Table A-2
Physical/Chemical Parameters

Constituent of Concern		Molecular Weight		Volatility Parameters					Density		Diffusivity in Air and Water			Partition Coefficients						Water Solubility		Tapwater Dermal Parameters				
	CAS No.	MW	MW Ref	H` (unitless)	HLC (atm-m^3/mole)	H` and HLC Ref	Vapor Pressure	VP Ref	Density (g/cm^3)	Density Ref	Dia (cm^2/s)	Diw (cm^2/s)	Dia Ref	K_d (L/kg)	K_d Ref	K_{oc} (L/kg)	K_{oc} Ref	log K_{ow} (L/kg)	log K_{ow} Ref	S (mg/L)	S Ref	B (unitless)	τ_{event} (hr/event)	t (hr)	K_p (cm/hr)	KPREF
Acenaphthene	83-32-9	1.5E+02	EPI	7.5E-03	1.8E-04	EPI	2.2E-03	EPI	1.2E+00	CRC89	5.1E-02	8.3E-06	WATER9 (U.S. EPA, 2001)			5.0E+03	EPI	3.9E+00	EPI	3.9E+00	EPI	4.1E-01	7.7E-01	1.8E+00	8.6E-02	EPI
Acetone	67-64-1	5.8E+01	EPI	1.4E-03	3.5E-05	EPI	2.3E+02	EPI	7.8E-01	CRC89	1.1E-01	1.2E-05	WATER9 (U.S. EPA, 2001)			2.4E+00	EPI	-2.4E-01	EPI	1.0E+06	EPI	1.5E-03	2.2E-01	5.3E-01	5.1E-04	EPI
Aldrin	309-00-2	3.6E+02	EPI	1.8E-03	4.4E-05	EPI	1.2E-04	EPI	1.6E+00	PubChem	2.3E-02	5.8E-06	WATER9 (U.S. EPA, 2001)			8.2E+04	EPI	6.5E+00	EPI	1.7E-02	EPI	2.2E+00	1.2E+01	4.8E+01	2.9E-01	EPI
Aniline	62-53-3	9.3E+01	EPI	8.3E-05	2.0E-06	EPI	6.7E-01	EPI	1.0E+00	CRC89	8.3E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			7.0E+01	EPI	9.0E-01	EPI	3.6E+04	EPI	6.9E-03	3.5E-01	8.4E-01	1.9E-03	EPI
Anthracene	120-12-7	1.8E+02	EPI	2.3E-03	5.6E-05	EPI	6.5E-06	EPI	1.3E+00	CRC89	3.9E-02	7.9E-06	WATER9 (U.S. EPA, 2001)			1.6E+04	EPI	4.5E+00	EPI	4.3E-02	EPI	7.3E-01	1.0E+00	4.1E+00	1.4E-01	EPI
Antimony (metallic)	7440-36-0	1.2E+02	CRC89				0.0E+00	NIOSH	6.7E+00	CRC89				4.5E+01	SSL							4.2E-03	5.1E-01	1.2E+00	1.0E-03	RAGSE
Arsenic, Inorganic	7440-38-2	7.5E+01	CRC89						4.9E+00	CRC89				2.9E+01	SSL							3.3E-03	2.8E-01	6.6E-01	1.0E-03	RAGSE
Barium	7440-39-3	1.4E+02	EPI						3.6E+00	CRC89				4.1E+01	SSL							4.5E-03	6.2E-01	1.5E+00	1.0E-03	RAGSE
Benz[a]anthracene	56-55-3	2.3E+02	EPI	4.9E-04	1.2E-05	EPI	2.1E-07	EPI	1.3E+00	PubChem	2.6E-02	6.7E-06	WATER9 (U.S. EPA, 2001)			1.8E+05	EPI	5.8E+00	EPI	9.4E-03	EPI	3.2E+00	2.0E+00	8.5E+00	5.5E-01	EPI
Benzene	71-43-2	7.8E+01	EPI	2.3E-01	5.6E-03	EPI	9.5E+01	EPI	8.8E-01	CRC89	9.0E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			1.5E+02	EPI	2.1E+00	EPI	1.8E+03	EPI	5.1E-02	2.9E-01	6.9E-01	1.5E-02	EPI
Benzo[a]pyrene	50-32-8	2.5E+02	EPI	1.9E-05	4.6E-07	EPI	5.5E-09	EPI			4.8E-02	5.6E-06	WATER9 (U.S. EPA, 2001)			5.9E+05	EPI	6.1E+00	EPI	1.6E-03	EPI	4.4E+00	2.7E+00	1.2E+01	7.1E-01	EPI
Benzo[b]fluoranthene	205-99-2	2.5E+02	EPI	2.7E-05	6.6E-07	EPI	5.0E-07	EPI			4.8E-02	5.6E-06	WATER9 (U.S. EPA, 2001)			6.0E+05	EPI	5.8E+00	EPI	1.5E-03	EPI	2.5E+00	2.7E+00	1.1E+01	4.2E-01	EPI
Benzo[k]fluoranthene	207-08-9	2.5E+02	EPI	2.4E-05	5.8E-07	EPI	9.7E-10	EPI			4.8E-02	5.6E-06	WATER9 (U.S. EPA, 2001)			5.9E+05	EPI	6.1E+00	EPI	8.0E-04	EPI	4.2E+00	2.7E+00	1.2E+01	6.9E-01	EPI
Beryllium and compounds	7440-41-7	9.0E+00	EPI				0.0E+00	NIOSH	1.9E+00	CRC89				7.9E+02	SSL							1.2E-03	1.2E-01	2.8E-01	1.0E-03	RAGSE
Biphenyl, 1,1'-	92-52-4	1.5E+02	EPI	1.3E-02	3.1E-04	EPI	8.9E-03	EPI	1.0E+00	CRC89	4.7E-02	7.6E-06	WATER9 (U.S. EPA, 2001)			5.1E+03	EPI	4.0E+00	EPI	6.9E+00	EPI	4.5E-01	7.7E-01	1.8E+00	9.4E-02	EPI
Bis(2-chloroethyl)ether	111-44-4	1.4E+02	EPI	7.0E-04	1.7E-05	EPI	1.6E+00	EPI	1.2E+00	CRC89	5.7E-02	8.7E-06	WATER9 (U.S. EPA, 2001)			3.2E+01	EPI	1.3E+00	EPI	1.7E+04	EPI	8.2E-03	6.6E-01	1.6E+00	1.8E-03	EPI
