dry wt.	4	39	10%	56	560	199	SD-DUW85	SD2B-DUW85-0000	40	150
Aroclor-1248	ug/kg, dry wt.	2	39	5%	94	170	132	SD-DUW84	SD2B-DUW84-0000	40	850
Aroclor-1254	ug/kg, dry wt.	37	39	95%	70	6600	540	SD-DUW90	SD2B-DUW90-0000	47	200

Table A-33. Summary of surface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 2b Mar-Apr 1996 (Plant 2 RFI-2b)

Event Start Date: *3/19/96*
Event Stop Date: *4/4/96*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8080*										
Aroclor-1260	ug/kg, dry wt.	37 / 39	95%	40	2300	298	SD-DUW69	SD2B-DUW69-0000	47	66
Aroclor-1262	ug/kg, dry wt.	1 / 1	100%	270	270	270	SD-DUW93	SD2B-DUW93-0000	0	0
PCBs (total-calc'd)	ug/kg, dry wt.	38 / 39	97%	130	7480	844	SD-DUW90	SD2B-DUW90-0000	47	47
Method: *EPA 3550B/EPA 8270*										
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	4 / 4	100%	390	1100	778	SD-DUW67	SD2B-DUW67-0000	0	0
Butyl benzyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				120	140
Diethyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				120	140
Diethyl phthalate	ug/kg, dry wt.	0 / 1	0%	0	0				120	120
Dimethyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				120	140
Di-n-butyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				120	140
Di-n-octyl phthalate	ug/kg, dry wt.	0 / 4	0%	0	0				120	140
Method: *EPA CLP SOW 1.8/EPA 7471*										
Mercury	mg/kg, dry wt.	11 / 11	100%	0.07	0.2	0.143	SD-DUW70	SD2B-DUW70-0000	0	0
Method: *Plumb, 1981*										
Total Organic Carbon (TOC)	%, dry wt.	39 / 39	100%	1	2.7	1.84	SD-DUW72	SD2B-DUW72-0000	0	0
Method: *PSEP, 1986*										
Balance-Fractional %	%, dry wt.	39 / 39	100%	1	5	2.17	SD-DUW70	SD2B-DUW70-0000	0	0
Fines (percent silt+clay)	%, dry wt.	39 / 39	100%	5	91	67.3	SD-DUW73	SD2B-DUW73-0000	0	0
Fractional % phi 0-1 (500-1000µm)	%, dry wt.	39 / 39	100%	0	38	3.04	SD-DUW60	SD2B-DUW60-0000	0	0
Fractional % phi -1-0 (1000-2000µm)	%, dry wt.	39 / 39	100%	0	7	0.885	SD-DUW90	SD2B-DUW90-0000	0	0
Fractional % phi 10+ (<0.98µm)	%, dry wt.	39 / 39	100%	0	7	3.92	SD-DUW62	SD2B-DUW62-0000	0	0
Fractional % phi 1-2 (250-500µm)	%, dry wt.	39 / 39	100%	0	47	9.23	SD-DUW74	SD2B-DUW74-0000	0	0
Fractional % phi 2-3 (125-250µm)	%, dry wt.	39 / 39	100%	1	32	7.26	SD-DUW79	SD2B-DUW79-0000	0	0
Fractional % phi 3-4 (62.5-125µm)	%, dry wt.	39 / 39	100%	1	18	9.78	SD-DUW56	SD2B-DUW56-0000	0	0
Fractional % phi 4-5 (31.2-62.5µm)	%, dry wt.	39 / 39	100%	1	25	14.3	SD-DUW73	SD2B-DUW73-0000	0	0
Fractional % phi 5-6 (15.6-31.2µm)	%, dry wt.	39 / 39	100%	1	26	17.3	SD-DUW69	SD2B-DUW69-0000	0	0
Fractional % phi 6-7 (7.8-15.6µm)	%, dry wt.	39 / 39	100%	1	24	13.8	SD-DUW58	SD2B-DUW58-0000	0	0
Fractional % phi 7-8 (3.9-7.8µm)	%, dry wt.	39 / 39	100%	1	15	8.56	SD-DUW82	SD2B-DUW82-0000	0	0
Fractional % phi 8-9 (1.95-3.9µm)	%, dry wt.	39 / 39	100%	0	7	4.38	SD-DUW62	SD2B-DUW62-0000	0	0
Fractional % phi 9-10 (0.98-1.95µm)	%, dry wt.	39 / 39	100%	0	6	2.83	SD-DUW59	SD2B-DUW59-0000	0	0
Fractional % Sieve #10 (2000-4750µm)	%, dry wt.	39 / 39	100%	0	12	1.06	SD-DUW89	SD2B-DUW89-0000	0	0
Fractional % Sieve #4 (>4750µm)	%, dry wt.	39 / 39	100%	0	21	1.44	SD-DUW90	SD2B-DUW90-0000	0	0
Sand (percent)	%, dry wt.	39 / 39	100%	7	91	30.2	SD-DUW60	SD2B-DUW60-0000	0	0

