TABLES

TABLE 1

SELECTION OF EXPOSURE PATHWAYS

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Current [a]	Surface Water	Surface Water	HBHA Pond (HB01) and HBHA - Mishawum Road Area (HB03)	Recreational User	Teenager	Dermal	Quant	Teens may currently use this area for recreation (wading) with low frequency.
						Ingestion	None	Since surface waters are shallow, wading but not swimming is expected, and ingestion is unlikely.
			HBHA - Cabot Road Area (HB02)	Recreational User	Teenager	Dermal	None	It is unlikely that area teens currently use the HBHA in this area for recreation due to its isolated nature.
						Ingestion	None	It is unlikely that area teens currently use the HBHA in this area for recreation due to its isolated nature.
			Aberjona River - Mishawum Road (AR)	Recreational User	Teenager	Dermal	Quant	Teens may currently use this area for recreation (wading) with low frequency.
						Ingestion	None	Since surface waters are shallow, wading but not swimming is expected, and ingestion is unlikely.
	Sediment	Sediment	HBHA Pond (HB01) and HBHA - Mishawum Road Area (HB03)	Recreational User	Teenager	Dermal	Quant	Teens may currently use this area for recreation (wading) with low frequency.
						Ingestion	Quant	Teens may currently use this area for recreation (wading) with low frequency.
			HBHA - Cabot Road Area (HB02)	Recreational User	Teenager	Dermal	None	It is unlikely that area teens currently use the HBHA in this area for recreation due to its isolated nature.
						Ingestion	None	It is unlikely that area teens currently use the HBHA in this area for recreation due to its isolated nature.
			Aberjona River - Mishawum Road (AR)	Recreational User	Teenager	Dermal	Quant	Teens may currently use this area for recreation (wading) with low frequency.
						Ingestion	Quant	Teens may currently use this area for recreation (wading) with low frequency.
			Boston Edison Right-of-Way (BE-1)	Recreational User	Teenager	Dermal	Quant	Teens may currently use this area for recreation (wading) with low frequency.
						Ingestion	Quant	Teens may currently use this area for recreation (wading) with low frequency.
			Boston Edison Right-of-Way (BE-2)	Recreational User	Teenager	Dermal	None	Not currently accessible due to restrictions on the use of the capped area.
						Ingestion	None	Not currently accessible due to restrictions on the use of the capped area.
			Station MC-13	Recreational User	Teenager	Dermal	None	It is unlikely that area teens currently use this area for recreation due to its isolated nature.
						Ingestion	None	It is unlikely that area teens currently use this area for recreation due to its isolated nature.
	Soil	Surface Soil	Former Mishawum Lake Bed (Area SO)	Groundskeeper	Adult	Ingestion	Quant	Outdoor workers may be exposed to contaminants in surface soils during groundskeeping activities at these areas.
						Dermal	Quant	Dermal contact with contaminated surface soils may occur.
						Inhalation	None	Inhalation exposures are expected to be negligible.
				Daycare Child	Young Child	Ingestion	Quant	Young children may be exposed to contaminants in soils while playing at a daycare facility.
						Dermal	Quant	Dermal contact with contaminated soils may occur.
						Inhalation	None	Inhalation exposures are expected to be negligible.

TABLE 1

SELECTION OF EXPOSURE PATHWAYS

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Current[a] (cont.)	Soil (cont.)	Surface Soil (cont.)	Area A6 (HBHA Pond)	Recreational User	Teenager	Ingestion	Quant	Teens may currently access this area and contact contaminants in surface soil.
						Dermal	Quant	Dermal contact with contaminated surface soils may occur.
						Inhalation	None	Inhalation exposures are expected to be negligible.
			HBHA - Cabot Road Area (HB04)	Recreational User	Teenager	Ingestion	Quant	Teens may currently access this area and contact contaminants in surface soil.
						Dermal	Quant	Dermal contact with contaminated surface soils may occur.
						Inhalation	None	Inhalation exposures are expected to be negligible.
				Groundskeeper	Adult	Ingestion	Quant	Outdoor workers may be exposed to contaminants in surface soils during groundskeeping activities at these areas.
						Dermal	Quant	Dermal contact with contaminated surface soils may occur.
						Inhalation	None	Inhalation exposures are expected to be negligible.
	Soil Gas	Indoor Air	Commercial Buildings	Commercial Worker	Adult	Inhalation	Quant	Volatile contaminants may migrate from soil and groundwater to impact indoor air in current commercial buildings.
				Daycare Child	Young Child	Inhalation	Quant	Volatile contaminants may migrate from soil and groundwater to impact indoor air in current commercial buildings. A day care facility currently exists.
Current/ Future [a]	Surface Water/ Sediment	Fish Fillet Tissue	HBHA	Recreational User	Young Child	Dermal	None	Exposure to contaminants in fish unlikely through the dermal pathway.
						Ingestion	Quant	Possibility of contaminants in fish exposed to contaminated surface water.
					Adult	Dermal	None	Exposure to contaminants in fish unlikely through the dermal pathway.
						Ingestion	Quant	Possibility of contaminants in fish exposed to contaminated surface water.
Future [a]	Surface Water	Surface Water	HBHA Pond (HB01) and HBHA - Mishawum Road Area (HB03)	Recreational User	Teenager	Dermal	Quant	Teens may use this area for recreation (wading) with higher frequency.
						Ingestion	None	Since surface waters are shallow, wading but not swimming is expected, and ingestion is unlikely.
			HBHA - Cabot Road Area (HB02)	Recreational User	Teenager	Dermal	Quant	Due to site development, teens may use this area for recreation (wading) in the future.
			Boston Edison Right-of-Way (BE-2)			Ingestion	None	Since surface waters are shallow, wading but not swimming is expected, and ingestion is unlikely.
			Aberjona River - Mishawum Road (AR)	Recreational User	Teenager	Dermal	Quant	Teens may use this area for recreation (wading) with higher frequency.
						Ingestion	None	Since surface waters are shallow, wading but not swimming is expected, and ingestion is unlikely.
	Sediment	Sediment	HBHA Pond (HB01) and HBHA - Mishawum Road Area (HB03)	Recreational User	Teenager	Dermal	Quant	Teens may use this area for recreation (wading) with higher frequency.
						Ingestion	Quant	Teens may use this area for recreation (wading) with higher frequency.
			HBHA - Cabot Road Area (HB02)	Recreational User	Teenager	Dermal	Quant	Due to site development, teens may use this area for recreation (wading) in the future.
						Ingestion	Quant	Due to site development, teens may use this area for recreation (wading) in the future.
			Aberjona River - Mishawum Road (AR)	Recreational User	Teenager	Dermal	Quant	Teens may use this area for recreation (wading) with higher frequency.
						Ingestion	Quant	Teens may use this area for recreation (wading) with higher frequency.

TABLE 1

SELECTION OF EXPOSURE PATHWAYS

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Future[a] (cont.)	Sediment (cont.)	Sediment (cont.)	Boston Edison Right-of-Way (BE-1)	Recreational User	Teenager	Dermal	Quant	Teens may use this area for recreation (wading) with higher frequency.
						Ingestion	Quant	Teens may use this area for recreation (wading) with higher frequency.
			Boston Edison Right-of-Way (BE-2)	Recreational User	Teenager	Dermal	Quant	Due to future use of the capped area, teens may access this area in the future.
						Ingestion	Quant	Due to future use of the capped area, teens may access this area in the future.
			Station MC-13	Recreational User	Teenager	Dermal	None	Land use unlikely to change in the future.
						Ingestion	None	Land use unlikely to change in the future.
		Sediment Cores	HBHA (SC01 through SC04)	Dredger	Adult	Ingestion	Quant	Workers may be exposed to contaminants during future dredging at the HBHA.
						Dermal	Quant	Dermal contact with dredged sediments may occur.
						Inhalation	Qual	Because the sediments are wet, inhalation exposures are expected to be negligible.
	Soil	Surface Soil	Area A6 (HBHA Pond)	Recreational User	Teenager	Ingestion	Quant	Teens may use this area for recreation with higher frequency.
						Dermal	Quant	Dermal contact with contaminated soils may occur.
						Inhalation	None	Inhalation exposures are expected to be negligible.
			HBHA - Cabot Road Area (HB04)	Recreational User	Teenager	Ingestion	Quant	Teens may use this area for recreation with higher frequency.
						Dermal	Quant	Dermal contact with contaminated soils may occur.
						Inhalation	None	Inhalation exposures are expected to be negligible.
				Groundskeeper	Adult	Ingestion	Quant	Outdoor workers may be exposed to contaminants in soils during groundskeeping activities at these areas, after development results in contaminant movement to the surface.
						Dermal	Quant	Dermal contact with contaminated soils may occur.
						Inhalation	None	Inhalation exposures are expected to be negligible.
				Daycare Child	Young Child	Ingestion	Quant	Young children may be exposed to contaminants in soils while playing at a daycare facility.
						Dermal	Quant	Dermal contact with contaminated soils may occur.
						Inhalation	None	Inhalation exposures are expected to be negligible.
				Construction Worker	Adult	Ingestion	Quant	Outdoor workers may be exposed to contaminants in soils during excavation activities at these areas.
						Dermal	Quant	Dermal contact with contaminated soils may occur.
						Inhalation	Quant	Particulate exposures are expected for this receptor.

TABLE 1

SELECTION OF EXPOSURE PATHWAYS

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
Future [a] (cont.)	Soil (cont.)	Surface Soil (cont.)	Former Mishawum Lake Bed (Area SO)	Groundskeeper	Adult	Ingestion	Quant	Outdoor workers may be exposed to contaminants in soils during groundskeeping activities at these areas, after development results in contaminant movement to the surface.
						Dermal	Quant	Dermal contact with contaminated soils may occur.
						Inhalation	None	Inhalation exposures are expected to be negligible.
				Daycare Child	Young Child	Ingestion	Quant	Young children may be exposed to contaminants in soils while playing at a daycare facility, after development results in contaminant movement to the surface.
						Dermal	Quant	Dermal contact with contaminated soils may occur.
						Inhalation	Quant	Volatile contaminants may migrate from soils to impact indoor air in future buildings.
				Construction Worker	Adult	Ingestion	Quant	Outdoor workers may be exposed to contaminants in soils during excavation activities at these areas.
						Dermal	Quant	Dermal contact with contaminated soils may occur.
						Inhalation	Quant	Particulate exposures are expected for this receptor.
		Subsurface Soil	Area A6 (HBHA Pond)	Recreational User	Teenager	Ingestion	Quant	Teens may use this area for recreation with higher frequency.
						Dermal	Quant	Dermal contact with contaminated soils may occur.
						Inhalation	None	Inhalation exposures are expected to be negligible.
			Former Mishawum Lake Bed (Area SO)	Construction Worker	Adult	Ingestion	Quant	Outdoor workers may be exposed to contaminants in soils during excavation activities at these areas.
						Dermal	Quant	Dermal contact with contaminated soils may occur.
						Inhalation	Quant	Particulate exposures are expected for this receptor.
	Soil Gas	Indoor Air	Commercial Buildings	Commercial Worker	Adult	Inhalation	Quant	Volatile contaminants may migrate from soil and groundwater to impact indoor air in future commercial buildings.
				Daycare Child	Young Child	Inhalation	Quant	Volatile contaminants may migrate from soil and groundwater to impact indoor air in future commercial buildings.
		Outdoor Air	Former Mishawum Lake Bed (Area SO) and Cabot Road Area (HB04)	Construction Worker	Adult	Inhalation	Quant	Volatile contaminants may migrate from soil and groundwater to impact outdoor air.

TABLE 1

SELECTION OF EXPOSURE PATHWAYS

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
	Groundwater	Groundwater	Shallow Groundwater (<15' bgs)	Construction Worker	Adult	Ingestion	Quant	Outdoor workers may be exposed to contaminants in groundwater during excavation activities at these areas.
						Dermal	Quant	Dermal contact with contaminated groundwater may occur.
						Inhalation	Quant	Inhalation of volatile contaminants in groundwater impacting outdoor air may occur. Soil gas data used to assess exposure.
			Groundwater	Industrial Worker	Adult	Ingestion	Quant	Industrial workers may be exposed to contaminants in groundwater during use of groundwater for industrial processes and cleaning.
						Dermal	Quant	Industrial workers may be exposed to contaminants in groundwater during use of groundwater for industrial processes and cleaning.
						Inhalation	Quant	Industrial workers may inhale volatile contaminants from groundwater during use of groundwater for industrial processes and cleaning.
				Car Wash Worker	Adult	Ingestion	None	Direct contact with groundwater is not assumed.
						Dermal	None	Direct contact with groundwater is not assumed.
						Inhalation	Quant	Workers may be exposed to volatile contaminants impacting air during use of groundwater in a hot water car wash.

[a] Exposure assumptions which account for frequency of contact with media vary between current and future scenarios.

TABLE 2.1
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HB01-Baseflow (a)	156-59-2	cis-1,2-Dichloroethene	2	2	ug/L	SW-MC-05-0-S	3 / 3	N/A	2	N/A	6.1 N	N/A	N/A	N	BSL
	108-88-3	Toluene	4	4	ug/L	SW-MC-06-0	1 / 3	2	4	N/A	72 N	1300	AWQC	N	BSL
	79-01-6	Trichloroethene	2 J	2 J	ug/L	SW-MC-05-0-S	3 / 3	N/A	2	N/A	0.028 C	2.5	AWQC	Y	ASL
	65-85-0	Benzoic acid	69 J	69 J	ug/L	SW-04-IP	1 / 1	N/A	69	N/A	15000 N	N/A	N/A	N	BSL
	108-94-1	Cyclohexanone	290 J	290 J	ug/L	SW-04-IP	1 / 2	12	290	N/A	18000 N	N/A	N/A	N	BSL
	108-95-2	Phenol	7 J	7 J	ug/L	SW-04-IP	1 / 5	4 - 12	7	N/A	1100 N	21000	AWQC	N	BSL
	7429-90-5	Aluminum	78 J	78 J	ug/L	IPSW-02-071401	1 / 15	15.9 - 96.9	78	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	2.9 J	13.7 J	ug/L	IPSW-02-102201	2 / 15	1.6 - 18.3	13.7	N/A	1.5 N	5.6	AWQC	Y	ASL
	7440-38-2	Arsenic	12.2	32.7	ug/L	SW-MC-06-0	14 / 15	13.6	32.7	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	27	44.9	ug/L	IPSW-02-071602	15 / 15	N/A	44.9	N/A	260 N	1000	AWQC	N	BSL
	7440-43-9	Cadmium	0.43	1.2	ug/L	SW-04-IP	4 / 15	0.2 - 3.4	1.2	N/A	1.8 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	36100	69500	ug/L	SW-MC-06-0	14 / 15	45500	69500	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	1.2	9.5 J	ug/L	SW-MC-07-0-S	12 / 15	1.8 - 9	9.5	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.1 J	3.6	ug/L	IPSW-02-080602	8 / 15	0.7 - 4	3.6	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	5.5 J	23.1	ug/L	SW-04-IP	10 / 15	5.5 - 8.2	23.1	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	966	2280	ug/L	IPSW-02-071401	15 / 15	N/A	2280	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.1 J	3.1	ug/L	IPSW-02-071401	5 / 15	0.7 - 2.2	3.1	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	5720	8970	ug/L	SW-MC-07-0-S	14 / 15	6950	8970	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	291	724	ug/L	IPSW-02-071602	15 / 15	N/A	724	N/A	88 N	50	AWQC	Y	ASL
	7440-02-0	Nickel	1.6 J	3.9	ug/L	IPSW-02-091801	12 / 15	1.4 - 3.6	3.9	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	5390 J	8350 J	ug/L	IPSW-02-102201	12 / 12	N/A	8350	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	42700	63300	ug/L	IPSW-02-071602	12 / 12	N/A	63300	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	5.4 J	5.4 J	ug/L	IPSW-02-091801	1 / 15	1.2 - 6	5.4	N/A	0.24 N	0.24	AWQC	Y	ASL
	7440-62-2	Vanadium	0.78 J	5.1 J	ug/L	SW-MC-07-0-S	6 / 15	0.3 - 2.5	5.1	N/A	3.6 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	99.6	392	ug/L	SW-MC-05-0-S	15 / 15	N/A	392	N/A	1100 N	7400	AWQC	N	BSL
HB03-Baseflow (a)	156-59-2	cis-1,2-Dichloroethene	1 J	2	ug/L	SW-MC-08-0	2 / 4	2	2	N/A	6.1 N	N/A	N/A	N	BSL
	79-01-6	Trichloroethene	2 J	2 J	ug/L	SW-MC-08-0	1 / 4	2	2	N/A	0.028 C	2.5	AWQC	Y	ASL
	108-94-1	Cyclohexanone	100 J	100 J	ug/L	SW-09-IP	1 / 2	14	100	N/A	18000 N	N/A	N/A	N	BSL
	108-95-2	Phenol	6 J	6 J	ug/L	SW-09-IP	1 / 6	4 - 14	6	N/A	1100 N	21000	AWQC	N	BSL
	7429-90-5	Aluminum	84.2 J	468	ug/L	IPSW-04-082301	6 / 16	46.6 - 254	468	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	8.6	50.1	ug/L	SW-MC-09-0	16 / 16	N/A	50.1	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	26	48.3	ug/L	IPSW-04-071602	16 / 16	N/A	48.3	N/A	260 N	1000	AWQC	N	BSL
	7440-43-9	Cadmium	0.43	0.43	ug/L	IPSW-04-082301	1 / 16	0.2 - 0.78	0.43	N/A	1.8 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	39100	63600	ug/L	SW-MC-08-0	15 / 16	43400	63600	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	2.2 J	14.1	ug/L	IPSW-04-082301	11 / 16	1.1 - 9	14.1	N/A	11 N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	1.7	2.1	ug/L	IPSW-04-091801	5 / 16	0.7 - 3	2.1	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	2.7 J	19.2	ug/L	IPSW-04-082301	12 / 16	5.8 - 11.5	19.2	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1280	6140 J	ug/L	IPSW-04-082301	16 / 16	N/A	6140	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.1 J	10.3	ug/L	IPSW-04-082301	12 / 16	1.1 - 5	10.3	N/A	15 N	N/A	N/A	N	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7439-95-4	Magnesium	5970	8670	ug/L	IPSW-04-091801	15 / 16	6920	8670	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	313	846	ug/L	IPSW-04-071602	16 / 16	N/A	846	N/A	88 N	50	AWQC	Y	ASL
	7440-02-0	Nickel	1.5 J	3 J	ug/L	SW-MC-09-0	12 / 16	1.2 - 2.7	3	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	5630	8430 J	ug/L	IPSW-04-091801	12 / 12	N/A	8430	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	44300	92700	ug/L	IPSW-04-050802	12 / 12	N/A	92700	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.63	5.9 J	ug/L	SW-MC-09-0	7 / 16	0.4 - 1.4	5.9	N/A	3.6 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	27.1 J	332	ug/L	SW-MC-08-0	15 / 16	115	332	N/A	1100 N	7400	AWQC	N	BSL
AR-Baseflow (a)	7440-38-2	Arsenic	7.2	34.8	ug/L	IPSW-03-091002	9 / 10	11.1	34.8	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	23	35.6	ug/L	IPSW-03-091002	10 / 10	N/A	35.6	N/A	260 N	1000	AWQC	N	BSL
	7440-70-2	Calcium	34800	45800	ug/L	IPSW-03-091002	10 / 10	N/A	45800	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	1	2.8	ug/L	IPSW-03-091801	8 / 10	1.4 - 2.2	2.8	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	0.74 J	0.84 J	ug/L	IPSW-03-091801	4 / 10	0.4 - 1.6	0.84	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	0.79 J	6.2 J	ug/L	IPSW-03-050802	6 / 10	2.5 - 4.2	6.2	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1150	3570	ug/L	IPSW-03-091002	10 / 10	N/A	3570	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.6 J	1.6 J	ug/L	IPSW-03-062002	1 / 10	0.7 - 2.2	1.6	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	6530	9670	ug/L	IPSW-03-091002	10 / 10	N/A	9670	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	257	670	ug/L	IPSW-03-091801	10 / 10	N/A	670	N/A	88 N	50	AWQC	Y	ASL
	7440-02-0	Nickel	1.4 J	1.8 J	ug/L	IPSW-03-091801	6 / 10	0.7 - 2.1	1.8	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	3850 J	7150	ug/L	IPSW-03-050802	10 / 10	N/A	7150	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	59600	80700	ug/L	IPSW-03-071602	10 / 10	N/A	80700	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.53 J	0.64 J	ug/L	IPSW-03-071401	2 / 10	0.4 - 0.9	0.64	N/A	3.6 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	9.7 J	91.8 J	ug/L	IPSW-03-050802	9 / 10	23.3	91.8	N/A	1100 N	7400	AWQC	N	BSL

(a) Refer to Appendix 6B, Table 1 for samples included for each exposure point.
(1) Minimum/maximum detected concentration.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 2002d).
PRG for chromium VI has been used for chromium.
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (2002d)

TABLE 2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HB01-Baseflow (a)	156-59-2	cis-1,2-Dichloroethene	2	2	ug/L	SW-MC-05-0-S	3 / 3	N/A	2	N/A	6.1 N	N/A	N/A	N	BSL
	108-88-3	Toluene	4	4	ug/L	SW-MC-06-0	1 / 3	2	4	N/A	72 N	1300	AWQC	N	BSL
	79-01-6	Trichloroethene	2 J	2 J	ug/L	SW-MC-05-0-S	3 / 3	N/A	2	N/A	0.028 C	2.5	AWQC	Y	ASL
	65-85-0	Benzoic acid	69 J	69 J	ug/L	SW-04-IP	1 / 1	N/A	69	N/A	15000 N	N/A	N/A	N	BSL
	108-94-1	Cyclohexanone	290 J	290 J	ug/L	SW-04-IP	1 / 2	12	290	N/A	18000 N	N/A	N/A	N	BSL
	108-95-2	Phenol	7 J	7 J	ug/L	SW-04-IP	1 / 5	4 - 12	7	N/A	1100 N	21000	AWQC	N	BSL
	7429-90-5	Aluminum	78 J	78 J	ug/L	IPSW-02-071401	1 / 15	15.9 - 96.9	78	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	2.9 J	13.7 J	ug/L	IPSW-02-102201	2 / 15	1.6 - 18.3	13.7	N/A	1.5 N	5.6	AWQC	Y	ASL
	7440-38-2	Arsenic	12.2	32.7	ug/L	SW-MC-06-0	14 / 15	13.6	32.7	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	27	44.9	ug/L	IPSW-02-071602	15 / 15	N/A	44.9	N/A	260 N	1000	AWQC	N	BSL
	7440-43-9	Cadmium	0.43	1.2	ug/L	SW-04-IP	4 / 15	0.2 - 3.4	1.2	N/A	1.8 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	36100	69500	ug/L	SW-MC-06-0	14 / 15	45500	69500	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	1.2	9.5 J	ug/L	SW-MC-07-0-S	12 / 15	1.8 - 9	9.5	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.1 J	3.6	ug/L	IPSW-02-080602	8 / 15	0.7 - 4	3.6	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	5.5 J	23.1	ug/L	SW-04-IP	10 / 15	5.5 - 8.2	23.1	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	966	2280	ug/L	IPSW-02-071401	15 / 15	N/A	2280	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.1 J	3.1	ug/L	IPSW-02-071401	5 / 15	0.7 - 2.2	3.1	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	5720	8970	ug/L	SW-MC-07-0-S	14 / 15	6950	8970	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	291	724	ug/L	IPSW-02-071602	15 / 15	N/A	724	N/A	88 N	50	AWQC	Y	ASL
	7440-02-0	Nickel	1.6 J	3.9	ug/L	IPSW-02-091801	12 / 15	1.4 - 3.6	3.9	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	5390 J	8350 J	ug/L	IPSW-02-102201	12 / 12	N/A	8350	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	42700	63300	ug/L	IPSW-02-071602	12 / 12	N/A	63300	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	5.4 J	5.4 J	ug/L	IPSW-02-091801	1 / 15	1.2 - 6	5.4	N/A	0.24 N	0.24	AWQC	Y	ASL
	7440-62-2	Vanadium	0.78 J	5.1 J	ug/L	SW-MC-07-0-S	6 / 15	0.3 - 2.5	5.1	N/A	3.6 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	99.6	392	ug/L	SW-MC-05-0-S	15 / 15	N/A	392	N/A	1100 N	7400	AWQC	N	BSL

TABLE 2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HB01-Storm Event (a)	65-85-0	Benzoic acid	1 J	1 J	ug/L	SW-04-IP	1 / 3	57	1	N/A	15000 N	N/A	N/A	N	BSL
	108-94-1	Cyclohexanone	24	29	ug/L	SW-04A-IP	2 / 5	10 - 11	29	N/A	18000 N	N/A	N/A	N	BSL
	84-66-2	Diethylphthalate	0.1 J	0.2 J	ug/L	SW-04A-IP	2 / 5	11	0.2	N/A	2900 N	17000	AWQC	N	BSL
	84-74-2	Di-n-butylphthalate	0.2 J	0.2 J	ug/L	SW-04-IP	1 / 5	10 - 11	0.2	N/A	360 N	2000	AWQC	N	BSL
	7429-90-5	Aluminum	112	321	ug/L	IPSW-02-051502	4 / 10	31.3 - 271	321	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	6 J	81.5	ug/L	IPSW-02-051502	10 / 10	N/A	81.5	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	25 J	38	ug/L	IPSW-02-072502	9 / 10	27.5	38	N/A	260 N	1000	AWQC	N	BSL
	7440-43-9	Cadmium	0.49 J	2.4	ug/L	SW-04B-IP	5 / 10	0.4 - 0.48	2.4	N/A	1.8 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	38500	52200	ug/L	IPSW-02-101802	5 / 10	25900 - 54600	52200	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	2	5.3	ug/L	IPSW-02-051502	6 / 10	1 - 4.1	5.3	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.5 J	3.9	ug/L	IPSW-02-072502	5 / 10	1 - 3.3	3.9	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	7	10.5	ug/L	IPSW-02-072502	4 / 10	6.1 - 13.6	10.5	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	800	6520	ug/L	IPSW-02-101802	9 / 10	881	6520	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	2.6	6	ug/L	SW-04-IP	6 / 10	2 - 3.7	6	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	5360	7300	ug/L	IPSW-02-101802	5 / 10	3720 - 7710	7300	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	330	570	ug/L	SW-04A-IP	9 / 10	163	570	N/A	88 N	50	AWQC	Y	ASL
	7440-02-0	Nickel	1.7 J	4	ug/L	IPSW-02-101802	7 / 10	1.5 - 2.3	4	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	4990	8750	ug/L	SW-04A-IP	9 / 10	5100	8750	N/A	N/A	N/A	N/A	N	NUT
	7440-22-4	Silver	1.2 J	1.2 J	ug/L	IPSW-02-072502	1 / 10	0.4 - 1	1.2	N/A	18 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	35300	53100	ug/L	IPSW-02-042602	9 / 10	57900	53100	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.655 J	2.1	ug/L	IPSW-02-072502	5 / 10	0.87 - 3.4	2.1	N/A	3.6 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	96.9 J	267	ug/L	IPSW-02-042602	9 / 10	193	267	N/A	1100 N	7400	AWQC	N	BSL

TABLE 2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HB02-Baseflow (a)	156-59-2	cis-1,2-Dichloroethene	1 J	2	ug/L	SW-MC-08-0	2 / 4	2	2	N/A	6.1 N	N/A	N/A	N	BSL
	79-01-6	Trichloroethene	2 J	2 J	ug/L	SW-MC-08-0	1 / 4	2	2	N/A	0.028 C	2.5	AWQC	Y	ASL
	108-94-1	Cyclohexanone	100 J	100 J	ug/L	SW-09-IP	1 / 2	14	100	N/A	18000 N	N/A	N/A	N	BSL
	108-95-2	Phenol	6 J	6 J	ug/L	SW-09-IP	1 / 6	4 - 14	6	N/A	1100 N	21000	AWQC	N	BSL
	7429-90-5	Aluminum	84.2 J	468	ug/L	IPSW-04-082301	6 / 16	46.6 - 254	468	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	8.6	50.1	ug/L	SW-MC-09-0	16 / 16	N/A	50.1	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	26	48.3	ug/L	IPSW-04-071602	16 / 16	N/A	48.3	N/A	260 N	1000	AWQC	N	BSL
	7440-43-9	Cadmium	0.43	0.43	ug/L	IPSW-04-082301	1 / 16	0.2 - 0.78	0.43	N/A	1.8 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	39100	63600	ug/L	SW-MC-08-0	15 / 16	43400	63600	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	2.2 J	14.1	ug/L	IPSW-04-082301	11 / 16	1.1 - 9	14.1	N/A	11 N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	1.7	2.1	ug/L	IPSW-04-091801	5 / 16	0.7 - 3	2.1	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	2.7 J	19.2	ug/L	IPSW-04-082301	12 / 16	5.8 - 11.5	19.2	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1280	6140 J	ug/L	IPSW-04-082301	16 / 16	N/A	6140	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.1 J	10.3	ug/L	IPSW-04-082301	12 / 16	1.1 - 5	10.3	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	5970	8670	ug/L	IPSW-04-091801	15 / 16	6920	8670	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	313	846	ug/L	IPSW-04-071602	16 / 16	N/A	846	N/A	88 N	50	AWQC	Y	ASL
	7440-02-0	Nickel	1.5 J	3 J	ug/L	SW-MC-09-0	12 / 16	1.2 - 2.7	3	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	5630	8430 J	ug/L	IPSW-04-091801	12 / 12	N/A	8430	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	44300	92700	ug/L	IPSW-04-050802	12 / 12	N/A	92700	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.63	5.9 J	ug/L	SW-MC-09-0	7 / 16	0.4 - 1.4	5.9	N/A	3.6 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	27.1 J	332	ug/L	SW-MC-08-0	15 / 16	115	332	N/A	1100 N	7400	AWQC	N	BSL

TABLE 2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HB02-Storm Event (a)	102-12-7	Anthracene	0.1 J	0.1 J	ug/L	SW-09-IP	1 / 6	10 - 12	0.1	N/A	180 N	8300	AWQC	N	BSL
	65-85-0	Benzoic acid	0.9 J	0.9 J	ug/L	SW-09-IP	1 / 3	50 - 57	0.9	N/A	15000 N	N/A	N/A	N	BSL
	117-81-7	bis(2-Ethylhexyl)phthalate	120	120	ug/L	SW-09-IP	1 / 6	10 - 12	120	N/A	4.8 C	1.2	AWQC	Y	ASL
	108-94-1	Cyclohexanone	21	35	ug/L	SW-09-IP	2 / 6	10 - 11	35	N/A	18000 N	N/A	N/A	N	BSL
	84-66-2	Diethylphthalate	0.2 J	0.3 J	ug/L	SW-09-IP	3 / 6	10 - 11	0.3	N/A	2900 N	17000	AWQC	N	BSL
	84-74-2	Di-n-butylphthalate	0.2 J	0.2 J	ug/L	SW-09-IP	1 / 6	10 - 12	0.2	N/A	360 N	2000	AWQC	N	BSL
	206-44-0	Fluoranthene	0.2 J	0.2 J	ug/L	SW-09-IP	1 / 6	10 - 12	0.2	N/A	150 N	130	AWQC	N	BSL
	129-00-0	Pyrene	0.2 J	0.2 J	ug/L	SW-09-IP	1 / 6	10 - 12	0.2	N/A	18 N	830	AWQC	N	BSL
	7429-90-5	Aluminum	42	364	ug/L	SW-09-IP	9 / 12	55.9 - 181	364	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	0.77	2.7	ug/L	IPSW-04-00-051602	5 / 12	1.5 - 5	2.7	N/A	1.5 N	5.6	AWQC	Y	ASL
	7440-38-2	Arsenic	7.2	57	ug/L	IPSW-04-00-051602	12 / 12	N/A	57	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	27	39	ug/L	IPSW-04-042602	9 / 12	25.5 - 28.5	39	N/A	260 N	1000	AWQC	N	BSL
	7440-41-7	Beryllium	9.5	0.39	ug/L	IPSW-04-00-072502	5 / 12	0.1 - 0.5	0.39	N/A	7.3 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.11	0.22	ug/L	IPSW-04-00-083102	5 / 12	0.3 - 0.5	0.22	N/A	1.8 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	24800	47554	ug/L	IPSW-04-00-092502	7 / 12	25500 - 42000	47554	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	1.7 J	5.5	ug/L	IPSW-04-00-083102	10 / 12	3.3 - 4.2	5.5	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	0.89	1.8	ug/L	IPSW-04-00-101802	7 / 12	1 - 1.3	1.8	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	5.5	14	ug/L	IPSW-04-00-083102	5 / 12	6.6 - 12.4	14	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1140	4133	ug/L	IPSW-04-00-101802	11 / 12	1180	4133	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.7	6.4	ug/L	IPSW-04-00-083102	8 / 12	2 - 3.1	6.4	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	3560	6428	ug/L	IPSW-04-00-092502	7 / 12	4060 - 6230	6428	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	170	451	ug/L	IPSW-04-00-092502	12 / 12	N/A	451	N/A	88 N	50	AWQC	Y	ASL
	7439-97-6	Mercury	0.050	0.18	ug/L	IPSW-04-00-051602	5 / 12	0.1	0.18	N/A	1.1 N	N/A	N/A	N	BSL
	7440-02-0	Nickel	1.4	2.4 J	ug/L	SW-09-IP	8 / 12	1.5 - 3	2.4	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	3898	6968	ug/L	IPSW-04-00-092502	10 / 12	4780 - 5120	6968	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	1.2	2.7 J	ug/L	SW-09-IP	6 / 11	2.1 - 5	2.7	N/A	18 N	170	AWQC	N	BSL
	7440-22-4	Silver	0.28	1.0 J	ug/L	SW-09-IP	7 / 12	0.5 - 1	1.0	N/A	18 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	29167	51800	ug/L	IPSW-04-042602	11 / 12	63400	51800	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	1.3	2.4	ug/L	IPSW-04-00-092502	5 / 12	2.2 - 8.4	2.4	N/A	0.24 N	0.24	AWQC	Y	ASL
	7440-62-2	Vanadium	0.61	1.2	ug/L	IPSW-04-00-101802	6 / 12	1 - 1.4	1.2	N/A	3.6 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	82 J	198	ug/L	SW-09-IP	11 / 12	202	198	N/A	1100 N	7400	AWQC	N	BSL