Bis(2-ethylhexyl)phthalate	117-81-7	3.9E+02	EPI	1.1E-05	2.7E-07	EPI	1.4E-07	EPI	9.8E-01	CRC89	1.7E-02	4.2E-06	WATER9 (U.S. EPA, 2001)			1.2E+05	EPI	7.6E+00	EPI	2.7E-01	EPI	8.6E+00	1.6E+01	7.3E+01	1.1E+00	EPI
Bromodichloromethane	75-27-4	1.6E+02	EPI	8.7E-02	2.1E-03	EPI	5.0E+01	EPI	2.0E+00	CRC89	5.6E-02	1.1E-05	WATER9 (U.S. EPA, 2001)			3.2E+01	EPI	2.0E+00	EPI	3.0E+03	EPI	2.0E-02	8.7E-01	2.1E+00	4.0E-03	EPI
Bromoform	75-25-2	2.5E+02	EPI	2.2E-02	5.4E-04	EPI	5.4E+00	EPI	2.9E+00	CRC89	3.6E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			3.2E+01	EPI	2.4E+00	EPI	3.1E+03	EPI	1.4E-02	2.7E+00	6.6E+00	2.4E-03	EPI
Bromomethane	74-83-9	9.5E+01	EPI	3.0E-01	7.3E-03	EPI	1.6E+03	EPI	1.7E+00	CRC89	1.0E-01	1.4E-05	WATER9 (U.S. EPA, 2001)			1.3E+01	EPI	1.2E+00	EPI	1.5E+04	EPI	1.1E-02	3.6E-01	8.6E-01	2.8E-03	EPI
Butyl Benzyl Phthlate	85-68-7	3.1E+02	EPI	5.2E-05	1.3E-06	EPI	8.3E-06	EPI	1.1E+00	CRC89	2.1E-02	5.2E-06	WATER9 (U.S. EPA, 2001)			7.2E+03	EPI	4.7E+00	EPI	2.7E+00	EPI	2.6E-01	5.9E+00	1.4E+01	3.9E-02	EPI
Cadmium (Diet)	7440-43-9	1.1E+02	EPI				0.0E+00	NIOSH	8.7E+00	CRC89				7.5E+01	SSL							4.1E-03	4.5E-01	1.1E+00	1.0E-03	RAGSE
Cadmium (Water)	7440-43-9	1.1E+02	EPI				0.0E+00	NIOSH	8.7E+00	CRC89				7.5E+01	SSL							4.1E-03	4.5E-01	1.1E+00	1.0E-03	RAGSE
Carbon Disulfide	75-15-0	7.6E+01	EPI	5.9E-01	1.4E-02	EPI	3.6E+02	EPI	1.3E+00	CRC89	1.1E-01	1.3E-05	WATER9 (U.S. EPA, 2001)			2.2E+01	EPI	1.9E+00	EPI	2.2E+03	EPI	3.8E-02	2.8E-01	6.7E-01	1.1E-02	EPI
Carbon Tetrachloride	56-23-5	1.5E+02	EPI	1.1E+00	2.8E-02	EPI	1.2E+02	EPI	1.6E+00	CRC89	5.7E-02	9.8E-06	WATER9 (U.S. EPA, 2001)			4.4E+01	EPI	2.8E+00	EPI	7.9E+02	EPI	7.8E-02	7.6E-01	1.8E+00	1.6E-02	EPI
Chlordane	12789-03-6	4.1E+02	EPI	2.9E-03	7.0E-05	EPI	1.0E-05	EPI	1.6E+00	PubChem	2.1E-02	5.4E-06	WATER9 (U.S. EPA, 2001)			3.4E+04	EPI	6.3E+00	OTHER	1.3E-02	PhysProp	8.3E-01	2.1E+01	8.0E+01	1.1E-01	EPI
Chloroaniline, p-	106-47-8	1.3E+02	EPI	4.7E-05	1.2E-06	EPI	2.7E-02	EPI	1.4E+00	CRC89	7.0E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			1.1E+02	EPI	1.8E+00	EPI	3.9E+03	EPI	2.2E-02	5.4E-01	1.3E+00	5.0E-03	EPI
Chlorobenzene	108-90-7	1.1E+02	EPI	1.3E-01	3.1E-03	EPI	1.2E+01	EPI	1.1E+00	CRC89	7.2E-02	9.5E-06	WATER9 (U.S. EPA, 2001)			2.3E+02	EPI	2.8E+00	EPI	5.0E+02	EPI	1.2E-01	4.5E-01	1.1E+00	2.8E-02	EPI
Chloroform	67-66-3	1.2E+02	EPI	1.5E-01	3.7E-03	EPI	2.0E+02	EPI	1.5E+00	CRC89	7.7E-02	1.1E-05	WATER9 (U.S. EPA, 2001)			3.2E+01	EPI	2.0E+00	EPI	8.0E+03	EPI	2.9E-02	4.9E-01	1.2E+00	6.8E-03	EPI
Chloromethane	74-87-3	5.0E+01	EPI	3.6E-01	8.8E-03	EPI	4.3E+03	EPI	9.1E-01	CRC89	1.2E-01	1.4E-05	WATER9 (U.S. EPA, 2001)			1.3E+01	EPI	9.1E-01	EPI	5.3E+03	EPI	9.0E-03	2.0E-01	4.8E-01	3.3E-03	EPI
Chloronaphthalene, Beta-	91-58-7	1.6E+02	EPI	1.3E-02	3.2E-04	EPI	1.2E-02	EPI	1.1E+00	CRC89	4.5E-02	7.7E-06	WATER9 (U.S. EPA, 2001)			2.5E+03	EPI	3.9E+00	EPI	1.2E+01	EPI	3.7E-01	8.6E-01	2.1E+00	7.5E-02	EPI
Chlorophenol, 2-	95-57-8	1.3E+02	EPI	4.6E-04	1.1E-05	EPI	2.5E+00	EPI	1.3E+00	CRC89	6.6E-02	9.5E-06	WATER9 (U.S. EPA, 2001)			3.1E+02	EPI	2.2E+00	EPI	1.1E+04	EPI	3.5E-02	5.5E-01	1.3E+00	8.0E-03	EPI
Chromium(III), Insoluble Salts	16065-83-1	5.2E+01	EPI						5.2E+00	CRC89				1.8E+06	SSL							2.8E-03	2.1E-01	4.9E-01	1.0E-03	RAGSE
Chromium(VI)	18540-29-9	5.2E+01	EPI											1.9E+01	SSL					1.7E+06	CRC89	5.5E-03	2.1E-01	4.9E-01	2.0E-03	RAGSE
Chrysene	218-01-9	2.3E+02	EPI	2.1E-04	5.2E-06	EPI	6.2E-09	EPI	1.3E+00	CRC89	2.6E-02	6.7E-06	WATER9 (U.S. EPA, 2001)			1.8E+05	EPI	5.8E+00	EPI	2.0E-03	EPI	3.5E+00	2.0E+00	8.5E+00	6.0E-01	EPI
Cobalt	7440-48-4	5.9E+01	EPI				0.0E+00	NIOSH	8.9E+00	CRC89				4.5E+01	BAES							1.2E-03	2.2E-01	5.4E-01	4.0E-04	RAGSE