Table A-34. Summary of subsurface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 2b Mar-Apr 1996 (Plant 2 RFI-2b)

Event Start Date: *3/19/96*
Event Stop Date: *4/4/96*

ParameterName	Units	Det. Freq.			Detected Concentration Summary					Reporting Limit Summary	
					Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3050B/EPA 6010*											
Aluminum	mg/kg, dry wt.	14	/ 14	100%	7100	24000	14900	SD-DUW13	SD2B-DUW13-0000C	0	0
Antimony	mg/kg, dry wt.	0	/ 14	0%	0	0				6	8
Barium	mg/kg, dry wt.	14	/ 14	100%	23	170	80.9	SD-DUW53	SD2B-DUW53-0000C	0	0
Beryllium	mg/kg, dry wt.	13	/ 14	93%	0.1	0.5	0.269	SD-DUW13	SD2B-DUW13-0000C	0.1	0.1
Cadmium	mg/kg, dry wt.	12	/ 14	86%	0.4	10	2.68	SD-DUW13D	SD2B-DUW13-5000C	0.2	0.3
Calcium (total)	mg/kg, dry wt.	14	/ 14	100%	3400	6500	4810	SD-DUW53	SD2B-DUW53-0040	0	0
Chromium	mg/kg, dry wt.	14	/ 14	100%	9.6	98	42.2	SD-DUW53	SD2B-DUW53-0040	0	0
Cobalt	mg/kg, dry wt.	14	/ 14	100%	3.5	10	6.57	SD-DUW13	SD2B-DUW13-0000C	0	0
Copper	mg/kg, dry wt.	14	/ 14	100%	7.2	97	44.6	SD-DUW13D	SD2B-DUW13-5000C	0	0
Iron	mg/kg, dry wt.	14	/ 14	100%	9900	29000	19600	SD-DUW13	SD2B-DUW13-0000C	0	0
Lead	mg/kg, dry wt.	14	/ 14	100%	3	200	72.3	SD-DUW13D	SD2B-DUW13-5040	0	0
Magnesium (total)	mg/kg, dry wt.	14	/ 14	100%	1800	7100	4370	SD-DUW13	SD2B-DUW13-0000C	0	0
Manganese	mg/kg, dry wt.	14	/ 14	100%	82	340	187	SD-DUW53	SD2B-DUW53-0040	0	0
Nickel	mg/kg, dry wt.	14	/ 14	100%	8	35	19.3	SD-DUW53	SD2B-DUW53-0000C	0	0
Potassium (total)	mg/kg, dry wt.	14	/ 14	100%	430	3000	1470	SD-DUW13	SD2B-DUW13-0000C	0	0
Selenium (total)	mg/kg, dry wt.	1	/ 14	7%	7	7	7.00	SD-DUW51	SD2B-DUW51-0000C	6	8
Silver	mg/kg, dry wt.	11	/ 14	79%	0.4	3.8	1.57	SD-DUW13D	SD2B-DUW13-5000C	0.4	0.4
Sodium (total)	mg/kg, dry wt.	14	/ 14	100%	720	8600	4370	SD-DUW13	SD2B-DUW13-0000C	0	0
Vanadium	mg/kg, dry wt.	14	/ 14	100%	34	69	51.4	SD-DUW53	SD2B-DUW53-0000C	0	0
Zinc	mg/kg, dry wt.	14	/ 14	100%	22	1600	260	SD-DUW53	SD2B-DUW53-0000C	0	0
Method: *EPA 3050B/EPA 7060*											
Arsenic	mg/kg, dry wt.	9	/ 14	64%	9	31	14.9	SD-DUW53	SD2B-DUW53-0080	6	7
Method: *EPA 3050B/EPA 7841*											
Thallium (total)	mg/kg, dry wt.	0	/ 14	0%	0	0				6	8
Method: *EPA 3550B/EPA 8080*											
Aroclor-1016	ug/kg, dry wt.	0	/ 44	0%	0	0				38	1100
Aroclor-1242	ug/kg, dry wt.	8	/ 44	18%	27	810	342	SD-DUW28	SD2B-DUW28-0000C	38	1100
Aroclor-1248	ug/kg, dry wt.	2	/ 44	5%	700	1700	1200	SD-DUW16	SD2B-DUW16-0000C	38	1100
Aroclor-1254	ug/kg, dry wt.	27	/ 44	61%	36	14000	2050	SD-DUW52	SD2B-DUW52-0000C	38	45
Aroclor-1260	ug/kg, dry wt.	22	/ 44	50%	42	8000	1650	SD-DUW34	SD2B-DUW34-0000C	38	15000
Aroclor-1262	ug/kg, dry wt.	6	/ 6	100%	120	13000	4020	SD-DUW13D	SD2B-DUW13-5000C	0	0
PCBs (total-calc'd)	ug/kg, dry wt.	28	/ 44	64%	78	18170	3460	SD-DUW52	SD2B-DUW52-0000C	38	45
Method: *EPA 3550B/EPA 8270*											