TABLE 2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HB03-Baseflow (a)	156-59-2	cis-1,2-Dichloroethene	1 J	2	ug/L	SW-MC-08-0	2 / 4	2	2	N/A	6.1 N	N/A	N/A	N	BSL
	79-01-6	Trichloroethene	2 J	2 J	ug/L	SW-MC-08-0	1 / 4	2	2	N/A	0.028 C	2.5	AWQC	Y	ASL
	108-94-1	Cyclohexanone	100 J	100 J	ug/L	SW-09-IP	1 / 2	14	100	N/A	18000 N	N/A	N/A	N	BSL
	108-95-2	Phenol	6 J	6 J	ug/L	SW-09-IP	1 / 6	4 - 14	6	N/A	1100 N	21000	AWQC	N	BSL
	7429-90-5	Aluminum	84.2 J	468	ug/L	IPSW-04-082301	6 / 16	46.6 - 254	468	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	8.6	50.1	ug/L	SW-MC-09-0	16 / 16	N/A	50.1	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	26	48.3	ug/L	IPSW-04-071602	16 / 16	N/A	48.3	N/A	260 N	1000	AWQC	N	BSL
	7440-43-9	Cadmium	0.43	0.43	ug/L	IPSW-04-082301	1 / 16	0.2 - 0.78	0.43	N/A	1.8 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	39100	63600	ug/L	SW-MC-08-0	15 / 16	43400	63600	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	2.2 J	14.1	ug/L	IPSW-04-082301	11 / 16	1.1 - 9	14.1	N/A	11 N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	1.7	2.1	ug/L	IPSW-04-091801	5 / 16	0.7 - 3	2.1	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	2.7 J	19.2	ug/L	IPSW-04-082301	12 / 16	5.8 - 11.5	19.2	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1280	6140 J	ug/L	IPSW-04-082301	16 / 16	N/A	6140	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.1 J	10.3	ug/L	IPSW-04-082301	12 / 16	1.1 - 5	10.3	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	5970	8670	ug/L	IPSW-04-091801	15 / 16	6920	8670	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	313	846	ug/L	IPSW-04-071602	16 / 16	N/A	846	N/A	88 N	50	AWQC	Y	ASL
	7440-02-0	Nickel	1.5 J	3 J	ug/L	SW-MC-09-0	12 / 16	1.2 - 2.7	3	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	5630	8430 J	ug/L	IPSW-04-091801	12 / 12	N/A	8430	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	44300	92700	ug/L	IPSW-04-050802	12 / 12	N/A	92700	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.63	5.9 J	ug/L	SW-MC-09-0	7 / 16	0.4 - 1.4	5.9	N/A	3.6 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	27.1 J	332	ug/L	SW-MC-08-0	15 / 16	115	332	N/A	1100 N	7400	AWQC	N	BSL
HB03-Storm Event (a)	102-12-7	Anthracene	0.1 J	0.1 J	ug/L	SW-09-IP	1 / 6	10 - 12	0.1	N/A	180 N	8300	AWQC	N	BSL
	65-85-0	Benzoic acid	0.9 J	0.9 J	ug/L	SW-09-IP	1 / 3	50 - 57	0.9	N/A	15000 N	N/A	N/A	N	BSL
	117-81-7	bis(2-Ethylhexyl)phthalate	120	120	ug/L	SW-09-IP	1 / 6	10 - 12	120	N/A	4.8 C	1.2	AWQC	Y	ASL
	108-94-1	Cyclohexanone	21	35	ug/L	SW-09-IP	2 / 6	10 - 11	35	N/A	18000 N	N/A	N/A	N	BSL
	84-66-2	Diethylphthalate	0.2 J	0.3 J	ug/L	SW-09-IP	3 / 6	10 - 11	0.3	N/A	2900 N	17000	AWQC	N	BSL
	84-74-2	Di-n-butylphthalate	0.2 J	0.2 J	ug/L	SW-09-IP	1 / 6	10 - 12	0.2	N/A	360 N	2000	AWQC	N	BSL
	206-44-0	Fluoranthene	0.2 J	0.2 J	ug/L	SW-09-IP	1 / 6	10 - 12	0.2	N/A	150 N	130	AWQC	N	BSL
	129-00-0	Pyrene	0.2 J	0.2 J	ug/L	SW-09-IP	1 / 6	10 - 12	0.2	N/A	18 N	830	AWQC	N	BSL
	7429-90-5	Aluminum	42	364	ug/L	SW-09-IP	9 / 12	55.9 - 181	364	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	0.77	2.7	ug/L	IPSW-04-00-051602	5 / 12	1.5 - 5	2.7	N/A	1.5 N	5.6	AWQC	Y	ASL
	7440-38-2	Arsenic	7.2	57	ug/L	IPSW-04-00-051602	12 / 12	N/A	57	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	27	39	ug/L	IPSW-04-042602	9 / 12	25.5 - 28.5	39	N/A	260 N	1000	AWQC	N	BSL
	7440-41-7	Beryllium	9.5	0.39	ug/L	IPSW-04-00-072502	5 / 12	0.1 - 0.5	0.39	N/A	7.3 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.11	0.22	ug/L	IPSW-04-00-083102	5 / 12	0.3 - 0.5	0.22	N/A	1.8 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	24800	47554	ug/L	IPSW-04-00-092502	7 / 12	25500 - 42000	47554	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	1.7 J	5.5	ug/L	IPSW-04-00-083102	10 / 12	3.3 - 4.2	5.5	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	0.89	1.8	ug/L	IPSW-04-00-101802	7 / 12	1 - 1.3	1.8	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	5.5	14	ug/L	IPSW-04-00-083102	5 / 12	6.6 - 12.4	14	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1140	4133	ug/L	IPSW-04-00-101802	11 / 12	1180	4133	N/A	N/A	N/A	N/A	N	NTX

TABLE 2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7439-92-1	Lead	1.7	6.4	ug/L	IPSW-04-00-083102	8 / 12	2 - 3.1	6.4	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	3560	6428	ug/L	IPSW-04-00-092502	7 / 12	4060 - 6230	6428	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	170	451	ug/L	IPSW-04-00-092502	12 / 12	N/A	451	N/A	88 N	50	AWQC	Y	ASL
	7439-97-6	Mercury	0.050	0.18	ug/L	IPSW-04-00-051602	5 / 12	0.1	0.18	N/A	1.1 N	N/A	N/A	N	BSL
	7440-02-0	Nickel	1.4	2.4 J	ug/L	SW-09-IP	8 / 12	1.5 - 3	2.4	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	3898	6968	ug/L	IPSW-04-00-092502	10 / 12	4780 - 5120	6968	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	1.2	2.7 J	ug/L	SW-09-IP	6 / 11	2.1 - 5	2.7	N/A	18 N	170	AWQC	N	BSL
	7440-22-4	Silver	0.28	1.0 J	ug/L	SW-09-IP	7 / 12	0.5 - 1	1.0	N/A	18 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	29167	51800	ug/L	IPSW-04-042602	11 / 12	63400	51800	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	1.3	2.4	ug/L	IPSW-04-00-092502	5 / 12	2.2 - 8.4	2.4	N/A	0.24 N	0.24	AWQC	Y	ASL
	7440-62-2	Vanadium	0.61	1.2	ug/L	IPSW-04-00-101802	6 / 12	1 - 1.4	1.2	N/A	3.6 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	82 J	198	ug/L	SW-09-IP	11 / 12	202	198	N/A	1100 N	7400	AWQC	N	BSL
AR-Baseflow (a)	7440-38-2	Arsenic	7.2	34.8	ug/L	IPSW-03-091002	9 / 10	11.1	34.8	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	23	35.6	ug/L	IPSW-03-091002	10 / 10	N/A	35.6	N/A	260 N	1000	AWQC	N	BSL
	7440-70-2	Calcium	34800	45800	ug/L	IPSW-03-091002	10 / 10	N/A	45800	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	1	2.8	ug/L	IPSW-03-091801	8 / 10	1.4 - 2.2	2.8	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	0.74 J	0.84 J	ug/L	IPSW-03-091801	4 / 10	0.4 - 1.6	0.84	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	0.79 J	6.2 J	ug/L	IPSW-03-050802	6 / 10	2.5 - 4.2	6.2	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1150	3570	ug/L	IPSW-03-091002	10 / 10	N/A	3570	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.6 J	1.6 J	ug/L	IPSW-03-062002	1 / 10	0.7 - 2.2	1.6	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	6530	9670	ug/L	IPSW-03-091002	10 / 10	N/A	9670	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	257	670	ug/L	IPSW-03-091801	10 / 10	N/A	670	N/A	88 N	50	AWQC	Y	ASL
	7440-02-0	Nickel	1.4 J	1.8 J	ug/L	IPSW-03-091801	6 / 10	0.7 - 2.1	1.8	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	3850 J	7150	ug/L	IPSW-03-050802	10 / 10	N/A	7150	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	59600	80700	ug/L	IPSW-03-071602	10 / 10	N/A	80700	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.53 J	0.64 J	ug/L	IPSW-03-071401	2 / 10	0.4 - 0.9	0.64	N/A	3.6 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	9.7 J	91.8 J	ug/L	IPSW-03-050802	9 / 10	23.3	91.8	N/A	1100 N	7400	AWQC	N	BSL

TABLE 2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
AR-Storm Event (a)	7429-90-5	Aluminum	285	285	ug/L	IPSW-03-051502	1 / 6	78.7 - 254	285	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	7.5	28.4	ug/L	IPSW-03-101802	6 / 6	N/A	28.4	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	13.6	27.65	ug/L	IPSW-03-092502	6 / 6	N/A	27.65	N/A	260 N	1000	AWQC	N	BSL
	7440-70-2	Calcium	9370	24150	ug/L	IPSW-03-092502	6 / 6	N/A	24150	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	1.35	6.3	ug/L	IPSW-03-101802	5 / 6	1.7	6.3	N/A	11 N	N/A	N/A	N	BSL
	7440-50-8	Copper	6.7	11.8	ug/L	IPSW-03-101802	3 / 6	4 - 7.2	11.8	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1325	3145	ug/L	IPSW-03-101802	6 / 6	N/A	3145	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	2.9 J	3.8	ug/L	IPSW-03-051502	3 / 6	2.3 - 5.5	3.8	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	1440	4100	ug/L	IPSW-03-092502	6 / 6	N/A	4100	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	52.4	245.5	ug/L	IPSW-03-092502	6 / 6	N/A	245.5	N/A	88 N	50	AWQC	Y	ASL
	7439-97-6	Mercury	0.08 J	0.08 J	ug/L	IPSW-03-092502	1 / 6	0.1	0.08	N/A	1.1 N	N/A	N/A	N	BSL
	7440-02-0	Nickel	0.9 J	1.65 J	ug/L	IPSW-03-101802	4 / 6	0.6 - 1.6	1.65	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	1340	3725	ug/L	IPSW-03-092502	6 / 6	N/A	3725	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	11600	53400	ug/L	IPSW-03-042602	6 / 6	N/A	53400	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.36 J	0.8	ug/L	IPSW-03-042602	2 / 6	0.7 - 1.6	0.8	N/A	3.6 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	39.6 J	57.1	ug/L	IPSW-03-083102	6 / 6	N/A	57.1	N/A	1100 N	7400	AWQC	N	BSL
BE-2-Baseflow (a)	156-59-2	cis-1,2-Dichloroethene	2	2	ug/L	SW-MC-05-0-S	3 / 3	N/A	2	N/A	6.1 N	N/A	N/A	N	BSL
	108-88-3	Toluene	4	4	ug/L	SW-MC-06-0	1 / 3	2	4	N/A	72 N	1300	AWQC	N	BSL
	79-01-6	Trichloroethene	2 J	2 J	ug/L	SW-MC-05-0-S	3 / 3	N/A	2	N/A	0.028 C	2.5	AWQC	Y	ASL
	65-85-0	Benzoic acid	69 J	69 J	ug/L	SW-04-IP	1 / 1	N/A	69	N/A	15000 N	N/A	N/A	N	BSL
	108-94-1	Cyclohexanone	290 J	290 J	ug/L	SW-04-IP	1 / 2	12	290	N/A	18000 N	N/A	N/A	N	BSL
	108-95-2	Phenol	7 J	7 J	ug/L	SW-04-IP	1 / 5	4 - 12	7	N/A	1100 N	21000	AWQC	N	BSL
	7429-90-5	Aluminum	78 J	78 J	ug/L	IPSW-02-071401	1 / 15	15.9 - 96.9	78	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	2.9 J	13.7 J	ug/L	IPSW-02-102201	2 / 15	1.6 - 18.3	13.7	N/A	1.5 N	5.6	AWQC	Y	ASL
	7440-38-2	Arsenic	12.2	32.7	ug/L	SW-MC-06-0	14 / 15	13.6	32.7	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	27	44.9	ug/L	IPSW-02-071602	15 / 15	N/A	44.9	N/A	260 N	1000	AWQC	N	BSL
	7440-43-9	Cadmium	0.43	1.2	ug/L	SW-04-IP	4 / 15	0.2 - 3.4	1.2	N/A	1.8 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	36100	69500	ug/L	SW-MC-06-0	14 / 15	45500	69500	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	1.2	9.5 J	ug/L	SW-MC-07-0-S	12 / 15	1.8 - 9	9.5	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.1 J	3.6	ug/L	IPSW-02-080602	8 / 15	0.7 - 4	3.6	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	5.5 J	23.1	ug/L	SW-04-IP	10 / 15	5.5 - 8.2	23.1	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	966	2280	ug/L	IPSW-02-071401	15 / 15	N/A	2280	N/A	N/A	N/A	N/A	N	NTX

TABLE 2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7439-92-1	Lead	1.1 J	3.1	ug/L	IPSW-02-071401	5 / 15	0.7 - 2.2	3.1	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	5720	8970	ug/L	SW-MC-07-0-S	14 / 15	6950	8970	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	291	724	ug/L	IPSW-02-071602	15 / 15	N/A	724	N/A	88 N	50	AWQC	Y	ASL
	7440-02-0	Nickel	1.6 J	3.9	ug/L	IPSW-02-091801	12 / 15	1.4 - 3.6	3.9	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	5390 J	8350 J	ug/L	IPSW-02-102201	12 / 12	N/A	8350	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	42700	63300	ug/L	IPSW-02-071602	12 / 12	N/A	63300	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	5.4 J	5.4 J	ug/L	IPSW-02-091801	1 / 15	1.2 - 6	5.4	N/A	0.24 N	0.24	AWQC	Y	ASL
	7440-62-2	Vanadium	0.78 J	5.1 J	ug/L	SW-MC-07-0-S	6 / 15	0.3 - 2.5	5.1	N/A	3.6 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	99.6	392	ug/L	SW-MC-05-0-S	15 / 15	N/A	392	N/A	1100 N	7400	AWQC	N	BSL
BE-2-Storm Event (a)	65-85-0	Benzoic acid	1 J	1 J	ug/L	SW-04-IP	1 / 3	57	1	N/A	15000 N	N/A	N/A	N	BSL
	108-94-1	Cyclohexanone	24	29	ug/L	SW-04A-IP	2 / 5	10 - 11	29	N/A	18000 N	N/A	N/A	N	BSL
	84-66-2	Diethylphthalate	0.1 J	0.2 J	ug/L	SW-04A-IP	2 / 5	11	0.2	N/A	2900 N	17000	AWQC	N	BSL
	84-74-2	Di-n-butylphthalate	0.2 J	0.2 J	ug/L	SW-04-IP	1 / 5	10 - 11	0.2	N/A	360 N	2000	AWQC	N	BSL
	7429-90-5	Aluminum	112	321	ug/L	IPSW-02-051502	4 / 10	31.3 - 271	321	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	6 J	81.5	ug/L	IPSW-02-051502	10 / 10	N/A	81.5	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	25 J	38	ug/L	IPSW-02-072502	9 / 10	27.5	38	N/A	260 N	1000	AWQC	N	BSL
	7440-43-9	Cadmium	0.49 J	2.4	ug/L	SW-04B-IP	5 / 10	0.4 - 0.48	2.4	N/A	1.8 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	38500	52200	ug/L	IPSW-02-101802	5 / 10	25900 - 54600	52200	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	2	5.3	ug/L	IPSW-02-051502	6 / 10	1 - 4.1	5.3	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.5 J	3.9	ug/L	IPSW-02-072502	5 / 10	1 - 3.3	3.9	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	7	10.5	ug/L	IPSW-02-072502	4 / 10	6.1 - 13.6	10.5	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	800	6520	ug/L	IPSW-02-101802	9 / 10	881	6520	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	2.6	6	ug/L	SW-04-IP	6 / 10	2 - 3.7	6	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	5360	7300	ug/L	IPSW-02-101802	5 / 10	3720 - 7710	7300	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	330	570	ug/L	SW-04A-IP	9 / 10	163	570	N/A	88 N	50	AWQC	Y	ASL
	7440-02-0	Nickel	1.7 J	4	ug/L	IPSW-02-101802	7 / 10	1.5 - 2.3	4	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	4990	8750	ug/L	SW-04A-IP	9 / 10	5100	8750	N/A	N/A	N/A	N/A	N	NUT
	7440-22-4	Silver	1.2 J	1.2 J	ug/L	IPSW-02-072502	1 / 10	0.4 - 1	1.2	N/A	18 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	35300	53100	ug/L	IPSW-02-042602	9 / 10	57900	53100	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.655 J	2.1	ug/L	IPSW-02-072502	5 / 10	0.87 - 3.4	2.1	N/A	3.6 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	96.9 J	267	ug/L	IPSW-02-042602	9 / 10	193	267	N/A	1100 N	7400	AWQC	N	BSL

(a) Refer to Appendix 6B, Table 1 for samples included for each exposure point.
(1) Minimum/maximum detected concentration.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 2002d).
PRG for chromium VI has been used for chromium.
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
AWQC = Ambient Water Quality Criterion for Human Health (2002d)

TABLE 2.3
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Sediment
Exposure Medium: Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HB01/A6 (a)	75-34-3	1,1-Dichloroethane	0.027	0.027	mg/Kg	SD-MC-06	1 / 1	N/A	0.027	N/A	51 N	N/A	N/A	N	BSL
	67-64-1	Acetone	0.031 J	0.031 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.031	N/A	1400 N	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	0.017	0.017	mg/Kg	SD-MC-06	1 / 1	N/A	0.017	N/A	36 N	N/A	N/A	N	BSL
	156-59-2	cis-1,2-Dichloroethene	0.018	0.018	mg/Kg	SD-MC-06	1 / 1	N/A	0.018	N/A	4.3 N	N/A	N/A	N	BSL
	79-01-6	Trichloroethene	0.011	0.011	mg/Kg	SD-MC-06	1 / 1	N/A	0.011	N/A	0.053 C	N/A	N/A	N	BSL
	208-96-8	Acenaphthylene	0.08 J	0.08 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.08	N/A	5.6 N	N/A	N/A	N	BSL
	120-12-7	Anthracene	0.26 J	0.26 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.26	N/A	2200 N	N/A	N/A	N	BSL
	56-55-3	Benzo(a)anthracene	1.3	1.3	mg/Kg	SD-MC-06	1 / 1	N/A	1.3	N/A	0.62 C	N/A	N/A	Y	ASL
	50-32-8	Benzo(a)pyrene	1.4	1.4	mg/Kg	SD-MC-06	1 / 1	N/A	1.4	N/A	0.062 C	N/A	N/A	Y	ASL
	205-99-2	Benzo(b)fluoranthene	2.1	2.1	mg/Kg	SD-MC-06	1 / 1	N/A	2.1	N/A	0.62 C	N/A	N/A	Y	ASL
	191-24-2	Benzo(g,h,i)perylene	0.76	0.76	mg/Kg	SD-MC-06	1 / 1	N/A	0.76	N/A	5.6 N	N/A	N/A	N	BSL
	207-08-9	Benzo(k)fluoranthene	1.7	1.7	mg/Kg	SD-MC-06	1 / 1	N/A	1.7	N/A	6.2 C	N/A	N/A	N	BSL
	117-81-7	bis(2-Ethylhexyl)phthalate	37	37	mg/Kg	SD-MC-06	1 / 1	N/A	37	N/A	35 C	N/A	N/A	Y	ASL
	86-74-8	Carbazole	0.16 J	0.16 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.16	N/A	24 C	N/A	N/A	N	BSL
	218-01-9	Chrysene	1.8	1.8	mg/Kg	SD-MC-06	1 / 1	N/A	1.8	N/A	62 C	N/A	N/A	N	BSL
	53-70-3	Dibenz(a,h)anthracene	0.21 J	0.21 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.21	N/A	0.062 C	N/A	N/A	Y	ASL
	206-44-0	Fluoranthene	3.4	3.4	mg/Kg	SD-MC-06	1 / 1	N/A	3.4	N/A	230 N	N/A	N/A	N	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.94	0.94	mg/Kg	SD-MC-06	1 / 1	N/A	0.94	N/A	0.62 C	N/A	N/A	Y	ASL
	91-20-3	Naphthalene	0.11 J	0.11 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.11	N/A	5.6 N	N/A	N/A	N	BSL
	86-30-6	N-Nitrosodiphenylamine	0.15 J	0.15 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.15	N/A	99 C	N/A	N/A	N	BSL
	85-01-8	Phenanthrene	1	1	mg/Kg	SD-MC-06	1 / 1	N/A	1	N/A	5.6 N	N/A	N/A	N	BSL
	129-00-0	Pyrene	2.6	2.6	mg/Kg	SD-MC-06	1 / 1	N/A	2.6	N/A	230 N	N/A	N/A	N	BSL
	72-54-8	4,4'-DDD	0.022 J	0.022 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.022	N/A	2.4 C	N/A	N/A	N	BSL
	5103-71-9	alpha-Chlordane	0.092 J	0.092 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.092	N/A	1.6 C	N/A	N/A	N	BSL
	5103-74-2	gamma-Chlordane	0.093 J	0.093 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.093	N/A	1.6 C	N/A	N/A	N	BSL
	7429-90-5	Aluminum	2340	11900	mg/Kg	HB01-08	11 / 11	N/A	11900	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	1.3 J	17.7 J	mg/Kg	HB01-08	8 / 11	0.9 - 0.99	17.7	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	7.4	651	mg/Kg	HB01-08	11 / 11	N/A	651	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	6.2	134	mg/Kg	HB01-04	11 / 11	N/A	134	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.565	1.1	mg/Kg	HB01-08	3 / 11	0.42 - 0.49	1.1	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	1.9 J	35.2 J	mg/Kg	HB01-08	10 / 11	0.46	35.2	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	456 J	5480 J	mg/Kg	HB01-08	10 / 10	N/A	5480	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	10.2 J	790	mg/Kg	SD-MC-06	11 / 11	N/A	790	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	2	54.4	mg/Kg	HB01-08	11 / 11	N/A	54.4	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	22.6 J	2000 J	mg/Kg	HB01-05	11 / 11	N/A	2000	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	3740 J	54600 J	mg/Kg	HB01-08	11 / 11	N/A	54600	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	10.9 J	672 J	mg/Kg	HB01-04	11 / 11	N/A	672	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	831 J	3510 J	mg/Kg	HB01-03	10 / 10	N/A	3510	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	34.3 J	358	mg/Kg	SD-MC-06	11 / 11	N/A	358	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.06 J	2.7 J	mg/Kg	HB01-04	9 / 9	N/A	2.7	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	4.6	42.8	mg/Kg	HB01-08	11 / 11	N/A	42.8	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	281	2050	mg/Kg	HB01-03	10 / 10	N/A	2050	N/A	N/A	N/A	N/A	N	NUT

TABLE 2.3
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Sediment
Exposure Medium: Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7782-49-2	Selenium	0.45 J	8.4 J	mg/Kg	HB01-03	8 / 11	0.45 - 0.49	8.4	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.51	2	mg/Kg	SD-MC-06	6 / 11	0.42 - 0.49	2	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	70	321	mg/Kg	HB01-08	10 / 10	N/A	321	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	2	9.1 J	mg/Kg	HB01-08	3 / 11	0.84 - 0.99	9.1	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	5.4	43.7	mg/Kg	HB01-08	11 / 11	N/A	43.7	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	83.9 J	12900 J	mg/Kg	HB01-08	11 / 11	N/A	12900	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	0.16 J	8.5	mg/Kg	SD-MC-06	11 / 11	N/A	8.5	N/A	22 C	N/A	N/A	N	BSL
HB03 (a)	7429-90-5	Aluminum	7870	14600	mg/Kg	HB03-13	10 / 10	N/A	14600	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	1.7 J	8.1 J	mg/Kg	HB03-17	7 / 7	N/A	8.1	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	39.9 J	533 J	mg/Kg	HB03-16	10 / 10	N/A	533	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	35.7	171	mg/Kg	HB03-16	10 / 10	N/A	171	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.46	1.7	mg/Kg	HB03-14	9 / 10	0.45	1.7	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	3.2	15.5 J	mg/Kg	HB03-17	10 / 10	N/A	15.5	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	1880	7950	mg/Kg	HB03-16	10 / 10	N/A	7950	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	45.2	294	mg/Kg	HB03-13	10 / 10	N/A	294	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	5.7	55.3	mg/Kg	HB03-16	10 / 10	N/A	55.3	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	96.5	586	mg/Kg	HB03-12	10 / 10	N/A	586	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	10200	100000	mg/Kg	HB03-16	10 / 10	N/A	100000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	66.4	300	mg/Kg	HB03-13	10 / 10	N/A	300	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	1820	4930	mg/Kg	HB03-13	10 / 10	N/A	4930	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	109	2780	mg/Kg	HB03-09	10 / 10	N/A	2780	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.12 J	1.7 J	mg/Kg	HB03-12	9 / 9	N/A	1.7	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	14.4	33	mg/Kg	HB03-12	10 / 10	N/A	33	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	539 J	2470	mg/Kg	HB03-04	10 / 10	N/A	2470	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	1 J	4.9 J	mg/Kg	HB03-12	10 / 10	N/A	4.9	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.42	13.6	mg/Kg	HB03-15	9 / 10	0.42	13.6	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	265	4470	mg/Kg	HB03-14	10 / 10	N/A	4470	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	1.2 J	6.5 J	mg/Kg	HB03-16	6 / 7	0.6	6.5	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	23.1	69.1	mg/Kg	HB03-13	10 / 10	N/A	69.1	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	200	3520	mg/Kg	HB03-09	10 / 10	N/A	3520	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	0.48	3.2	mg/Kg	HB03-13	10 / 10	N/A	3.2	N/A	22 C	N/A	N/A	N	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Sediment
Exposure Medium: Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
AR (a)	7429-90-5	Aluminum	4340	19900	mg/Kg	AR04	6 / 6	N/A	19900	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	20.3	20.3	mg/Kg	AR04	1 / 6	1.1 - 4	20.3	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	16.1 J	889 J	mg/Kg	AR04	6 / 6	N/A	889	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	23.6 J	74.2 J	mg/Kg	AR04	6 / 6	N/A	74.2	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.3 J	1.8	mg/Kg	AR01	6 / 6	N/A	1.8	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.68	11.6	mg/Kg	AR04	6 / 6	N/A	11.6	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	2300	10100	mg/Kg	AR01	6 / 6	N/A	10100	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	18.1 J	1120 J	mg/Kg	AR04	6 / 6	N/A	1120	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	5.15	19.7	mg/Kg	AR04	6 / 6	N/A	19.7	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	61.1 J	1570 J	mg/Kg	AR04	6 / 6	N/A	1570	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	10600	36800	mg/Kg	AR02	6 / 6	N/A	36800	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	7.3	558	mg/Kg	AR04	6 / 6	N/A	558	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	719	3750	mg/Kg	AR05	6 / 6	N/A	3750	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	138 J	402 J	mg/Kg	AR04	6 / 6	N/A	402	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	1.3	2.8	mg/Kg	AR03	4 / 6	0.05 - 0.13	2.8	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	14.4	26.2	mg/Kg	AR04	6 / 6	N/A	26.2	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	117 J	1020 J	mg/Kg	AR05	6 / 6	N/A	1020	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	1.045 J	20 J	mg/Kg	AR04	6 / 6	N/A	20	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	4.2	18.5	mg/Kg	AR05	5 / 6	0.41	18.5	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	528 J	1580 J	mg/Kg	AR01	6 / 6	N/A	1580	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	1.55	3.6 J	mg/Kg	AR02	6 / 6	N/A	3.6	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	7.3	58.1	mg/Kg	AR04	6 / 6	N/A	58.1	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	156	1850	mg/Kg	AR01	6 / 6	N/A	1850	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.19 J	12 J	mg/Kg	AR04	6 / 6	N/A	12	N/A	22 C	N/A	N/A	N	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Sediment
Exposure Medium: Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
BE-1 (a)	7429-90-5	Aluminum	6020	7330	mg/Kg	BE02	2 / 2	N/A	7330	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	13.3	29.3	mg/Kg	BE02	2 / 2	N/A	29.3	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	42.8	63.5	mg/Kg	BE02	2 / 2	N/A	63.5	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.38	0.42	mg/Kg	BE02	2 / 2	N/A	0.42	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	1.8	1.9	mg/Kg	BE01	2 / 2	N/A	1.9	N/A	3.7 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	9310	18600	mg/Kg	BE02	2 / 2	N/A	18600	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	26.1	34.9	mg/Kg	BE02	2 / 2	N/A	34.9	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	6.8	6.9	mg/Kg	BE02	2 / 2	N/A	6.9	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	60.4	89	mg/Kg	BE02	2 / 2	N/A	89	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	10300	10500	mg/Kg	BE01	2 / 2	N/A	10500	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	83.2	143	mg/Kg	BE01	2 / 2	N/A	143	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	2540	3620	mg/Kg	BE02	2 / 2	N/A	3620	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	161	174	mg/Kg	BE01	2 / 2	N/A	174	N/A	180 N	N/A	N/A	N	BSL
	7439-97-6	Mercury	0.19 J	0.19 J	mg/Kg	BE01	1 / 2	0.12	0.19	N/A	0.61 N	N/A	N/A	N	BSL
	7440-02-0	Nickel	12.9	18.4	mg/Kg	BE02	2 / 2	N/A	18.4	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	541	628	mg/Kg	BE02	2 / 2	N/A	628	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	2.4 J	2.8 J	mg/Kg	BE01	2 / 2	N/A	2.8	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	1.3	5.2	mg/Kg	BE02	2 / 2	N/A	5.2	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	520	672	mg/Kg	BE02	2 / 2	N/A	672	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	28.9	30.4	mg/Kg	BE01	2 / 2	N/A	30.4	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	340 J	489 J	mg/Kg	BE01	2 / 2	N/A	489	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.28	0.37	mg/Kg	BE02	2 / 2	N/A	0.37	N/A	22 C	N/A	N/A	N	BSL

(a) Refer to Appendix B6, Table 2 for samples included for each exposure point.