Copper	7440-50-8	6.4E+01	EPI				0.0E+00	NIOSH	9.0E+00	CRC89				3.5E+01	BAES							3.1E-03	2.4E-01	5.7E-01	1.0E-03	RAGSE
Cyanide (CN-)	57-12-5	2.6E+01	OTHER	9.9E-01	2.4E-02	PHYSPROP	3.1E+02	PHYSPROP	7.0E-01	CHEM GUIDE	2.1E-01	2.5E-05	WATER9 (U.S. EPA, 2001)	9.9E+00	SSL					9.5E+04	PHYSPROP	2.0E-03	1.5E-01	3.5E-01	1.0E-03	RAGSE
DDD	72-54-8	3.2E+02	EPI	2.7E-04	6.6E-06	EPI	1.4E-06	EPI			4.1E-02	4.7E-06	WATER9 (U.S. EPA, 2001)			1.2E+05	EPI	6.0E+00	EPI	9.0E-02	EPI	1.7E+00	6.5E+00	2.6E+01	2.5E-01	EPI
DDE, p,p'-	72-55-9	3.2E+02	EPI	1.7E-03	4.2E-05	EPI	6.0E-06	EPI	1.4E+00	LookChem	2.3E-02	5.9E-06	WATER9 (U.S. EPA, 2001)			1.2E+05	EPI	6.5E+00	EPI	4.0E-02	EPI	3.7E+00	6.4E+00	2.7E+01	5.5E-01	EPI
DDT	50-29-3	3.5E+02	EPI	3.4E-04	8.3E-06	EPI	1.6E-07	EPI			3.8E-02	4.4E-06	WATER9 (U.S. EPA, 2001)			1.7E+05	EPI	6.9E+00	EPI	5.5E-03	EPI	4.5E+00	1.0E+01	4.4E+01	6.3E-01	EPI
Dibenz[a,h]anthracene	53-70-3	2.8E+02	EPI	5.8E-06	1.4E-07	EPI	9.6E-10	EPI			4.5E-02	5.2E-06	WATER9 (U.S. EPA, 2001)			1.9E+06	EPI	6.8E+00	EPI	2.5E-03	EPI	6.1E+00	3.8E+00	1.7E+01	9.5E-01	EPI
Dibromo-3-chloropropane, 1,2-	96-12-8	2.4E+02	EPI	6.0E-03	1.5E-04	EPI	5.8E-01	EPI	2.1E+00	CRC89	3.2E-02	8.9E-06	WATER9 (U.S. EPA, 2001)			1.2E+02	EPI	3.0E+00	EPI	1.2E+03	EPI	4.1E-02	2.2E+00	5.3E+00	6.9E-03	EPI
Dibromochloromethane	124-48-1	2.1E+02	EPI	3.2E-02	7.8E-04	EPI	1.6E+01	EPI	2.5E+00	CRC89	3.7E-02	1.1E-05	WATER9 (U.S. EPA, 2001)			3.2E+01	EPI	2.2E+00	EPI	2.7E+03	EPI	1.6E-02	1.5E+00	3.7E+00	2.9E-03	EPI
Dibromoethane, 1,2-	106-93-4	1.9E+02	EPI	2.7E-02	6.5E-04	EPI	1.1E+01	EPI	2.2E+00	CRC89	4.3E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			4.0E+01	EPI	2.0E+00	EPI	3.9E+03	EPI	1.5E-02	1.2E+00	2.8E+00	2.8E-03	EPI
Dibutyl Phthalate	84-74-2	2.8E+02	EPI	7.4E-05	1.8E-06	EPI	2.0E-05	EPI	1.0E+00	CRC89	2.1E-02	5.3E-06	WATER9 (U.S. EPA, 2001)			1.2E+03	EPI	4.5E+00	EPI	1.1E+01	EPI	2.7E-01	3.8E+00	9.1E+00	4.2E-02	EPI
Dichlorobenzene, 1,2-	95-50-1	1.5E+02	EPI	7.8E-02	1.9E-03	EPI	1.4E+00	EPI	1.3E+00	CRC89	5.6E-02	8.9E-06	WATER9 (U.S. EPA, 2001)			3.8E+02	EPI	3.4E+00	EPI	1.6E+02	EPI	2.1E-01	7.0E-01	1.7E+00	4.5E-02	EPI
Dichlorobenzene, 1,4-	106-46-7	1.5E+02	EPI	9.9E-02	2.4E-03	EPI	1.7E+00	EPI	1.2E+00	CRC89	5.5E-02	8.7E-06	WATER9 (U.S. EPA, 2001)			3.8E+02	EPI	3.4E+00	EPI	8.1E+01	EPI	2.1E-01	7.0E-01	1.7E+00	4.5E-02	EPI
Dichlorobenzidine, 3,3'-	91-94-1	2.5E+02	EPI	1.6E-07	4.0E-09	SSL	4.2E-06	EPI			4.7E-02	5.5E-06	WATER9 (U.S. EPA, 2001)			3.2E+03	EPI	3.5E+00	EPI	3.1E+00	EPI	7.8E-02	2.8E+00	6.6E+00	1.3E-02	EPI
Dichloroethane, 1,1-	75-34-3	9.9E+01	EPI	2.3E-01	5.6E-03	EPI	2.3E+02	EPI	1.2E+00	CRC89	8.4E-02	1.1E-05	WATER9 (U.S. EPA, 2001)			3.2E+01	EPI	1.8E+00	EPI	5.0E+03	EPI	2.6E-02	3.8E-01	9.0E-01	6.8E-03	EPI
Dichloroethane, 1,2-	107-06-2	9.9E+01	EPI	4.8E-02	1.2E-03	EPI	7.9E+01	EPI	1.2E+00	CRC89	8.6E-02	1.1E-05	WATER9 (U.S. EPA, 2001)			4.0E+01	EPI	1.5E+00	EPI	8.6E+03	EPI	1.6E-02	3.8E-01	9.0E-01	4.2E-03	EPI
Dichloroethylene, 1,1-	75-35-4	9.7E+01	EPI	1.1E+00	2.6E-02	EPI	6.0E+02	EPI	1.2E+00	CRC89	8.6E-02	1.1E-05	WATER9 (U.S. EPA, 2001)			3.2E+01	EPI	2.1E+00	EPI	2.4E+03	EPI	4.4E-02	3.7E-01	8.8E-01	1.2E-02	EPI
Dichloroethylene, 1,2-cis-	156-59-2	9.7E+01	EPI	1.7E-01	4.1E-03	EPI	2.0E+02	EPI	1.3E+00	CRC89	8.8E-02	1.1E-05	WATER9 (U.S. EPA, 2001)			4.0E+01	EPI	1.9E+00	EPI	6.4E+03	EPI	4.2E-02	3.7E-01	8.8E-01	1.1E-02	EPI
Dichloroethylene, 1,2-trans-	156-60-5	9.7E+01	EPI	3.9E-01	9.4E-03	SSL	3.3E+02	EPI	1.3E+00	CRC89	8.8E-02	1.1E-05	WATER9 (U.S. EPA, 2001)			4.0E+01	EPI	2.1E+00	EPI	4.5E+03	EPI	4.2E-02	3.7E-01	8.8E-01	1.1E-02	EPI