Table A-34. Summary of subsurface sediment chemistry from Boeing Plant 2 RCRA Facility Investigation - sediment investigation Phase 2b Mar-Apr 1996 (Plant 2 RFI-2b)

Event Start Date: *3/19/96*
Event Stop Date: *4/4/96*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 3550B/EPA 8270*										
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	0 / 2	0%	0	0				84	86
Butyl benzyl phthalate	ug/kg, dry wt.	0 / 2	0%	0	0				84	86
Diethyl phthalate	ug/kg, dry wt.	0 / 2	0%	0	0				84	86
Dimethyl phthalate	ug/kg, dry wt.	0 / 2	0%	0	0				84	86
Di-n-butyl phthalate	ug/kg, dry wt.	0 / 2	0%	0	0				84	86
Di-n-octyl phthalate	ug/kg, dry wt.	0 / 2	0%	0	0				84	86
Method: *EPA CLP SOW 1.8/EPA 7471*										
Mercury	mg/kg, dry wt.	11 / 15	73%	0.13	1.3	0.457	SD-DUW13	SD2B-DUW13-0000C	0.05	0.06
Method: *Plumb, 1981*										
Total Organic Carbon (TOC)	%, dry wt.	44 / 44	100%	0.07	4.2	1.17	SD-DUW06	SD2B-DUW06-0080	0	0
Method: *PSEP, 1986*										
Balance-Fractional %	%, dry wt.	36 / 36	100%	0	4	1.17	SD-DUW06	SD2B-DUW06-0000C	0	0
Fines (percent silt+clay)	%, dry wt.	40 / 40	100%	1	77	32.2	SD-DUW53	SD2B-DUW53-0080	0	0
Fractional % phi 0-1 (500-1000µm)	%, dry wt.	44 / 44	100%	0	41	11.2	SD-DUW13D	SD2B-DUW13-5094	0	0
Fractional % phi -1-0 (1000-2000µm)	%, dry wt.	43 / 43	100%	0	7	1.58	SD-DUW16	SD2B-DUW16-0000C	0	0
Fractional % phi 10+ (<0.98µm)	%, dry wt.	35 / 35	100%	0	6	2.00	SD-DUW52	SD2B-DUW52-0080	0	0
Fractional % phi 1-2 (250-500µm)	%, dry wt.	44 / 44	100%	1	63	30.4	SD-DUW51	SD2B-DUW51-0026	0	0
Fractional % phi 2-3 (125-250µm)	%, dry wt.	44 / 44	100%	3	35	14.6	SD-DUW15	SD2B-DUW15-0080	0	0
Fractional % phi 3-4 (62.5-125µm)	%, dry wt.	41 / 41	100%	1	30	12.2	SD-01001	SD2B-01001-0040	0	0
Fractional % phi 4-5 (31.2-62.5µm)	%, dry wt.	40 / 40	100%	0	23	9.20	SD-DUW53	SD2B-DUW53-0080	0	0
Fractional % phi 5-6 (15.6-31.2µm)	%, dry wt.	36 / 36	100%	0	25	9.33	SD-DUW52	SD2B-DUW52-0000C	0	0
Fractional % phi 6-7 (7.8-15.6µm)	%, dry wt.	37 / 37	100%	0	17	6.68	SD-DUW13	SD2B-DUW13-0000C	0	0
Fractional % phi 7-8 (3.9-7.8µm)	%, dry wt.	35 / 35	100%	0	9	3.29	SD-01001	SD2B-01001-0000C	0	0
Fractional % phi 8-9 (1.95-3.9µm)	%, dry wt.	36 / 36	100%	0	5	1.89	SD-DUW52	SD2B-DUW52-0080	0	0
Fractional % phi 9-10 (0.98-1.95µm)	%, dry wt.	36 / 36	100%	0	3	1.19	SD-DUW06	SD2B-DUW06-0000C	0	0
Fractional % Sieve #10 (2000-4750µm)	%, dry wt.	40 / 40	100%	0	7	0.775	SD-DUW28	SD2B-DUW28-0000C	0	0
Fractional % Sieve #4 (>4750µm)	%, dry wt.	38 / 38	100%	0	10	0.947	SD-DUW28	SD2B-DUW28-0000C	0	0
Sand (percent)	%, dry wt.	44 / 44	100%	23	100	69.2	SD-DUW39	SD2B-DUW39-0040	0	0