(1) Minimum/maximum detected concentration. 1% of total chromium has been assumed to be present as chromium VI.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for residential soil (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
PRG for chromium III used for chromium.
PRG for methylmercury used for mercury.
The screening toxicity value for lead is the residential soil lead guidance level of 400 mg/Kg (USEPA, 1994a).
The most conservative PRG for all noncarcinogenic PAHs has been used for benzo(g,h,i)perylene, acenaphthylene, and phenanthrene.
PRG for chlordane has been used for alpha- and gamma-chlordane.
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic

TABLE 2.4
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HB01/A6 (a)	75-34-3	1,1-Dichloroethane	0.027	0.027	mg/Kg	SD-MC-06	1 / 1	N/A	0.027	N/A	51 N	N/A	N/A	N	BSL
	67-64-1	Acetone	0.031 J	0.031 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.031	N/A	1400 N	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	0.017	0.017	mg/Kg	SD-MC-06	1 / 1	N/A	0.017	N/A	36 N	N/A	N/A	N	BSL
	156-59-2	cis-1,2-Dichloroethene	0.018	0.018	mg/Kg	SD-MC-06	1 / 1	N/A	0.018	N/A	4.3 N	N/A	N/A	N	BSL
	79-01-6	Trichloroethene	0.011	0.011	mg/Kg	SD-MC-06	1 / 1	N/A	0.011	N/A	0.053 C	N/A	N/A	N	BSL
	208-96-8	Acenaphthylene	0.08 J	0.08 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.08	N/A	5.6 N	N/A	N/A	N	BSL
	120-12-7	Anthracene	0.26 J	0.26 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.26	N/A	2200 N	N/A	N/A	N	BSL
	56-55-3	Benzo(a)anthracene	1.3	1.3	mg/Kg	SD-MC-06	1 / 1	N/A	1.3	N/A	0.62 C	N/A	N/A	Y	ASL
	50-32-8	Benzo(a)pyrene	1.4	1.4	mg/Kg	SD-MC-06	1 / 1	N/A	1.4	N/A	0.062 C	N/A	N/A	Y	ASL
	205-99-2	Benzo(b)fluoranthene	2.1	2.1	mg/Kg	SD-MC-06	1 / 1	N/A	2.1	N/A	0.62 C	N/A	N/A	Y	ASL
	191-24-2	Benzo(g,h,i)perylene	0.76	0.76	mg/Kg	SD-MC-06	1 / 1	N/A	0.76	N/A	5.6 N	N/A	N/A	N	BSL
	207-08-9	Benzo(k)fluoranthene	1.7	1.7	mg/Kg	SD-MC-06	1 / 1	N/A	1.7	N/A	6.2 C	N/A	N/A	N	BSL
	117-81-7	bis(2-Ethylhexyl)phthalate	37	37	mg/Kg	SD-MC-06	1 / 1	N/A	37	N/A	35 C	N/A	N/A	Y	ASL
	86-74-8	Carbazole	0.16 J	0.16 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.16	N/A	24 C	N/A	N/A	N	BSL
	218-01-9	Chrysene	1.8	1.8	mg/Kg	SD-MC-06	1 / 1	N/A	1.8	N/A	62 C	N/A	N/A	N	BSL
	53-70-3	Dibenz(a,h)anthracene	0.21 J	0.21 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.21	N/A	0.062 C	N/A	N/A	Y	ASL
	206-44-0	Fluoranthene	3.4	3.4	mg/Kg	SD-MC-06	1 / 1	N/A	3.4	N/A	230 N	N/A	N/A	N	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.94	0.94	mg/Kg	SD-MC-06	1 / 1	N/A	0.94	N/A	0.62 C	N/A	N/A	Y	ASL
	91-20-3	Naphthalene	0.11 J	0.11 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.11	N/A	5.6 N	N/A	N/A	N	BSL
	86-30-6	N-Nitrosodiphenylamine	0.15 J	0.15 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.15	N/A	99 C	N/A	N/A	N	BSL
	85-01-8	Phenanthrene	1	1	mg/Kg	SD-MC-06	1 / 1	N/A	1	N/A	5.6 N	N/A	N/A	N	BSL
	129-00-0	Pyrene	2.6	2.6	mg/Kg	SD-MC-06	1 / 1	N/A	2.6	N/A	230 N	N/A	N/A	N	BSL
	72-54-8	4,4'-DDD	0.022 J	0.022 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.022	N/A	2.4 C	N/A	N/A	N	BSL
	5103-71-9	alpha-Chlordane	0.092 J	0.092 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.092	N/A	1.6 C	N/A	N/A	N	BSL
	5103-74-2	gamma-Chlordane	0.093 J	0.093 J	mg/Kg	SD-MC-06	1 / 1	N/A	0.093	N/A	1.6 C	N/A	N/A	N	BSL
	7429-90-5	Aluminum	2340	11900	mg/Kg	HB01-08	11 / 11	N/A	11900	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	1.3 J	17.7 J	mg/Kg	HB01-08	8 / 11	0.9 - 0.99	17.7	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	7.4	651	mg/Kg	HB01-08	11 / 11	N/A	651	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	6.2	134	mg/Kg	HB01-04	11 / 11	N/A	134	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.565	1.1	mg/Kg	HB01-08	3 / 11	0.42 - 0.49	1.1	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	1.9 J	35.2 J	mg/Kg	HB01-08	10 / 11	0.46	35.2	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	456 J	5480 J	mg/Kg	HB01-08	10 / 10	N/A	5480	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	10.2 J	790	mg/Kg	SD-MC-06	11 / 11	N/A	790	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	2	54.4	mg/Kg	HB01-08	11 / 11	N/A	54.4	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	22.6 J	2000 J	mg/Kg	HB01-05	11 / 11	N/A	2000	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	3740 J	54600 J	mg/Kg	HB01-08	11 / 11	N/A	54600	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	10.9 J	672 J	mg/Kg	HB01-04	11 / 11	N/A	672	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	831 J	3510 J	mg/Kg	HB01-03	10 / 10	N/A	3510	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	34.3 J	358	mg/Kg	SD-MC-06	11 / 11	N/A	358	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.06 J	2.7 J	mg/Kg	HB01-04	9 / 9	N/A	2.7	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	4.6	42.8	mg/Kg	HB01-08	11 / 11	N/A	42.8	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	281	2050	mg/Kg	HB01-03	10 / 10	N/A	2050	N/A	N/A	N/A	N/A	N	NUT

TABLE 2.4
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7782-49-2	Selenium	0.45 J	8.4 J	mg/Kg	HB01-03	8 / 11	0.45 - 0.49	8.4	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.51	2	mg/Kg	SD-MC-06	6 / 11	0.42 - 0.49	2	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	70	321	mg/Kg	HB01-08	10 / 10	N/A	321	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	2	9.1 J	mg/Kg	HB01-08	3 / 11	0.84 - 0.99	9.1	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	5.4	43.7	mg/Kg	HB01-08	11 / 11	N/A	43.7	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	83.9 J	12900 J	mg/Kg	HB01-08	11 / 11	N/A	12900	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	0.16 J	8.5	mg/Kg	SD-MC-06	11 / 11	N/A	8.5	N/A	22 C	N/A	N/A	N	BSL
HB02/HB04 (a)	7429-90-5	Aluminum	3200	15000	mg/Kg	HB02-17	11 / 11	0.0008 - 0.0063	15000	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	0.99 J	10.5 J	mg/Kg	HB02-14	7 / 7	0.0008 - 0.056	10.5	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	23.2 J	1220 J	mg/Kg	HB02-12	11 / 11	0.00041 - 0.029	1220	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	12	227	mg/Kg	HB02-12	11 / 11	0.008 - 0.56	227	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.66	1.7	mg/Kg	HB02-15	8 / 11	0.008 - 0.055	1.7	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.63	29.6 J	mg/Kg	HB02-13	11 / 11	0.008 - 0.56	29.6	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	1840 J	8710	mg/Kg	HB02-13	11 / 11	0.00041 - 0.029	8710	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	20.8	510	mg/Kg	HB02-04	11 / 11	0.00041 - 0.0033	510	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	4	90.95	mg/Kg	HB02-04	11 / 11	0.0008 - 0.056	90.95	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	27.8	809	mg/Kg	HB02-04	11 / 11	0.0008 - 0.056	809	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	9100	233000	mg/Kg	HB02-11	11 / 11	0.0008 - 0.0063	233000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	31.3	426	mg/Kg	HB02-17	11 / 11	0.0008 - 0.0063	426	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	1070	5330	mg/Kg	HB02-17	11 / 11	0.0008 - 0.056	5330	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	101	3900	mg/Kg	HB02-11	11 / 11	0.00041 - 0.0033	3900	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.07 J	1.55 J	mg/Kg	HB02-04	11 / 11	0.00041 - 0.029	1.55	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	6.6	48.1	mg/Kg	HB02-13	11 / 11	0.00041 - 0.029	48.1	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	246	1390	mg/Kg	HB02-17	11 / 11	0.0041 - 0.29	1390	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	1.1 J	8.7 J	mg/Kg	HB02-11	11 / 11	0.0041 - 0.30	8.7	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.48 J	1.4	mg/Kg	HB02-11	8 / 11	N/A	1.4	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	93.1	996 J	mg/Kg	HB02-13	11 / 11	3.9 - 27.8	996	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	4.3 J	17.8 J	mg/Kg	HB02-11	6 / 7	N/A	17.8	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	9.9	84.2	mg/Kg	HB02-17	11 / 11	N/A	84.2	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	126	7325	mg/Kg	HB02-04	11 / 11	0.2 - 0.55	7325	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	0.22	5.5	mg/Kg	HB02-04	11 / 11	N/A	5.5	N/A	22 C	N/A	N/A	N	BSL

TABLE 2.4
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HB03 (a)	7429-90-5	Aluminum	7870	14600	mg/Kg	HB03-13	10 / 10	N/A	14600	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	1.7 J	8.1 J	mg/Kg	HB03-17	7 / 7	N/A	8.1	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	39.9 J	533 J	mg/Kg	HB03-16	10 / 10	N/A	533	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	35.7	171	mg/Kg	HB03-16	10 / 10	N/A	171	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.46	1.7	mg/Kg	HB03-14	9 / 10	0.45	1.7	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	3.2	15.5 J	mg/Kg	HB03-17	10 / 10	N/A	15.5	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	1880	7950	mg/Kg	HB03-16	10 / 10	N/A	7950	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	45.2	294	mg/Kg	HB03-13	10 / 10	N/A	294	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	5.7	55.3	mg/Kg	HB03-16	10 / 10	N/A	55.3	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	96.5	586	mg/Kg	HB03-12	10 / 10	N/A	586	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	10200	100000	mg/Kg	HB03-16	10 / 10	N/A	100000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	66.4	300	mg/Kg	HB03-13	10 / 10	N/A	300	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	1820	4930	mg/Kg	HB03-13	10 / 10	N/A	4930	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	109	2780	mg/Kg	HB03-09	10 / 10	N/A	2780	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.12 J	1.7 J	mg/Kg	HB03-12	9 / 9	N/A	1.7	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	14.4	33	mg/Kg	HB03-12	10 / 10	N/A	33	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	539 J	2470	mg/Kg	HB03-04	10 / 10	N/A	2470	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	1 J	4.9 J	mg/Kg	HB03-12	10 / 10	N/A	4.9	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.42	13.6	mg/Kg	HB03-15	9 / 10	0.42	13.6	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	265	4470	mg/Kg	HB03-14	10 / 10	N/A	4470	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	1.2 J	6.5 J	mg/Kg	HB03-16	6 / 7	0.6	6.5	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	23.1	69.1	mg/Kg	HB03-13	10 / 10	N/A	69.1	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	200	3520	mg/Kg	HB03-09	10 / 10	N/A	3520	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	0.48	3.2	mg/Kg	HB03-13	10 / 10	N/A	3.2	N/A	22 C	N/A	N/A	N	BSL
AR (a)	7429-90-5	Aluminum	4340	19900	mg/Kg	AR04	6 / 6	N/A	19900	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	20.3	20.3	mg/Kg	AR04	1 / 6	1.1 - 4	20.3	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	16.1 J	889 J	mg/Kg	AR04	6 / 6	N/A	889	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	23.6 J	74.2 J	mg/Kg	AR04	6 / 6	N/A	74.2	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.3 J	1.8	mg/Kg	AR01	6 / 6	N/A	1.8	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.68	11.6	mg/Kg	AR04	6 / 6	N/A	11.6	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	2300	10100	mg/Kg	AR01	6 / 6	N/A	10100	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	18.1 J	1120 J	mg/Kg	AR04	6 / 6	N/A	1120	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	5.15	19.7	mg/Kg	AR04	6 / 6	N/A	19.7	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	61.1 J	1570 J	mg/Kg	AR04	6 / 6	N/A	1570	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	10600	36800	mg/Kg	AR02	6 / 6	N/A	36800	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	7.3	558	mg/Kg	AR04	6 / 6	N/A	558	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	719	3750	mg/Kg	AR05	6 / 6	N/A	3750	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	138 J	402 J	mg/Kg	AR04	6 / 6	N/A	402	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	1.3	2.8	mg/Kg	AR03	4 / 6	0.05 - 0.13	2.8	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	14.4	26.2	mg/Kg	AR04	6 / 6	N/A	26.2	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	117 J	1020 J	mg/Kg	AR05	6 / 6	N/A	1020	N/A	N/A	N/A	N/A	N	NUT

TABLE 2.4
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7782-49-2	Selenium	1.045 J	20 J	mg/Kg	AR04	6 / 6	N/A	20	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	4.2	18.5	mg/Kg	AR05	5 / 6	0.41	18.5	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	528 J	1580 J	mg/Kg	AR01	6 / 6	N/A	1580	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	1.55	3.6 J	mg/Kg	AR02	6 / 6	N/A	3.6	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	7.3	58.1	mg/Kg	AR04	6 / 6	N/A	58.1	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	156	1850	mg/Kg	AR01	6 / 6	N/A	1850	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.19 J	12 J	mg/Kg	AR04	6 / 6	N/A	12	N/A	22 C	N/A	N/A	N	BSL
BE-1 (a)	7429-90-5	Aluminum	3040	11100	mg/Kg	BE06	5 / 5	N/A	11100	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	13.3	75 J	mg/Kg	BE04	5 / 5	N/A	75	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	24.6 J	63.5	mg/Kg	BE02	5 / 5	N/A	63.5	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.27 J	0.72	mg/Kg	BE06	4 / 5	N/A	0.72	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	1.1	1.9	mg/Kg	BE01	5 / 5	N/A	1.9	N/A	3.7 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	9310	27500	mg/Kg	BE05	5 / 5	N/A	27500	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	26.1	182 J	mg/Kg	BE06	5 / 5	N/A	182	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	5	7.9	mg/Kg	BE06	5 / 5	N/A	7.9	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	31.8 J	89	mg/Kg	BE02	5 / 5	N/A	89	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	9820	14500	mg/Kg	BE06	5 / 5	N/A	14500	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	83.2	290	mg/Kg	BE06	5 / 5	N/A	290	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	796	3620	mg/Kg	BE02	5 / 5	N/A	3620	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	161	688 J	mg/Kg	BE04	5 / 5	N/A	688	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.19 J	0.19 J	mg/Kg	BE01	1 / 5	0.12	0.19	N/A	0.61 N	N/A	N/A	N	BSL
	7440-02-0	Nickel	12.9	23.4	mg/Kg	BE06	5 / 5	N/A	23.4	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	174 J	650 J	mg/Kg	BE06	5 / 5	N/A	650	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	2.4 J	5.3 J	mg/Kg	BE06	5 / 5	N/A	5.3	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.66	5.2	mg/Kg	BE02	5 / 5	N/A	5.2	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	399 J	672	mg/Kg	BE02	5 / 5	N/A	672	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	0.79 J	1.7 J	mg/Kg	BE06	3 / 5	N/A	1.7	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	28.9	69.8	mg/Kg	BE06	5 / 5	N/A	69.8	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	257	489 J	mg/Kg	BE01	5 / 5	N/A	489	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.28	2.0 J	mg/Kg	BE06	5 / 5	N/A	2.0	N/A	22 C	N/A	N/A	N	BSL
BE-2 (a)	7429-90-5	Aluminum	7990	15200	mg/Kg	BE09	4 / 4	N/A	15200	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	1.8	3.1	mg/Kg	BE09	4 / 4	N/A	3.1	N/A	3.1 N	N/A	N/A	N	BSL
	7440-38-2	Arsenic	122 J	375 J	mg/Kg	BE09	4 / 4	N/A	375	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	23.2	79.3	mg/Kg	BE09	4 / 4	N/A	79.3	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.7	0.9	mg/Kg	BE08	4 / 4	N/A	0.86	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	2.6 J	5	mg/Kg	BE08	4 / 4	N/A	5	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	2890	5440	mg/Kg	BE08	4 / 4	N/A	5440	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	49.8	74.7	mg/Kg	BE09	4 / 4	N/A	74.7	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	11.5	29.4	mg/Kg	BE11	4 / 4	N/A	29.4	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	134	206	mg/Kg	BE08	4 / 4	N/A	206	N/A	310 N	N/A	N/A	N	BSL

TABLE 2.4
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7439-89-6	Iron	13100	55600	mg/Kg	BE09	4 / 4	N/A	55600	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	147 J	199 J	mg/Kg	BE11	4 / 4	N/A	199	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	2730	5200	mg/Kg	BE09	4 / 4	N/A	5200	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	124	652	mg/Kg	BE10	4 / 4	N/A	652	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.16	0.38	mg/Kg	BE11	4 / 4	N/A	0.38	N/A	0.61 N	N/A	N/A	N	BSL
	7440-02-0	Nickel	18.3	29	mg/Kg	BE09	4 / 4	N/A	29	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	825	1710	mg/Kg	BE09	4 / 4	N/A	1710	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	1.9 J	4	mg/Kg	BE09	4 / 4	N/A	4	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.36 J	1.4	mg/Kg	BE09	4 / 4	N/A	1.4	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	1070 J	1470 J	mg/Kg	BE09	4 / 4	N/A	1470	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	1.3	2.7	mg/Kg	BE09	3 / 4	0.59	2.7	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	40.1	79.2	mg/Kg	BE09	4 / 4	N/A	79.2	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	596 J	3200 J	mg/Kg	BE11	4 / 4	N/A	3200	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	0.53	0.80	mg/Kg	BE09	4 / 4	N/A	0.80	N/A	22 C	N/A	N/A	N	BSL
SC01 (a)	7429-90-5	Aluminum	2300	5200	mg/Kg	SC0101	4 / 4	N/A	5200	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	23	150	mg/Kg	SC0101	2 / 4	20	150	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	6.5	19	mg/Kg	SC0101	4 / 4	N/A	19	N/A	540 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	4.8	4.8	mg/Kg	SC0101	1 / 4	1.4	4.8	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	670	1700	mg/Kg	SC0101	4 / 4	N/A	1700	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	6.5	120	mg/Kg	SC0101	4 / 4	N/A	120	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	3.8	14	mg/Kg	SC0101	2 / 4	2.9	14	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	6.1	200	mg/Kg	SC0101	3 / 4	2.9	200	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	3300	19000	mg/Kg	SC0101	4 / 4	N/A	19000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	72	72	mg/Kg	SC0101	1 / 4	9.6 - 9.8	72	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	710	1100	mg/Kg	SC0101	4 / 4	N/A	1100	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	46	270	mg/Kg	SC0101	4 / 4	N/A	270	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.73	0.73	mg/Kg	SC0101	1 / 4	0.061 - 0.062	0.73	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	6.1	11	mg/Kg	SC0101	3 / 4	5.8	11	N/A	160 N	N/A	N/A	N	BSL
	7440-62-2	Vanadium	4	11	mg/Kg	SC0101	4 / 4	N/A	11	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	30	990	mg/Kg	SC0101	4 / 4	N/A	990	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	6.97	1.29	mg/Kg	SC0101	4 / 4	N/A	1.29	N/A	22 C	N/A	N/A	N	BSL
SC02 (a)	7429-90-5	Aluminum	2300	15400	mg/Kg	SC0212	4 / 4	N/A	15400	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	27	1600	mg/Kg	SC0201	4 / 4	N/A	1600	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	7.8	240	mg/Kg	SC0201	4 / 4	N/A	240	N/A	540 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	20	34.9	mg/Kg	SC0212	2 / 4	1.5 - 1.6	34.9	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	650	9000	mg/Kg	SC0201	4 / 4	N/A	9000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	19	634	mg/Kg	SC0212	4 / 4	N/A	634	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	4.1	105	mg/Kg	SC0212	4 / 4	N/A	105	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	25	605	mg/Kg	SC0212	4 / 4	N/A	605	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	4200	250000	mg/Kg	SC0201	4 / 4	N/A	250000	N/A	N/A	N/A	N/A	N	NTX

TABLE 2.4
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7439-92-1	Lead	40	360	mg/Kg	SC0212	3 / 4	10	360	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	650	2730	mg/Kg	SC0212	4 / 4	N/A	2730	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	65	2300	mg/Kg	SC0201	4 / 4	N/A	2300	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.095	1.1	mg/Kg	SC0212	4 / 4	N/A	1.1	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	8.1	53.2	mg/Kg	SC0212	2 / 4	6 - 60	53.2	N/A	160 N	N/A	N/A	N	BSL
	7440-62-2	Vanadium	3.8	54.6	mg/Kg	SC0212	4 / 4	N/A	54.6	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	140	6670	mg/Kg	SC0212	4 / 4	N/A	6670	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	0.20	6.80	mg/Kg	SC0212	4 / 4	N/A	6.80	N/A	22 C	N/A	N/A	N	BSL
SC03 (a)	7429-90-5	Aluminum	2400	3600	mg/Kg	SC0301	4 / 4	N/A	3600	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	54	54	mg/Kg	SC0301	1 / 4	20	54	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	6.8	13	mg/Kg	SC0301	4 / 4	N/A	13	N/A	540 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	2.1	2.1	mg/Kg	SC0301	1 / 4	1.5	2.1	N/A	3.7 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	510	1000	mg/Kg	SC0301	4 / 4	N/A	1000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	4.8	31	mg/Kg	SC0301	4 / 4	N/A	31	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	8	8	mg/Kg	SC0301	1 / 4	3	8	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	3.5	53	mg/Kg	SC0301	4 / 4	N/A	53	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	2700	9700	mg/Kg	SC0301	4 / 4	N/A	9700	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	19	19	mg/Kg	SC0301	1 / 4	10	19	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	810	1100	mg/Kg	SC0301	4 / 4	N/A	1100	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	33	130	mg/Kg	SC0301	4 / 4	N/A	130	N/A	180 N	N/A	N/A	N	BSL
	7439-97-6	Mercury	0.11 J	0.11 J	mg/Kg	SC0301	1 / 4	0.025	0.11	N/A	0.61 N	N/A	N/A	N	BSL
	7440-02-0	Nickel	7.3	7.3	mg/Kg	SC0301	1 / 4	6	7.3	N/A	160 N	N/A	N/A	N	BSL
	7440-62-2	Vanadium	4.6	7.2	mg/Kg	SC0301	4 / 4	N/A	7.2	N/A	7.8 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	26	550	mg/Kg	SC0301	4 / 4	N/A	550	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	5.15	0.33	mg/Kg	SC0301	4 / 4	N/A	0.33	N/A	22 C	N/A	N/A	N	BSL

TABLE 2.4
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
SC04 (a)	7429-90-5	Aluminum	2300	5900	mg/Kg	SC0401	4 / 4	N/A	5900	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	30	140	mg/Kg	SC0401	4 / 4	N/A	140	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	8.5	32.5	mg/Kg	SC0401	4 / 4	N/A	32.5	N/A	540 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	5.45	5.45	mg/Kg	SC0401	1 / 4	1.4 - 1.5	5.45	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	600	2050	mg/Kg	SC0401	4 / 4	N/A	2050	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	14	280	mg/Kg	SC0401	4 / 4	N/A	280	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	2.9	12	mg/Kg	SC0401	4 / 4	N/A	12	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	10	290	mg/Kg	SC0401	4 / 4	N/A	290	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	3800	15500	mg/Kg	SC0401	4 / 4	N/A	15500	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	14	97.5	mg/Kg	SC0401	2 / 4	9.4 - 10	97.5	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	690	1300	mg/Kg	SC0401	4 / 4	N/A	1300	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	61	465	mg/Kg	SC0401	4 / 4	N/A	465	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.028	1.6	mg/Kg	SC0401	4 / 4	N/A	1.6	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	9.05	9.05	mg/Kg	SC0401	1 / 4	5.6 - 6	9.05	N/A	160 N	N/A	N/A	N	BSL
	7440-62-2	Vanadium	4.1	13	mg/Kg	SC0401	4 / 4	N/A	13	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	230	970	mg/Kg	SC0401	4 / 4	N/A	970	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.15	3.0	mg/Kg	SC0401	4 / 4	N/A	3.0	N/A	22 C	N/A	N/A	N	BSL

(a) Refer to Appendix 6B, Table 2 for samples included for each exposure point.

(1) Minimum/maximum detected concentration. 1% of total chromium has been assumed to be present as chromium VI.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for residential soil (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
PRG for chromium III used for chromium.
PRG for methylmercury used for mercury.
The screening toxicity value for lead is the residential soil lead guidance level of 400 mg/Kg (USEPA, 1994a).
The most conservative PRG for all noncarcinogenic PAHs has been used for benzo(g,h,i)perylene, acenaphthylene, and phenanthrene.
PRG for chlordane has been used for alpha- and gamma-chlordane.
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic

TABLE 2.5
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
SO (groundskeeper) (a)	75-35-4	1,1-Dichloroethene	0.002 J	0.01	mg/Kg	SO-12 (0-1)	5 / 20	0.001	0.01	N/A	12 N	N/A	N/A	N	BSL
	78-93-3	2-Butanone	0.00475 J	0.009 J	mg/Kg	SO-11 (0-1)	3 / 20	0.004 - 0.006	0.009	N/A	2200 N	N/A	N/A	N	BSL
	67-64-1	Acetone	0.009 J	0.1	mg/Kg	SO-11 (0-1)	18 / 20	0.008 - 0.009	0.1	N/A	1400 N	N/A	N/A	N	BSL
	71-43-2	Benzene	0.001 J	0.001 J	mg/Kg	SO-02 (0-1)	1 / 20	0.001	0.001	N/A	0.64 C	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	0.007	0.007	mg/Kg	SO-12 (0-1)	1 / 20	0.001	0.007	N/A	36 N	N/A	N/A	N	BSL
	83-32-9	Acenaphthene	0.22 J	0.22 J	mg/Kg	SO-09 (0-1)	1 / 20	0.035 - 0.04	0.22	N/A	370 N	N/A	N/A	N	BSL
	208-96-8	Acenaphthylene	0.044 J	0.11 J	mg/Kg	SO-19 (0-1)	3 / 20	0.035 - 0.04	0.11	N/A	5.6 N	N/A	N/A	N	BSL
	120-12-7	Anthracene	0.089 J	0.67	mg/Kg	SO-09 (0-1)	3 / 20	0.035 - 0.04	0.67	N/A	2200 N	N/A	N/A	N	BSL
	56-55-3	Benzo(a)anthracene	0.036 J	5.8	mg/Kg	SO-09 (0-1)	10 / 20	0.035 - 0.039	5.8	N/A	0.62 C	N/A	N/A	Y	ASL
	50-32-8	Benzo(a)pyrene	0.039 J	7.9	mg/Kg	SO-09 (0-1)	11 / 20	0.035 - 0.039	7.9	N/A	0.062 C	N/A	N/A	Y	ASL
	205-99-2	Benzo(b)fluoranthene	0.044 J	11	mg/Kg	SO-09 (0-1)	13 / 20	0.035 - 0.039	11	N/A	0.62 C	N/A	N/A	Y	ASL
	191-24-2	Benzo(g,h,i)perylene	0.042 J	5	mg/Kg	SO-09 (0-1)	8 / 20	0.035 - 0.039	5	N/A	5.6 N	N/A	N/A	N	BSL
	207-08-9	Benzo(k)fluoranthene	0.044 J	4.4	mg/Kg	SO-09 (0-1)	9 / 20	0.035 - 0.039	4.4	N/A	6.2 C	N/A	N/A	N	BSL
	117-81-7	bis(2-Ethylhexyl)phthalate	0.082 J	1.2	mg/Kg	SO-04 (0-1)	15 / 20	0.072 - 0.077	1.2	N/A	35 C	N/A	N/A	N	BSL
	85-68-7	Butylbenzylphthalate	0.076 J	0.076 J	mg/Kg	SO-09 (0-1)	1 / 20	0.071 - 0.081	0.076	N/A	1200 N	N/A	N/A	N	BSL
	86-74-8	Carbazole	0.076 J	1.6	mg/Kg	SO-09 (0-1)	2 / 20	0.071 - 0.081	1.6	N/A	24 C	N/A	N/A	N	BSL
	218-01-9	Chrysene	0.03175 J	9.4	mg/Kg	SO-09 (0-1)	13 / 20	0.035 - 0.039	9.4	N/A	62 C	N/A	N/A	N	BSL
	53-70-3	Dibenz(a,h)anthracene	0.043 J	1.3	mg/Kg	SO-09 (0-1)	4 / 20	0.035 - 0.04	1.3	N/A	0.062 C	N/A	N/A	Y	ASL
	132-64-9	Dibenzofuran	0.046 J	0.14 J	mg/Kg	SO-09 (0-1)	2 / 20	0.035 - 0.04	0.14	N/A	15 N	N/A	N/A	N	BSL
	206-44-0	Fluoranthene	0.037 J	19	mg/Kg	SO-09 (0-1)	15 / 20	0.035 - 0.039	19	N/A	230 N	N/A	N/A	N	BSL
	86-73-7	Fluorene	0.038 J	0.31 J	mg/Kg	SO-09 (0-1)	2 / 20	0.035 - 0.04	0.31	N/A	270 N	N/A	N/A	N	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.038 J	6	mg/Kg	SO-09 (0-1)	10 / 20	0.035 - 0.039	6	N/A	0.62 C	N/A	N/A	Y	ASL
	85-01-8	Phenanthrene	0.046 J	8.1	mg/Kg	SO-09 (0-1)	10 / 20	0.035 - 0.039	8.1	N/A	5.6 N	N/A	N/A	Y	ASL
	129-00-0	Pyrene	0.038 J	16	mg/Kg	SO-09 (0-1)	15 / 20	0.035 - 0.039	16	N/A	230 N	N/A	N/A	N	BSL
	7429-90-5	Aluminum	4500	13500 J	mg/Kg	SO-20 (0-1)	20 / 20	N/A	13500	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	0.82 J	2.6 J	mg/Kg	SO-13 (0-1)	4 / 20	0.67 - 0.78	2.6	N/A	3.1 N	N/A	N/A	N	BSL
	7440-38-2	Arsenic	5.7 J	192 J	mg/Kg	SO-13 (0-1)	20 / 20	N/A	192	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	11.2	47.9	mg/Kg	SO-18 (0-1)	20 / 20	N/A	47.9	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.2 J	0.67	mg/Kg	SO-20 (0-1)	8 / 20	0.23 - 0.56	0.67	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.078 J	2 J	mg/Kg	SO-16 (0-1)	8 / 20	0.061 - 1.2	2	N/A	3.7 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	763	5360	mg/Kg	SO-18 (0-1)	20 / 20	N/A	5360	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	8.9 J	274 J	mg/Kg	SO-14 (0-1)	20 / 20	N/A	274	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.4 J	11.3	mg/Kg	SO-18 (0-1)	20 / 20	N/A	11.3	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	7.1	300 J	mg/Kg	SO-14 (0-1)	20 / 20	N/A	300	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	4500	21300 J	mg/Kg	SO-18 (0-1)	20 / 20	N/A	21300	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	6.6 J	128 J	mg/Kg	SO-13 (0-1)	17 / 20	6.6 - 16.4	128	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	1280	7670 J	mg/Kg	SO-18 (0-1)	20 / 20	N/A	7670	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	56.3	384 J	mg/Kg	SO-18 (0-1)	20 / 20	N/A	384	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.0051 J	5.8 J	mg/Kg	SO-13 (0-1)	17 / 20	0.0026 - 0.016	5.8	N/A	0.61 N	N/A	N/A	Y	ASL