Dichlorophenol, 2,4-	120-83-2	1.6E+02	EPI	1.8E-04	4.3E-06	EPI	9.0E-02	EPI	1.4E+00	PERRY	4.9E-02	8.7E-06	WATER9 (U.S. EPA, 2001)			4.9E+02	EPI	3.1E+00	EPI	4.5E+03	EPI	1.0E-01	8.6E-01	2.1E+00	2.1E-02	EPI
Dichloropropene, 1,3-	542-75-6	1.1E+02	EPI	1.5E-01	3.6E-03	EPI	3.4E+01	EPI	1.2E+00	LANGE	7.6E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			7.2E+01	EPI	2.0E+00	EPI	2.8E+03	EPI	3.4E-02	4.4E-01	1.1E+00	8.3E-03	EPI
Dieldrin	60-57-1	3.8E+02	EPI	4.1E-04	1.0E-05	EPI	5.9E-06	EPI	1.8E+00	CRC89	2.3E-02	6.0E-06	WATER9 (U.S. EPA, 2001)			2.0E+04	EPI	5.4E+00	EPI	2.0E-01	EPI	2.4E-01	1.4E+01	3.4E+01	3.3E-02	EPI
Diethyl Phthalate	84-66-2	2.2E+02	EPI	2.5E-05	6.1E-07	EPI	2.1E-03	EPI	1.2E+00	CRC89	2.6E-02	6.7E-06	WATER9 (U.S. EPA, 2001)			1.0E+02	EPI	2.4E+00	EPI	1.1E+03	EPI	2.1E-02	1.8E+00	4.4E+00	3.6E-03	EPI
Dimethylphenol, 2,4-	105-67-9	1.2E+02	EPI	3.9E-05	9.5E-07	EPI	1.0E-01	EPI	9.7E-01	CRC89	6.2E-02	8.3E-06	WATER9 (U.S. EPA, 2001)			4.9E+02	EPI	2.3E+00	EPI	7.9E+03	EPI	4.6E-02	5.1E-01	1.2E+00	1.1E-02	EPI
Dinitrobenzene, 1,3-	99-65-0	1.7E+02	EPI	2.0E-06	4.9E-08	EPI	9.0E-04	EPI	1.6E+00	CRC89	4.8E-02	9.2E-06	WATER9 (U.S. EPA, 2001)			3.5E+02	EPI	1.5E+00	EPI	5.3E+02	EPI	8.7E-03	9.2E-01	2.2E+00	1.7E-03	EPI
Dinitrobenzene, 1,4-	100-25-4	1.7E+02	EPI	1.5E-05	3.7E-07	EPI	6.5E-05	EPI	1.6E+00	CRC89	4.9E-02	9.4E-06	WATER9 (U.S. EPA, 2001)			3.5E+02	EPI	1.5E+00	EPI	6.9E+01	EPI	8.3E-03	9.2E-01	2.2E+00	1.7E-03	EPI
Dinitrophenol, 2,4-	51-28-5	1.8E+02	EPI	3.5E-06	8.6E-08	EPI	3.9E-04	EPI	1.7E+00	CRC89	4.1E-02	9.1E-06	WATER9 (U.S. EPA, 2001)			4.6E+02	EPI	1.7E+00	EPI	2.8E+03	EPI	9.8E-03	1.1E+00	2.7E+00	1.9E-03	EPI
Dinitrotoluene, 2,4-	121-14-2	1.8E+02	EPI	2.2E-06	5.4E-08	EPI	1.5E-04	EPI	1.3E+00	CRC89	3.8E-02	7.9E-06	WATER9 (U.S. EPA, 2001)			5.8E+02	EPI	2.0E+00	EPI	2.0E+02	EPI	1.6E-02	1.1E+00	2.6E+00	3.1E-03	EPI

Table A-2
Physical/Chemical Parameters

Constituent of Concern		Molecular Weight		Volatility Parameters					Density		Diffusivity in Air and Water			Partition Coefficients						Water Solubility		Tapwater Dermal Parameters				
	CAS No.	MW	MW Ref	H` (unitless)	HLC (atm-m^3/mole)	H` and HLC Ref	Vapor Pressure	VP Ref	Density (g/cm^3)	Density Ref	Dia (cm^2/s)	Diw (cm^2/s)	Dia Ref	K_d (L/kg)	K_d Ref	K_{oc} (L/kg)	K_{oc} Ref	log K_{ow} (L/kg)	log K_{ow} Ref	S (mg/L)	S Ref	B (unitless)	τ_{event} (hr/event)	t (hr)	K_p (cm/hr)	KPREF
Dinitrotoluene, 2,6-	606-20-2	1.8E+02	EPI	3.1E-05	7.5E-07	EPI	5.7E-04	EPI	1.3E+00	CRC89	3.7E-02	7.8E-06	WATER9 (U.S. EPA, 2001)			5.9E+02	EPI	2.1E+00	EPI	1.8E+02	SSL	1.9E-02	1.1E+00	2.6E+00	3.7E-03	EPI
Dinoseb	88-85-7	2.4E+02	EPI	1.9E-05	4.6E-07	EPI	7.4E-05	EPI	1.3E+00	CRC89	2.5E-02	6.5E-06	WATER9 (U.S. EPA, 2001)			4.3E+03	EPI	3.6E+00	EPI	5.2E+01	EPI	9.7E-02	2.3E+00	5.6E+00	1.6E-02	EPI
Dioxin (TCDD, 2,3,7,8-)	1746-01-6	3.2E+02	EPI	2.0E-03	5.0E-05	EPI	1.5E-09	EPI	1.8E+00	PubChem	4.7E-02	6.8E-06	WATER9 (U.S. EPA, 2001)			2.5E+05	EPI	6.8E+00	EPI	2.0E-04	EPI	5.6E+00	6.7E+00	2.9E+01	8.1E-01	EPI
Endosulfan	115-29-7	4.1E+02	EPI	2.7E-03	6.5E-05	EPI	6.0E-07	EPI	1.7E+00	CRC89	2.2E-02	5.8E-06	WATER9 (U.S. EPA, 2001)			6.8E+03	EPI	3.8E+00	EPI	3.3E-01	EPI	2.2E-02	2.0E+01	4.8E+01	2.9E-03	EPI
Endrin	72-20-8	3.8E+02	EPI	4.1E-04	1.0E-05	EPI	3.0E-06	EPI			3.6E-02	4.2E-06	WATER9 (U.S. EPA, 2001)			2.0E+04	EPI	5.2E+00	EPI	2.5E-01	EPI	2.4E-01	1.4E+01	3.4E+01	3.3E-02	EPI
