Table 5-7
Summary Statistics for Dioxin and Furan Concentrations in Surface Sediment Samples from within USEPA's Preliminary Site Perimeter

Analyte	Number of Samples[a]	Number of Detected Measurements	Detection Frequency	Minimum (ng/kg dw)	Maximum (ng/kg dw)	Mean (ng/kg dw)
2,3,7,8-TCDD	159	119	75%	0.0403	21,500	625
1,2,3,7,8-PeCDD	159	46	29%	0.016	175	6.83
1,2,3,4,7,8-HxCDD	159	53	33%	0.0221	70	1.12
1,2,3,6,7,8-HxCDD	159	93	58%	0.0233	50	1.55
1,2,3,7,8,9-HxCDD	159	91	57%	0.023	165	2.90
1,2,3,4,6,7,8-HpCDD	159	155	97%	0.921	290	33.1
OCDD	159	157	99%	19.4	4,870	869
2,3,7,8-TCDF	159	153	96%	0.0422	95,000	2,010
1,2,3,7,8-PeCDF	159	86	54%	0.00875	8,880	109
2,3,4,7,8-PeCDF	159	80	50%	0.0114	3,360	58.2
1,2,3,4,7,8-HxCDF	159	111	70%	0.00555	9,650	152
1,2,3,6,7,8-HxCDF	159	86	54%	0.0054	1,790	33.6
1,2,3,7,8,9-HxCDF	159	25	16%	0.00865	290	5.14
2,3,4,6,7,8-HxCDF	159	52	33%	0.00575	478	8.53
1,2,3,4,6,7,8-HpCDF	159	138	87%	0.0165	1,000	36.6
1,2,3,4,7,8,9-HpCDF	159	57	36%	0.0106	364	13.2
OCDF	159	145	91%	0.053	650	47.3
$TEQ_{DF,M}$	159	159	100%	0.129	31,600	875

Notes

For all calculations, concentrations below the detection limit were set to one-half the detection limit.

$TEQ_{DF,M}$ (ND=1/2DL) = Toxicity equivalent for 2,3,7,8-TCDD calculated using dioxins and furans and mammalian toxicity equivalency factors (Van den Berg et al. 2006) with non detects set at one-half the detection limit.

dw = dry weight

USEPA = U.S. Environmental Protection Agency

a - The number of samples used in these calculations may differ from numbers shown in other tables because of the criteria used to select data. For this analysis, "surface sediment" samples were those with an upper depth of 0 inches were used, regardless of the total depth.