TABLE 2.5
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7440-02-0	Nickel	4.6 J	23.5	mg/Kg	SO-18 (0-1)	20 / 20	N/A	23.5	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	406	2280	mg/Kg	SO-18 (0-1)	20 / 20	N/A	2280	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	0.69 J	3.9	mg/Kg	SO-14 (0-1)	8 / 20	0.5 - 0.58	3.9	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.18 J	0.23 J	mg/Kg	SO-14 (0-1)	3 / 20	0.14 - 0.17	0.23	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	48.4 J	339	mg/Kg	SO-10 (0-1)	19 / 20	41.3	339	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	8.9	41	mg/Kg	SO-18 (0-1)	20 / 20	N/A	41	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	12.7	252 J	mg/Kg	SO-14 (0-1)	20 / 20	N/A	252	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.41	4.6	mg/Kg	SO-14 (0-1)	14 / 20	0.4	4.6	N/A	22 C	N/A	N/A	N	BSL
SO (Day Care Child) (a)	75-35-4	1,1-Dichloroethene	0.002 J	0.01	mg/Kg	SO-12 (0-1)	2 / 5	0.001	0.01	N/A	12 N	N/A	N/A	N	BSL
	78-93-3	2-Butanone	0.009 J	0.009 J	mg/Kg	SO-11 (0-1)	1 / 5	0.004 - 0.005	0.009	N/A	2200 N	N/A	N/A	N	BSL
	67-64-1	Acetone	0.0125 J	0.1	mg/Kg	SO-11 (0-1)	5 / 5	N/A	0.1	N/A	1400 N	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	0.007	0.007	mg/Kg	SO-12 (0-1)	1 / 5	0.001	0.007	N/A	36 N	N/A	N/A	N	BSL
	83-32-9	Acenaphthene	0.22 J	0.22 J	mg/Kg	SO-09 (0-1)	1 / 5	0.035 - 0.04	0.22	N/A	370 N	N/A	N/A	N	BSL
	208-96-8	Acenaphthylene	0.048 J	0.048 J	mg/Kg	SO-09 (0-1)	1 / 5	0.035 - 0.04	0.048	N/A	5.6 N	N/A	N/A	N	BSL
	120-12-7	Anthracene	0.67	0.67	mg/Kg	SO-09 (0-1)	1 / 5	0.035 - 0.04	0.67	N/A	2200 N	N/A	N/A	N	BSL
	56-55-3	Benzo(a)anthracene	0.14 J	5.8	mg/Kg	SO-09 (0-1)	4 / 5	0.035	5.8	N/A	0.62 C	N/A	N/A	Y	ASL
	50-32-8	Benzo(a)pyrene	0.17 J	7.9	mg/Kg	SO-09 (0-1)	4 / 5	0.035	7.9	N/A	0.062 C	N/A	N/A	Y	ASL
	205-99-2	Benzo(b)fluoranthene	0.048 J	11	mg/Kg	SO-09 (0-1)	5 / 5	N/A	11	N/A	0.62 C	N/A	N/A	Y	ASL
	191-24-2	Benzo(g,h,i)perylene	0.12 J	5	mg/Kg	SO-09 (0-1)	4 / 5	0.035	5	N/A	5.6 N	N/A	N/A	N	BSL
	207-08-9	Benzo(k)fluoranthene	0.096 J	4.4	mg/Kg	SO-09 (0-1)	4 / 5	0.035	4.4	N/A	6.2 C	N/A	N/A	N	BSL
	117-81-7	bis(2-Ethylhexyl)phthalate	0.12 J	0.59	mg/Kg	SO-12 (0-1)	4 / 5	0.075	0.59	N/A	35 C	N/A	N/A	N	BSL
	85-68-7	Butylbenzylphthalate	0.076 J	0.076 J	mg/Kg	SO-09 (0-1)	1 / 5	0.071 - 0.081	0.076	N/A	1200 N	N/A	N/A	N	BSL
	86-74-8	Carbazole	1.6	1.6	mg/Kg	SO-09 (0-1)	1 / 5	0.071 - 0.081	1.6	N/A	24 C	N/A	N/A	N	BSL
	218-01-9	Chrysene	0.037 J	9.4	mg/Kg	SO-09 (0-1)	5 / 5	N/A	9.4	N/A	62 C	N/A	N/A	N	BSL
	53-70-3	Dibenz(a,h)anthracene	0.043 J	1.3	mg/Kg	SO-09 (0-1)	2 / 5	0.035 - 0.04	1.3	N/A	0.062 C	N/A	N/A	Y	ASL
	132-64-9	Dibenzofuran	0.14 J	0.14 J	mg/Kg	SO-09 (0-1)	1 / 5	0.035 - 0.04	0.14	N/A	15 N	N/A	N/A	N	BSL
	206-44-0	Fluoranthene	0.057 J	19	mg/Kg	SO-09 (0-1)	5 / 5	N/A	19	N/A	230 N	N/A	N/A	N	BSL
	86-73-7	Fluorene	0.31 J	0.31 J	mg/Kg	SO-09 (0-1)	1 / 5	0.035 - 0.04	0.31	N/A	270 N	N/A	N/A	N	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.14 J	6	mg/Kg	SO-09 (0-1)	4 / 5	0.035	6	N/A	0.62 C	N/A	N/A	Y	ASL
	85-01-8	Phenanthrene	0.17 J	8.1	mg/Kg	SO-09 (0-1)	4 / 5	0.035	8.1	N/A	5.6 N	N/A	N/A	Y	ASL
	129-00-0	Pyrene	0.058 J	16	mg/Kg	SO-09 (0-1)	5 / 5	N/A	16	N/A	230 N	N/A	N/A	N	BSL
	7429-90-5	Aluminum	5375	8860 J	mg/Kg	SO-12 (0-1)	5 / 5	N/A	8860	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	11 J	64.4	mg/Kg	SO-09 (0-1)	5 / 5	N/A	64.4	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	16.55	42.3	mg/Kg	SO-12 (0-1)	5 / 5	N/A	42.3	N/A	540 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	1200	2650	mg/Kg	SO-12 (0-1)	5 / 5	N/A	2650	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	15.95 J	156 J	mg/Kg	SO-10 (0-1)	5 / 5	N/A	156	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	2.45 J	6.7	mg/Kg	SO-12 (0-1)	5 / 5	N/A	6.7	N/A	N/A	N/A	N/A	N	NTX

TABLE 2.5
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7440-50-8	Copper	13.95	124	mg/Kg	SO-09 (0-1)	5 / 5	N/A	124	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	7315	14200 J	mg/Kg	SO-12 (0-1)	5 / 5	N/A	14200	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	21.6 J	72.7 J	mg/Kg	SO-10 (0-1)	4 / 5	6.6	72.7	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	1975	4450 J	mg/Kg	SO-12 (0-1)	5 / 5	N/A	4450	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	91.5	186 J	mg/Kg	SO-12 (0-1)	5 / 5	N/A	186	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.013 J	2.1 J	mg/Kg	SO-09 (0-1)	5 / 5	N/A	2.1	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	8.2	15.3	mg/Kg	SO-09 (0-1)	5 / 5	N/A	15.3	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	826.5	1890	mg/Kg	SO-12 (0-1)	5 / 5	N/A	1890	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	0.69 J	0.69 J	mg/Kg	SO-09 (0-1)	1 / 5	0.51 - 0.58	0.69	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.18 J	0.18 J	mg/Kg	SO-11 (0-1)	1 / 5	0.15 - 0.17	0.18	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	164	339	mg/Kg	SO-10 (0-1)	5 / 5	N/A	339	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	11.25	22.5	mg/Kg	SO-12 (0-1)	5 / 5	N/A	22.5	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	26.8	71.5	mg/Kg	SO-10 (0-1)	5 / 5	N/A	71.5	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.86	2.6	mg/Kg	SO-10 (0-1)	3 / 5	0.4	2.6	N/A	22 C	N/A	N/A	N	BSL
HB01/A6 (a)	7429-90-5	Aluminum	3600	6530	mg/Kg	A612 (0-1)	13 / 13	N/A	6530	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	4.8 J	50.3 J	mg/Kg	A608 (0-1)	7 / 13	0.36 - 0.5	50.3	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	9.2	719	mg/Kg	A608 (0-1)	13 / 13	N/A	719	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	10.4	535	mg/Kg	A608 (0-1)	13 / 13	N/A	535	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.134 J	0.21	mg/Kg	A606 (0-1)	2 / 13	0.14 - 0.25	0.21	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.1 J	2.3 J	mg/Kg	A607 (0-1)	8 / 9	0.4	2.3	N/A	3.7 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	808 J	20400 J	mg/Kg	A610 (0-1)	13 / 13	N/A	20400	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	11.8	2680	mg/Kg	A610 (0-1)	13 / 13	N/A	2680	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.6	11 J	mg/Kg	A608 (0-1)	13 / 13	N/A	11	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	9.6	611	mg/Kg	A608 (0-1)	13 / 13	N/A	611	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	6030	66900	mg/Kg	A608 (0-1)	13 / 13	N/A	66900	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	10.3	5200	mg/Kg	A608 (0-1)	13 / 13	N/A	5200	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	932	2780	mg/Kg	A610 (0-1)	13 / 13	N/A	2780	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	54.8	353	mg/Kg	A606 (0-1)	13 / 13	N/A	353	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.086 J	9.6	mg/Kg	A608 (0-1)	12 / 13	0.051	9.6	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	4.9	16.6	mg/Kg	A611 (0-1)	13 / 13	N/A	16.6	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	473	971	mg/Kg	A610 (0-1)	13 / 13	N/A	971	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	2.2 J	7.6 J	mg/Kg	A608 (0-1)	6 / 13	0.95 - 3.2	7.6	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.84	16.6	mg/Kg	A608 (0-1)	8 / 13	0.11 - 0.13	16.6	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	602	602	mg/Kg	A608 (0-1)	1 / 13	106 - 555	602	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	1.3 J	42.4	mg/Kg	A608 (0-1)	13 / 13	N/A	42.4	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	9.2	37.4 J	mg/Kg	A611 (0-1)	13 / 13	N/A	37.4	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	25.7	901	mg/Kg	A610 (0-1)	13 / 13	N/A	901	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	1.0	45	mg/Kg	A610 (0-1)	8 / 13	0.4	45	N/A	22 C	N/A	N/A	Y	ASL

TABLE 2.5
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HB04 (a)	7429-90-5	Aluminum	2270	5150	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	5150	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	0.58 J	1.1 J	mg/Kg	HB04-03 (0-0.5)	7 / 10	0.6	1.1	N/A	3.1 N	N/A	N/A	N	BSL
	7440-38-2	Arsenic	9.6 J	32.9 J	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	32.9	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	7.1	17.7	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	17.7	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.21 J	0.3 J	mg/Kg	HB04-02 (0-0.5)	8 / 10	0.2	0.3	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.22 J	0.72	mg/Kg	HB04-04 (0-0.5)	9 / 10	0.2	0.72	N/A	3.7 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	611	1890	mg/Kg	HB04-07 (0-0.5)	10 / 10	N/A	1890	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	9.7	39	mg/Kg	HB04-03 (0-0.5)	10 / 10	N/A	39	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.6	4.2	mg/Kg	HB04-07 (0-0.5)	10 / 10	N/A	4.2	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	11.6	43.7	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	43.7	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	4040	8490	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	8490	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	7.9 J	49.5 J	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	49.5	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	900	2060	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	2060	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	47.9	97.8	mg/Kg	HB04-07 (0-0.5)	10 / 10	N/A	97.8	N/A	180 N	N/A	N/A	N	BSL
	7439-97-6	Mercury	0.08 J	0.32	mg/Kg	HB04-03 (0-0.5)	9 / 10	0.05	0.32	N/A	0.61 N	N/A	N/A	N	BSL
	7440-02-0	Nickel	4.4	8.3	mg/Kg	HB04-07 (0-0.5)	10 / 10	N/A	8.3	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	356	731	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	731	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	0.58 J	0.84 J	mg/Kg	HB04-09 (0-0.5)	6 / 10	0.57 - 0.61	0.84	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	221	1140 J	mg/Kg	HB04-04 (0-0.5)	10 / 10	N/A	1140	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	0.7 J	0.81 J	mg/Kg	HB04-03 (0-0.5)	6 / 10	0.6 - 0.61	0.81	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	5.5	13	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	13	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	23.9 J	83.8 J	mg/Kg	HB04-04 (0-0.5)	10 / 10	N/A	83.8	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.35	0.65	mg/Kg	HB04-03 (0-0.5)	7 / 10	0.4	0.65	N/A	22 C	N/A	N/A	N	BSL

(a) Refer to Appendix 6B, Table 3 for sample groupings for each exposure point.

(1) Minimum/maximum detected concentration. 2% of total chromium has been assumed to be present as chromium VI.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for residential soil (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
PRG for chromium III used for chromium.
PRG for methylmercury used for mercury.
The screening toxicity value for lead is the residential soil lead guidance level of 400 mg/Kg (USEPA, 1994a).
The most conservative PRG for all noncarcinogenic PAHs has been used for acenaphthylene, benzo(g,h,i)perylene, and phenanthrene.
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic

TABLE 2.6
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface and/or Subsurface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
SO (a) Surface Soil	75-35-4	1,1-Dichloroethene	0.002 J	0.01	mg/Kg	SO-12 (0-1)	5 / 20	0.001	0.01	N/A	12 N	N/A	N/A	N	BSL
	78-93-3	2-Butanone	0.00475 J	0.009 J	mg/Kg	SO-11 (0-1)	3 / 20	0.004 - 0.006	0.009	N/A	2200 N	N/A	N/A	N	BSL
	67-64-1	Acetone	0.009 J	0.1	mg/Kg	SO-11 (0-1)	18 / 20	0.008 - 0.009	0.1	N/A	1400 N	N/A	N/A	N	BSL
	71-43-2	Benzene	0.001 J	0.001 J	mg/Kg	SO-02 (0-1)	1 / 20	0.001	0.001	N/A	0.64 C	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	0.007	0.007	mg/Kg	SO-12 (0-1)	1 / 20	0.001	0.007	N/A	36 N	N/A	N/A	N	BSL
	83-32-9	Acenaphthene	0.22 J	0.22 J	mg/Kg	SO-09 (0-1)	1 / 20	0.035 - 0.04	0.22	N/A	370 N	N/A	N/A	N	BSL
	208-96-8	Acenaphthylene	0.044 J	0.11 J	mg/Kg	SO-19 (0-1)	3 / 20	0.035 - 0.04	0.11	N/A	5.6 N	N/A	N/A	N	BSL
	120-12-7	Anthracene	0.089 J	0.67	mg/Kg	SO-09 (0-1)	3 / 20	0.035 - 0.04	0.67	N/A	2200 N	N/A	N/A	N	BSL
	56-55-3	Benzo(a)anthracene	0.036 J	5.8	mg/Kg	SO-09 (0-1)	10 / 20	0.035 - 0.039	5.8	N/A	0.62 C	N/A	N/A	Y	ASL
	50-32-8	Benzo(a)pyrene	0.039 J	7.9	mg/Kg	SO-09 (0-1)	11 / 20	0.035 - 0.039	7.9	N/A	0.062 C	N/A	N/A	Y	ASL
	205-99-2	Benzo(b)fluoranthene	0.044 J	11	mg/Kg	SO-09 (0-1)	13 / 20	0.035 - 0.039	11	N/A	0.62 C	N/A	N/A	Y	ASL
	191-24-2	Benzo(g,h,i)perylene	0.042 J	5	mg/Kg	SO-09 (0-1)	8 / 20	0.035 - 0.039	5	N/A	5.6 N	N/A	N/A	N	BSL
	207-08-9	Benzo(k)fluoranthene	0.044 J	4.4	mg/Kg	SO-09 (0-1)	9 / 20	0.035 - 0.039	4.4	N/A	6.2 C	N/A	N/A	N	BSL
	117-81-7	bis(2-Ethylhexyl)phthalate	0.082 J	1.2	mg/Kg	SO-04 (0-1)	15 / 20	0.072 - 0.077	1.2	N/A	35 C	N/A	N/A	N	BSL
	85-68-7	Butylbenzylphthalate	0.076 J	0.076 J	mg/Kg	SO-09 (0-1)	1 / 20	0.071 - 0.081	0.076	N/A	1200 N	N/A	N/A	N	BSL
	86-74-8	Carbazole	0.076 J	1.6	mg/Kg	SO-09 (0-1)	2 / 20	0.071 - 0.081	1.6	N/A	24 C	N/A	N/A	N	BSL
	218-01-9	Chrysene	0.03175 J	9.4	mg/Kg	SO-09 (0-1)	13 / 20	0.035 - 0.039	9.4	N/A	62 C	N/A	N/A	N	BSL
	53-70-3	Dibenz(a,h)anthracene	0.043 J	1.3	mg/Kg	SO-09 (0-1)	4 / 20	0.035 - 0.04	1.3	N/A	0.062 C	N/A	N/A	Y	ASL
	132-64-9	Dibenzofuran	0.046 J	0.14 J	mg/Kg	SO-09 (0-1)	2 / 20	0.035 - 0.04	0.14	N/A	15 N	N/A	N/A	N	BSL
	206-44-0	Fluoranthene	0.037 J	19	mg/Kg	SO-09 (0-1)	15 / 20	0.035 - 0.039	19	N/A	230 N	N/A	N/A	N	BSL
	86-73-7	Fluorene	0.038 J	0.31 J	mg/Kg	SO-09 (0-1)	2 / 20	0.035 - 0.04	0.31	N/A	270 N	N/A	N/A	N	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.038 J	6	mg/Kg	SO-09 (0-1)	10 / 20	0.035 - 0.039	6	N/A	0.62 C	N/A	N/A	Y	ASL
	85-01-8	Phenanthrene	0.046 J	8.1	mg/Kg	SO-09 (0-1)	10 / 20	0.035 - 0.039	8.1	N/A	5.6 N	N/A	N/A	Y	ASL
	129-00-0	Pyrene	0.038 J	16	mg/Kg	SO-09 (0-1)	15 / 20	0.035 - 0.039	16	N/A	230 N	N/A	N/A	N	BSL
	7429-90-5	Aluminum	4500	13500 J	mg/Kg	SO-20 (0-1)	20 / 20	N/A	13500	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	0.82 J	2.6 J	mg/Kg	SO-13 (0-1)	4 / 20	0.67 - 0.78	2.6	N/A	3.1 N	N/A	N/A	N	BSL
	7440-38-2	Arsenic	5.7 J	192 J	mg/Kg	SO-13 (0-1)	20 / 20	N/A	192	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	11.2	47.9	mg/Kg	SO-18 (0-1)	20 / 20	N/A	47.9	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.2 J	0.67	mg/Kg	SO-20 (0-1)	8 / 20	0.23 - 0.56	0.67	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.078 J	2 J	mg/Kg	SO-16 (0-1)	8 / 20	0.061 - 1.2	2	N/A	3.7 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	763	5360	mg/Kg	SO-18 (0-1)	20 / 20	N/A	5360	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	8.9 J	274 J	mg/Kg	SO-14 (0-1)	20 / 20	N/A	274	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.4 J	11.3	mg/Kg	SO-18 (0-1)	20 / 20	N/A	11.3	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	7.1	300 J	mg/Kg	SO-14 (0-1)	20 / 20	N/A	300	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	4500	21300 J	mg/Kg	SO-18 (0-1)	20 / 20	N/A	21300	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	6.6 J	128 J	mg/Kg	SO-13 (0-1)	17 / 20	6.6 - 16.4	128	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	1280	7670 J	mg/Kg	SO-18 (0-1)	20 / 20	N/A	7670	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	56.3	384 J	mg/Kg	SO-18 (0-1)	20 / 20	N/A	384	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.0051 J	5.8 J	mg/Kg	SO-13 (0-1)	17 / 20	0.0026 - 0.016	5.8	N/A	0.61 N	N/A	N/A	Y	ASL

TABLE 2.6
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface and/or Subsurface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7440-02-0	Nickel	4.6 J	23.5	mg/Kg	SO-18 (0-1)	20 / 20	N/A	23.5	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	406	2280	mg/Kg	SO-18 (0-1)	20 / 20	N/A	2280	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	0.69 J	3.9	mg/Kg	SO-14 (0-1)	8 / 20	0.5 - 0.58	3.9	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.18 J	0.23 J	mg/Kg	SO-14 (0-1)	3 / 20	0.14 - 0.17	0.23	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	48.4 J	339	mg/Kg	SO-10 (0-1)	19 / 20	41.3	339	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	8.9	41	mg/Kg	SO-18 (0-1)	20 / 20	N/A	41	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	12.7	252 J	mg/Kg	SO-14 (0-1)	20 / 20	N/A	252	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.41	4.6	mg/Kg	SO-14 (0-1)	14 / 20	0.4	4.6	N/A	22 C	N/A	N/A	N	BSL
SO (a) Subsurface Soil	75-35-4	1,1-Dichloroethene	0.001 J	0.003 J	mg/Kg	SO-09 (4-4)	4 / 12	0.001 - 0.14	0.003	N/A	12 N	N/A	N/A	N	BSL
	78-93-3	2-Butanone	0.007 J	0.66 J	mg/Kg	SO-13 (8-8)	10 / 14	0.005 - 0.57	0.66	N/A	2200 N	N/A	N/A	N	BSL
	67-64-1	Acetone	0.015 J	1.5 J	mg/Kg	SO-13 (8-8)	11 / 14	0.46 - 1	1.5	N/A	1400 N	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	0.00325 J	0.099 J	mg/Kg	SO-13 (8-8)	3 / 13	0.001 - 0.14	0.099	N/A	36 N	N/A	N/A	N	BSL
	156-59-2	cis-1,2-Dichloroethene	0.011 J	0.011 J	mg/Kg	SO-11 (12-12)	1 / 13	0.001 - 0.14	0.011	N/A	4.3 N	N/A	N/A	N	BSL
	75-09-2	Methylene Chloride	0.016 J	0.016 J	mg/Kg	SO-11 (12-12)	1 / 13	0.002 - 0.29	0.016	N/A	9.1 C	N/A	N/A	N	BSL
	108-88-3	Toluene	0.012 J	0.012 J	mg/Kg	SO-11 (12-12)	1 / 13	0.001 - 0.14	0.012	N/A	66 N	N/A	N/A	N	BSL
	56-55-3	Benzo(a)anthracene	0.065 J	0.2 J	mg/Kg	SO-13 (8-8)	3 / 13	0.037 - 0.053	0.2	N/A	0.62 C	N/A	N/A	N	BSL
	50-32-8	Benzo(a)pyrene	0.046 J	0.23 J	mg/Kg	SO-09 (4-4)	4 / 13	0.037 - 0.053	0.23	N/A	0.062 C	N/A	N/A	Y	ASL
	205-99-2	Benzo(b)fluoranthene	0.03225 J	0.31 J	mg/Kg	SO-09 (4-4)	9 / 13	0.046 - 0.051	0.31	N/A	0.62 C	N/A	N/A	N	BSL
	191-24-2	Benzo(g,h,i)perylene	0.14 J	0.19 J	mg/Kg	SO-09 (4-4)	2 / 13	0.037 - 0.053	0.19	N/A	5.6 N	N/A	N/A	N	BSL
	207-08-9	Benzo(k)fluoranthene	0.13 J	0.13 J	mg/Kg	SO-09 (4-4)	1 / 12	0.037 - 0.053	0.13	N/A	6.2 C	N/A	N/A	N	BSL
	117-81-7	bis(2-Ethylhexyl)phthalate	0.098 J	1.5	mg/Kg	SO-08 (8-8)	13 / 14	0.076	1.5	N/A	35 C	N/A	N/A	N	BSL
	218-01-9	Chrysene	0.02925 J	0.29 J	mg/Kg	SO-13 (8-8)	7 / 13	0.041 - 0.051	0.29	N/A	62 C	N/A	N/A	N	BSL
	53-70-3	Dibenz(a,h)anthracene	0.046 J	0.046 J	mg/Kg	SO-09 (4-4)	1 / 12	0.037 - 0.053	0.046	N/A	0.062 C	N/A	N/A	N	BSL
	84-66-2	Diethylphthalate	0.43 J	0.43 J	mg/Kg	SO-11 (12-12)	1 / 13	0.075 - 0.11	0.43	N/A	4900 N	N/A	N/A	N	BSL
	206-44-0	Fluoranthene	0.03525 J	0.46	mg/Kg	SO-09 (4-4)	9 / 13	0.046 - 0.051	0.46	N/A	230 N	N/A	N/A	N	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.056 J	0.18 J	mg/Kg	SO-09 (4-4)	3 / 13	0.037 - 0.053	0.18	N/A	0.62 C	N/A	N/A	N	BSL
	91-20-3	Naphthalene	0.04825 J	0.11 J	mg/Kg	SO-16 (10-10)	2 / 12	0.038 - 0.053	0.11	N/A	5.6 N	N/A	N/A	N	BSL
	86-30-6	N-Nitrosodiphenylamine	0.0475 J	3.3 J	mg/Kg	SO-13 (8-8)	6 / 13	0.037 - 0.051	3.3	N/A	99 C	N/A	N/A	N	BSL
	85-01-8	Phenanthrene	0.07 J	0.23 J	mg/Kg	SO-09 (4-4)	3 / 12	0.037 - 0.053	0.23	N/A	5.6 N	N/A	N/A	N	BSL
	129-00-0	Pyrene	0.03625 J	0.54 J	mg/Kg	SO-13 (8-8)	9 / 13	0.046 - 0.051	0.54	N/A	230 N	N/A	N/A	N	BSL
	7429-90-5	Aluminum	3700	28500 J	mg/Kg	SO-13 (8-8)	14 / 14	N/A	28500	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	0.65 J	81.4 J	mg/Kg	SO-13 (8-8)	6 / 14	0.73 - 1	81.4	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	1.6 J	2680 J	mg/Kg	SO-13 (8-8)	14 / 14	N/A	2680	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	8 J	58.8	mg/Kg	SO-16 (10-10)	14 / 14	N/A	58.8	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.18 J	0.47 J	mg/Kg	SO-08 (8-8)	6 / 14	0.22 - 2	0.47	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.18 J	41.2 J	mg/Kg	SO-13 (8-8)	8 / 14	0.18 - 1.4	41.2	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	695	8380 J	mg/Kg	SO-13 (8-8)	14 / 14	N/A	8380	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	8.8 J	535.5 J	mg/Kg	SO-14 (8-8)	14 / 14	N/A	535.5	N/A	10000 N	N/A	N/A	N	BSL

TABLE 2.6
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface and/or Subsurface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7440-48-4	Cobalt	1.7 J	47.7 J	mg/Kg	SO-13 (8-8)	14 / 14	N/A	47.7	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	2.2 J	1600 J	mg/Kg	SO-13 (8-8)	14 / 14	N/A	1600	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	2990 J	86700 J	mg/Kg	SO-11 (12-12)	14 / 14	N/A	86700	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	8.2 J	1090 J	mg/Kg	SO-13 (8-8)	12 / 14	7.8 - 15.6	1090	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	658 J	5570 J	mg/Kg	SO-16 (10-10)	14 / 14	N/A	5570	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	31.4 J	304 J	mg/Kg	SO-16 (10-10)	14 / 14	N/A	304	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.017 J	9.2 J	mg/Kg	SO-13 (8-8)	14 / 14	N/A	9.2	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	2.8 J	21.9	mg/Kg	SO-16 (10-10)	14 / 14	N/A	21.9	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	306	1900	mg/Kg	SO-16 (10-10)	14 / 14	N/A	1900	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	0.4575 J	22.3 J	mg/Kg	SO-13 (8-8)	12 / 14	0.61 - 0.68	22.3	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.195 J	1.1 J	mg/Kg	SO-13 (8-8)	2 / 13	0.15 - 0.22	1.1	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	60 J	831 J	mg/Kg	SO-13 (8-8)	13 / 14	59	831	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	3.5 J	6.9 J	mg/Kg	SO-13 (8-8)	2 / 14	0.92 - 1.4	6.9	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	7.3	68.8 J	mg/Kg	SO-13 (8-8)	14 / 14	N/A	68.8	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	58.2 J	7390 J	mg/Kg	SO-13 (8-8)	14 / 14	N/A	7390	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	0.47	8.9	mg/Kg	SO-14 (8-8)	13 / 14	0.4	8.9	N/A	22 C	N/A	N/A	N	BSL
HB01/A6 (a) Surface Soil	7429-90-5	Aluminum	3600	6530	mg/Kg	A612 (0-1)	13 / 13	N/A	6530	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	4.8 J	50.3 J	mg/Kg	A608 (0-1)	7 / 13	0.36 - 0.5	50.3	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	9.2	719	mg/Kg	A608 (0-1)	13 / 13	N/A	719	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	10.4	535	mg/Kg	A608 (0-1)	13 / 13	N/A	535	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.134 J	0.21	mg/Kg	A606 (0-1)	2 / 13	0.14 - 0.25	0.21	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.1 J	2.3 J	mg/Kg	A607 (0-1)	8 / 9	0.4	2.3	N/A	3.7 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	808 J	20400 J	mg/Kg	A610 (0-1)	13 / 13	N/A	20400	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	11.8	2680	mg/Kg	A610 (0-1)	13 / 13	N/A	2680	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.6	11 J	mg/Kg	A608 (0-1)	13 / 13	N/A	11	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	9.6	611	mg/Kg	A608 (0-1)	13 / 13	N/A	611	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	6030	66900	mg/Kg	A608 (0-1)	13 / 13	N/A	66900	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	10.3	5200	mg/Kg	A608 (0-1)	13 / 13	N/A	5200	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	932	2780	mg/Kg	A610 (0-1)	13 / 13	N/A	2780	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	54.8	353	mg/Kg	A606 (0-1)	13 / 13	N/A	353	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.086 J	9.6	mg/Kg	A608 (0-1)	12 / 13	0.051	9.6	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	4.9	16.6	mg/Kg	A611 (0-1)	13 / 13	N/A	16.6	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	473	971	mg/Kg	A610 (0-1)	13 / 13	N/A	971	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	2.2 J	7.6 J	mg/Kg	A608 (0-1)	6 / 13	0.95 - 3.2	7.6	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.84	16.6	mg/Kg	A608 (0-1)	8 / 13	0.11 - 0.13	16.6	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	602	602	mg/Kg	A608 (0-1)	1 / 13	106 - 555	602	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	1.3 J	42.4	mg/Kg	A608 (0-1)	13 / 13	N/A	42.4	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	9.2	37.4 J	mg/Kg	A611 (0-1)	13 / 13	N/A	37.4	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	25.7	901	mg/Kg	A610 (0-1)	13 / 13	N/A	901	N/A	2300 N	N/A	N/A	N	BSL

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Exposure Medium: Surface and/or Subsurface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7440-47-3	Chromium VI	1.0	45	mg/Kg	A610 (0-1)	8 / 13	0.4	45	N/A	22 C	N/A	N/A	Y	ASL
HB01/A6 (a) Subsurface Soil	7429-90-5	Aluminum	2060	7520	mg/Kg	A610 (1-2)	24 / 24	N/A	7520	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	6.3	30.95 J	mg/Kg	A607 (2-3)	12 / 24	0.37 - 1.5	30.95	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	7.4	744	mg/Kg	A607 (1-2)	24 / 24	N/A	744	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	10	255	mg/Kg	A607 (1-2)	24 / 24	N/A	255	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.1425 J	0.1425 J	mg/Kg	A604 (1-2)	1 / 24	0.078 - 0.36	0.1425	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.076 J	2.8 J	mg/Kg	A607 (2-3)	18 / 19	0.13	2.8	N/A	3.7 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	685	14000 J	mg/Kg	A610 (2-3)	23 / 24	316	14000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	9.8	2120	mg/Kg	A611 (1-2)	24 / 24	N/A	2120	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.4	8.5 J	mg/Kg	A607 (1-2)	24 / 24	N/A	8.5	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	18.5	668	mg/Kg	A607 (1-2)	24 / 24	N/A	668	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	4270	45600	mg/Kg	A607 (1-2)	24 / 24	N/A	45600	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	7.8	2780	mg/Kg	A607 (1-2)	24 / 24	N/A	2780	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	628	2710	mg/Kg	A606 (1-2)	24 / 24	N/A	2710	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	41	186	mg/Kg	A606 (1-2)	24 / 24	N/A	186	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.082 J	11.8	mg/Kg	A607 (1-2)	24 / 24	N/A	11.8	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	4.5	13.5	mg/Kg	A612 (1-2)	24 / 24	N/A	13.5	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	255	893	mg/Kg	A612 (1-2)	24 / 24	N/A	893	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	2.2 J	7.3 J	mg/Kg	A607 (2-3)	12 / 24	0.96 - 3	7.3	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.15 J	7.4	mg/Kg	A607 (1-2)	15 / 24	0.12	7.4	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	607	644	mg/Kg	A607 (2-3)	2 / 24	103 - 418	644	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	1.7 J	27.8	mg/Kg	A607 (1-2)	23 / 24	2.1	27.8	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	6.3	31.2 J	mg/Kg	A607 (1-2)	24 / 24	N/A	31.2	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	18.8	879.5	mg/Kg	A607 (2-3)	24 / 24	N/A	879.5	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.47	30	mg/Kg	A610 (2-3)	15 / 24	0.4	30	N/A	22 C	N/A	N/A	Y	ASL

TABLE 2.6
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
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Exposure Medium: Surface and/or Subsurface Soil

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HB02/HB04 (a)	7429-90-5	Aluminum	2270	5150	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	5150	N/A	N/A	N/A	N/A	N	NTX
Surface Soil	7440-36-0	Antimony	0.58 J	1.1 J	mg/Kg	HB04-03 (0-0.5)	7 / 10	0.6	1.1	N/A	3.1 N	N/A	N/A	N	BSL
	7440-38-2	Arsenic	9.6 J	32.9 J	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	32.9	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	7.1	17.7	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	17.7	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.21 J	0.3 J	mg/Kg	HB04-02 (0-0.5)	8 / 10	0.2	0.3	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.22 J	0.72	mg/Kg	HB04-04 (0-0.5)	9 / 10	0.2	0.72	N/A	3.7 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	611	1890	mg/Kg	HB04-07 (0-0.5)	10 / 10	N/A	1890	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	9.7	39	mg/Kg	HB04-03 (0-0.5)	10 / 10	N/A	39	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.6	4.2	mg/Kg	HB04-07 (0-0.5)	10 / 10	N/A	4.2	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	11.6	43.7	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	43.7	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	4040	8490	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	8490	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	7.9 J	49.5 J	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	49.5	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	900	2060	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	2060	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	47.9	97.8	mg/Kg	HB04-07 (0-0.5)	10 / 10	N/A	97.8	N/A	180 N	N/A	N/A	N	BSL
	7439-97-6	Mercury	0.08 J	0.32	mg/Kg	HB04-03 (0-0.5)	9 / 10	0.05	0.32	N/A	0.61 N	N/A	N/A	N	BSL
	7440-02-0	Nickel	4.4	8.3	mg/Kg	HB04-07 (0-0.5)	10 / 10	N/A	8.3	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	356	731	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	731	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	0.58 J	0.84 J	mg/Kg	HB04-09 (0-0.5)	6 / 10	0.57 - 0.61	0.84	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	221	1140 J	mg/Kg	HB04-04 (0-0.5)	10 / 10	N/A	1140	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	0.7 J	0.81 J	mg/Kg	HB04-03 (0-0.5)	6 / 10	0.6 - 0.61	0.81	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	5.5	13	mg/Kg	HB04-02 (0-0.5)	10 / 10	N/A	13	N/A	7.8 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	23.9 J	83.8 J	mg/Kg	HB04-04 (0-0.5)	10 / 10	N/A	83.8	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.35	0.65	mg/Kg	HB04-03 (0-0.5)	7 / 10	0.4	0.65	N/A	22 C	N/A	N/A	N	BSL

(a) Refer to Appendix 6B, Table 3 for sample groupings for each exposure point.