Ethanol	64-17-5	4.6E+01	EPI	2.0E-04	4.7E-06	EPI	5.9E+01	HSDB	7.9E-01	HSDB	1.2E-01	1.3E-05		6.0E-03		1.0E+00	EPI	-3.1E-01	HSDB	1.0E+06	EPI	1.4E-03	1.9E-01	4.6E-01	5.4E-04	EPI
Ethyl Chloride (Chloroethane)	75-00-3	6.5E+01	EPI	4.5E-01	1.1E-02	EPI	1.0E+03	EPI	8.9E-01	CRC89	1.0E-01	1.2E-05	WATER9 (U.S. EPA, 2001)			2.2E+01	EPI	1.4E+00	EPI	6.7E+03	EPI	1.9E-02	2.4E-01	5.8E-01	6.1E-03	EPI
Ethylbenzene	100-41-4	1.1E+02	EPI	3.2E-01	7.9E-03	EPI	9.6E+00	EPI	8.6E-01	CRC89	6.8E-02	8.5E-06	WATER9 (U.S. EPA, 2001)			4.5E+02	EPI	3.2E+00	EPI	1.7E+02	EPI	2.0E-01	4.1E-01	9.9E-01	4.9E-02	EPI
Ethylene Glycol	107-21-1	6.2E+01	EPI	2.5E-06	6.0E-08	EPI	9.2E-02	EPI	1.1E+00	CRC89	1.2E-01	1.4E-05	WATER9 (U.S. EPA, 2001)			1.0E+00	EPI	-1.4E+00	EPI	1.0E+06	EPI	2.7E-04	2.3E-01	5.6E-01	8.8E-05	EPI
Fluoranthene	206-44-0	2.0E+02	EPI	3.6E-04	8.9E-06	EPI	9.2E-06	EPI	1.3E+00	CRC89	2.8E-02	7.2E-06	WATER9 (U.S. EPA, 2001)			5.5E+04	EPI	5.2E+00	EPI	2.6E-01	EPI	1.7E+00	1.4E+00	5.7E+00	3.1E-01	EPI
Fluorene	86-73-7	1.7E+02	EPI	3.9E-03	9.6E-05	EPI	6.0E-04	EPI	1.2E+00	CRC89	4.4E-02	7.9E-06	WATER9 (U.S. EPA, 2001)			9.2E+03	EPI	4.2E+00	EPI	1.7E+00	EPI	5.5E-01	9.0E-01	2.2E+00	1.1E-01	EPI
Formaldehyde	50-00-0	3.0E+01	EPI	1.4E-05	3.4E-07	EPI	3.9E+03	EPI	8.2E-01	CRC89	1.7E-01	1.7E-05	WATER9 (U.S. EPA, 2001)			1.0E+00	EPI	3.5E-01	EPI	4.0E+05	EPI	3.8E-03	1.5E-01	3.7E-01	1.8E-03	EPI
Heptachlor	76-44-8	3.7E+02	EPI	1.2E-02	2.9E-04	EPI	4.0E-04	EPI	1.6E+00	CRC89	2.2E-02	5.7E-06	WATER9 (U.S. EPA, 2001)			4.1E+04	EPI	6.1E+00	EPI	1.8E-01	EPI	1.1E+00	1.3E+01	5.0E+01	1.4E-01	EPI
Heptachlor Epoxide	1024-57-3	3.9E+02	EPI	8.6E-04	2.1E-05	EPI	2.0E-05	EPI	1.9E+00	LookChem	2.4E-02	6.2E-06	WATER9 (U.S. EPA, 2001)			1.0E+04	EPI	5.0E+00	EPI	2.0E-01	EPI	1.6E-01	1.6E+01	3.8E+01	2.1E-02	EPI
Hexachlorobenzene	118-74-1	2.8E+02	EPI	7.0E-02	1.7E-03	EPI	1.8E-05	EPI	2.0E+00	CRC89	2.9E-02	7.8E-06	WATER9 (U.S. EPA, 2001)			6.2E+03	EPI	5.7E+00	EPI	6.2E-03	EPI	1.6E+00	4.1E+00	1.7E+01	2.5E-01	EPI
Hexachlorobutadiene	87-68-3	2.6E+02	EPI	4.2E-01	1.0E-02	EPI	2.2E-01	EPI	1.6E+00	CRC89	2.7E-02	7.0E-06	WATER9 (U.S. EPA, 2001)			8.5E+02	EPI	4.8E+00	EPI	3.2E+00	EPI	5.0E-01	3.0E+00	7.3E+00	8.1E-02	EPI
Hexachlorocyclohexane, Alpha-	319-84-6	2.9E+02	EPI	2.1E-04	5.1E-06	EPI	3.5E-05	EPI			4.3E-02	5.1E-06	WATER9 (U.S. EPA, 2001)			2.8E+03	EPI	3.8E+00	EPI	2.0E+00	EPI	1.4E-01	4.5E+00	1.1E+01	2.1E-02	EPI
Hexachlorocyclohexane, Beta-	319-85-7	2.9E+02	EPI	2.1E-04	5.1E-06	EPI	3.5E-05	EPI	1.9E+00	CRC89	2.8E-02	7.4E-06	WATER9 (U.S. EPA, 2001)			2.8E+03	EPI	3.8E+00	EPI	2.4E-01	EPI	1.4E-01	4.5E+00	1.1E+01	2.1E-02	EPI
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	2.9E+02	EPI	2.1E-04	5.1E-06	EPI	4.2E-05	EPI			4.3E-02	5.1E-06	WATER9 (U.S. EPA, 2001)			2.8E+03	EPI	3.7E+00	EPI	7.3E+00	EPI	1.4E-01	4.5E+00	1.1E+01	2.1E-02	EPI
Hexachlorocyclopentadiene	77-47-4	2.7E+02	EPI	1.1E+00	2.7E-02	EPI	6.0E-02	EPI	1.7E+00	CRC89	2.7E-02	7.2E-06	WATER9 (U.S. EPA, 2001)			1.4E+03	EPI	5.0E+00	EPI	1.8E+00	EPI	6.5E-01	3.5E+00	1.4E+01	1.0E-01	EPI
Hexachloroethane	67-72-1	2.4E+02	EPI	1.6E-01	3.9E-03	EPI	2.1E-01	EPI	2.1E+00	CRC89	3.2E-02	8.9E-06	WATER9 (U.S. EPA, 2001)			2.0E+02	EPI	4.1E+00	EPI	5.0E+01	EPI	2.5E-01	2.2E+00	5.3E+00	4.2E-02	EPI
Indeno[1,2,3-cd]pyrene	193-39-5	2.8E+02	EPI	1.4E-05	3.5E-07	EPI	1.3E-10	EPI			4.5E-02	5.2E-06	WATER9 (U.S. EPA, 2001)			2.0E+06	EPI	6.7E+00	EPI	1.9E-04	EPI	7.9E+00	3.7E+00	1.7E+01	1.2E+00	EPI
Isobutyl Alcohol	78-83-1	7.4E+01	EPI	4.0E-04	9.8E-06	EPI	1.1E+01	EPI	8.0E-01	CRC89	9.0E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			2.9E+00	EPI	7.6E-01	EPI	8.5E+04	EPI	6.4E-03	2.7E-01	6.6E-01	1.9E-03	EPI
