

Table 7

Mean and Maximum Concentrations of COCs in Sediment and Biota
Mercury Refining Company
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Sediment COCs	Rensselaer Lake		Inga's Pond		Background - Unnamed Tributary		Unnamed Tributary		Background - Patroon Creek		Patroon Creek Downstream of Confluence		I-90 Pond	
COC	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max	mean	max
Mercury (total)	0.31	0.31	0.33	0.33	0.06	0.09	1.29	9	0.03	0.03	0.16	0.43	0.77	2.6
Mercury (methyl)	No	Data	0.00124	0.00124	0.000295	0.00033	0.002347	0.0091	0.00057	0.00101	0.000373	0.00122	0.001434	0.00478
Vanadium	39.1	39.1	51.4	51.4	10.5	13	11	15	6.35	6.7	8.97	12.4	18.6	32.9
Aroclor-1260	nd	nd	nd	nd	410	410	nd	nd	nd	nd	nd	nd	2750	4400
Benzo(a)pyrene	nd	nd	6600	6600	895	980	194	500	31.5	44	650	2000	2132	3600
Benzo(k)fluoranthene	nd	nd	4800	4800	775	1200	198	710	26	26	449.7	1200	1425	2400
PAHs (total)	nd	nd	83560	83560	15450	15450	3251	9733	359	587	8759.3	25300	13325	18980

Note:

Mean values of Aroclor-1260 based on detected values only (nd not included)

All values are in mg/kg

max: maximum

Biota COCs		Fish	Frog	Crayfish	Aquatic Invertebrates*
Rensselaer Lake	mean total Hg	No Data	nd	nd	nd
	mean methyl Hg	No Data	nd	nd	nd
	mean Aroclor-1260	No Data	No Data	No Data	No Data
Inga's Pond	mean total Hg	0.118	No Data	nd	nd
	mean methyl Hg	0.118	No Data	nd	nd
	mean Aroclor-1260	0.1625	nd	nd	nd
Background - Unnamed Tributary	mean total Hg	0.048	No Data	0.092	0.13
	mean methyl Hg	0.048	No Data	0.092	0.13
	mean Aroclor-1260	0.060	No Data	nd	No Data
Unnamed Trib.	mean total Hg	0.175	0.92	0.61	0.24
	mean methyl Hg	0.175	0.92	0.61	0.24
	mean Aroclor-1260	0.0947	No Data	No Data	No Data
Background - Patroon Creek	mean total Hg	No Data	No Data	nd	nd
	mean methyl Hg	No Data	No Data	nd	nd
	mean Aroclor-1260	No Data	No Data	nd	No Data
Patroon Creek Downstream of Confluence	mean total Hg	No Data	No Data	0.087	0.18
	mean methyl Hg	No Data	No Data	0.087	0.18
	mean Aroclor-1260	No Data	No Data	nd	No Data
I-90 Pond	mean total Hg	0.102	nd	nd	0.13
	mean methyl Hg	0.102	No Data	nd	0.13

Notes:

All concentrations in mg/kg

Fish - combined, all species and sampling events

* - all aquatic invertebrates except crayfish (primarily insects)

All biota data based on combined 2001 and 2004 data sets

nd - sampled but COC not detected

No Data - receptor not observed or location not sampled

Concentrations of total Hg and methyl Hg are equal in biota - based on the assumption that all Hg in biota is methyl Hg

Hg - Mercury

mg/kg - milligram per kilogram

	mean Aroclor-1260	0.2469	nd	0.081	nd
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PAHs - Polycyclic aromatic hydrocarbons