(1) Minimum/maximum detected concentration. 2% of total chromium has been assumed to be present as chromium VI.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for residential soil (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
PRG for chromium III used for chromium.
PRG for methylmercury used for mercury.
The screening toxicity value for lead is the residential soil lead guidance level of 400 mg/Kg (USEPA, 1994a).
The most conservative PRG for all noncarcinogenic PAHs has been used for acenaphthylene, benzo(g,h,i)perylene, and phenanthrene.
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic

TABLE 2.7
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future
Medium: Surface Water/Sediment
Exposure Medium: Fish Fillet Tissue

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)		Maximum Concentration (Qualifier) (1)		Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
HBHA (a)	7429-90-5	Aluminum	0.29	J	0.29	J	mg/Kg	FI-MC-HBHA3-WS5-F	1 / 28	10	0.29	N/A	N/A		N/A	N/A	N	NTX
	7440-38-2	Arsenic	0.018	J	0.51		mg/Kg	FI-MC-HBHA3-BB2-F	28 / 28	N/A	0.51	N/A	0.0021	C	N/A	N/A	Y	ASL
	7440-39-3	Barium	0.094	J	0.094	J	mg/Kg	FI-MC-HBHA3-WS5-F	1 / 28	10	0.094	N/A	9.5	N	N/A	N/A	N	BSL
	7440-47-3	Chromium	0.84	J	0.84	J	mg/Kg	FI-MC-HBHA3-WS5-F	1 / 28	1	0.84	N/A	0.41	N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	0.0057	J	0.0057	J	mg/Kg	FI-MC-HBHA3-WS5-F	1 / 28	10	0.0057	N/A	N/A		N/A	N/A	N	NTX
	7440-50-8	Copper	0.3	J	0.30	J	mg/Kg	FI-MC-HBHA3-WS5-F	1 / 28	10	0.30	N/A	5.4	N	N/A	N/A	N	BSL
	7439-89-6	Iron	7.8	J	7.8	J	mg/Kg	FI-MC-HBHA3-WS5-F	1 / 28	10	7.8	N/A	N/A		N/A	N/A	N	NTX
	7439-96-5	Manganese	0.32	J	0.32	J	mg/Kg	FI-MC-HBHA3-WS5-F	1 / 28	10	0.32	N/A	19	N	N/A	N/A	N	BSL
	7439-97-6	Mercury	0.1		0.36		mg/Kg	FI-MC-HBHAP-WS7-F	16 / 28	0.1	0.36	N/A	0.014	N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	0.026	J	0.026	J	mg/Kg	FI-MC-HBHA3-WS5-F	1 / 28	10	0.026	N/A	2.7	N	N/A	N/A	N	BSL
	7782-49-2	Selenium	0.51		0.83		mg/Kg	FI-MC-HBHA3-WS10-F	13 / 28	0.5	0.83	N/A	0.68	N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	0.16	J	0.16	J	mg/Kg	FI-MC-HBHA3-WS5-F	1 / 28	0.5	0.16	N/A	0.14	N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	3.7		14		mg/Kg	FI-MC-HBHA3-WS10-F	28 / 28	N/A	14	N/A	41	N	N/A	N/A	N	BSL

(a) Samples included are as follows: FI-MC-HBHA3-BB1-F, FI-MC-HBHA3-BB2-F, FI-MC-HBHA3-LMB1-F, FI-MC-HBHA3-LMB2-F, FI-MC-HBHA3-LMB3-F, FI-MC-HBHA3-WS10-F, FI-MC-HBHA3-WS1-F, FI-MC-HBHA3-WS2-F, FI-MC-HBHA3-WS5-F, FI-MC-HBHA3-WS9-F, FI-MC-HBHAP-BB1-F, FI-MC-HBHAP-BB2-F, FI-MC-HBHAP-BB3-F, FI-MC-HBHAP-LMB1-F, FI-MC-HBHAP-LMB2-F, FI-MC-HBHAP-LMB3-F, FI-MC-HBHAP-LMB4-F, FI-MC-HBHAP-LMB5-F, FI-MC-HBHAP-LMB6-F, FI-MC-HBHAP-LMB7-F, FI-MC-HBHAP-LMB8-F, FI-MC-HBHAP-LMB9-F, FI-MC-HBHAP-WS1-F, FI-MC-HBHAP-WS4-F, FI-MC-HBHAP-WS5-F, FI-MC-HBHAP-WS6-F, FI-MC-HBHAP-WS7-F, and FI-MC-HBHAP-WS8-F; See Appendix 6B, Table 4 for additional information.

(1) Minimum/maximum detected concentration.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region III RBCs for fish (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
RBC for manganese is associated with food intake.
RBC for chromium VI has been used for chromium.
RBC for methylmercury has been used for mercury.
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
RBC = Risk-Based Concentration
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic

TABLE 2.8
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Study Area (a)	71-55-6	1,1,1-Trichloroethane	0.11 J	3.4	ug/L	IPGW-AE04-0088-020502	12 / 153	0.5 - 10	3.4	N/A	320 N	200	MCL	N	BSL
	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1.7	3.6	ug/L	IPGW-AE04-0088-020502	3 / 67	0.5 - 10	3.6	N/A	5900 N	N/A	N/A	N	BSL
	75-34-3	1,1-Dichloroethane	0.24 J	9.9	ug/L	IPGW-AC03-0033-041002	27 / 153	0.5 - 10	9.9	N/A	81 N	N/A	N/A	N	BSL
	75-35-4	1,1-Dichloroethene	0.4 J	8.4	ug/L	IPGW-AE03-0050-020402	11 / 153	0.5 - 10	8.4	N/A	34 N	7	MCL	Y	ASL
	120-82-1	1,2,4-Trichlorobenzene	0.11 J	0.25 J	ug/L	IPGW-AP01-0019-012302	3 / 67	0.5 - 10	0.25	N/A	0.72 N	70	MCL	N	BSL
	95-50-1	1,2-Dichlorobenzene	0.54	11	ug/L	CB5-02-GW-03	14 / 149	0.5 - 10	11	N/A	37 N	600	MCL	N	BSL
	107-06-2	1,2-Dichloroethane	0.17 J	48	ug/L	CW5-05-GW-02R	2 / 153	0.5 - 10	48	N/A	0.12 C	5	MCL	Y	ASL
	541-73-1	1,3-Dichlorobenzene	0.11 J	1.25	ug/L	IPGW-AC03-0015-041102	2 / 67	0.5 - 10	1.25	N/A	18 N	N/A	N/A	N	BSL
	106-46-7	1,4-Dichlorobenzene	0.125 J	6 J	ug/L	CB5-02-GW-03	10 / 149	0.5 - 10	6	N/A	0.5 C	75	MCL	Y	ASL
	78-93-3	2-Butanone	11	470	ug/L	CW5-05-GW-02R	8 / 153	3 - 100	470	N/A	700 N	N/A	N/A	N	BSL
	108-10-1	4-Methyl-2-Pentanone	3 J	120	ug/L	CB5-03-GW-03	6 / 153	2 - 100	120	N/A	200 N	N/A	N/A	N	BSL
	67-64-1	Acetone	6 J	16000	ug/L	CW5-05-GW-02R	17 / 153	3.3 - 100	16000	N/A	550 N	N/A	N/A	Y	ASL
	71-43-2	Benzene	0.1 J	69000	ug/L	RX-17S	126 / 445	0.5 - 10	69000	N/A	0.34 C	5	MCL	Y	ASL
	75-15-0	Carbon Disulfide	0.15 J	9	ug/L	CE4-03-GW-01NS-072301	5 / 153	0.5 - 10	9	N/A	100 N	N/A	N/A	N	BSL
	108-90-7	Chlorobenzene	1 J	35	ug/L	CB3-02-GW-03	13 / 153	0.5 - 10	35	N/A	11 N	100	N/A	Y	ASL
	75-00-3	Chloroethane	37 J	37 J	ug/L	IPGW-AC05-0029-040802	1 / 153	0.5 - 10	37	N/A	4.6 C	N/A	N/A	Y	ASL
	67-66-3	Chloroform	0.43 J	4 J	ug/L	P1-03-GW-01	4 / 153	0.5 - 10	4	N/A	0.17 C	N/A	N/A	Y	ASL
	156-59-2	cis-1,2-Dichloroethene	0.2 J	50	ug/L	CW5-03-GW-03NS	21 / 153	0.5 - 10	50	N/A	6.1 N	70	MCL	Y	ASL
	100-41-4	Ethylbenzene	0.24 J	17	ug/L	CB6-03-GW-02	22 / 153	0.5 - 10	17	N/A	130 N	700	MCL	N	BSL
	98-82-8	Isopropylbenzene	0.39 J	0.89 J	ug/L	IPGW-MW04-0036-032802	3 / 67	0.5 - 10	0.89	N/A	66 N	N/A	N/A	N	BSL
	1634-04-4	Methyl tert-Butyl Ether	0.1 J	4000 J	ug/L	IPGW-AF02-0014-032702	29 / 70	0.5 - 2.5	4000	N/A	6.2 C	N/A	N/A	Y	ASL
	100-42-5	Styrene	0.17 J	0.17 J	ug/L	IPGW-AC04-0028-040902	1 / 153	0.5 - 10	0.17	N/A	160 N	100	MCL	N	BSL
	127-18-4	Tetrachloroethene	0.21 J	2 J	ug/L	CW5-03-GW-03NS	9 / 153	0.5 - 10	2	N/A	0.1 C	5	MCL	Y	ASL
	108-88-3	Toluene	0.21 J	3600	ug/L	B5-03-GW-03	79 / 445	0.2 - 10	3600	N/A	72 N	1000	MCL	Y	ASL
	156-60-5	trans-1,2-Dichloroethene	0.19 J	2.1	ug/L	IPGW-AC03-0015-041102	4 / 153	0.5 - 10	2.1	N/A	12 N	100	MCL	N	BSL
	79-01-6	Trichloroethene	0.15 J	110 J	ug/L	IPGW-AE03-0050-020402	31 / 153	0.5 - 10	110	N/A	0.028 C	5	MCL	Y	ASL
	75-01-4	Vinyl Chloride	0.61	1.25 J	ug/L	IPGW-AC03-0015-041102	3 / 153	0.5 - 10	1.25	N/A	0.02 C	2	MCL	Y	ASL
	1330-20-7	Xylene, total	0.25 J	120	ug/L	CB6-03-GW-02	24 / 153	0.5 - 10	120	N/A	21 N	10000	MCL	Y	ASL
	120-83-2	2,4-Dichlorophenol	1 J	35	ug/L	CW5-05-GW-02R	6 / 70	0.9 - 2	35	N/A	11 N	N/A	N/A	Y	ASL
	105-67-9	2,4-Dimethylphenol	1 J	11	ug/L	CW5-05-GW-02R	7 / 70	0.9 - 2	11	N/A	73 N	N/A	N/A	N	BSL
	91-58-7	2-Chloronaphthalene	2 J	22	ug/L	CB6-03-GW-02	4 / 68	0.9 - 2	22	N/A	49 N	N/A	N/A	N	BSL
	95-57-8	2-Chlorophenol	1 J	1 J	ug/L	CW5-05-GW-02R	1 / 70	0.9 - 2	1	N/A	3 N	N/A	N/A	N	BSL
	95-48-7	2-Methylphenol	1 J	200	ug/L	CW5-05-GW-02R	7 / 70	0.9 - 2	200	N/A	180 N	N/A	N/A	Y	ASL
	59-50-7	4-Chloro-3-methylphenol	2 J	22	ug/L	CW5-05-GW-02R	8 / 70	0.9 - 2	22	N/A	3 N	N/A	N/A	N	NTX
	106-44-5	4-Methylphenol	3 J	1900	ug/L	CW5-05-GW-02R	8 / 70	3 - 7	1900	N/A	N/A	N/A	N/A	N	BSL
	83-32-9	Acenaphthene	1 J	1 J	ug/L	CW5-08-GW-01	1 / 68	0.9 - 2	1	N/A	37 N	N/A	N/A	N	BSL
	117-81-7	bis(2-Ethylhexyl)phthalate	4 J	15	ug/L	P1-04-GW-04	4 / 67	2 - 4	15	N/A	4.8 C	6	MCL	Y	ASL
	117-84-0	Di-n-octylphthalate	2 J	2 J	ug/L	P1-02-GW-04	1 / 68	2 - 4	2	N/A	150 N	N/A	N/A	N	BSL
	86-73-7	Fluorene	2 J	2 J	ug/L	CB7-03-GW-02R	1 / 68	0.9 - 2	2	N/A	24 N	N/A	N/A	N	BSL
	91-20-3	Naphthalene	3 J	220	ug/L	CW5-05-GW-02R	12 / 68	0.9 - 2	220	N/A	0.62 N	N/A	N/A	Y	ASL
	86-30-6	N-Nitrosodiphenylamine	1 J	7 J	ug/L	CB4-03-GW-03	5 / 69	0.9 - 2	7	N/A	14 C	N/A	N/A	N	BSL
	87-86-5	Pentachlorophenol	10 J	10 J	ug/L	CW5-05-GW-02R	1 / 70	3 - 7	10	N/A	0.56 C	1	MCL	Y	ASL

TABLE 2.8
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)		Maximum Concentration (Qualifier) (1)		Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)		Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	108-95-2	Phenol	1	J	36		ug/L	CW5-05-GW-02R	11 / 70	0.9 - 2	36	N/A	1100	N	N/A	N/A	N	BSL
	7429-90-5	Aluminum	35.05	J	9760		ug/L	P1-02-GW-02	53 / 137	19.6 - 308	9760	N/A	N/A		N/A	N/A	N	NTX
	7440-36-0	Antimony	1.6	J	49.7	J	ug/L	CB7-01-GW-01	3 / 137	1.5 - 29.5	49.7	N/A	1.5	N	6	MCL	Y	ASL
	7440-38-2	Arsenic	0.161	J	24432.5		ug/L	B7-01-GW-01	288 / 357	0.2 - 7.3	24432.5	N/A	0.045	C	10	MCL	Y	ASL
	7440-39-3	Barium	4	J	1540		ug/L	CB7-01-GW-01	135 / 136	17.5	1540	N/A	260	N	2000	MCL	Y	ASL
	7440-41-7	Beryllium	0.51	J	10.5		ug/L	CB9-02-GW-02	5 / 137	0.2 - 3.2	10.5	N/A	7.3	N	4	MCL	Y	ASL
	7440-43-9	Cadmium	0.76	J	19.95		ug/L	IPGW-AP03-0015-012902	21 / 137	0.3 - 3.2	19.95	N/A	1.8	N	5	MCL	Y	ASL
	7440-70-2	Calcium	5990		591500		ug/L	CW5-03-GW-02R	137 / 137	N/A	591500	N/A	N/A		N/A	N/A	N	NUT
	7440-47-3	Chromium	0.625	J	538	J	ug/L	B8-01-GW-01	144 / 364	0.5 - 6.6	538	N/A	11	N	100	MCL	Y	ASL
	7440-48-4	Cobalt	0.61	J	120		ug/L	IPGW-AP02-0028-012402	76 / 137	0.7 - 9	120	N/A	N/A		N/A	N/A	N	NTX
	7440-50-8	Copper	2.15	J	338	J	ug/L	IPGW-AP01-0013-012402	48 / 137	1 - 20.2	338	N/A	N/A		1300	MCL	N	NTX
	7439-89-6	Iron	82.1		262000		ug/L	B9-06-GW-02	348 / 363	9.5 - 2060	262000	N/A	N/A		N/A	N/A	N	NTX
	7439-92-1	Lead	1.3	J	2640		ug/L	B7-01-GW-03	40 / 364	1.1 - 44	2640	N/A	15	N	15	MCL	Y	ASL
	7439-95-4	Magnesium	1245		165000		ug/L	CB6-03-GW-02	137 / 137	N/A	165000	N/A	N/A		N/A	N/A	N	NUT
	7439-96-5	Manganese	10.15		8830		ug/L	IPGW-AC01-0037-012802	137 / 137	N/A	8830	N/A	88	N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.0425	J	15.9		ug/L	B7-01-GW-03	19 / 364	0.02 - 8.8	15.9	N/A	1.1	N	2	MCL	Y	ASL
	7440-02-0	Nickel	1.4	J	114		ug/L	IPGW-AP02-0028-012402	72 / 137	1 - 8.9	114	N/A	73	N	N/A	N/A	Y	ASL
	7440-09-7	Potassium	661		92000		ug/L	CW5-05-GW-02R	137 / 137	N/A	92000	N/A	N/A		N/A	N/A	N	NUT
	7782-49-2	Selenium	2.5	J	40.8	J	ug/L	IPGW-MW04-0014-032802	21 / 137	1.9 - 21.5	40.8	N/A	18	N	50	MCL	Y	ASL
	7440-22-4	Silver	0.58	J	0.9	J	ug/L	IPGW-AC01-0037-012802	4 / 137	0.5 - 6.5	0.9	N/A	18	N	N/A	N/A	N	BSL
	7440-23-5	Sodium	4200		1950000		ug/L	CW5-05-GW-03	137 / 137	N/A	1950000	N/A	N/A		N/A	N/A	N	NUT
	7440-28-0	Thallium	3.3	J	14.3	J	ug/L	CB9-02-GW-02	6 / 137	2.2 - 44	14.3	N/A	0.24	N	2	MCL	Y	ASL
	7440-62-2	Vanadium	1.6		215		ug/L	CB5-03-GW-03	50 / 137	0.4 - 1.7	215	N/A	3.6	N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	2.55	J	8560		ug/L	CB7-02-GW-02	82 / 133	3.2 - 76.8	8560	N/A	1100	N	N/A	N/A	Y	ASL

TABLE 2.8
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Class A (a)	100-41-4	Ethylbenzene	0.2 J	0.49 J	ug/L	IPGW-CA03-0012-011102	3 / 18	0.5 - 0.71	0.49	N/A	130 N	700	MCL	N	BSL
	1634-04-4	Methyl tert-Butyl Ether	1.7	1.7	ug/L	IPGW-CA02-0007-012502	1 / 18	0.5 - 1.6	1.7	N/A	6.2 C	N/A	N/A	N	BSL
	108-88-3	Toluene	0.45 J	1.6	ug/L	IPGW-CA06-0007-011402	2 / 21	0.5 - 7.3	1.6	N/A	72 N	1000	MCL	N	BSL
	1330-20-7	Xylene, total	0.42 J	3.3	ug/L	IPGW-CA06-0007-011402	5 / 18	0.5 - 4	3.3	N/A	21 N	10000	MCL	N	BSL
	7429-90-5	Aluminum	668	1030	ug/L	IPGW-CA06-0007-011402	4 / 18	46.1 - 660	1030	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	0.575	68.8	ug/L	B3-05-GW-01	6 / 21	1.7	68.8	N/A	0.045 C	10	MCL	Y	ASL
	7440-39-3	Barium	14.7	170	ug/L	IPGW-CA09-0029-011002	18 / 18	N/A	170	N/A	260 N	2000	MCL	N	BSL
	7440-43-9	Cadmium	0.245 J	2.6	ug/L	IPGW-CA03-0012-011102	10 / 18	0.3	2.6	N/A	1.8 N	5	MCL	Y	ASL
	7440-70-2	Calcium	5045	287000	ug/L	IPGW-CA08-0015-010802	18 / 18	N/A	287000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	0.99 J	20.5 J	ug/L	B3-05-GW-01	5 / 21	0.9 - 6.6	20.5	N/A	11 N	100	MCL	Y	ASL
	7440-48-4	Cobalt	2.6 J	25.9	ug/L	IPGW-CA08-0015-010802	7 / 18	0.7 - 2	25.9	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	2.3 J	53.7	ug/L	IPGW-CA08-0015-010802	9 / 18	1.8 - 15.5	53.7	N/A	N/A	1300	MCL	N	NTX
	7439-89-6	Iron	56.7	50500	ug/L	IPGW-CA04-0004-011402	14 / 21	23.8 - 1210	50500	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.8 J	2.8 J	ug/L	IPGW-CA06-0013-011402	5 / 21	1.6 - 30	2.8	N/A	15 N	15	MCL	N	BSL
	7439-95-4	Magnesium	1220	37300	ug/L	IPGW-CA08-0015-010802	18 / 18	N/A	37300	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	31.6	8550	ug/L	IPGW-CA09-0016-010902	16 / 18	15.2 - 19.6	8550	N/A	88 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	2.2	2.2	ug/L	IPGW-CA04-0025-011402	1 / 18	1 - 7.4	2.2	N/A	73 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	2060	17100	ug/L	IPGW-CA09-0029-011002	18 / 18	N/A	17100	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	2.2 J	2.2 J	ug/L	IPGW-CA09-0016-010902	1 / 18	1.9 - 4.6	2.2	N/A	18 N	50	MCL	N	BSL
	7440-22-4	Silver	0.71 J	0.71 J	ug/L	IPGW-CA09-0016-010902	1 / 18	0.5 - 0.9	0.71	N/A	18 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	6500	230000	ug/L	IPGW-CA09-0029-011002	18 / 18	N/A	230000	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	7.6 J	7.6 J	ug/L	IPGW-CA09-0016-010902	1 / 18	3 - 6	7.6	N/A	0.24 N	2	MCL	Y	ASL
	7440-62-2	Vanadium	1.8 J	2.6	ug/L	IPGW-CA02-0007-012502	6 / 18	1.7	2.6	N/A	3.6 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	6.4 J	168 J	ug/L	IPGW-CA09-0016-010902	9 / 18	4.6 - 33.4	168	N/A	1100 N	N/A	N/A	N	BSL

(a) Refer to Appendix 6B, Table 5 for samples included for each exposure point.

(1) Minimum/maximum detected concentration.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
PRG for chromium VI used for chromium.
PRG for mercuric chloride used for mercury.
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 2002d).
The most conservative PRG for all noncarcinogenic PAHs has been used for acenaphthylene.
PRG for 2-chlorophenol has been used for 4-chloro-3-methylphenol.
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
No Screening Level (NSL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
MCL = Maximum Contaminant Level

TABLE 2.9
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Shallow Groundwater

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Study Area (a)	71-55-6	1,1,1-Trichloroethane	0.245 J	0.3 J	ug/L	IPGW-AC04-0012-041002	2 / 49	0.5 - 10	0.3	N/A	320 N	200	MCL	N	BSL
	75-34-3	1,1-Dichloroethane	0.24 J	6.4	ug/L	IPGW-AC05-0015-041002	5 / 49	0.5 - 10	6.4	N/A	81 N	N/A	N/A	N	BSL
	95-50-1	1,2-Dichlorobenzene	1 J	1 J	ug/L	CB3-02-GW-01NS	1 / 46	0.5 - 10	1	N/A	37 N	600	MCL	N	BSL
	541-73-1	1,3-Dichlorobenzene	1.25	1.25	ug/L	IPGW-AC03-0015-041102	1 / 23	0.5 - 10	1.25	N/A	18 N	N/A	N/A	N	BSL
	106-46-7	1,4-Dichlorobenzene	0.125 J	2 J	ug/L	CB3-02-GW-01NS	3 / 46	0.5 - 10	2	N/A	0.5 C	75	MCL	Y	ASL
	78-93-3	2-Butanone	24	58	ug/L	CB1-04-GW-01NS-073001	2 / 49	3 - 100	58	N/A	700 N	N/A	N/A	N	BSL
	108-10-1	4-Methyl-2-Pentanone	3 J	3 J	ug/L	CB1-04-GW-01NS-073001	1 / 49	2 - 100	3	N/A	200 N	N/A	N/A	N	BSL
	67-64-1	Acetone	13 J	280	ug/L	CB1-04-GW-01NS-073001	4 / 49	3.3 - 100	280	N/A	550 N	N/A	N/A	N	BSL
	71-43-2	Benzene	0.52 J	69000	ug/L	RX-17S	35 / 141	0.5 - 10	69000	N/A	0.34 C	5	MCL	Y	ASL
	75-15-0	Carbon Disulfide	0.15 J	9	ug/L	CE4-03-GW-01NS-072301	4 / 49	0.5 - 10	9	N/A	100 N	N/A	N/A	N	BSL
	108-90-7	Chlorobenzene	1 J	19	ug/L	CB3-02-GW-01NS	3 / 49	0.5 - 10	19	N/A	11 N	100	N/A	Y	ASL
	67-66-3	Chloroform	1.2	4 J	ug/L	P1-03-GW-01	2 / 49	0.5 - 10	4	N/A	0.17 C	N/A	N/A	Y	ASL
	156-59-2	cis-1,2-Dichloroethene	0.2 J	2.3	ug/L	IPGW-AC01-0019-013102	5 / 49	0.5 - 10	2.3	N/A	6.1 N	70	MCL	N	BSL
	100-41-4	Ethylbenzene	0.375 J	2 J	ug/L	CB6-03-GW-01	4 / 49	0.5 - 10	2	N/A	130 N	700	MCL	N	BSL
	1634-04-4	Methyl tert-Butyl Ether	0.1 J	4000 J	ug/L	IPGW-AF02-0014-032702	9 / 23	0.5 - 0.95	4000	N/A	6.2 C	N/A	N/A	Y	ASL
	127-18-4	Tetrachloroethene	0.32 J	0.32 J	ug/L	IPGW-AG02-0013-022102	1 / 49	0.5 - 10	0.32	N/A	0.1 C	5	MCL	Y	ASL
	108-88-3	Toluene	0.24 J	230	ug/L	RX-7S	25 / 141	0.2 - 10	230	N/A	72 N	1000	MCL	Y	ASL
	156-60-5	trans-1,2-Dichloroethene	2.1	2.1	ug/L	IPGW-AC03-0015-041102	1 / 49	0.5 - 10	2.1	N/A	12 N	100	MCL	N	BSL
	79-01-6	Trichloroethene	0.15 J	2.9	ug/L	IPGW-AC01-0019-013102	5 / 49	0.5 - 10	2.9	N/A	0.028 C	5	MCL	Y	ASL
	75-01-4	Vinyl Chloride	1.25 J	1.25 J	ug/L	IPGW-AC03-0015-041102	1 / 49	0.5 - 10	1.25	N/A	0.02 C	2	MCL	Y	ASL
	1330-20-7	Xylene, total	0.25 J	14	ug/L	CB6-03-GW-01	6 / 49	0.5 - 10	14	N/A	21 N	10000	MCL	N	BSL
	83-32-9	Acenaphthene	1 J	1 J	ug/L	CW5-08-GW-01	1 / 19	0.9 - 1	1	N/A	37 N	N/A	N/A	N	BSL
	117-81-7	bis(2-Ethylhexyl)phthalate	10	10	ug/L	P1-02-GW-01	1 / 19	2	10	N/A	4.8 C	6	MCL	Y	ASL
	91-20-3	Naphthalene	5 J	7 J	ug/L	CB6-03-GW-01	2 / 19	0.9 - 1	7	N/A	0.62 N	N/A	N/A	Y	ASL
	108-95-2	Phenol	1 J	8 J	ug/L	CB5-01-GW-01	3 / 20	0.9 - 1	8	N/A	1100 N	N/A	N/A	N	BSL
	7429-90-5	Aluminum	50.3 J	7120	ug/L	IPGW-AP01-0013-012402	20 / 44	19.6 - 220	7120	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	1.6 J	49.7 J	ug/L	CB7-01-GW-01	3 / 44	1.5 - 5.9	49.7	N/A	1.5 N	6	MCL	Y	ASL
	7440-38-2	Arsenic	0.252 J	24432.5	ug/L	B7-01-GW-01	93 / 107	0.2 - 7.3	24432.5	N/A	0.045 C	10	MCL	Y	ASL
	7440-39-3	Barium	17 J	1540	ug/L	CB7-01-GW-01	44 / 44	N/A	1540	N/A	260 N	2000	MCL	Y	ASL
	7440-41-7	Beryllium	0.51 J	0.51 J	ug/L	IPGW-AP03-0015-012902	1 / 44	0.2 - 0.64	0.51	N/A	7.3 N	4	MCL	N	BSL
	7440-43-9	Cadmium	0.965	19.95	ug/L	IPGW-AP03-0015-012902	7 / 44	0.3 - 0.91	19.95	N/A	1.8 N	5	MCL	Y	ASL
	7440-70-2	Calcium	8560	506000	ug/L	CB5-01-GW-01	44 / 44	N/A	506000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	0.625 J	538 J	ug/L	B8-01-GW-01	38 / 108	0.5 - 6.6	538	N/A	11 N	100	MCL	Y	ASL
	7440-48-4	Cobalt	0.61 J	41.5	ug/L	IPGW-AP03-0015-012902	29 / 44	1.4 - 4.3	41.5	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	2.15 J	338 J	ug/L	IPGW-AP01-0013-012402	17 / 44	1 - 8.4	338	N/A	N/A	1300	MCL	N	NTX
	7439-89-6	Iron	230.5	176500	ug/L	IPGW-AP02-0013-012502	104 / 108	33.4 - 2060	176500	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.4 J	801	ug/L	CB7-01-GW-01	18 / 108	1.1 - 30	801	N/A	15 N	15	MCL	Y	ASL
	7439-95-4	Magnesium	1245	110000	ug/L	IPGW-AP02-0013-012502	44 / 44	N/A	110000	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	10.15	6770	ug/L	P1-02-GW-01	44 / 44	N/A	6770	N/A	88 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.0425 J	4.2	ug/L	B5-01-GW-01	11 / 108	0.03 - 1.2	4.2	N/A	1.1 N	2	MCL	Y	ASL
	7440-02-0	Nickel	1.4 J	41.6	ug/L	IPGW-AP01-0013-012402	22 / 44	1 - 4.4	41.6	N/A	73 N	N/A	N/A	N	BSL

TABLE 2.9
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Shallow Groundwater

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
	7440-09-7	Potassium	661	35150	ug/L	IPGW-AC05-0015-041002	44 / 44	N/A	35150	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	3.375 J	40.8 J	ug/L	IPGW-MW04-0014-032802	9 / 44	1.9 - 4.6	40.8	N/A	18 N	50	MCL	Y	ASL
	7440-22-4	Silver	0.58 J	0.58 J	ug/L	IPGW-AC01-0019-013102	1 / 44	0.5 - 1.3	0.58	N/A	18 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	6450 J	845000	ug/L	P1-06-GW-01	44 / 44	N/A	845000	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	3.3 J	3.3 J	ug/L	IPGW-AE03-0010-020502	1 / 44	2.2 - 8.8	3.3	N/A	0.24 N	2	MCL	Y	ASL
	7440-62-2	Vanadium	1.8 J	21.1	ug/L	CB7-03-GW-01	17 / 44	0.4 - 1.7	21.1	N/A	3.6 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	4 J	4055	ug/L	IPGW-AP03-0015-012902	27 / 43	3.2 - 19.3	4055	N/A	1100 N	N/A	N/A	Y	ASL
Class A (a)	100-41-4	Ethylbenzene	0.2 J	0.45 J	ug/L	IPGW-CA06-0007-011402	2 / 8	0.5	0.45	N/A	130 N	700	MCL	N	BSL
	1634-04-4	Methyl tert-Butyl Ether	1.7	1.7	ug/L	IPGW-CA02-0007-012502	1 / 8	0.5 - 1.6	1.7	N/A	6.2 C	N/A	N/A	N	BSL
	108-88-3	Toluene	0.45 J	1.6	ug/L	IPGW-CA06-0007-011402	2 / 11	0.5 - 1	1.6	N/A	72 N	1000	MCL	N	BSL
	1330-20-7	Xylene, total	0.42 J	3.3	ug/L	IPGW-CA06-0007-011402	3 / 8	0.5	3.3	N/A	21 N	10000	MCL	N	BSL
	7429-90-5	Aluminum	676	1030	ug/L	IPGW-CA06-0007-011402	3 / 8	71.2 - 492	1030	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	0.575	68.8	ug/L	B3-05-GW-01	5 / 11	1.7	68.8	N/A	0.045 C	10	MCL	Y	ASL
	7440-39-3	Barium	20.2	86	ug/L	IPGW-CA02-0007-012502	8 / 8	N/A	86	N/A	260 N	2000	MCL	N	BSL
	7440-43-9	Cadmium	0.245 J	0.245 J	ug/L	IPGW-CA05-0007-011002	1 / 8	0.3	0.245	N/A	1.8 N	5	MCL	N	BSL
	7440-70-2	Calcium	5045	287000	ug/L	IPGW-CA08-0015-010802	8 / 8	N/A	287000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	0.99 J	20.5 J	ug/L	B3-05-GW-01	5 / 11	0.9 - 6.6	20.5	N/A	11 N	100	MCL	Y	ASL
	7440-48-4	Cobalt	10.1	25.9	ug/L	IPGW-CA08-0015-010802	3 / 8	0.7 - 2	25.9	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	2.3 J	53.7	ug/L	IPGW-CA08-0015-010802	5 / 8	1.8 - 2.2	53.7	N/A	N/A	1300	MCL	N	NTX
	7439-89-6	Iron	829	50500	ug/L	IPGW-CA04-0004-011402	8 / 11	731 - 1210	50500	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.8 J	2.6 J	ug/L	IPGW-CA02-0007-012502	3 / 11	1.6 - 30	2.6	N/A	15 N	15	MCL	N	BSL
	7439-95-4	Magnesium	1220	37300	ug/L	IPGW-CA08-0015-010802	8 / 8	N/A	37300	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	72.4	3530	ug/L	IPGW-CA02-0007-012502	8 / 8	N/A	3530	N/A	88 N	N/A	N/A	Y	ASL
	7440-09-7	Potassium	2060	14500	ug/L	IPGW-CA08-0015-010802	8 / 8	N/A	14500	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	6500	144500	ug/L	IPGW-CA07-0007-011602	8 / 8	N/A	144500	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	1.8 J	2.6	ug/L	IPGW-CA02-0007-012502	3 / 8	1.7	2.6	N/A	3.6 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	11.4	79 J	ug/L	IPGW-CA08-0015-010802	3 / 8	4.6 - 5.4	79	N/A	1100 N	N/A	N/A	N	BSL

(a) Refer to Appendix 6B, Table 5 for samples included for each exposure point.