Table A-35. Summary of surface sediment chemistry from Harbor Island Phase II RI (Harbor Island RI)

Event Start Date: *9/24/91*
Event Stop Date: *10/31/91*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*										
Aluminum	mg/kg, dry wt.	24 / 24	100%	31700	50600	40400	K-02	K-02-D2-A	0	0
Antimony	mg/kg, dry wt.	18 / 18	100%	1.9	6.2	3.47	E-01	E-01	0	0
Arsenic	mg/kg, dry wt.	38 / 38	100%	5.2	20.6	10.6	E-01	E-01	0	0
Barium	mg/kg, dry wt.	24 / 24	100%	68.4	154	106	E-23	E-23	0	0
Beryllium	mg/kg, dry wt.	4 / 22	18%	0.43	0.56	0.515	K-02	K-02-D2-A	0.12	0.13
Calcium (total)	mg/kg, dry wt.	24 / 24	100%	6770	11500	9320	E-15	E-15-D2	0	0
Chromium	mg/kg, dry wt.	24 / 24	100%	35.9	56.7	43.8	E-08	E-08	0	0
Cobalt	mg/kg, dry wt.	24 / 24	100%	9.3	16.4	12.2	K-02	K-02-D2-A	0	0
Copper	mg/kg, dry wt.	38 / 38	100%	50.1	325	102	K-02-1	K-02-1	0	0
Iron	mg/kg, dry wt.	24 / 24	100%	3550	45100	36600	K-02	K-02-D2-A	0	0
Lead	mg/kg, dry wt.	38 / 38	100%	13.5	118	50.6	E-08	E-08	0	0
Magnesium (total)	mg/kg, dry wt.	24 / 24	100%	1950	12400	9590	E-01	E-01	0	0
Manganese	mg/kg, dry wt.	24 / 24	100%	78	496	349	K-02	K-02-D2-A	0	0
Nickel	mg/kg, dry wt.	24 / 24	100%	21.3	29.6	26.1	E-11	E-11	0	0
Potassium (total)	mg/kg, dry wt.	24 / 24	100%	2880	6880	4070	K-02	K-02-D2-A	0	0
Sodium (total)	mg/kg, dry wt.	24 / 24	100%	2760	14700	12000	K-02	K-02-D2-A	0	0
Thallium (total)	mg/kg, dry wt.	22 / 24	92%	0.03	1	0.296	E-19	E-19	0.12	0.12
Vanadium	mg/kg, dry wt.	24 / 24	100%	64.1	121	81.6	K-02	K-02-D2-A	0	0
Zinc	mg/kg, dry wt.	37 / 37	100%	83.5	445	143	E-11	E-11	0	0
Method: *EPA 7471*										
Mercury	mg/kg, dry wt.	38 / 38	100%	0.05	4.2	0.437	E-06	E-06-D2	0	0
Method: *EPA 8080*										
4,4'-DDD	ug/kg, dry wt.	0 / 38	0%	0	0				0.75	38
4,4'-DDE	ug/kg, dry wt.	1 / 38	3%	5.1	5.1	5.10	K-13	K-13	0.81	38
4,4'-DDT	ug/kg, dry wt.	1 / 38	3%	14	14	14.0	K-13	K-13	0.81	38
Aldrin	ug/kg, dry wt.	0 / 38	0%	0	0				0.37	19
alpha-BHC	ug/kg, dry wt.	0 / 38	0%	0	0				0.37	19
alpha-Chlordane	ug/kg, dry wt.	0 / 38	0%	0	0				3.7	190
alpha-Endosulfan	ug/kg, dry wt.	1 / 38	3%	5.2	5.2	5.20	K-13	K-13	0.4	19
Aroclor-1016	ug/kg, dry wt.	0 / 38	0%	0	0				3.7	190
Aroclor-1221	ug/kg, dry wt.	0 / 38	0%	0	0				3.7	190
Aroclor-1232	ug/kg, dry wt.	0 / 38	0%	0	0				3.7	190
Aroclor-1242	ug/kg, dry wt.	0 / 38	0%	0	0				3.7	190