Isophorone	78-59-1	1.4E+02	EPI	2.7E-04	6.6E-06	EPI	4.4E-01	EPI	9.3E-01	CRC89	5.3E-02	7.5E-06	WATER9 (U.S. EPA, 2001)			6.5E+01	EPI	1.7E+00	EPI	1.2E+04	EPI	1.6E-02	6.2E-01	1.5E+00	3.5E-03	EPI
Lead and Compounds	7439-92-1	2.1E+02	EPI				0.0E+00	NIOSH	1.1E+01	CRC89				9.0E+02	BAES							5.5E-04	1.5E+00	3.7E+00	1.0E-04	RAGSE
Mercuric Chloride (and other Mercury salts)	7487-94-7	2.7E+02	EPI						5.6E+00	CRC89								-2.2E-01	EPI	6.9E+04	EPI	6.3E-03	3.5E+00	8.4E+00	1.0E-03	RAGSE
Methoxychlor	72-43-5	3.5E+02	EPI	8.3E-06	2.0E-07	EPI	4.2E-05	EPI	1.4E+00	CRC89	2.2E-02	5.6E-06	WATER9 (U.S. EPA, 2001)			2.7E+04	EPI	5.1E+00	EPI	1.0E-01	EPI	3.1E-01	9.1E+00	2.2E+01	4.3E-02	EPI
Methyl Ethyl Ketone (2-Butanone)	78-93-3	7.2E+01	EPI	2.3E-03	5.7E-05	EPI	9.1E+01	EPI	8.0E-01	CRC89	9.1E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			4.5E+00	EPI	2.9E-01	EPI	2.2E+05	EPI	3.1E-03	2.7E-01	6.4E-01	9.6E-04	EPI
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	1.0E+02	EPI	5.6E-03	1.4E-04	EPI	2.0E+01	EPI	8.0E-01	CRC89	7.0E-02	8.3E-06	WATER9 (U.S. EPA, 2001)			1.3E+01	EPI	1.3E+00	EPI	1.9E+04	EPI	1.2E-02	3.8E-01	9.2E-01	3.2E-03	EPI
Methyl tert-Butyl Ether (MTBE)	1634-04-4	8.8E+01	EPI	2.4E-02	5.9E-04	EPI	2.5E+02	EPI	7.4E-01	CRC89	7.5E-02	8.6E-06	WATER9 (U.S. EPA, 2001)			1.2E+01	EPI	9.4E-01	EPI	5.1E+04	EPI	7.6E-03	3.3E-01	7.9E-01	2.1E-03	EPI
Methylene Chloride	75-09-2	8.5E+01	EPI	1.3E-01	3.3E-03	EPI	4.4E+02	EPI	1.3E+00	CRC89	1.0E-01	1.3E-05	WATER9 (U.S. EPA, 2001)			2.2E+01	EPI	1.3E+00	EPI	1.3E+04	EPI	1.3E-02	3.1E-01	7.5E-01	3.5E-03	EPI
Methylnaphthalene, 2-	91-57-6	1.4E+02	EPI	2.1E-02	5.2E-04	EPI	5.5E-02	EPI	1.0E+00	CRC89	5.2E-02	7.8E-06	WATER9 (U.S. EPA, 2001)			2.5E+03	EPI	3.9E+00	EPI	2.5E+01	EPI	4.2E-01	6.6E-01	1.6E+00	9.2E-02	EPI
Naphthalene	91-20-3	1.3E+02	EPI	1.8E-02	4.4E-04	EPI	8.5E-02	EPI	1.0E+00	CRC89	6.0E-02	8.4E-06	WATER9 (U.S. EPA, 2001)			1.5E+03	EPI	3.3E+00	EPI	3.1E+01	EPI	2.0E-01	5.5E-01	1.3E+00	4.7E-02	EPI
Nickel Soluble Salts	7440-02-0	5.9E+01	EPI				0.0E+00	NIOSH	8.9E+00	CRC89				6.5E+01	SSL							5.9E-04	2.2E-01	5.4E-01	2.0E-04	RAGSE
Nickel Subsulfide	12035-72-2	2.4E+02	CRC89						5.9E+00	CRC89												1.2E-03	2.3E+00	5.6E+00	2.0E-04	RAGSE
Nitrate	14797-55-8	6.2E+01	EPI																			3.0E-03	2.3E-01	5.6E-01	1.0E-03	RAGSE
Nitrite	14797-65-0	4.7E+01	EPI																			2.6E-03	1.9E-01	4.6E-01	1.0E-03	RAGSE
Nitroaniline, 4-	100-01-6	1.4E+02	EPI	5.2E-08	1.3E-09	EPI	3.2E-06	EPI	1.4E+00	CRC89	6.4E-02	9.8E-06	WATER9 (U.S. EPA, 2001)			1.1E+02	EPI	1.4E+00	EPI	7.3E+02	EPI	1.0E-02	6.2E-01	1.5E+00	2.2E-03	EPI
Nitrobenzene	98-95-3	1.2E+02	EPI	9.8E-04	2.4E-05	EPI	2.5E-01	EPI	1.2E+00	CRC89	6.8E-02	9.4E-06	WATER9 (U.S. EPA, 2001)			2.3E+02	EPI	1.9E+00	EPI	2.1E+03	EPI	2.3E-02	5.1E-01	1.2E+00	5.4E-03	EPI
Nitroso-di-N-propylamine, N-	621-64-7	1.3E+02	EPI	2.2E-04	5.4E-06	EPI	3.9E-01	EPI	9.2E-01	CRC89	5.6E-02	7.8E-06	WATER9 (U.S. EPA, 2001)			2.8E+02	EPI	1.4E+00	EPI	1.3E+04	EPI	1.0E-02	5.6E-01	1.4E+00	2.3E-03	EPI
Nitrosodiphenylamine, N-	86-30-6	2.0E+02	EPI	2.1E-04	5.0E-06	SSL	7.0E-05	EPI			5.6E-02	6.5E-06	WATER9 (U.S. EPA, 2001)			2.6E+03	EPI	3.1E+00	EPI	3.5E+01	EPI	7.9E-02	1.4E+00	3.3E+00	1.5E-02	EPI
Octyl Phthalate, di-N-	117-84-0	3.9E+02	EPI	1.1E-04	2.6E-06	EPI	1.0E-07	EPI			3.6E-02	4.2E-06	WATER9 (U.S. EPA, 2001)			1.4E+05	EPI	8.1E+00	EPI	2.2E-02	EPI	1.8E+01	1.6E+01	7.5E+01	2.4E+00	EPI