(1) Minimum/maximum detected concentration.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for tap water (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
PRG for chromium VI used for chromium.
PRG for mercuric chloride used for mercury.
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 2002d).
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
No Screening Level (NSL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
MCL = Maximum Contaminant Level

TABLE 2.10
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater used as Process Water
Exposure Medium: Indoor Air

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Study Area (a)	71-55-6	1,1,1-Trichloroethane	N/A	9.1	ug/m3	N/A	N/A	N/A	9.1	N/A	230 N	N/A	N/A	N	BSL
	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	N/A	9.6	ug/m3	N/A	N/A	N/A	9.6	N/A	3100 N	N/A	N/A	N	BSL
	75-34-3	1,1-Dichloroethane	N/A	26	ug/m3	N/A	N/A	N/A	26	N/A	52 N	N/A	N/A	N	BSL
	75-35-4	1,1-Dichloroethene	N/A	22	ug/m3	N/A	N/A	N/A	22	N/A	21 N	N/A	N/A	Y	ASL
	120-82-1	1,2,4-Trichlorobenzene	N/A	0.69	ug/m3	N/A	N/A	N/A	0.69	N/A	0.37 N	N/A	N/A	Y	ASL
	95-50-1	1,2-Dichlorobenzene	N/A	29	ug/m3	N/A	N/A	N/A	29	N/A	21 N	N/A	N/A	Y	ASL
	107-06-2	1,2-Dichloroethane	N/A	128	ug/m3	N/A	N/A	N/A	128	N/A	0.074 C	N/A	N/A	Y	ASL
	541-73-1	1,3-Dichlorobenzene	N/A	3.3	ug/m3	N/A	N/A	N/A	3.3	N/A	11 N	N/A	N/A	N	BSL
	106-46-7	1,4-Dichlorobenzene	N/A	16	ug/m3	N/A	N/A	N/A	16	N/A	0.31 C	N/A	N/A	Y	ASL
	78-93-3	2-Butanone	N/A	1240	ug/m3	N/A	N/A	N/A	1240	N/A	510 N	N/A	N/A	Y	ASL
	108-10-1	4-Methyl-2-Pentanone	N/A	318	ug/m3	N/A	N/A	N/A	318	N/A	310 N	N/A	N/A	Y	ASL
	67-64-1	Acetone	N/A	39595	ug/m3	N/A	N/A	N/A	39595	N/A	330 N	N/A	N/A	Y	ASL
	71-43-2	Benzene	N/A	183782	ug/m3	N/A	N/A	N/A	183782	N/A	0.25 C	N/A	N/A	Y	ASL
	75-15-0	Carbon Disulfide	N/A	24	ug/m3	N/A	N/A	N/A	24	N/A	73 N	N/A	N/A	N	BSL
	108-90-7	Chlorobenzene	N/A	93	ug/m3	N/A	N/A	N/A	93	N/A	6.2 N	N/A	N/A	Y	ASL
	75-00-3	Chloroethane	N/A	99	ug/m3	N/A	N/A	N/A	99	N/A	2.3 C	N/A	N/A	Y	ASL
	67-66-3	Chloroform	N/A	11	ug/m3	N/A	N/A	N/A	11	N/A	0.083 C	N/A	N/A	Y	ASL
	156-59-2	cis-1,2-Dichloroethene	N/A	133	ug/m3	N/A	N/A	N/A	133	N/A	3.7 N	N/A	N/A	Y	ASL
	100-41-4	Ethylbenzene	N/A	45	ug/m3	N/A	N/A	N/A	45	N/A	110 C	N/A	N/A	N	BSL
	98-82-8	Isopropylbenzene	N/A	2.4	ug/m3	N/A	N/A	N/A	2.4	N/A	40 N	N/A	N/A	N	BSL
	1634-04-4	Methyl tert-Butyl Ether	N/A	10602	ug/m3	N/A	N/A	N/A	10602	N/A	3.7 C	N/A	N/A	Y	ASL
	100-42-5	Styrene	N/A	0.44	ug/m3	N/A	N/A	N/A	0.44	N/A	110 N	N/A	N/A	N	BSL
	127-18-4	Tetrachloroethene	N/A	5.3	ug/m3	N/A	N/A	N/A	5.3	N/A	0.32 C	N/A	N/A	Y	ASL
	108-88-3	Toluene	N/A	9588	ug/m3	N/A	N/A	N/A	9588	N/A	40 N	N/A	N/A	Y	ASL
	156-60-5	trans-1,2-Dichloroethene	N/A	5.6	ug/m3	N/A	N/A	N/A	5.6	N/A	7.3 N	N/A	N/A	N	BSL
	79-01-6	Trichloroethene	N/A	293	ug/m3	N/A	N/A	N/A	293	N/A	0.017 C	N/A	N/A	Y	ASL
	75-01-4	Vinyl Chloride	N/A	3.3	ug/m3	N/A	N/A	N/A	3.3	N/A	0.11 C	N/A	N/A	Y	ASL
	1330-20-7	Xylene, total	N/A	320	ug/m3	N/A	N/A	N/A	320	N/A	11 N	N/A	N/A	Y	ASL
	91-58-7	2-Chloronaphthalene	N/A	58	ug/m3	N/A	N/A	N/A	58	N/A	29 N	N/A	N/A	Y	ASL
	95-57-8	2-Chlorophenol	N/A	0.39	ug/m3	N/A	N/A	N/A	0.39	N/A	1.8 N	N/A	N/A	N	BSL
	83-32-9	Acenaphthene	N/A	2.6	ug/m3	N/A	N/A	N/A	2.6	N/A	22 N	N/A	N/A	N	BSL
	86-73-7	Fluorene	N/A	5	ug/m3	N/A	N/A	N/A	5	N/A	15 N	N/A	N/A	N	BSL
	91-20-3	Naphthalene	N/A	582	ug/m3	N/A	N/A	N/A	582	N/A	0.31 N	N/A	N/A	Y	ASL

TABLE 2.10
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater used as Process Water
Exposure Medium: Indoor Air

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Class A (a)	100-41-4	Ethylbenzene	N/A	1.3	ug/m3	N/A	N/A	N/A	1.3	N/A	110 C	N/A	N/A	N	BSL
	1634-04-4	Methyl tert-Butyl Ether	N/A	4.5	ug/m3	N/A	N/A	N/A	4.5	N/A	3.7 C	N/A	N/A	Y	ASL
	108-88-3	Toluene	N/A	4.3	ug/m3	N/A	N/A	N/A	4.3	N/A	40 N	N/A	N/A	N	BSL
	1330-20-7	Xylene, total	N/A	8.8	ug/m3	N/A	N/A	N/A	8.8	N/A	11 N	N/A	N/A	N	BSL

(a) Refer to Appendix 6B, Table 5 for samples included for each exposure point.

(1) Soil gas contribution to indoor air have been presented in the Maximum Concentration field.
Refer to Appendix 6D for model results.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for ambent air (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.

(5) Rationale Codes:
Selection Reason: Above Screening Levels (ASL)
No Screening Level (NSL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
MCL = Maximum Contaminant Level

TABLE 2.11
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater used in a Car Wash
Exposure Medium: Indoor Air

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Study Area (a)	71-55-6	1,1,1-Trichloroethane	N/A	11	ug/m3	N/A	N/A	N/A	11	N/A	230 N	N/A	N/A	N	BSL
	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	N/A	10	ug/m3	N/A	N/A	N/A	10	N/A	3100 N	N/A	N/A	N	BSL
	75-34-3	1,1-Dichloroethane	N/A	35	ug/m3	N/A	N/A	N/A	35	N/A	52 N	N/A	N/A	N	BSL
	75-35-4	1,1-Dichloroethene	N/A	31	ug/m3	N/A	N/A	N/A	31	N/A	21 N	N/A	N/A	Y	ASL
	120-82-1	1,2,4-Trichlorobenzene	N/A	0.64	ug/m3	N/A	N/A	N/A	0.64	N/A	0.37 N	N/A	N/A	Y	ASL
	95-50-1	1,2-Dichlorobenzene	N/A	32	ug/m3	N/A	N/A	N/A	32	N/A	21 N	N/A	N/A	Y	ASL
	107-06-2	1,2-Dichloroethane	N/A	152	ug/m3	N/A	N/A	N/A	152	N/A	0.074 C	N/A	N/A	Y	ASL
	541-73-1	1,3-Dichlorobenzene	N/A	3.7	ug/m3	N/A	N/A	N/A	3.7	N/A	11 N	N/A	N/A	N	BSL
	106-46-7	1,4-Dichlorobenzene	N/A	18	ug/m3	N/A	N/A	N/A	18	N/A	0.31 C	N/A	N/A	Y	ASL
	78-93-3	2-Butanone	N/A	462	ug/m3	N/A	N/A	N/A	462	N/A	510 N	N/A	N/A	N	BSL
	108-10-1	4-Methyl-2-Pentanone	N/A	311	ug/m3	N/A	N/A	N/A	311	N/A	310 N	N/A	N/A	Y	ASL
	67-64-1	Acetone	N/A	13055	ug/m3	N/A	N/A	N/A	13055	N/A	330 N	N/A	N/A	Y	ASL
	71-43-2	Benzene	N/A	267689	ug/m3	N/A	N/A	N/A	267689	N/A	0.25 C	N/A	N/A	Y	ASL
	75-15-0	Carbon Disulfide	N/A	36	ug/m3	N/A	N/A	N/A	36	N/A	73 N	N/A	N/A	N	BSL
	108-90-7	Chlorobenzene	N/A	116	ug/m3	N/A	N/A	N/A	116	N/A	6.2 N	N/A	N/A	Y	ASL
	75-00-3	Chloroethane	N/A	156	ug/m3	N/A	N/A	N/A	156	N/A	2.3 C	N/A	N/A	Y	ASL
	67-66-3	Chloroform	N/A	13	ug/m3	N/A	N/A	N/A	13	N/A	0.083 C	N/A	N/A	Y	ASL
	156-59-2	cis-1,2-Dichloroethene	N/A	177	ug/m3	N/A	N/A	N/A	177	N/A	3.7 N	N/A	N/A	Y	ASL
	100-41-4	Ethylbenzene	N/A	60	ug/m3	N/A	N/A	N/A	60	N/A	110 C	N/A	N/A	N	BSL
	98-82-8	Isopropylbenzene	N/A	3.0	ug/m3	N/A	N/A	N/A	3.0	N/A	40 N	N/A	N/A	N	BSL
	1634-04-4	Methyl tert-Butyl Ether	N/A	11681	ug/m3	N/A	N/A	N/A	11681	N/A	3.7 C	N/A	N/A	Y	ASL
	100-42-5	Styrene	N/A	0.57	ug/m3	N/A	N/A	N/A	0.57	N/A	110 N	N/A	N/A	N	BSL
	127-18-4	Tetrachloroethene	N/A	6.0	ug/m3	N/A	N/A	N/A	6.0	N/A	0.32 C	N/A	N/A	Y	ASL
	108-88-3	Toluene	N/A	13227	ug/m3	N/A	N/A	N/A	13227	N/A	40 N	N/A	N/A	Y	ASL
	156-60-5	trans-1,2-Dichloroethene	N/A	7.6	ug/m3	N/A	N/A	N/A	7.6	N/A	7.3 N	N/A	N/A	Y	ASL
	79-01-6	Trichloroethene	N/A	357	ug/m3	N/A	N/A	N/A	357	N/A	0.017 C	N/A	N/A	Y	ASL
	75-01-4	Vinyl Chloride	N/A	5.4	ug/m3	N/A	N/A	N/A	5.4	N/A	0.11 C	N/A	N/A	Y	ASL
	1330-20-7	Xylene, total	N/A	418	ug/m3	N/A	N/A	N/A	418	N/A	11 N	N/A	N/A	Y	ASL
	91-58-7	2-Chloronaphthalene	N/A	41	ug/m3	N/A	N/A	N/A	41	N/A	29 N	N/A	N/A	Y	ASL
	95-57-8	2-Chlorophenol	N/A	0.13	ug/m3	N/A	N/A	N/A	0.13	N/A	1.8 N	N/A	N/A	N	BSL
	83-32-9	Acenaphthene	N/A	1.5	ug/m3	N/A	N/A	N/A	1.5	N/A	22 N	N/A	N/A	N	BSL
	86-73-7	Fluorene	N/A	1.9	ug/m3	N/A	N/A	N/A	1.9	N/A	15 N	N/A	N/A	N	BSL
	91-20-3	Naphthalene	N/A	509	ug/m3	N/A	N/A	N/A	509	N/A	0.31 N	N/A	N/A	Y	ASL

TABLE 2.11
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater used in a Car Wash
Exposure Medium: Indoor Air

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Class A (a)	100-41-4	Ethylbenzene	N/A	1.7	ug/m3	N/A	N/A	N/A	1.7	N/A	110 C	N/A	N/A	N	BSL
	1634-04-4	Methyl tert-Butyl Ether	N/A	5.0	ug/m3	N/A	N/A	N/A	5.0	N/A	3.7 C	N/A	N/A	Y	ASL
	108-88-3	Toluene	N/A	5.9	ug/m3	N/A	N/A	N/A	5.9	N/A	40 N	N/A	N/A	N	BSL
	1330-20-7	Xylene, total	N/A	12	ug/m3	N/A	N/A	N/A	12	N/A	11 N	N/A	N/A	Y	ASL

(a) Refer to Appendix 6B, Table 5 for samples included for each exposure point.

(1) Soil gas contribution to indoor air have been presented in the Maximum Concentration field.
Refer to Appendix 6D for model results.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for ambent air (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
No Screening Level (NSL)
Deletion Reason: No Toxicity Information (NTX)
Essential Nutrient (NUT)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic
MCL = Maximum Contaminant Level

TABLE 2.12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil gas
Exposure Medium: Indoor Air

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
ABC Roofing	95-63-6	1,2,4-Trimethylbenzene	N/A	1.5E-04	ug/m3	ABC Roofing	1 / 1	N/A	1.5E-04	N/A	0.62 N	N/A	N/A	N	BSL
	108-67-8	1,3,5-Trimethylbenzene	N/A	5.2E-05	ug/m3	ABC Roofing	1 / 1	N/A	5.2E-05	N/A	0.62 N	N/A	N/A	N	BSL
	622-96-8	4-Ethyltoluene	N/A	1.7E-04	ug/m3	ABC Roofing	1 / 1	N/A	1.7E-04	N/A	11 N	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	2.2E-03	ug/m3	ABC Roofing	1 / 1	N/A	2.2E-03	N/A	330 N	N/A	N/A	N	BSL
	71-43-2	Benzene	N/A	2.5E-05	ug/m3	ABC Roofing	1 / 1	N/A	2.5E-05	N/A	0.25 C	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	1.6E-05	ug/m3	ABC Roofing	1 / 1	N/A	1.6E-05	N/A	9.5 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	4.1E-05	ug/m3	ABC Roofing	1 / 1	N/A	4.1E-05	N/A	21 N	N/A	N/A	N	BSL
	100-41-4	Ethylbenzene	N/A	1.1E-04	ug/m3	ABC Roofing	1 / 1	N/A	1.1E-04	N/A	110 C	N/A	N/A	N	BSL
	75-09-2	Methylene Chloride	N/A	1.0E-04	ug/m3	ABC Roofing	1 / 1	N/A	1.0E-04	N/A	4.1 C	N/A	N/A	N	BSL
	142-82-5	n-Heptane	N/A	3.9E-05	ug/m3	ABC Roofing	1 / 1	N/A	3.9E-05	N/A	21 N	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	1.9E-04	ug/m3	ABC Roofing	1 / 1	N/A	1.9E-04	N/A	21 N	N/A	N/A	N	BSL
	127-18-4	Tetrachloroethene	N/A	5.7E-05	ug/m3	ABC Roofing	1 / 1	N/A	5.7E-05	N/A	0.32 C	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	1.9E-04	ug/m3	ABC Roofing	1 / 1	N/A	1.9E-04	N/A	40 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	3.6E-04	ug/m3	ABC Roofing	1 / 1	N/A	3.6E-04	N/A	11 N	N/A	N/A	N	BSL
	95-47-6	Xylene, o-	N/A	9.6E-05	ug/m3	ABC Roofing	1 / 1	N/A	9.6E-05	N/A	11 N	N/A	N/A	N	BSL
Ganglani	95-63-6	1,2,4-Trimethylbenzene	N/A	9.3E-05	ug/m3	Ganglani	1 / 1	N/A	9.3E-05	N/A	0.62 N	N/A	N/A	N	BSL
	108-67-8	1,3,5-Trimethylbenzene	N/A	3.1E-05	ug/m3	Ganglani	1 / 1	N/A	3.1E-05	N/A	0.62 N	N/A	N/A	N	BSL
	622-96-8	4-Ethyltoluene	N/A	8.4E-05	ug/m3	Ganglani	1 / 1	N/A	8.4E-05	N/A	11 N	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	4.7E-04	ug/m3	Ganglani	1 / 1	N/A	4.7E-04	N/A	330 N	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	1.8E-05	ug/m3	Ganglani	1 / 1	N/A	1.8E-05	N/A	9.5 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	1.3E-03	ug/m3	Ganglani	1 / 1	N/A	1.3E-03	N/A	21 N	N/A	N/A	N	BSL
	100-41-4	Ethylbenzene	N/A	1.4E-04	ug/m3	Ganglani	1 / 1	N/A	1.4E-04	N/A	110 C	N/A	N/A	N	BSL
	67-63-0	Isopropyl Alcohol	N/A	2.2E-04	ug/m3	Ganglani	1 / 1	N/A	2.2E-04	N/A	0.95 N	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	4.1E-05	ug/m3	Ganglani	1 / 1	N/A	4.1E-05	N/A	21 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	1.6E-04	ug/m3	Ganglani	1 / 1	N/A	1.6E-04	N/A	40 N	N/A	N/A	N	BSL
	75-69-4	Trichlorofluoromethane	N/A	3.2E-05	ug/m3	Ganglani	1 / 1	N/A	3.2E-05	N/A	73 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	5.3E-04	ug/m3	Ganglani	1 / 1	N/A	5.3E-04	N/A	11 N	N/A	N/A	N	BSL
	95-47-6	Xylene, o-	N/A	1.3E-04	ug/m3	Ganglani	1 / 1	N/A	1.3E-04	N/A	11 N	N/A	N/A	N	BSL
Graphique	106-99-0	1,3-Butadiene	N/A	3.0E-05	ug/m3	Graphique	1 / 1	N/A	3.0E-05	N/A	0.061 C	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	2.5E-04	ug/m3	Graphique	1 / 1	N/A	2.5E-04	N/A	330 N	N/A	N/A	N	BSL
	71-43-2	Benzene	N/A	2.7E-05	ug/m3	Graphique	1 / 1	N/A	2.7E-05	N/A	0.25 C	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	1.4E-05	ug/m3	Graphique	1 / 1	N/A	1.4E-05	N/A	9.5 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	4.4E-05	ug/m3	Graphique	1 / 1	N/A	4.4E-05	N/A	21 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	4.6E-05	ug/m3	Graphique	1 / 1	N/A	4.6E-05	N/A	40 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	3.4E-05	ug/m3	Graphique	1 / 1	N/A	3.4E-05	N/A	11 N	N/A	N/A	N	BSL

TABLE 2.12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil gas
Exposure Medium: Indoor Air

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Pacer	106-99-0	1,3-Butadiene	N/A	2.5E-04	ug/m3	Pacer	1 / 1	N/A	2.5E-04	N/A	0.061 C	N/A	N/A	N	BSL
	78-93-3	2-Butanone	N/A	1.5E-03	ug/m3	Pacer	1 / 1	N/A	1.5E-03	N/A	510 N	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	2.6E-03	ug/m3	Pacer	1 / 1	N/A	2.6E-03	N/A	330 N	N/A	N/A	N	BSL
	71-43-2	Benzene	N/A	2.0E-04	ug/m3	Pacer	1 / 1	N/A	2.0E-04	N/A	0.25 C	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	N/A	3.5E-05	ug/m3	Pacer	1 / 1	N/A	3.5E-05	N/A	73 N	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	1.4E-05	ug/m3	Pacer	1 / 1	N/A	1.4E-05	N/A	9.5 N	N/A	N/A	N	BSL
	110-82-7	Cyclohexane	N/A	2.7E-05	ug/m3	Pacer	1 / 1	N/A	2.7E-05	N/A	620 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	4.1E-05	ug/m3	Pacer	1 / 1	N/A	4.1E-05	N/A	21 N	N/A	N/A	N	BSL
	100-41-4	Ethylbenzene	N/A	4.6E-05	ug/m3	Pacer	1 / 1	N/A	4.6E-05	N/A	110 C	N/A	N/A	N	BSL
	1634-04-4	Methyl tert-Butyl Ether	N/A	5.4E-05	ug/m3	Pacer	1 / 1	N/A	5.4E-05	N/A	3.7 C	N/A	N/A	N	BSL
	142-82-5	n-Heptane	N/A	1.2E-04	ug/m3	Pacer	1 / 1	N/A	1.2E-04	N/A	21 N	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	1.6E-04	ug/m3	Pacer	1 / 1	N/A	1.6E-04	N/A	21 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	2.9E-04	ug/m3	Pacer	1 / 1	N/A	2.9E-04	N/A	40 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	1.2E-04	ug/m3	Pacer	1 / 1	N/A	1.2E-04	N/A	11 N	N/A	N/A	N	BSL
	95-47-6	Xylene, o-	N/A	4.0E-05	ug/m3	Pacer	1 / 1	N/A	4.0E-05	N/A	11 N	N/A	N/A	N	BSL
Sacco	95-63-6	1,2,4-Trimethylbenzene	N/A	3.5E-05	ug/m3	Sacco/B	1 / 2	2.5	3.5E-05	N/A	0.62 N	N/A	N/A	N	BSL
	106-99-0	1,3-Butadiene	N/A	3.8E-05	ug/m3	Sacco/B	1 / 2	1.1	3.8E-05	N/A	0.061 C	N/A	N/A	N	BSL
	622-96-8	4-Ethyltoluene	N/A	2.7E-05	ug/m3	Sacco/B	1 / 2	2.5	2.7E-05	N/A	11 N	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	6.0E-04	ug/m3	Sacco/B	1 / 2	12	6.0E-04	N/A	330 N	N/A	N/A	N	BSL
	71-43-2	Benzene	N/A	2.7E-05	ug/m3	Sacco/B	1 / 2	1.6	2.7E-05	N/A	0.25 C	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	N/A	3.9E-05	ug/m3	Sacco/B	1 / 2	1.6	3.9E-05	N/A	73 N	N/A	N/A	N	BSL
	67-66-3	Chloroform	N/A	2.9E-05	ug/m3	Sacco/B	1 / 2	2.4	2.9E-05	N/A	0.083 C	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	1.6E-05	ug/m3	Sacco/A	1 / 2	1	1.6E-05	N/A	9.5 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	4.3E-05	ug/m3	Sacco/B	2 / 2	N/A	4.3E-05	N/A	21 N	N/A	N/A	N	BSL
	100-41-4	Ethylbenzene	N/A	2.8E-05	ug/m3	Sacco/B	1 / 2	2.2	2.8E-05	N/A	110 C	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	2.4E-05	ug/m3	Sacco/B	1 / 2	1.8	2.4E-05	N/A	21 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	8.9E-05	ug/m3	Sacco/B	1 / 2	1.9	8.9E-05	N/A	40 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	8.6E-05	ug/m3	Sacco/B	1 / 2	2.2	8.6E-05	N/A	11 N	N/A	N/A	N	BSL
	95-47-6	Xylene, o-	N/A	3.0E-05	ug/m3	Sacco/B	1 / 2	2.2	3.0E-05	N/A	11 N	N/A	N/A	N	BSL

TABLE 2.12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil gas
Exposure Medium: Indoor Air

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Teradyne	95-63-6	1,2,4-Trimethylbenzene	N/A	3.5E-05	ug/m3	Teradyne	1 / 1	N/A	3.5E-05	N/A	0.62 N	N/A	N/A	N	BSL
	78-93-3	2-Butanone	N/A	7.2E-05	ug/m3	Teradyne	1 / 1	N/A	7.2E-05	N/A	510 N	N/A	N/A	N	BSL
	622-96-8	4-Ethyltoluene	N/A	2.8E-05	ug/m3	Teradyne	1 / 1	N/A	2.8E-05	N/A	11 N	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	9.8E-04	ug/m3	Teradyne	1 / 1	N/A	9.8E-04	N/A	330 N	N/A	N/A	N	BSL
	71-43-2	Benzene	N/A	2.9E-05	ug/m3	Teradyne	1 / 1	N/A	2.9E-05	N/A	0.25 C	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	N/A	5.3E-05	ug/m3	Teradyne	1 / 1	N/A	5.3E-05	N/A	73 N	N/A	N/A	N	BSL
	75-00-3	Chloroethane	N/A	1.9E-05	ug/m3	Teradyne	1 / 1	N/A	1.9E-05	N/A	2.3 C	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	1.5E-05	ug/m3	Teradyne	1 / 1	N/A	1.5E-05	N/A	9.5 N	N/A	N/A	N	BSL
	110-82-7	Cyclohexane	N/A	6.6E-05	ug/m3	Teradyne	1 / 1	N/A	6.6E-05	N/A	620 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	3.2E-05	ug/m3	Teradyne	1 / 1	N/A	3.2E-05	N/A	21 N	N/A	N/A	N	BSL
	100-41-4	Ethylbenzene	N/A	5.7E-05	ug/m3	Teradyne	1 / 1	N/A	5.7E-05	N/A	110 C	N/A	N/A	N	BSL
	67-63-0	Isopropyl Alcohol	N/A	9.5E-04	ug/m3	Teradyne	1 / 1	N/A	9.5E-04	N/A	0.95 N	N/A	N/A	N	BSL
	75-09-2	Methylene Chloride	N/A	1.5E-05	ug/m3	Teradyne	1 / 1	N/A	1.5E-05	N/A	4.1 C	N/A	N/A	N	BSL
	142-82-5	n-Heptane	N/A	3.7E-04	ug/m3	Teradyne	1 / 1	N/A	3.7E-04	N/A	21 N	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	7.9E-05	ug/m3	Teradyne	1 / 1	N/A	7.9E-05	N/A	21 N	N/A	N/A	N	BSL
	100-42-5	Styrene	N/A	7.5E-05	ug/m3	Teradyne	1 / 1	N/A	7.5E-05	N/A	110 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	2.9E-04	ug/m3	Teradyne	1 / 1	N/A	2.9E-04	N/A	40 N	N/A	N/A	N	BSL
	79-01-6	Trichloroethene	N/A	2.7E-04	ug/m3	Teradyne	1 / 1	N/A	2.7E-04	N/A	0.017 C	N/A	N/A	N	BSL
	75-69-4	Trichlorofluoromethane	N/A	5.1E-04	ug/m3	Teradyne	1 / 1	N/A	5.1E-04	N/A	73 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	2.2E-04	ug/m3	Teradyne	1 / 1	N/A	2.2E-04	N/A	11 N	N/A	N/A	N	BSL
	95-47-6	Xylene, o-	N/A	6.7E-05	ug/m3	Teradyne	1 / 1	N/A	6.7E-05	N/A	11 N	N/A	N/A	N	BSL
Vining	67-64-1	Acetone	N/A	1.5E-04	ug/m3	Vining	1 / 1	N/A	1.5E-04	N/A	330 N	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	1.5E-05	ug/m3	Vining	1 / 1	N/A	1.5E-05	N/A	9.5 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	4.7E-05	ug/m3	Vining	1 / 1	N/A	4.7E-05	N/A	21 N	N/A	N/A	N	BSL
	75-09-2	Methylene Chloride	N/A	2.3E-04	ug/m3	Vining	1 / 1	N/A	2.3E-04	N/A	4.1 C	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	1.7E-04	ug/m3	Vining	1 / 1	N/A	1.7E-04	N/A	21 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	2.6E-05	ug/m3	Vining	1 / 1	N/A	2.6E-05	N/A	40 N	N/A	N/A	N	BSL
	75-69-4	Trichlorofluoromethane	N/A	4.8E-05	ug/m3	Vining	1 / 1	N/A	4.8E-05	N/A	73 N	N/A	N/A	N	BSL

(1) Soil gas contribution to indoor air have been presented in the Maximum Concentration field.
Refer to Appendix 6D for model results.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for ambient air (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
PRG for xylene has been used for 4-ethyltoluene.
PRG for 1-butanol has been used for isopropyl alcohol.
PRG for n-hexane has been used for n-heptane.
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
No Screening Level (NSL)
Deletion Reason: No Toxicity Information (NTX)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic

TABLE 2.13
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil gas
Exposure Medium: Outdoor Air

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
ABC Roofing	95-63-6	1,2,4-Trimethylbenzene	N/A	2.1E-08	ug/m3	ABC Roofing	1 / 1	N/A	2.1E-08	N/A	0.62 N	N/A	N/A	N	BSL
	108-67-8	1,3,5-Trimethylbenzene	N/A	7.3E-09	ug/m3	ABC Roofing	1 / 1	N/A	7.3E-09	N/A	0.62 N	N/A	N/A	N	BSL
	622-96-8	4-Ethyltoluene	N/A	2.4E-08	ug/m3	ABC Roofing	1 / 1	N/A	2.4E-08	N/A	11 N	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	2.7E-07	ug/m3	ABC Roofing	1 / 1	N/A	2.7E-07	N/A	330 N	N/A	N/A	N	BSL
	71-43-2	Benzene	N/A	3.3E-09	ug/m3	ABC Roofing	1 / 1	N/A	3.3E-09	N/A	0.25 C	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	2.1E-09	ug/m3	ABC Roofing	1 / 1	N/A	2.1E-09	N/A	9.5 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	5.6E-09	ug/m3	ABC Roofing	1 / 1	N/A	5.6E-09	N/A	21 N	N/A	N/A	N	BSL
	100-41-4	Ethylbenzene	N/A	1.5E-08	ug/m3	ABC Roofing	1 / 1	N/A	1.5E-08	N/A	110 C	N/A	N/A	N	BSL
	75-09-2	Methylene Chloride	N/A	1.3E-08	ug/m3	ABC Roofing	1 / 1	N/A	1.3E-08	N/A	4.1 C	N/A	N/A	N	BSL
	142-82-5	n-Heptane	N/A	5.2E-09	ug/m3	ABC Roofing	1 / 1	N/A	5.2E-09	N/A	21 N	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	2.4E-08	ug/m3	ABC Roofing	1 / 1	N/A	2.4E-08	N/A	21 N	N/A	N/A	N	BSL
	127-18-4	Tetrachloroethene	N/A	7.7E-09	ug/m3	ABC Roofing	1 / 1	N/A	7.7E-09	N/A	0.32 C	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	2.5E-08	ug/m3	ABC Roofing	1 / 1	N/A	2.5E-08	N/A	40 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	4.9E-08	ug/m3	ABC Roofing	1 / 1	N/A	4.9E-08	N/A	11 N	N/A	N/A	N	BSL
	95-47-6	Xylene, o-	N/A	1.3E-08	ug/m3	ABC Roofing	1 / 1	N/A	1.3E-08	N/A	11 N	N/A	N/A	N	BSL
Ganglani	95-63-6	1,2,4-Trimethylbenzene	N/A	1.3E-08	ug/m3	Ganglani	1 / 1	N/A	1.3E-08	N/A	0.62 N	N/A	N/A	N	BSL
	108-67-8	1,3,5-Trimethylbenzene	N/A	4.3E-09	ug/m3	Ganglani	1 / 1	N/A	4.3E-09	N/A	0.62 N	N/A	N/A	N	BSL
	622-96-8	4-Ethyltoluene	N/A	1.2E-08	ug/m3	Ganglani	1 / 1	N/A	1.2E-08	N/A	11 N	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	5.6E-08	ug/m3	Ganglani	1 / 1	N/A	5.6E-08	N/A	330 N	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	2.2E-09	ug/m3	Ganglani	1 / 1	N/A	2.2E-09	N/A	9.5 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	1.8E-07	ug/m3	Ganglani	1 / 1	N/A	1.8E-07	N/A	21 N	N/A	N/A	N	BSL
	100-41-4	Ethylbenzene	N/A	1.9E-08	ug/m3	Ganglani	1 / 1	N/A	1.9E-08	N/A	110 C	N/A	N/A	N	BSL
	67-63-0	Isopropyl Alcohol	N/A	2.5E-08	ug/m3	Ganglani	1 / 1	N/A	2.5E-08	N/A	0.95 N	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	5.0E-09	ug/m3	Ganglani	1 / 1	N/A	5.0E-09	N/A	21 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	2.1E-08	ug/m3	Ganglani	1 / 1	N/A	2.1E-08	N/A	40 N	N/A	N/A	N	BSL
	75-69-4	Trichlorofluoromethane	N/A	4.3E-09	ug/m3	Ganglani	1 / 1	N/A	4.3E-09	N/A	73 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	7.1E-08	ug/m3	Ganglani	1 / 1	N/A	7.1E-08	N/A	11 N	N/A	N/A	N	BSL
	95-47-6	Xylene, o-	N/A	1.8E-08	ug/m3	Ganglani	1 / 1	N/A	1.8E-08	N/A	11 N	N/A	N/A	N	BSL
Graphique	106-99-0	1,3-Butadiene	N/A	3.6E-09	ug/m3	Graphique	1 / 1	N/A	3.6E-09	N/A	0.061 C	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	3.0E-08	ug/m3	Graphique	1 / 1	N/A	3.0E-08	N/A	330 N	N/A	N/A	N	BSL
	71-43-2	Benzene	N/A	3.6E-09	ug/m3	Graphique	1 / 1	N/A	3.6E-09	N/A	0.25 C	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	1.8E-09	ug/m3	Graphique	1 / 1	N/A	1.8E-09	N/A	9.5 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	6.1E-09	ug/m3	Graphique	1 / 1	N/A	6.1E-09	N/A	21 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	6.1E-09	ug/m3	Graphique	1 / 1	N/A	6.1E-09	N/A	40 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	4.6E-09	ug/m3	Graphique	1 / 1	N/A	4.6E-09	N/A	11 N	N/A	N/A	N	BSL