Table A-35. Summary of surface sediment chemistry from Harbor Island Phase II RI (Harbor Island RI)

Event Start Date: *9/24/91*
Event Stop Date: *10/31/91*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8080*										
Aroclor-1248	ug/kg, dry wt.	19 / 38	50%	15	340	125	E-21	E-21	3.7	54
Aroclor-1254	ug/kg, dry wt.	32 / 38	84%	3.7	1100	177	E-21	E-21	7.5	100
Aroclor-1260	ug/kg, dry wt.	33 / 38	87%	8	1700	245	E-21	E-21	7.5	10
beta-BHC	ug/kg, dry wt.	0 / 38	0%	0	0				0.37	19
beta-Endosulfan	ug/kg, dry wt.	1 / 38	3%	2.2	2.2	2.20	K-13	K-13	0.81	38
delta-BHC	ug/kg, dry wt.	0 / 38	0%	0	0				0.37	19
Dieldrin	ug/kg, dry wt.	1 / 38	3%	1.6	1.6	1.60	K-13	K-13	0.81	38
Endosulfan sulfate	ug/kg, dry wt.	0 / 38	0%	0	0				0.75	38
Endrin	ug/kg, dry wt.	0 / 38	0%	0	0				0.75	38
Endrin aldehyde	ug/kg, dry wt.	0 / 38	0%	0	0				0.75	38
Endrin ketone	ug/kg, dry wt.	0 / 38	0%	0	0				0.75	38
gamma-BHC	ug/kg, dry wt.	0 / 38	0%	0	0				0.37	19
gamma-Chlordane	ug/kg, dry wt.	0 / 38	0%	0	0				3.7	190
Heptachlor	ug/kg, dry wt.	6 / 38	16%	1.4	5.2	2.30	K-03	K-03-D1	0.4	19
Heptachlor epoxide	ug/kg, dry wt.	0 / 38	0%	0	0				0.37	19
Methoxychlor	ug/kg, dry wt.	0 / 38	0%	0	0				3.7	190
PCBs (total-calc'd)	ug/kg, dry wt.	33 / 38	87%	30.7	3140	489	E-21	E-21	7.5	10
Toxaphene	ug/kg, dry wt.	0 / 38	0%	0	0				7.5	380
Method: *EPA 8260*										
1,1,1-Trichloroethane	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
1,1,2,2-Tetrachloroethane	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
1,1,2-Trichloroethane	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
1,1-Dichloroethane	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
1,1-Dichloroethene	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
1,2-Dichloroethane	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
1,2-Dichloroethene (total)	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
1,2-Dichloropropane	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
2-Hexanone	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Acetone	ug/kg, dry wt.	1 / 6	17%	29	29	29.0	E-15	E-15-D2	43	180
Benzene	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Bromodichloromethane	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Bromoform	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Bromomethane	ug/kg, dry wt.	0 / 6	0%	0	0				15	24

Table A-35. Summary of surface sediment chemistry from Harbor Island Phase II RI (Harbor Island RI)