Pentachlorophenol	87-86-5	2.7E+02	EPI	1.0E-06	2.5E-08	EPI	1.1E-04	EPI	2.0E+00	CRC89	3.0E-02	8.0E-06	WATER9 (U.S. EPA, 2001)			5.0E+03	EPI	5.1E+00	EPI	1.4E+01	EPI	8.0E-01	3.3E+00	1.3E+01	1.3E-01	EPI
Phenol	108-95-2	9.4E+01	EPI	1.4E-05	3.3E-07	EPI	3.5E-01	EPI	1.1E+00	CRC89	8.3E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			1.9E+02	EPI	1.5E+00	EPI	8.3E+04	EPI	1.6E-02	3.5E-01	8.5E-01	4.3E-03	EPI
Polychlorinated Biphenyls (high risk)	1336-36-3	2.9E+02	EPI	7.8E-03	1.9E-04	EPI	8.6E-05	EPI	1.4E+00	HSDB	2.4E-02	6.3E-06	WATER9 (U.S. EPA, 2001)			7.8E+04	EPI	7.1E+00	EPI	7.0E-01	SSL	3.6E+00	4.5E+00	1.9E+01	5.5E-01	EPI
Polychlorinated Biphenyls (low risk)	1336-36-3	2.9E+02	EPI	7.8E-03	1.9E-04	EPI	8.6E-05	EPI	1.4E+00	HSDB	2.4E-02	6.3E-06	WATER9 (U.S. EPA, 2001)			7.8E+04	EPI	7.1E+00	EPI	7.0E-01	SSL	3.6E+00	4.5E+00	1.9E+01	5.5E-01	EPI
Pyrene	129-00-0	2.0E+02	EPI	4.9E-04	1.2E-05	EPI	4.5E-06	EPI	1.3E+00	CRC89	2.8E-02	7.2E-06	WATER9 (U.S. EPA, 2001)			5.4E+04	EPI	4.9E+00	EPI	1.4E-01	EPI	1.1E+00	1.4E+00	5.5E+00	2.0E-01	EPI
Selenium	7782-49-2	7.9E+01	CRC89				1.4E-10	EPI	4.8E+00	CRC89				5.0E+00	SSL							3.4E-03	2.9E-01	7.0E-01	1.0E-03	RAGSE
Silver	7440-22-4	1.1E+02	EPI				0.0E+00	NIOSH	1.1E+01	CRC89				8.3E+00	SSL							2.4E-03	4.2E-01	1.0E+00	6.0E-04	RAGSE
Styrene	100-42-5	1.0E+02	EPI	1.1E-01	2.8E-03	EPI	6.4E+00	EPI	9.0E-01	CRC89	7.1E-02	8.8E-06	WATER9 (U.S. EPA, 2001)			4.5E+02	EPI	3.0E+00	EPI	3.1E+02	EPI	1.5E-01	4.0E-01	9.7E-01	3.7E-02	EPI
Tetrachlorobenzene, 1,2,4,5-	95-94-3	2.2E+02	EPI	4.1E-02	1.0E-03	EPI	5.4E-03	EPI	1.9E+00	CRC89	3.2E-02	8.8E-06	WATER9 (U.S. EPA, 2001)			2.2E+03	EPI	4.6E+00	EPI	6.0E-01	EPI	6.6E-01	1.7E+00	6.7E+00	1.2E-01	EPI
Tetrachloroethane, 1,1,1,2-	630-20-6	1.7E+02	EPI	1.0E-01	2.5E-03	EPI	1.2E+01	EPI	1.5E+00	CRC89	4.8E-02	9.1E-06	WATER9 (U.S. EPA, 2001)			8.6E+01	EPI	2.9E+00	YAWS	1.1E+03	EPI	7.9E-02	9.2E-01	2.2E+00	1.6E-02	EPI
Tetrachloroethane, 1,1,2,2-	79-34-5	1.7E+02	EPI	1.5E-02	3.7E-04	EPI	4.6E+00	EPI	1.6E+00	CRC89	4.9E-02	9.3E-06	WATER9 (U.S. EPA, 2001)			9.5E+01	EPI	2.4E+00	EPI	2.8E+03	EPI	3.5E-02	9.2E-01	2.2E+00	6.9E-03	EPI
Tetrachloroethylene	127-18-4	1.7E+02	EPI	7.2E-01	1.8E-02	EPI	1.9E+01	EPI	1.6E+00	CRC89	5.0E-02	9.5E-06	WATER9 (U.S. EPA, 2001)			9.5E+01	EPI	3.4E+00	EPI	2.1E+02	EPI	1.7E-01	8.9E-01	2.1E+00	3.3E-02	EPI
Tetrachlorophenol, 2,3,4,6-	58-90-2	2.3E+02	EPI	3.6E-04	8.8E-06	EPI	6.7E-04	EPI			5.0E-02	5.9E-06	WATER9 (U.S. EPA, 2001)			3.0E+03	EPI	4.5E+00	EPI	2.3E+01	EPI	4.2E-01	2.1E+00	5.0E+00	7.1E-02	EPI
Thallium (Soluble Salts)	7440-28-0	2.0E+02	EPI						1.2E+01	CRC89				7.1E+01	SSL							5.5E-03	1.5E+00	3.5E+00	1.0E-03	RAGSE
Toluene	108-88-3	9.2E+01	EPI	2.7E-01	6.6E-03	EPI	2.8E+01	EPI	8.6E-01	CRC89	7.8E-02	9.2E-06	WATER9 (U.S. EPA, 2001)			2.3E+02	EPI	2.7E+00	EPI	5.3E+02	EPI	1.1E-01	3.5E-01	8.3E-01	3.1E-02	EPI
Total Petroleum Hydrocarbons (Aliphatic $C_{>16}$-C_{35})	NA	*		*			*				6.2E-02	7.2E-06	WATER9 (U.S. EPA, 2001)			*				*		9.8E+00	9.5E-01	4.3E+00	2.0E+00	EPI
Total Petroleum Hydrocarbons (Aliphatic $C_{>8}$-C_{16})	NA	*		*			*		7.2E-01	CRC89	5.1E-02	6.8E-06	WATER9 (U.S. EPA, 2001)			*				*		7.4E+00	5.5E-01	2.5E+00	1.7E+00	EPI
Total Petroleum Hydrocarbons (Aliphatic C_5-C_8)	NA	*		*			*		6.6E-01	CRC89	7.3E-02	8.2E-06	WATER9 (U.S. EPA, 2001)			*				*		7.2E-01	3.2E-01	1.2E+00	2.0E-01	EPI

Table A-2
Physical/Chemical Parameters

Constituent of Concern		Molecular Weight		Volatility Parameters					Density		Diffusivity in Air and Water			Partition Coefficients						Water Solubility		Tapwater Dermal Parameters				