TABLE 2.13
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil gas
Exposure Medium: Outdoor Air

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Pacer	106-99-0	1,3-Butadiene	N/A	3.0E-08	ug/m3	Pacer	1 / 1	N/A	3.0E-08	N/A	0.061 C	N/A	N/A	N	BSL
	78-93-3	2-Butanone	N/A	1.8E-07	ug/m3	Pacer	1 / 1	N/A	1.8E-07	N/A	510 N	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	3.1E-07	ug/m3	Pacer	1 / 1	N/A	3.1E-07	N/A	330 N	N/A	N/A	N	BSL
	71-43-2	Benzene	N/A	2.7E-08	ug/m3	Pacer	1 / 1	N/A	2.7E-08	N/A	0.25 C	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	N/A	4.6E-09	ug/m3	Pacer	1 / 1	N/A	4.6E-09	N/A	73 N	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	1.8E-09	ug/m3	Pacer	1 / 1	N/A	1.8E-09	N/A	9.5 N	N/A	N/A	N	BSL
	110-82-7	Cyclohexane	N/A	3.6E-09	ug/m3	Pacer	1 / 1	N/A	3.6E-09	N/A	620 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	5.6E-09	ug/m3	Pacer	1 / 1	N/A	5.6E-09	N/A	21 N	N/A	N/A	N	BSL
	100-41-4	Ethylbenzene	N/A	6.2E-09	ug/m3	Pacer	1 / 1	N/A	6.2E-09	N/A	110 C	N/A	N/A	N	BSL
	1634-04-4	Methyl tert-Butyl Ether	N/A	7.0E-09	ug/m3	Pacer	1 / 1	N/A	7.0E-09	N/A	3.7 C	N/A	N/A	N	BSL
	142-82-5	n-Heptane	N/A	1.6E-08	ug/m3	Pacer	1 / 1	N/A	1.6E-08	N/A	21 N	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	1.9E-08	ug/m3	Pacer	1 / 1	N/A	1.9E-08	N/A	21 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	3.9E-08	ug/m3	Pacer	1 / 1	N/A	3.9E-08	N/A	40 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	1.6E-08	ug/m3	Pacer	1 / 1	N/A	1.6E-08	N/A	11 N	N/A	N/A	N	BSL
	95-47-6	Xylene, o-	N/A	5.3E-09	ug/m3	Pacer	1 / 1	N/A	5.3E-09	N/A	11 N	N/A	N/A	N	BSL
Sacco	95-63-6	1,2,4-Trimethylbenzene	N/A	4.9E-09	ug/m3	Sacco/B	1 / 2	2.5	4.9E-09	N/A	0.62 N	N/A	N/A	N	BSL
	106-99-0	1,3-Butadiene	N/A	4.6E-09	ug/m3	Sacco/B	1 / 2	1.1	4.6E-09	N/A	0.061 C	N/A	N/A	N	BSL
	622-96-8	4-Ethyltoluene	N/A	3.7E-09	ug/m3	Sacco/B	1 / 2	2.5	3.7E-09	N/A	11 N	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	7.1E-08	ug/m3	Sacco/B	1 / 2	12	7.1E-08	N/A	330 N	N/A	N/A	N	BSL
	71-43-2	Benzene	N/A	3.6E-09	ug/m3	Sacco/B	1 / 2	1.6	3.6E-09	N/A	0.25 C	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	N/A	5.0E-09	ug/m3	Sacco/B	1 / 2	1.6	5.0E-09	N/A	73 N	N/A	N/A	N	BSL
	67-66-3	Chloroform	N/A	3.7E-09	ug/m3	Sacco/B	1 / 2	2.4	3.7E-09	N/A	0.083 C	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	2.1E-09	ug/m3	Sacco/A	1 / 2	1	2.1E-09	N/A	9.5 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	5.9E-09	ug/m3	Sacco/B	2 / 2	N/A	5.9E-09	N/A	21 N	N/A	N/A	N	BSL
	100-41-4	Ethylbenzene	N/A	3.9E-09	ug/m3	Sacco/B	1 / 2	2.2	3.9E-09	N/A	110 C	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	3.0E-09	ug/m3	Sacco/B	1 / 2	1.8	3.0E-09	N/A	21 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	1.2E-08	ug/m3	Sacco/B	1 / 2	1.9	1.2E-08	N/A	40 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	1.2E-08	ug/m3	Sacco/B	1 / 2	2.2	1.2E-08	N/A	11 N	N/A	N/A	N	BSL
	95-47-6	Xylene, o-	N/A	4.0E-09	ug/m3	Sacco/B	1 / 2	2.2	4.0E-09	N/A	11 N	N/A	N/A	N	BSL

TABLE 2.13
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil gas
Exposure Medium: Outdoor Air

Exposure Point	CAS Number	Chemical	Minimum Concentration (Qualifier) (1)	Maximum Concentration (Qualifier) (1)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (2)	Background Value (3)	Screening Toxicity Value (N/C) (4)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion (5)
Teradyne	95-63-6	1,2,4-Trimethylbenzene	N/A	5.0E-09	ug/m3	Teradyne	1 / 1	N/A	5.0E-09	N/A	0.62 N	N/A	N/A	N	BSL
	78-93-3	2-Butanone	N/A	8.7E-09	ug/m3	Teradyne	1 / 1	N/A	8.7E-09	N/A	510 N	N/A	N/A	N	BSL
	622-96-8	4-Ethyltoluene	N/A	3.9E-09	ug/m3	Teradyne	1 / 1	N/A	3.9E-09	N/A	11 N	N/A	N/A	N	BSL
	67-64-1	Acetone	N/A	1.2E-07	ug/m3	Teradyne	1 / 1	N/A	1.2E-07	N/A	330 N	N/A	N/A	N	BSL
	71-43-2	Benzene	N/A	3.9E-09	ug/m3	Teradyne	1 / 1	N/A	3.9E-09	N/A	0.25 C	N/A	N/A	N	BSL
	75-15-0	Carbon Disulfide	N/A	6.9E-09	ug/m3	Teradyne	1 / 1	N/A	6.9E-09	N/A	73 N	N/A	N/A	N	BSL
	75-00-3	Chloroethane	N/A	2.3E-09	ug/m3	Teradyne	1 / 1	N/A	2.3E-09	N/A	2.3 C	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	1.9E-09	ug/m3	Teradyne	1 / 1	N/A	1.9E-09	N/A	9.5 N	N/A	N/A	N	BSL
	110-82-7	Cyclohexane	N/A	8.7E-09	ug/m3	Teradyne	1 / 1	N/A	8.7E-09	N/A	620 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	4.4E-09	ug/m3	Teradyne	1 / 1	N/A	4.4E-09	N/A	21 N	N/A	N/A	N	BSL
	100-41-4	Ethylbenzene	N/A	7.7E-09	ug/m3	Teradyne	1 / 1	N/A	7.7E-09	N/A	110 C	N/A	N/A	N	BSL
	67-63-0	Isopropyl Alcohol	N/A	1.1E-07	ug/m3	Teradyne	1 / 1	N/A	1.1E-07	N/A	0.95 N	N/A	N/A	N	BSL
	75-09-2	Methylene Chloride	N/A	2.0E-09	ug/m3	Teradyne	1 / 1	N/A	2.0E-09	N/A	4.1 C	N/A	N/A	N	BSL
	142-82-5	n-Heptane	N/A	4.8E-08	ug/m3	Teradyne	1 / 1	N/A	4.8E-08	N/A	21 N	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	9.6E-09	ug/m3	Teradyne	1 / 1	N/A	9.6E-09	N/A	21 N	N/A	N/A	N	BSL
	100-42-5	Styrene	N/A	1.0E-08	ug/m3	Teradyne	1 / 1	N/A	1.0E-08	N/A	110 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	3.8E-08	ug/m3	Teradyne	1 / 1	N/A	3.8E-08	N/A	40 N	N/A	N/A	N	BSL
	79-01-6	Trichloroethene	N/A	3.6E-08	ug/m3	Teradyne	1 / 1	N/A	3.6E-08	N/A	0.017 C	N/A	N/A	N	BSL
	75-69-4	Trichlorofluoromethane	N/A	6.8E-08	ug/m3	Teradyne	1 / 1	N/A	6.8E-08	N/A	73 N	N/A	N/A	N	BSL
	103-38-3/106-42	Xylene, m/p-	N/A	3.0E-08	ug/m3	Teradyne	1 / 1	N/A	3.0E-08	N/A	11 N	N/A	N/A	N	BSL
	95-47-6	Xylene, o-	N/A	9.0E-09	ug/m3	Teradyne	1 / 1	N/A	9.0E-09	N/A	11 N	N/A	N/A	N	BSL
Vining	67-64-1	Acetone	N/A	1.8E-08	ug/m3	Vining	1 / 1	N/A	1.8E-08	N/A	330 N	N/A	N/A	N	BSL
	74-87-3	Chloromethane	N/A	1.9E-09	ug/m3	Vining	1 / 1	N/A	1.9E-09	N/A	9.5 N	N/A	N/A	N	BSL
	75-71-8	Dichlorodifluoromethane	N/A	6.5E-09	ug/m3	Vining	1 / 1	N/A	6.5E-09	N/A	21 N	N/A	N/A	N	BSL
	75-09-2	Methylene Chloride	N/A	3.0E-08	ug/m3	Vining	1 / 1	N/A	3.0E-08	N/A	4.1 C	N/A	N/A	N	BSL
	110-54-3	n-Hexane	N/A	2.1E-08	ug/m3	Vining	1 / 1	N/A	2.1E-08	N/A	21 N	N/A	N/A	N	BSL
	108-88-3	Toluene	N/A	3.4E-09	ug/m3	Vining	1 / 1	N/A	3.4E-09	N/A	40 N	N/A	N/A	N	BSL
	75-69-4	Trichlorofluoromethane	N/A	6.4E-09	ug/m3	Vining	1 / 1	N/A	6.4E-09	N/A	73 N	N/A	N/A	N	BSL

(1) Soil gas contribution to outdoor air have been presented in the Maximum Concentration field.
Refer to Appendix 6D for model results.
(2) Maximum concentration used for screening.
(3) Refer to supporting information for background discussion.
(4) USEPA Region 9 PRGs for ambient air (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 2004.
PRG for xylene has been used for 4-ethyltoluene.
PRG for 1-butanol has been used for isopropyl alcohol.
PRG for n-hexane has been used for n-heptane.
(5) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
No Screening Level (NSL)
Deletion Reason: No Toxicity Information (NTX)
Below Screening Level (BSL)

Definitions:
COPC = Chemical of Potential Concern
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/To Be Considered
PRG = Preliminary Remedial Goal
N/A = Not Applicable or Not Available
J = Estimated Value
C = Carcinogenic
N = Non-Carcinogenic

TABLE 3.1.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
HB01-Baseflow									
	Trichloroethene	ug/L	2.0E+00	N/A (<4)	2.0E+00 J	2.0E+00	ug/L	Max	(a)
	Antimony	ug/L	3.8E+00	1.5E+01 (NP)	1.4E+01 J	1.4E+01	ug/L	Max	(g)
	Arsenic	ug/L	2.1E+01	2.5E+01 (N)	3.3E+01	2.5E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	4.7E+02	5.3E+02 (N)	7.2E+02	5.3E+02	ug/L	95% UCL - N	(d)
	Thallium	ug/L	1.9E+00	2.5E+00 (G)	5.4E+00 J	2.5E+00	ug/L	95% UCL - G	(h)
	Vanadium	ug/L	1.5E+00	2.4E+00 (G)	5.1E+00 J	2.4E+00	ug/L	95% UCL - G	(h)
HB03-Baseflow									
	Trichloroethene	ug/L	1.3E+00	1.8E+00 (NP)	2.0E+00 J	1.8E+00	ug/L	95% UCL - NP	(f)
	Arsenic	ug/L	2.8E+01	3.3E+01 (N)	5.0E+01	3.3E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	5.6E+00	7.0E+00 (N)	1.4E+01	7.0E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	6.0E+02	6.6E+02 (N)	8.5E+02	6.6E+02	ug/L	95% UCL - N	(d)
	Vanadium	ug/L	1.7E+00	6.8E+00 (NP)	5.9E+00 J	5.9E+00	ug/L	Max	(g)
AR-Baseflow									
	Arsenic	ug/L	2.0E+01	2.5E+01 (N)	3.5E+01	2.5E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	4.5E+02	5.2E+02 (N)	6.7E+02	5.2E+02	ug/L	95% UCL - N	(d)

(1) Refer to Appendix 6B, Table 1 for sample groupings for each exposure point; only COPCs selected on Table 2.1 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.1.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
HB01-Baseflow									
	Trichloroethene	ug/L	2.0E+00	N/A (<4)	2.0E+00 J	2.0E+00	ug/L	Max	(c)
	Antimony	ug/L	3.8E+00	1.5E+01 (NP)	1.4E+01 J	3.8E+00	ug/L	Mean	(b)
	Arsenic	ug/L	2.1E+01	2.5E+01 (N)	3.3E+01	2.5E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	4.7E+02	5.3E+02 (N)	7.2E+02	5.3E+02	ug/L	95% UCL - N	(d)
	Thallium	ug/L	1.9E+00	2.5E+00 (G)	5.4E+00 J	2.5E+00	ug/L	95% UCL - G	(h)
	Vanadium	ug/L	1.5E+00	2.4E+00 (G)	5.1E+00 J	2.4E+00	ug/L	95% UCL - G	(h)
HB03-Baseflow									
	Trichloroethene	ug/L	1.3E+00	1.8E+00 (NP)	2.0E+00 J	1.8E+00	ug/L	95% UCL - NP	(f)
	Arsenic	ug/L	2.8E+01	3.3E+01 (N)	5.0E+01	3.3E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	5.6E+00	7.0E+00 (N)	1.4E+01	7.0E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	6.0E+02	6.6E+02 (N)	8.5E+02	6.6E+02	ug/L	95% UCL - N	(d)
	Vanadium	ug/L	1.7E+00	6.8E+00 (NP)	5.9E+00 J	1.7E+00	ug/L	Mean	(b)
AR-Baseflow									
	Arsenic	ug/L	2.0E+01	2.5E+01 (N)	3.5E+01	2.5E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	4.5E+02	5.2E+02 (N)	6.7E+02	5.2E+02	ug/L	95% UCL - N	(d)

(1) Refer to Appendix 6B, Table 1 for sample groupings for each exposure point; only COPCs selected on Table 2.1 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
HB01-Baseflow									
	Trichloroethene	ug/L	2.0E+00	N/A (<4)	2.0E+00 J	2.0E+00	ug/L	Max	(a)
	Antimony	ug/L	3.8E+00	1.5E+01 (NP)	1.4E+01 J	1.4E+01	ug/L	Max	(g)
	Arsenic	ug/L	2.1E+01	2.5E+01 (N)	3.3E+01	2.5E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	4.7E+02	5.3E+02 (N)	7.2E+02	5.3E+02	ug/L	95% UCL - N	(d)
	Thallium	ug/L	1.9E+00	2.5E+00 (G)	5.4E+00 J	2.5E+00	ug/L	95% UCL - G	(h)
	Vanadium	ug/L	1.5E+00	2.4E+00 (G)	5.1E+00 J	2.4E+00	ug/L	95% UCL - G	(h)
HB01-Storm Event									
	Arsenic	ug/L	3.8E+01	5.4E+01 (N)	8.2E+01	5.4E+01	ug/L	95% UCL - N	(d)
	Cadmium	ug/L	6.5E-01	1.2E+00 (G)	2.4E+00	1.2E+00	ug/L	95% UCL - G	(h)
	Manganese	ug/L	3.7E+02	4.4E+02 (N)	5.7E+02	4.4E+02	ug/L	95% UCL - N	(d)
HB02-Baseflow									
	Trichloroethene	ug/L	1.3E+00	1.8E+00 (NP)	2.0E+00 J	1.8E+00	ug/L	95% UCL - NP	(f)
	Arsenic	ug/L	2.8E+01	3.3E+01 (N)	5.0E+01	3.3E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	5.6E+00	7.0E+00 (N)	1.4E+01	7.0E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	6.0E+02	6.6E+02 (N)	8.5E+02	6.6E+02	ug/L	95% UCL - N	(d)
	Vanadium	ug/L	1.7E+00	6.8E+00 (NP)	5.9E+00 J	5.9E+00	ug/L	Max	(g)
HB02-Storm Event									
	bis(2-Ethylhexyl)phthalate	ug/L	2.4E+01	2.1E+02 (NP)	1.2E+02	1.2E+02	ug/L	Max	(g)
	Antimony	ug/L	1.6E+00	2.1E+00 (G)	2.7E+00	2.1E+00	ug/L	95% UCL - G	(h)
	Arsenic	ug/L	2.4E+01	3.3E+01 (G)	5.7E+01	3.3E+01	ug/L	95% UCL - G	(h)
	Manganese	ug/L	3.3E+02	3.8E+02 (N)	4.5E+02	3.8E+02	ug/L	95% UCL - N	(d)
	Thallium	ug/L	2.4E+00	3.0E+00 (N)	2.4E+00	2.4E+00	ug/L	Max	(g)
HB03-Baseflow									
	Trichloroethene	ug/L	1.3E+00	1.8E+00 (NP)	2.0E+00 J	1.8E+00	ug/L	95% UCL - NP	(f)
	Arsenic	ug/L	2.8E+01	3.3E+01 (N)	5.0E+01	3.3E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	5.6E+00	7.0E+00 (N)	1.4E+01	7.0E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	6.0E+02	6.6E+02 (N)	8.5E+02	6.6E+02	ug/L	95% UCL - N	(d)
	Vanadium	ug/L	1.7E+00	6.8E+00 (NP)	5.9E+00 J	5.9E+00	ug/L	Max	(g)
HB03-Storm Event									
	bis(2-Ethylhexyl)phthalate	ug/L	2.4E+01	2.1E+02 (NP)	1.2E+02	1.2E+02	ug/L	Max	(g)
	Antimony	ug/L	1.6E+00	2.1E+00 (G)	2.7E+00	2.1E+00	ug/L	95% UCL - G	(h)
	Arsenic	ug/L	2.4E+01	3.3E+01 (G)	5.7E+01	3.3E+01	ug/L	95% UCL - G	(h)

TABLE 3.2.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
	Manganese	ug/L	3.3E+02	3.8E+02 (N)	4.5E+02	3.8E+02	ug/L	95% UCL - N	(d)
	Thallium	ug/L	2.4E+00	3.0E+00 (N)	2.4E+00	2.4E+00	ug/L	Max	(g)
AR-Baseflow									
	Arsenic	ug/L	2.0E+01	2.5E+01 (N)	3.5E+01	2.5E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	4.5E+02	5.2E+02 (N)	6.7E+02	5.2E+02	ug/L	95% UCL - N	(d)
AR-Storm Event									
	Arsenic	ug/L	1.5E+01	2.1E+01 (N)	2.8E+01	2.1E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	1.4E+02	1.9E+02 (N)	2.5E+02	1.9E+02	ug/L	95% UCL - N	(d)
BE-2-Baseflow									
	Trichloroethene	ug/L	2.0E+00	N/A (<4)	2.0E+00 J	2.0E+00	ug/L	Max	(a)
	Antimony	ug/L	3.8E+00	1.5E+01 (NP)	1.4E+01 J	1.4E+01	ug/L	Max	(g)
	Arsenic	ug/L	2.1E+01	2.5E+01 (N)	3.3E+01	2.5E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	4.7E+02	5.3E+02 (N)	7.2E+02	5.3E+02	ug/L	95% UCL - N	(d)
	Thallium	ug/L	1.9E+00	2.5E+00 (G)	5.4E+00 J	2.5E+00	ug/L	95% UCL - G	(h)
	Vanadium	ug/L	1.5E+00	2.4E+00 (G)	5.1E+00 J	2.4E+00	ug/L	95% UCL - G	(h)
BE-2-Storm Event									
	Arsenic	ug/L	3.8E+01	5.4E+01 (N)	8.2E+01	5.4E+01	ug/L	95% UCL - N	(d)
	Cadmium	ug/L	6.5E-01	1.2E+00 (G)	2.4E+00	1.2E+00	ug/L	95% UCL - G	(h)
	Manganese	ug/L	3.7E+02	4.4E+02 (N)	5.7E+02	4.4E+02	ug/L	95% UCL - N	(d)

(1) Refer to Appendix 6B, Table 1 for sample groupings for each exposure point; only COPCs selected on Table 2.2 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
HB01-Baseflow									
	Trichloroethene	ug/L	2.0E+00	N/A (<4)	2.0E+00 J	2.0E+00	ug/L	Max	(c)
	Antimony	ug/L	3.8E+00	1.5E+01 (NP)	1.4E+01 J	3.8E+00	ug/L	Mean	(b)
	Arsenic	ug/L	2.1E+01	2.5E+01 (N)	3.3E+01	2.5E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	4.7E+02	5.3E+02 (N)	7.2E+02	5.3E+02	ug/L	95% UCL - N	(d)
	Thallium	ug/L	1.9E+00	2.5E+00 (G)	5.4E+00 J	2.5E+00	ug/L	95% UCL - G	(h)
	Vanadium	ug/L	1.5E+00	2.4E+00 (G)	5.1E+00 J	2.4E+00	ug/L	95% UCL - G	(h)
HB01-Storm Event									
	Arsenic	ug/L	3.8E+01	5.4E+01 (N)	8.2E+01	5.4E+01	ug/L	95% UCL - N	(d)
	Cadmium	ug/L	6.5E-01	1.2E+00 (G)	2.4E+00	1.2E+00	ug/L	95% UCL - G	(h)
	Manganese	ug/L	3.7E+02	4.4E+02 (N)	5.7E+02	4.4E+02	ug/L	95% UCL - N	(d)
HB02-Baseflow									
	Trichloroethene	ug/L	1.3E+00	1.8E+00 (NP)	2.0E+00 J	1.8E+00	ug/L	95% UCL - NP	(f)
	Arsenic	ug/L	2.8E+01	3.3E+01 (N)	5.0E+01	3.3E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	5.6E+00	7.0E+00 (N)	1.4E+01	7.0E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	6.0E+02	6.6E+02 (N)	8.5E+02	6.6E+02	ug/L	95% UCL - N	(d)
	Vanadium	ug/L	1.7E+00	6.8E+00 (NP)	5.9E+00 J	1.7E+00	ug/L	Mean	(b)
HB02-Storm Event									
	bis(2-Ethylhexyl)phthalate	ug/L	2.4E+01	2.1E+02 (NP)	1.2E+02	2.4E+01	ug/L	Mean	(b)
	Antimony	ug/L	1.6E+00	2.1E+00 (G)	2.7E+00	2.1E+00	ug/L	95% UCL - G	(h)
	Arsenic	ug/L	2.4E+01	3.3E+01 (G)	5.7E+01	3.3E+01	ug/L	95% UCL - G	(h)
	Manganese	ug/L	3.3E+02	3.8E+02 (N)	4.5E+02	3.8E+02	ug/L	95% UCL - N	(d)
	Thallium	ug/L	2.4E+00	3.0E+00 (N)	2.4E+00	2.4E+00	ug/L	Max	(c)
HB03-Baseflow									
	Trichloroethene	ug/L	1.3E+00	1.8E+00 (NP)	2.0E+00 J	1.8E+00	ug/L	95% UCL - NP	(f)
	Arsenic	ug/L	2.8E+01	3.3E+01 (N)	5.0E+01	3.3E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	5.6E+00	7.0E+00 (N)	1.4E+01	7.0E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	6.0E+02	6.6E+02 (N)	8.5E+02	6.6E+02	ug/L	95% UCL - N	(d)
	Vanadium	ug/L	1.7E+00	6.8E+00 (NP)	5.9E+00 J	1.7E+00	ug/L	Mean	(b)
HB03-Storm Event									
	bis(2-Ethylhexyl)phthalate	ug/L	2.4E+01	2.1E+02 (NP)	1.2E+02	2.4E+01	ug/L	Mean	(b)
	Antimony	ug/L	1.6E+00	2.1E+00 (G)	2.7E+00	2.1E+00	ug/L	95% UCL - G	(h)
	Arsenic	ug/L	2.4E+01	3.3E+01 (G)	5.7E+01	3.3E+01	ug/L	95% UCL - G	(h)

TABLE 3.2.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
	Manganese	ug/L	3.3E+02	3.8E+02 (N)	4.5E+02	3.8E+02	ug/L	95% UCL - N	(d)
	Thallium	ug/L	2.4E+00	3.0E+00 (N)	2.4E+00	2.4E+00	ug/L	Max	(c)
AR-Baseflow									
	Arsenic	ug/L	2.0E+01	2.5E+01 (N)	3.5E+01	2.5E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	4.5E+02	5.2E+02 (N)	6.7E+02	5.2E+02	ug/L	95% UCL - N	(d)
AR-Storm Event									
	Arsenic	ug/L	1.5E+01	2.1E+01 (N)	2.8E+01	2.1E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	1.4E+02	1.9E+02 (N)	2.5E+02	1.9E+02	ug/L	95% UCL - N	(d)
BE-2-Baseflow									
	Trichloroethene	ug/L	2.0E+00	N/A (<4)	2.0E+00 J	2.0E+00	ug/L	Max	(c)
	Antimony	ug/L	3.8E+00	1.5E+01 (NP)	1.4E+01 J	3.8E+00	ug/L	Mean	(b)
	Arsenic	ug/L	2.1E+01	2.5E+01 (N)	3.3E+01	2.5E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	4.7E+02	5.3E+02 (N)	7.2E+02	5.3E+02	ug/L	95% UCL - N	(d)
	Thallium	ug/L	1.9E+00	2.5E+00 (G)	5.4E+00 J	2.5E+00	ug/L	95% UCL - G	(h)
	Vanadium	ug/L	1.5E+00	2.4E+00 (G)	5.1E+00 J	2.4E+00	ug/L	95% UCL - G	(h)
BE-2-Storm Event									
	Arsenic	ug/L	3.8E+01	5.4E+01 (N)	8.2E+01	5.4E+01	ug/L	95% UCL - N	(d)
	Cadmium	ug/L	6.5E-01	1.2E+00 (G)	2.4E+00	1.2E+00	ug/L	95% UCL - G	(h)
	Manganese	ug/L	3.7E+02	4.4E+02 (N)	5.7E+02	4.4E+02	ug/L	95% UCL - N	(d)

(1) Refer to Appendix 6B, Table 1 for sample groupings for each exposure point; only COPCs selected on Table 2.2 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.3.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Sediment
Exposure Medium: Sediment

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
HB01/A6									
	Benzo(a)anthracene	mg/kg	1.3E+00	N/A (<4)	1.3E+00	1.3E+00	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	1.4E+00	N/A (<4)	1.4E+00	1.4E+00	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	2.1E+00	N/A (<4)	2.1E+00	2.1E+00	mg/kg	Max	(a)
	bis(2-Ethylhexyl)phthalate	mg/kg	3.7E+01	N/A (<4)	3.7E+01	3.7E+01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	2.1E-01	N/A (<4)	2.1E-01 J	2.1E-01	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	9.4E-01	N/A (<4)	9.4E-01	9.4E-01	mg/kg	Max	(a)
	Antimony	mg/kg	5.1E+00	1.1E+01 (G)	1.8E+01 J	1.1E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	2.0E+02	3.1E+02 (N)	6.5E+02	3.1E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.1E+01	1.7E+01 (N)	3.5E+01 J	1.7E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.4E+02	1.1E+03 (N)	2.0E+03 J	1.1E+03	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.5E+02	5.6E+02 (G)	6.7E+02 J	See Appendix 6L			
	Manganese	mg/kg	1.7E+02	2.2E+02 (N)	3.6E+02	2.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.2E+00	1.7E+00 (N)	2.7E+00 J	1.7E+00	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.9E+00	1.1E+01 (NP)	9.1E+00 J	9.1E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	2.0E+01	2.6E+01 (N)	4.4E+01	2.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.5E+03	5.7E+03 (G)	1.3E+04 J	5.7E+03	mg/kg	95% UCL - G	(h)
HB03									
	Antimony	mg/kg	5.2E+00	7.0E+00 (N)	8.1E+00 J	7.0E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.4E+02	3.3E+02 (N)	5.3E+02 J	3.3E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.8E+00	1.1E+01 (N)	1.6E+01 J	1.1E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.7E+02	3.6E+02 (N)	5.9E+02	3.6E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.0E+03	2.1E+03 (G)	2.8E+03	2.1E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	6.9E-01	1.3E+00 (G)	1.7E+00 J	1.3E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	2.7E+00	4.1E+00 (N)	6.5E+00 J	4.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.4E+01	4.3E+01 (G)	6.9E+01	4.3E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	1.6E+03	2.1E+03 (N)	3.5E+03	2.1E+03	mg/kg	95% UCL - N	(d)

TABLE 3.3.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Sediment
Exposure Medium: Sediment

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
AR									
	Antimony	mg/kg	4.6E+00	1.2E+01 (T)	2.0E+01	1.2E+01	mg/kg	95% UCL - T	(e)
	Arsenic	mg/kg	3.6E+02	6.2E+02 (N)	8.9E+02 J	6.2E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.0E+00	8.6E+00 (N)	1.2E+01	8.6E+00	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	4.0E+02	1.3E+03 (G)	1.6E+03 J	1.3E+03	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.6E+02	5.5E+02 (G)	5.6E+02	See Appendix 6L			
	Manganese	mg/kg	2.5E+02	3.4E+02 (N)	4.0E+02 J	3.4E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.4E+00	2.4E+00 (N)	2.8E+00	2.4E+00	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	2.5E+00	3.2E+00 (N)	3.6E+00 J	3.2E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.0E+01	4.6E+01 (N)	5.8E+01	4.6E+01	mg/kg	95% UCL - N	(d)
BE-1									
	Arsenic	mg/kg	2.1E+01	N/A (<4)	2.9E+01	2.9E+01	mg/kg	Max	(a)
	Vanadium	mg/kg	3.0E+01	N/A (<4)	3.0E+01	3.0E+01	mg/kg	Max	(a)

(1) Refer to Appendix 6B, Table 2 for sample groupings for each exposure point; only COPCs selected on Table 2.3 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.3.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Sediment
Exposure Medium: Sediment

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
HB01/A6									
	Benzo(a)anthracene	mg/kg	1.3E+00	N/A (<4)	1.3E+00	1.3E+00	mg/kg	Max	(c)
	Benzo(a)pyrene	mg/kg	1.4E+00	N/A (<4)	1.4E+00	1.4E+00	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	2.1E+00	N/A (<4)	2.1E+00	2.1E+00	mg/kg	Max	(c)
	bis(2-Ethylhexyl)phthalate	mg/kg	3.7E+01	N/A (<4)	3.7E+01	3.7E+01	mg/kg	Max	(c)
	Dibenz(a,h)anthracene	mg/kg	2.1E-01	N/A (<4)	2.1E-01 J	2.1E-01	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	9.4E-01	N/A (<4)	9.4E-01	9.4E-01	mg/kg	Max	(c)
	Antimony	mg/kg	5.1E+00	1.1E+01 (G)	1.8E+01 J	1.1E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	2.0E+02	3.1E+02 (N)	6.5E+02	3.1E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.1E+01	1.7E+01 (N)	3.5E+01 J	1.7E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.4E+02	1.1E+03 (N)	2.0E+03 J	1.1E+03	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.5E+02	5.6E+02 (G)	6.7E+02 J	See Appendix 6L			
	Manganese	mg/kg	1.7E+02	2.2E+02 (N)	3.6E+02	2.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.2E+00	1.7E+00 (N)	2.7E+00 J	1.7E+00	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.9E+00	1.1E+01 (NP)	9.1E+00 J	1.9E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	2.0E+01	2.6E+01 (N)	4.4E+01	2.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.5E+03	5.7E+03 (G)	1.3E+04 J	5.7E+03	mg/kg	95% UCL - G	(h)
HB03									
	Antimony	mg/kg	5.2E+00	7.0E+00 (N)	8.1E+00 J	7.0E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.4E+02	3.3E+02 (N)	5.3E+02 J	3.3E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.8E+00	1.1E+01 (N)	1.6E+01 J	1.1E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.7E+02	3.6E+02 (N)	5.9E+02	3.6E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.0E+03	2.1E+03 (G)	2.8E+03	2.1E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	6.9E-01	1.3E+00 (G)	1.7E+00 J	1.3E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	2.7E+00	4.1E+00 (N)	6.5E+00 J	4.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.4E+01	4.3E+01 (G)	6.9E+01	4.3E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	1.6E+03	2.1E+03 (N)	3.5E+03	2.1E+03	mg/kg	95% UCL - N	(d)