Event Start Date: *9/24/91*
Event Stop Date: *10/31/91*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8260*										
Carbon disulfide	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Carbon tetrachloride	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Chlorobenzene	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Chloroethane	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Chloroform	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Chloromethane	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
cis-1,3-Dichloropropene	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Dibromochloromethane	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Ethylbenzene	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Styrene	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Tetrachloroethene	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Toluene	ug/kg, dry wt.	3 / 6	50%	3	7	4.67	E-15	E-15-D2	21	24
trans-1,3-Dichloropropene	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Trichloroethene	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Vinyl chloride	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Xylene (total)	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Method: *EPA 8270*										
1,2,4-Trichlorobenzene	ug/kg, dry wt.	5 / 31	16%	8	53	19.2	E-03	E-03	190	4100
1,2-Dichlorobenzene	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
1,3-Dichlorobenzene	ug/kg, dry wt.	4 / 31	13%	4	42	16.0	E-08	E-08	150	4100
1,4-Dichlorobenzene	ug/kg, dry wt.	6 / 31	19%	36	320	110	E-08	E-08	150	4100
2,4,5-Trichlorophenol	ug/kg, dry wt.	0 / 31	0%	0	0				370	10000
2,4,6-Trichlorophenol	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
2,4-Dichlorophenol	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
2,4-Dimethylphenol	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
2,4-Dinitrophenol	ug/kg, dry wt.	0 / 31	0%	0	0				370	10000
2,4-Dinitrotoluene	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
2,6-Dinitrotoluene	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
2-Chloronaphthalene	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
2-Chlorophenol	ug/kg, dry wt.	1 / 31	3%	62	62	62.0	E-03	E-03	150	4100
2-Methylnaphthalene	ug/kg, dry wt.	21 / 31	68%	0	130	43.4	K-13	K-13	600	4100
2-Methylphenol	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
2-Nitroaniline	ug/kg, dry wt.	0 / 31	0%	0	0				370	10000

Table A-35. Summary of surface sediment chemistry from Harbor Island Phase II RI (Harbor Island RI)

Event Start Date: *9/24/91*
Event Stop Date: *10/31/91*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
2-Nitrophenol	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
3,3'-Dichlorobenzidine	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
3-Nitroaniline	ug/kg, dry wt.	0 / 31	0%	0	0				370	10000
4,6-Dinitro-o-cresol	ug/kg, dry wt.	0 / 31	0%	0	0				370	10000
4-Bromophenyl phenyl ether	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
4-Chloro-3-methylphenol	ug/kg, dry wt.	2 / 31	6%	0	68	34.0	E-03	E-03	150	4100
4-Chloroaniline	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
4-Chlorophenyl phenyl ether	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
4-Methylphenol	ug/kg, dry wt.	7 / 31	23%	8	22	17.9	E-12	E-12	150	4100
4-Nitroaniline	ug/kg, dry wt.	0 / 31	0%	0	0				370	10000
4-Nitrophenol	ug/kg, dry wt.	0 / 31	0%	0	0				370	10000
Acenaphthene	ug/kg, dry wt.	20 / 31	65%	17	430	82.0	K-13	K-13	400	4100
Acenaphthylene	ug/kg, dry wt.	14 / 31	45%	10	51	21.5	E-07	E-07	290	4100
Anthracene	ug/kg, dry wt.	30 / 31	97%	56	1400	196	K-13	K-13	2000	2000
Benzo(a)anthracene	ug/kg, dry wt.	31 / 31	100%	94	2200	481	E-07	E-07	0	0
Benzo(a)pyrene	ug/kg, dry wt.	31 / 31	100%	60	750	324	E-07	E-07	0	0
Benzo(b)fluoranthene	ug/kg, dry wt.	27 / 31	87%	43	1400	465	E-07	E-07	165	450
Benzo(g,h,i)perylene	ug/kg, dry wt.	14 / 31	45%	90	360	218	E-13	E-13	190	4100
Benzo(k)fluoranthene	ug/kg, dry wt.	27 / 31	87%	43	1400	422	E-07	E-07	165	450
bis(2-chloroethoxy)methane	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
bis(2-chloroethyl)ether	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
bis(2-ethylhexyl)phthalate	ug/kg, dry wt.	15 / 31	48%	370	4400	1100	E-08	E-08	150	1800
bis-chloroisopropyl ether	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
Butyl benzyl phthalate	ug/kg, dry wt.	13 / 31	42%	0	1200	126	E-17	E-17	150	4100
Caffeine	ug/kg, dry wt.	1 / 30	3%	1500	1500	1500	K-13	K-13	150	4100
Carbazole	ug/kg, dry wt.	11 / 31	35%	17	2000	264	E-11	E-11	170	4100
Chrysene	ug/kg, dry wt.	31 / 31	100%	130	2100	652	E-07	E-07	0	0
Coprostanol	ug/kg, dry wt.	5 / 24	21%	890	2800	1430	E-08	E-08	170	4100
Dibenzo(a,h)anthracene	ug/kg, dry wt.	1 / 31	3%	54	54	54.0	E-15	E-15	150	4100
Dibenzofuran	ug/kg, dry wt.	12 / 31	39%	33	360	93.5	K-13	K-13	170	4100
Dichloromethane	ug/kg, dry wt.	0 / 6	0%	0	0				17	53
Diethyl phthalate	ug/kg, dry wt.	2 / 31	6%	0	10	5.00	K-13	K-13	44	4100
Dimethyl phthalate	ug/kg, dry wt.	6 / 31	19%	10	1400	250	K-12	K-12	150	4100