	CAS No.	MW	MW Ref	H` (unitless)	HLC (atm-m^3/mole)	H` and HLC Ref	Vapor Pressure	VP Ref	Density (g/cm^3)	Density Ref	Dia (cm^2/s)	Diw (cm^2/s)	Dia Ref	K_d (L/kg)	K_d Ref	K_{oc} (L/kg)	K_{oc} Ref	log K_{ow} (L/kg)	log K_{ow} Ref	S (mg/L)	S Ref	B (unitless)	τ_{event} (hr/event)	t (hr)	K_p (cm/hr)	KPREF
Total Petroleum Hydrocarbons (Aromatic $_{>21}$-$C_{>35}$))	NA	*		*			*		1.3E+00	CRC89	2.8E-02	7.2E-06	WATER9 (U.S. EPA, 2001)			*				*		1.7E+00	1.4E+00	5.7E+00	3.1E-01	EPI
Total Petroleum Hydrocarbons (Aromatic $C_{>16}$-$C_{>21}$)	NA	*		*			*		1.0E+00	CRC89	5.6E-02	8.1E-06	WATER9 (U.S. EPA, 2001)			*				*		3.1E-01	6.0E-01	1.4E+00	6.9E-02	EPI
Toxaphene	8001-35-2	4.1E+02	EPI	2.5E-04	6.0E-06	EPI	1.4E-06	EPI			3.4E-02	4.0E-06	WATER9 (U.S. EPA, 2001)			7.7E+04	EPI	5.9E+00	EPI	7.4E-01	SSL	4.1E-01	2.2E+01	5.2E+01	5.2E-02	EPI
Trichlorobenzene, 1,2,4-	120-82-1	1.8E+02	EPI	5.8E-02	1.4E-03	EPI	4.6E-01	EPI	1.5E+00	CRC89	4.0E-02	8.4E-06	WATER9 (U.S. EPA, 2001)			1.4E+03	EPI	4.0E+00	EPI	4.9E+01	EPI	3.7E-01	1.1E+00	2.6E+00	7.1E-02	EPI
Trichloroethane, 1,1,1-	71-55-6	1.3E+02	EPI	7.0E-01	1.7E-02	EPI	1.2E+02	EPI	1.3E+00	CRC89	6.5E-02	9.6E-06	WATER9 (U.S. EPA, 2001)			4.4E+01	EPI	2.5E+00	EPI	1.3E+03	EPI	5.6E-02	5.9E-01	1.4E+00	1.3E-02	EPI
Trichloroethane, 1,1,2-	79-00-5	1.3E+02	EPI	3.4E-02	8.2E-04	EPI	2.3E+01	EPI	1.4E+00	CRC89	6.7E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			6.1E+01	EPI	1.9E+00	EPI	4.6E+03	EPI	2.2E-02	5.9E-01	1.4E+00	5.0E-03	EPI
Trichloroethylene	79-01-6	1.3E+02	EPI	4.0E-01	9.9E-03	EPI	6.9E+01	EPI	1.5E+00	CRC89	6.9E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			6.1E+01	EPI	2.4E+00	EPI	1.3E+03	EPI	5.1E-02	5.7E-01	1.4E+00	1.2E-02	EPI
Trichlorofluoromethane	75-69-4	1.4E+02	EPI	4.0E+00	9.7E-02	EPI	8.0E+02	EPI	1.5E+00	CRC89	6.5E-02	1.0E-05	WATER9 (U.S. EPA, 2001)			4.4E+01	EPI	2.5E+00	EPI	1.1E+03	EPI	5.7E-02	6.2E-01	1.5E+00	1.3E-02	EPI
Trichlorophenol, 2,4,5-	95-95-4	2.0E+02	EPI	6.6E-05	1.6E-06	EPI	7.5E-03	EPI	1.5E+00	PERRY	3.1E-02	8.1E-06	WATER9 (U.S. EPA, 2001)			1.8E+03	EPI	3.7E+00	EPI	1.2E+03	EPI	2.0E-01	1.3E+00	3.2E+00	3.6E-02	EPI
Trichlorophenol, 2,4,6-	88-06-2	2.0E+02	EPI	1.1E-04	2.6E-06	EPI	8.0E-03	EPI	1.5E+00	CRC89	3.1E-02	8.1E-06	WATER9 (U.S. EPA, 2001)			1.8E+03	EPI	3.7E+00	EPI	8.0E+02	EPI	1.9E-01	1.3E+00	3.2E+00	3.5E-02	EPI
Vanadium and Compounds	7440-62-2	5.1E+01	EPI						6.0E+00	CRC89				1.0E+03	SSL							2.7E-03	2.0E-01	4.9E-01	1.0E-03	RAGSE
Vinyl Chloride	75-01-4	6.3E+01	EPI	1.1E+00	2.8E-02	EPI	3.0E+03	EPI	9.1E-01	CRC89	1.1E-01	1.2E-05	WATER9 (U.S. EPA, 2001)			2.2E+01	EPI	1.6E+00	YAWS	8.8E+03	EPI	2.5E-02	2.4E-01	5.7E-01	8.4E-03	EPI
Xylenes	1330-20-7	1.1E+02	EPI	2.1E-01	5.2E-03	EPI	8.0E+00	EPI	8.6E-01	ATSDR Profile	6.9E-02	8.5E-06	WATER9 (U.S. EPA, 2001)			3.8E+02	EPI	3.2E+00	EPI	1.1E+02	EPI	2.0E-01	4.1E-01	9.9E-01	5.0E-02	EPI
Zinc and Compounds	7440-66-6	6.5E+01	PERRY						7.1E+00	CRC89				6.2E+01	SSL							1.9E-03	2.4E-01	5.9E-01	6.0E-04	RAGSE

EPI = Estimation Programs Interface (EPI) Suite™

CRC = CRC Handbook of Chemistry and Physics

WATER9 = WATER9 Model Version 2.0

RAGSE = U.S. EPA Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final. OSWER 9285.7-02EP. July 2004

Perry = Perry's Chemical Engineers' Handbook.McGraw-Hill. Green, Don W.; Perry, Robert H. (2008).

Lange = Lange's Handbook of Chemistry. Speight, James G. (2005). McGraw-Hill.

SSL - EPA Soil Screening Guidance

*Refer to Appendix D for physical chemical properties for the petroleum hydrocarbon aliphatic and aromatic fractions.