Table A-35. Summary of surface sediment chemistry from Harbor Island Phase II RI (Harbor Island RI)

Event Start Date: *9/24/91*
Event Stop Date: *10/31/91*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
Di-n-butyl phthalate	ug/kg, dry wt.	7 / 31	23%	18	420	115	E-08	E-08	150	4100
Di-n-octyl phthalate	ug/kg, dry wt.	5 / 31	16%	9	50	25.8	E-02	E-02	170	4100
Fluoranthene	ug/kg, dry wt.	31 / 31	100%	280	8200	1210	E-07	E-07	0	0
Fluorene	ug/kg, dry wt.	26 / 31	84%	32	640	102	K-13	K-13	400	2000
Hexachlorobenzene	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
Hexachlorobutadiene	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
Hexachlorocyclopentadiene	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
Hexachloroethane	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
Indeno(1,2,3-cd)pyrene	ug/kg, dry wt.	17 / 31	55%	81	320	180	E-17	E-17	190	4100
Isophorone	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
Methyl ethyl ketone	ug/kg, dry wt.	2 / 6	33%	24	24	24.0	K-02	K-02-B	15	23
Methyl iso-butyl ketone	ug/kg, dry wt.	0 / 6	0%	0	0				15	24
Naphthalene	ug/kg, dry wt.	20 / 31	65%	18	290	75.4	E-13	E-13	290	4100
Nitrobenzene	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
N-Nitroso-di-n-propylamine	ug/kg, dry wt.	1 / 31	3%	0	0	0.00	E-12	E-12	150	4100
N-Nitrosodiphenylamine	ug/kg, dry wt.	0 / 31	0%	0	0				150	4100
Pentachlorophenol	ug/kg, dry wt.	0 / 31	0%	0	0				370	10000
Phenanthrene	ug/kg, dry wt.	31 / 31	100%	150	4000	596	E-07	E-07	0	0
Phenol	ug/kg, dry wt.	18 / 31	58%	62	3600	1030	K-07	K-07	150	2000
Pyrene	ug/kg, dry wt.	31 / 31	100%	160	4700	1070	E-07	E-07	0	0
Retene	ug/kg, dry wt.	6 / 31	19%	34	1500	316	K-13	K-13	170	4100
Total HPAH (calc'd)	ug/kg, dry wt.	31 / 31	100%	894	21200	4710	E-07	E-07	0	0
Total LPAH (calc'd)	ug/kg, dry wt.	31 / 31	100%	237	5385	982	K-13	K-13	0	0
Method: *EPA 8440*										
Gasoline	mg/kg, dry wt.	0 / 32	0%	0	0				10	10
Lube Oils	mg/kg, dry wt.	11 / 32	34%	290	1200	561	E-11	E-11	10	10
TPH - Diesel #2 Range	mg/kg, dry wt.	2 / 32	6%	93	110	102	E-11	E-11	10	59
Method: *EPA 9030B*										
Cyanide	mg/kg, dry wt.	2 / 24	8%	0.45	0.52	0.485	E-06	E-06-D2	0.37	0.55
Sulfides (total)	mg/kg, dry wt.	26 / 26	100%	2	330	32.0	K-08	K-08	0	0
Method: *Krone et al. 1989*										
Tributyltin	ug/kg, dry wt.	32 / 32	100%	66	7748	939	E-17	E-17	0	0
Method: *PSEP, 1986*										

Table A-35. Summary of surface sediment chemistry from Harbor Island Phase II RI (Harbor Island RI)

Event Start Date: *9/24/91*
Event Stop Date: *10/31/91*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *PSEP, 1986*										
Clay (percent)	%, dry wt.	30 / 30	100%	9	37	26.5	E-14	E-14	0	0
Fines (percent silt+clay)	%, dry wt.	30 / 30	100%	18	97	78.1	K-07	K-07	0	0
Sand (percent)	%, dry wt.	30 / 30	100%	3	82	21.9	K-06	K-06	0	0
Silt (percent)	%, dry wt.	30 / 30	100%	10	69	51.8	K-07	K-07	0	0
Method: *SM 5310-B*										
Total Organic Carbon (TOC)	mg/kg, dry wt.	38 / 38	100%	4520	38000	17400	K-03	K-03-D2-A	0	0

Table A-36. Summary of sediment porewater chemistry from Harbor Island Phase II RI (Harbor Island RI)

Event Start Date: 9/24/91 *Event Stop Date:* 10/31/91 ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 6010*										
Chromium VI	ug/L	1 / 39	3%	13.5	13.5	13.5	K-10	K-10-D2	1	100
Method: *EPA 8260*										
1,1,1-Trichloroethane	ug/L	0 / 3	0%	0	0				10	20
1,1,2,2-Tetrachloroethane	ug/L	0 / 3	0%	0	0				10	20
1,1,2-Trichloroethane	ug/L	0 / 3	0%	0	0				10	20
1,1-Dichloroethane	ug/L	0 / 3	0%	0	0				10	20
1,1-Dichloroethene	ug/L	0 / 3	0%	0	0				10	20
1,2-Dichloroethane	ug/L	0 / 3	0%	0	0				10	20
1,2-Dichloroethene (total)	ug/L	0 / 3	0%	0	0				10	20
1,2-Dichloropropane	ug/L	0 / 3	0%	0	0				10	20
2-Hexanone	ug/L	0 / 3	0%	0	0				10	20
Acetone	ug/L	2 / 3	67%	10	270	140	K-04	K-04-D2	10	10
Benzene	ug/L	0 / 3	0%	0	0				10	20
Bromodichloromethane	ug/L	0 / 3	0%	0	0				10	20
Bromoform	ug/L	0 / 3	0%	0	0				10	20
Bromomethane	ug/L	0 / 3	0%	0	0				10	20
Carbon disulfide	ug/L	0 / 3	0%	0	0				10	20
Carbon tetrachloride	ug/L	0 / 3	0%	0	0				10	20
Chlorobenzene	ug/L	0 / 3	0%	0	0				10	20
Chloroethane	ug/L	0 / 3	0%	0	0				10	20
Chloroform	ug/L	0 / 3	0%	0	0				10	20
Chloromethane	ug/L	0 / 3	0%	0	0				10	20
cis-1,3-Dichloropropene	ug/L	0 / 3	0%	0	0				10	20
Dibromochloromethane	ug/L	0 / 3	0%	0	0				10	20
Ethylbenzene	ug/L	0 / 3	0%	0	0				10	20
Styrene	ug/L	0 / 3	0%	0	0				10	20
Tetrachloroethene	ug/L	0 / 3	0%	0	0				10	20
Toluene	ug/L	0 / 3	0%	0	0				10	20
trans-1,3-Dichloropropene	ug/L	0 / 3	0%	0	0				10	20
Trichloroethene	ug/L	0 / 3	0%	0	0				10	20
Vinyl chloride	ug/L	0 / 3	0%	0	0				10	20
Xylene (total)	ug/L	0 / 3	0%	0	0				10	20
Method: *EPA 8270*										

Table A-36. Summary of sediment porewater chemistry from Harbor Island Phase II RI (Harbor Island RI)

Event Start Date: *9/24/91*
Event Stop Date: *10/31/91*

ParameterName	Units	Det. Freq.		Detected Concentration Summary					Reporting Limit Summary	
				Min	Max	Average	Location of Max	Sample ID of Max.	Min	Max
Method: *EPA 8270*										
Dichloromethane	ug/L	3 / 3	100%	4	110	40.0	K-04	K-04-D2	0	0
Methyl ethyl ketone	ug/L	0 / 3	0%	0	0				10	20
Methyl iso-butyl ketone	ug/L	0 / 3	0%	0	0				10	20