TABLE 3.3.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Sediment
Exposure Medium: Sediment

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
AR									
	Antimony	mg/kg	4.6E+00	1.2E+01 (T)	2.0E+01	1.2E+01	mg/kg	95% UCL - T	(e)
	Arsenic	mg/kg	3.6E+02	6.2E+02 (N)	8.9E+02 J	6.2E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.0E+00	8.6E+00 (N)	1.2E+01	8.6E+00	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	4.0E+02	1.3E+03 (G)	1.6E+03 J	1.3E+03	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.6E+02	5.5E+02 (G)	5.6E+02	See Appendix 6L			
	Manganese	mg/kg	2.5E+02	3.4E+02 (N)	4.0E+02 J	3.4E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.4E+00	2.4E+00 (N)	2.8E+00	2.4E+00	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	2.5E+00	3.2E+00 (N)	3.6E+00 J	3.2E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.0E+01	4.6E+01 (N)	5.8E+01	4.6E+01	mg/kg	95% UCL - N	(d)
BE-1									
	Arsenic	mg/kg	2.1E+01	N/A (<4)	2.9E+01	2.1E+01	mg/kg	Mean	(b)
	Vanadium	mg/kg	3.0E+01	N/A (<4)	3.0E+01	3.0E+01	mg/kg	Mean	(b)

(1) Refer to Appendix 6B, Table 2 for sample groupings for each exposure point; only COPCs selected on Table 2.3 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.4.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
HB01/A6									
	Benzo(a)anthracene	mg/kg	1.3E+00	N/A (<4)	1.3E+00	1.3E+00	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	1.4E+00	N/A (<4)	1.4E+00	1.4E+00	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	2.1E+00	N/A (<4)	2.1E+00	2.1E+00	mg/kg	Max	(a)
	bis(2-Ethylhexyl)phthalate	mg/kg	3.7E+01	N/A (<4)	3.7E+01	3.7E+01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	2.1E-01	N/A (<4)	2.1E-01 J	2.1E-01	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	9.4E-01	N/A (<4)	9.4E-01	9.4E-01	mg/kg	Max	(a)
	Antimony	mg/kg	5.1E+00	1.1E+01 (G)	1.8E+01 J	1.1E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	2.0E+02	3.1E+02 (N)	6.5E+02	3.1E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.1E+01	1.7E+01 (N)	3.5E+01 J	1.7E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.4E+02	1.1E+03 (N)	2.0E+03 J	1.1E+03	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.5E+02	5.6E+02 (G)	6.7E+02 J	See Appendix 6L			
	Manganese	mg/kg	1.7E+02	2.2E+02 (N)	3.6E+02	2.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.2E+00	1.7E+00 (N)	2.7E+00 J	1.7E+00	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.9E+00	1.1E+01 (NP)	9.1E+00 J	9.1E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	2.0E+01	2.6E+01 (N)	4.4E+01	2.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.5E+03	5.7E+03 (G)	1.3E+04 J	5.7E+03	mg/kg	95% UCL - G	(h)
HB02/HB04									
	Antimony	mg/kg	6.8E+00	9.1E+00 (N)	1.1E+01 J	9.1E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	5.4E+02	7.8E+02 (N)	1.2E+03 J	7.8E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.3E+01	1.8E+01 (N)	3.0E+01 J	1.8E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.5E+02	4.8E+02 (N)	8.1E+02	4.8E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.1E+02	2.9E+02 (N)	4.3E+02	See Appendix 6L			
	Manganese	mg/kg	8.1E+02	1.5E+03 (G)	3.9E+03	1.5E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	7.0E-01	9.5E-01 (N)	1.6E+00 J	9.5E-01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.0E+01	1.5E+01 (N)	1.8E+01 J	1.5E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.1E+01	5.4E+01 (N)	8.4E+01	5.4E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.4E+03	4.4E+03 (G)	7.3E+03	4.4E+03	mg/kg	95% UCL - G	(h)

TABLE 3.4.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
HB03									
	Antimony	mg/kg	5.2E+00	7.0E+00 (N)	8.1E+00 J	7.0E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.4E+02	3.3E+02 (N)	5.3E+02 J	3.3E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.8E+00	1.1E+01 (N)	1.6E+01 J	1.1E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.7E+02	3.6E+02 (N)	5.9E+02	3.6E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.0E+03	2.1E+03 (G)	2.8E+03	2.1E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	6.9E-01	1.3E+00 (G)	1.7E+00 J	1.3E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	2.7E+00	4.1E+00 (N)	6.5E+00 J	4.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.4E+01	4.3E+01 (G)	6.9E+01	4.3E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	1.6E+03	2.1E+03 (N)	3.5E+03	2.1E+03	mg/kg	95% UCL - N	(d)
AR									
	Antimony	mg/kg	4.6E+00	1.2E+01 (T)	2.0E+01	1.2E+01	mg/kg	95% UCL - T	(e)
	Arsenic	mg/kg	3.6E+02	6.2E+02 (N)	8.9E+02 J	6.2E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.0E+00	8.6E+00 (N)	1.2E+01	8.6E+00	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	4.0E+02	1.3E+03 (G)	1.6E+03 J	1.3E+03	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.6E+02	5.5E+02 (G)	5.6E+02	See Appendix 6L			
	Manganese	mg/kg	2.5E+02	3.4E+02 (N)	4.0E+02 J	3.4E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.4E+00	2.4E+00 (N)	2.8E+00	2.4E+00	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	2.5E+00	3.2E+00 (N)	3.6E+00 J	3.2E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.0E+01	4.6E+01 (N)	5.8E+01	4.6E+01	mg/kg	95% UCL - N	(d)
BE-1									
	Arsenic	mg/kg	4.5E+01	6.8E+01 (N)	7.5E+01 J	6.8E+01	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	7.3E+02 (NP)	6.9E+02 J	6.9E+02	mg/kg	Max	(g)
	Thallium	mg/kg	1.1E+00	1.4E+00 (N)	1.7E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.2E+01	5.8E+01 (N)	7.0E+01	5.8E+01	mg/kg	95% UCL - N	(d)
BE-2									
	Arsenic	mg/kg	2.2E+02	3.5E+02 (N)	3.8E+02 J	3.5E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	3.5E+00	4.8E+00 (N)	5.0E+00	4.8E+00	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.7E+02	6.3E+02 (N)	6.5E+02	6.3E+02	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.6E+00	2.9E+00 (N)	2.7E+00	2.7E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	5.7E+01	7.6E+01 (N)	7.9E+01	7.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.3E+03	4.1E+03 (NP)	3.2E+03 J	3.2E+03	mg/kg	Max	(g)

TABLE 3.4.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
SC01									
	Arsenic	mg/kg	4.8E+01	3.8E+02 (G)	1.5E+02	1.5E+02	mg/kg	Max	(g)
	Cadmium	mg/kg	1.7E+00	6.2E+00 (NP)	4.8E+00	4.8E+00	mg/kg	Max	(g)
	Manganese	mg/kg	1.1E+02	3.5E+03 (T)	2.7E+02	2.7E+02	mg/kg	Max	(g)
	Mercury	mg/kg	2.1E-01	1.9E+00 (NP)	7.3E-01	7.3E-01	mg/kg	Max	(g)
	Vanadium	mg/kg	7.0E+00	1.1E+01 (N)	1.1E+01	1.1E+01	mg/kg	Max	(g)
SC02									
	Arsenic	mg/kg	7.5E+02	1.7E+03 (N)	1.6E+03	1.6E+03	mg/kg	Max	(g)
	Cadmium	mg/kg	1.4E+01	3.4E+01 (N)	3.5E+01	3.4E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.8E+02	6.0E+02 (N)	6.1E+02	6.0E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.0E+03	2.3E+03 (N)	2.3E+03	2.3E+03	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	6.4E-01	1.1E+00 (N)	1.1E+00	1.1E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	2.8E+01	5.7E+01 (N)	5.5E+01	5.5E+01	mg/kg	Max	(g)
	Zinc	mg/kg	2.6E+03	6.2E+03 (N)	6.7E+03	6.2E+03	mg/kg	95% UCL - N	(d)
SC03									
	Arsenic	mg/kg	2.1E+01	6.9E+01 (NP)	5.4E+01	5.4E+01	mg/kg	Max	(g)
SC04									
	Arsenic	mg/kg	6.1E+01	8.6E+02 (T)	1.4E+02	1.4E+02	mg/kg	Max	(g)
	Cadmium	mg/kg	1.9E+00	1.4E+01 (NP)	5.5E+00	5.5E+00	mg/kg	Max	(g)
	Manganese	mg/kg	1.7E+02	9.0E+02 (G)	4.7E+02	4.7E+02	mg/kg	Max	(g)
	Mercury	mg/kg	5.0E-01	1.4E+00 (N)	1.6E+00	1.4E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	8.7E+00	1.3E+01 (N)	1.3E+01	1.3E+01	mg/kg	95% UCL - N	(d)

(1) Refer to Appendix 6B, Table 2 for sample groupings for each exposure point; only COPCs selected on Table 2.4 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit

EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.4.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
HB01/A6									
	Benzo(a)anthracene	mg/kg	1.3E+00	N/A (<4)	1.3E+00	1.3E+00	mg/kg	Max	(c)
	Benzo(a)pyrene	mg/kg	1.4E+00	N/A (<4)	1.4E+00	1.4E+00	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	2.1E+00	N/A (<4)	2.1E+00	2.1E+00	mg/kg	Max	(c)
	bis(2-Ethylhexyl)phthalate	mg/kg	3.7E+01	N/A (<4)	3.7E+01	3.7E+01	mg/kg	Max	(c)
	Dibenz(a,h)anthracene	mg/kg	2.1E-01	N/A (<4)	2.1E-01 J	2.1E-01	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	9.4E-01	N/A (<4)	9.4E-01	9.4E-01	mg/kg	Max	(c)
	Antimony	mg/kg	5.1E+00	1.1E+01 (G)	1.8E+01 J	1.1E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	2.0E+02	3.1E+02 (N)	6.5E+02	3.1E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.1E+01	1.7E+01 (N)	3.5E+01 J	1.7E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.4E+02	1.1E+03 (N)	2.0E+03 J	1.1E+03	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.5E+02	5.6E+02 (G)	6.7E+02 J	See Appendix 6L			
	Manganese	mg/kg	1.7E+02	2.2E+02 (N)	3.6E+02	2.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.2E+00	1.7E+00 (N)	2.7E+00 J	1.7E+00	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.9E+00	1.1E+01 (NP)	9.1E+00 J	1.9E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	2.0E+01	2.6E+01 (N)	4.4E+01	2.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.5E+03	5.7E+03 (G)	1.3E+04 J	5.7E+03	mg/kg	95% UCL - G	(h)
HB02/HB04									
	Antimony	mg/kg	6.8E+00	9.1E+00 (N)	1.1E+01 J	9.1E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	5.4E+02	7.8E+02 (N)	1.2E+03 J	7.8E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.3E+01	1.8E+01 (N)	3.0E+01 J	1.8E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.5E+02	4.8E+02 (N)	8.1E+02	4.8E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.1E+02	2.9E+02 (N)	4.3E+02	See Appendix 6L			
	Manganese	mg/kg	8.1E+02	1.5E+03 (G)	3.9E+03	1.5E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	7.0E-01	9.5E-01 (N)	1.6E+00 J	9.5E-01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.0E+01	1.5E+01 (N)	1.8E+01 J	1.5E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.1E+01	5.4E+01 (N)	8.4E+01	5.4E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.4E+03	4.4E+03 (G)	7.3E+03	4.4E+03	mg/kg	95% UCL - G	(h)

TABLE 3.4.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
HB03									
	Antimony	mg/kg	5.2E+00	7.0E+00 (N)	8.1E+00 J	7.0E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.4E+02	3.3E+02 (N)	5.3E+02 J	3.3E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.8E+00	1.1E+01 (N)	1.6E+01 J	1.1E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.7E+02	3.6E+02 (N)	5.9E+02	3.6E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.0E+03	2.1E+03 (G)	2.8E+03	2.1E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	6.9E-01	1.3E+00 (G)	1.7E+00 J	1.3E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	2.7E+00	4.1E+00 (N)	6.5E+00 J	4.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.4E+01	4.3E+01 (G)	6.9E+01	4.3E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	1.6E+03	2.1E+03 (N)	3.5E+03	2.1E+03	mg/kg	95% UCL - N	(d)
AR									
	Antimony	mg/kg	4.6E+00	1.2E+01 (T)	2.0E+01	1.2E+01	mg/kg	95% UCL - T	(e)
	Arsenic	mg/kg	3.6E+02	6.2E+02 (N)	8.9E+02 J	6.2E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.0E+00	8.6E+00 (N)	1.2E+01	8.6E+00	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	4.0E+02	1.3E+03 (G)	1.6E+03 J	1.3E+03	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.6E+02	5.5E+02 (G)	5.6E+02	See Appendix 6L			
	Manganese	mg/kg	2.5E+02	3.4E+02 (N)	4.0E+02 J	3.4E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.4E+00	2.4E+00 (N)	2.8E+00	2.4E+00	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	2.5E+00	3.2E+00 (N)	3.6E+00 J	3.2E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.0E+01	4.6E+01 (N)	5.8E+01	4.6E+01	mg/kg	95% UCL - N	(d)
BE-1									
	Arsenic	mg/kg	4.5E+01	6.8E+01 (N)	7.5E+01 J	6.8E+01	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	7.3E+02 (NP)	6.9E+02 J	2.9E+02	mg/kg	Mean	(b)
	Thallium	mg/kg	1.1E+00	1.4E+00 (N)	1.7E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.2E+01	5.8E+01 (N)	7.0E+01	5.8E+01	mg/kg	95% UCL - N	(d)
BE-2									
	Arsenic	mg/kg	2.2E+02	3.5E+02 (N)	3.8E+02 J	3.5E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	3.5E+00	4.8E+00 (N)	5.0E+00	4.8E+00	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.7E+02	6.3E+02 (N)	6.5E+02	6.3E+02	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.6E+00	2.9E+00 (N)	2.7E+00	1.6E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	5.7E+01	7.6E+01 (N)	7.9E+01	7.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.3E+03	4.1E+03 (NP)	3.2E+03 J	1.3E+03	mg/kg	Mean	(b)

TABLE 3.4.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
SC01									
	Arsenic	mg/kg	4.8E+01	3.8E+02 (G)	1.5E+02	4.8E+01	mg/kg	Mean	(b)
	Cadmium	mg/kg	1.7E+00	6.2E+00 (NP)	4.8E+00	1.7E+00	mg/kg	Mean	(b)
	Manganese	mg/kg	1.1E+02	3.5E+03 (T)	2.7E+02	1.1E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	2.1E-01	1.9E+00 (NP)	7.3E-01	2.1E-01	mg/kg	Mean	(b)
	Vanadium	mg/kg	7.0E+00	1.1E+01 (N)	1.1E+01	7.0E+00	mg/kg	Mean	(b)
SC02									
	Arsenic	mg/kg	7.5E+02	1.7E+03 (N)	1.6E+03	7.5E+02	mg/kg	Mean	(b)
	Cadmium	mg/kg	1.4E+01	3.4E+01 (N)	3.5E+01	3.4E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.8E+02	6.0E+02 (N)	6.1E+02	6.0E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.0E+03	2.3E+03 (N)	2.3E+03	2.3E+03	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	6.4E-01	1.1E+00 (N)	1.1E+00	6.4E-01	mg/kg	Mean	(b)
	Vanadium	mg/kg	2.8E+01	5.7E+01 (N)	5.5E+01	2.8E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	2.6E+03	6.2E+03 (N)	6.7E+03	6.2E+03	mg/kg	95% UCL - N	(d)
SC03									
	Arsenic	mg/kg	2.1E+01	6.9E+01 (NP)	5.4E+01	2.1E+01	mg/kg	Mean	(b)
SC04									
	Arsenic	mg/kg	6.1E+01	8.6E+02 (T)	1.4E+02	6.1E+01	mg/kg	Mean	(b)
	Cadmium	mg/kg	1.9E+00	1.4E+01 (NP)	5.5E+00	1.9E+00	mg/kg	Mean	(b)
	Manganese	mg/kg	1.7E+02	9.0E+02 (G)	4.7E+02	1.7E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	5.0E-01	1.4E+00 (N)	1.6E+00	1.4E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	8.7E+00	1.3E+01 (N)	1.3E+01	1.3E+01	mg/kg	95% UCL - N	(d)

(1) Refer to Appendix 6B, Table 2 for sample groupings for each exposure point; only COPCs selected on Table 2.4 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit

EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.5.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
SO (groundskeeper)									
	Benzo(a)anthracene	mg/kg	3.7E-01	3.2E+00 (NP)	5.8E+00	3.2E+00	mg/kg	95% UCL - NP	(f)
	Benzo(a)pyrene	mg/kg	4.9E-01	4.4E+00 (NP)	7.9E+00	4.4E+00	mg/kg	95% UCL - NP	(f)
	Benzo(b)fluoranthene	mg/kg	7.0E-01	6.1E+00 (NP)	1.1E+01	6.1E+00	mg/kg	95% UCL - NP	(f)
	Dibenz(a,h)anthracene	mg/kg	8.9E-02	7.2E-01 (NP)	1.3E+00	7.2E-01	mg/kg	95% UCL - NP	(f)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.7E-01	3.3E+00 (NP)	6.0E+00	3.3E+00	mg/kg	95% UCL - NP	(f)
	Phenanthrene	mg/kg	5.4E-01	4.6E+00 (NP)	8.1E+00	4.6E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	4.6E+01	9.2E+01 (T)	1.9E+02 J	9.2E+01	mg/kg	95% UCL - T	(e)
	Manganese	mg/kg	1.4E+02	1.6E+02 (G)	3.8E+02 J	1.6E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	8.7E-01	1.9E+00 (G)	5.8E+00 J	1.9E+00	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	1.9E+01	2.2E+01 (G)	4.1E+01	2.2E+01	mg/kg	95% UCL - G	(h)
SO (Day Care Child)									
	Benzo(a)anthracene	mg/kg	1.2E+00	7.0E+00 (T)	5.8E+00	5.8E+00	mg/kg	Max	(g)
	Benzo(a)pyrene	mg/kg	1.7E+00	1.0E+01 (T)	7.9E+00	7.9E+00	mg/kg	Max	(g)
	Benzo(b)fluoranthene	mg/kg	2.4E+00	1.2E+01 (T)	1.1E+01	1.1E+01	mg/kg	Max	(g)
	Dibenz(a,h)anthracene	mg/kg	2.8E-01	2.8E+00 (NP)	1.3E+00	1.3E+00	mg/kg	Max	(g)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.3E+00	7.6E+00 (T)	6.0E+00	6.0E+00	mg/kg	Max	(g)
	Phenanthrene	mg/kg	1.7E+00	4.3E+01 (G)	8.1E+00	8.1E+00	mg/kg	Max	(g)
	Arsenic	mg/kg	2.7E+01	6.2E+01 (G)	6.4E+01	6.2E+01	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	1.6E+02	1.9E+02 (NP)	1.9E+02 J	1.9E+02	mg/kg	Max	(g)
	Mercury	mg/kg	5.4E-01	3.5E+00 (G)	2.1E+00 J	2.1E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	1.7E+01	2.1E+01 (N)	2.3E+01	2.1E+01	mg/kg	95% UCL - N	(d)
HB01/A6									
	Antimony	mg/kg	1.2E+01	5.4E+01 (NP)	5.0E+01 J	5.0E+01	mg/kg	Max	(g)
	Arsenic	mg/kg	2.8E+02	6.0E+02 (G)	7.2E+02	6.0E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	2.2E+02	4.3E+02 (G)	6.1E+02	4.3E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.2E+03	3.6E+03 (G)	5.2E+03	See Appendix 6L			
	Manganese	mg/kg	1.2E+02	1.7E+02 (G)	3.5E+02	1.7E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.4E+00	9.3E+00 (G)	9.6E+00	9.3E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.4E+01	2.0E+01 (N)	4.2E+01	2.0E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.9E+01	2.3E+01 (N)	3.7E+01 J	2.3E+01	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	7.1E+00	2.0E+01 (G)	4.5E+01	2.0E+01	mg/kg	95% UCL - G	(h)

TABLE 3.5.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current

Medium: Soil

Exposure Medium: Surface Soil

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
HB04									
	Arsenic	mg/kg	2.2E+01	2.6E+01 (N)	3.3E+01 J	2.6E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	5.8E-01	7.1E-01 (NP)	8.1E-01 J	7.1E-01	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	9.6E+00	1.1E+01 (N)	1.3E+01	1.1E+01	mg/kg	95% UCL - N	(d)

(1) Refer to Appendix 6B, Table 3 for sample groupings for each exposure point; only COPCs selected on Table 2.5 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.5.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
SO (groundskeeper)									
	Benzo(a)anthracene	mg/kg	3.7E-01	3.2E+00 (NP)	5.8E+00	3.2E+00	mg/kg	95% UCL - NP	(f)
	Benzo(a)pyrene	mg/kg	4.9E-01	4.4E+00 (NP)	7.9E+00	4.4E+00	mg/kg	95% UCL - NP	(f)
	Benzo(b)fluoranthene	mg/kg	7.0E-01	6.1E+00 (NP)	1.1E+01	6.1E+00	mg/kg	95% UCL - NP	(f)
	Dibenz(a,h)anthracene	mg/kg	8.9E-02	7.2E-01 (NP)	1.3E+00	7.2E-01	mg/kg	95% UCL - NP	(f)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.7E-01	3.3E+00 (NP)	6.0E+00	3.3E+00	mg/kg	95% UCL - NP	(f)
	Phenanthrene	mg/kg	5.4E-01	4.6E+00 (NP)	8.1E+00	4.6E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	4.6E+01	9.2E+01 (T)	1.9E+02 J	9.2E+01	mg/kg	95% UCL - T	(e)
	Manganese	mg/kg	1.4E+02	1.6E+02 (G)	3.8E+02 J	1.6E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	8.7E-01	1.9E+00 (G)	5.8E+00 J	1.9E+00	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	1.9E+01	2.2E+01 (G)	4.1E+01	2.2E+01	mg/kg	95% UCL - G	(h)
SO (Day Care Child)									
	Benzo(a)anthracene	mg/kg	1.2E+00	7.0E+00 (T)	5.8E+00	1.2E+00	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	1.7E+00	1.0E+01 (T)	7.9E+00	1.7E+00	mg/kg	Mean	(b)
	Benzo(b)fluoranthene	mg/kg	2.4E+00	1.2E+01 (T)	1.1E+01	2.4E+00	mg/kg	Mean	(b)
	Dibenz(a,h)anthracene	mg/kg	2.8E-01	2.8E+00 (NP)	1.3E+00	2.8E-01	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.3E+00	7.6E+00 (T)	6.0E+00	1.3E+00	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	1.7E+00	4.3E+01 (G)	8.1E+00	1.7E+00	mg/kg	Mean	(b)
	Arsenic	mg/kg	2.7E+01	6.2E+01 (G)	6.4E+01	6.2E+01	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	1.6E+02	1.9E+02 (NP)	1.9E+02 J	1.6E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	5.4E-01	3.5E+00 (G)	2.1E+00 J	5.4E-01	mg/kg	Mean	(b)
	Vanadium	mg/kg	1.7E+01	2.1E+01 (N)	2.3E+01	2.1E+01	mg/kg	95% UCL - N	(d)
HB01/A6									
	Antimony	mg/kg	1.2E+01	5.4E+01 (NP)	5.0E+01 J	1.2E+01	mg/kg	Mean	(b)
	Arsenic	mg/kg	2.8E+02	6.0E+02 (G)	7.2E+02	6.0E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	2.2E+02	4.3E+02 (G)	6.1E+02	4.3E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.2E+03	3.6E+03 (G)	5.2E+03	See Appendix 6L			
	Manganese	mg/kg	1.2E+02	1.7E+02 (G)	3.5E+02	1.7E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.4E+00	9.3E+00 (G)	9.6E+00	9.3E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.4E+01	2.0E+01 (N)	4.2E+01	2.0E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.9E+01	2.3E+01 (N)	3.7E+01 J	2.3E+01	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	7.1E+00	2.0E+01 (G)	4.5E+01	2.0E+01	mg/kg	95% UCL - G	(h)

TABLE 3.5.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current

Medium: Soil

Exposure Medium: Surface Soil

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
HB04									
	Arsenic	mg/kg	2.2E+01	2.6E+01 (N)	3.3E+01 J	2.6E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	5.8E-01	7.1E-01 (NP)	8.1E-01 J	7.1E-01	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	9.6E+00	1.1E+01 (N)	1.3E+01	1.1E+01	mg/kg	95% UCL - N	(d)

(1) Refer to Appendix 6B, Table 3 for sample groupings for each exposure point; only COPCs selected on Table 2.5 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.6.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface Soil and/or Subsurface Soil

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
SO									
Surface Soil	Benzo(a)anthracene	mg/kg	3.7E-01	3.2E+00 (NP)	5.8E+00	3.2E+00	mg/kg	95% UCL - NP	(f)
	Benzo(a)pyrene	mg/kg	4.9E-01	4.4E+00 (NP)	7.9E+00	4.4E+00	mg/kg	95% UCL - NP	(f)
	Benzo(b)fluoranthene	mg/kg	7.0E-01	6.1E+00 (NP)	1.1E+01	6.1E+00	mg/kg	95% UCL - NP	(f)
	Dibenz(a,h)anthracene	mg/kg	8.9E-02	7.2E-01 (NP)	1.3E+00	7.2E-01	mg/kg	95% UCL - NP	(f)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.7E-01	3.3E+00 (NP)	6.0E+00	3.3E+00	mg/kg	95% UCL - NP	(f)
	Phenanthrene	mg/kg	5.4E-01	4.6E+00 (NP)	8.1E+00	4.6E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	4.6E+01	9.2E+01 (T)	1.9E+02 J	9.2E+01	mg/kg	95% UCL - T	(e)
	Manganese	mg/kg	1.4E+02	1.6E+02 (G)	3.8E+02 J	1.6E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	8.7E-01	1.9E+00 (G)	5.8E+00 J	1.9E+00	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	1.9E+01	2.2E+01 (G)	4.1E+01	2.2E+01	mg/kg	95% UCL - G	(h)
SO									
Subsurface Soil	Benzo(a)pyrene	mg/kg	5.5E-02	1.3E-01 (NP)	2.3E-01 J	1.3E-01	mg/kg	95% UCL - NP	(f)
	Antimony	mg/kg	7.2E+00	6.4E+01 (NP)	8.1E+01 J	6.4E+01	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	3.6E+02	1.9E+03 (T)	2.7E+03 J	1.9E+03	mg/kg	95% UCL - T	(e)
	Cadmium	mg/kg	3.9E+00	1.3E+01 (T)	4.1E+01 J	1.3E+01	mg/kg	95% UCL - T	(e)
	Copper	mg/kg	2.8E+02	6.4E+02 (G)	1.6E+03 J	6.4E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.4E+02	6.2E+02 (T)	1.1E+03 J	See Appendix 6L			
	Manganese	mg/kg	1.2E+02	1.6E+02 (G)	3.0E+02 J	1.6E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.6E+00	3.5E+00 (G)	9.2E+00 J	3.5E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.2E+00	3.3E+00 (NP)	6.9E+00 J	3.3E+00	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	2.3E+01	3.5E+01 (T)	6.9E+01 J	3.5E+01	mg/kg	95% UCL - T	(e)
	Zinc	mg/kg	8.2E+02	6.0E+03 (NP)	7.4E+03 J	6.0E+03	mg/kg	95% UCL - NP	(f)
HB01/A6									
Surface Soil	Antimony	mg/kg	1.2E+01	5.4E+01 (NP)	5.0E+01 J	5.0E+01	mg/kg	Max	(g)
	Arsenic	mg/kg	2.8E+02	6.0E+02 (G)	7.2E+02	6.0E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	2.2E+02	4.3E+02 (G)	6.1E+02	4.3E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.2E+03	3.6E+03 (G)	5.2E+03	See Appendix 6L			
	Manganese	mg/kg	1.2E+02	1.7E+02 (G)	3.5E+02	1.7E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.4E+00	9.3E+00 (G)	9.6E+00	9.3E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.4E+01	2.0E+01 (N)	4.2E+01	2.0E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.9E+01	2.3E+01 (N)	3.7E+01 J	2.3E+01	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	7.1E+00	2.0E+01 (G)	4.5E+01	2.0E+01	mg/kg	95% UCL - G	(h)

TABLE 3.6.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Surface Soil and/or Subsurface Soil

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
HB01/A6									
Subsurface Soil	Antimony	mg/kg	9.2E+00	3.1E+01 (NP)	3.1E+01 J	3.1E+01	mg/kg	Max	(g)
	Arsenic	mg/kg	2.4E+02	7.7E+02 (NP)	7.4E+02	7.4E+02	mg/kg	Max	(g)
	Copper	mg/kg	1.9E+02	5.7E+02 (NP)	6.7E+02	5.7E+02	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	8.4E+02	2.7E+03 (NP)	2.8E+03	See Appendix 6L			
	Manganese	mg/kg	9.5E+01	1.1E+02 (G)	1.9E+02	1.1E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.0E+00	1.0E+01 (NP)	1.2E+01	1.0E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	1.2E+01	3.0E+01 (NP)	2.8E+01	2.8E+01	mg/kg	Max	(g)
	Vanadium	mg/kg	1.6E+01	1.9E+01 (N)	3.1E+01 J	1.9E+01	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	5.4E+00	2.3E+01 (NP)	3.0E+01	2.3E+01	mg/kg	95% UCL - NP	(f)
HB02/HB04									
Surface Soil	Arsenic	mg/kg	2.2E+01	2.6E+01 (N)	3.3E+01 J	2.6E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	5.8E-01	7.1E-01 (NP)	8.1E-01 J	7.1E-01	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	9.6E+00	1.1E+01 (N)	1.3E+01	1.1E+01	mg/kg	95% UCL - N	(d)

(1) Refer to Appendix 6B, Table 3 for sample groupings for each exposure point; only COPCs selected on Table 2.6 and detected at each exposure point appear.

(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL

(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)

(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit

EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.6.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Surface Soil and/or Subsurface Soil

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
SO									
Surface Soil	Benzo(a)anthracene	mg/kg	3.7E-01	3.2E+00 (NP)	5.8E+00	3.2E+00	mg/kg	95% UCL - NP	(f)
	Benzo(a)pyrene	mg/kg	4.9E-01	4.4E+00 (NP)	7.9E+00	4.4E+00	mg/kg	95% UCL - NP	(f)
	Benzo(b)fluoranthene	mg/kg	7.0E-01	6.1E+00 (NP)	1.1E+01	6.1E+00	mg/kg	95% UCL - NP	(f)
	Dibenz(a,h)anthracene	mg/kg	8.9E-02	7.2E-01 (NP)	1.3E+00	7.2E-01	mg/kg	95% UCL - NP	(f)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.7E-01	3.3E+00 (NP)	6.0E+00	3.3E+00	mg/kg	95% UCL - NP	(f)
	Phenanthrene	mg/kg	5.4E-01	4.6E+00 (NP)	8.1E+00	4.6E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	4.6E+01	9.2E+01 (T)	1.9E+02 J	9.2E+01	mg/kg	95% UCL - T	(e)
	Manganese	mg/kg	1.4E+02	1.6E+02 (G)	3.8E+02 J	1.6E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	8.7E-01	1.9E+00 (G)	5.8E+00 J	1.9E+00	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	1.9E+01	2.2E+01 (G)	4.1E+01	2.2E+01	mg/kg	95% UCL - G	(h)
SO									
Subsurface Soil	Benzo(a)pyrene	mg/kg	5.5E-02	1.3E-01 (NP)	2.3E-01 J	1.3E-01	mg/kg	95% UCL - NP	(f)
	Antimony	mg/kg	7.2E+00	6.4E+01 (NP)	8.1E+01 J	6.4E+01	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	3.6E+02	1.9E+03 (T)	2.7E+03 J	1.9E+03	mg/kg	95% UCL - T	(e)
	Cadmium	mg/kg	3.9E+00	1.3E+01 (T)	4.1E+01 J	1.3E+01	mg/kg	95% UCL - T	(e)
	Copper	mg/kg	2.8E+02	6.4E+02 (G)	1.6E+03 J	6.4E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.4E+02	6.2E+02 (T)	1.1E+03 J	See Appendix 6L			
	Manganese	mg/kg	1.2E+02	1.6E+02 (G)	3.0E+02 J	1.6E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.6E+00	3.5E+00 (G)	9.2E+00 J	3.5E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.2E+00	3.3E+00 (NP)	6.9E+00 J	3.3E+00	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	2.3E+01	3.5E+01 (T)	6.9E+01 J	3.5E+01	mg/kg	95% UCL - T	(e)
	Zinc	mg/kg	8.2E+02	6.0E+03 (NP)	7.4E+03 J	6.0E+03	mg/kg	95% UCL - NP	(f)
HB01/A6									
Surface Soil	Antimony	mg/kg	1.2E+01	5.4E+01 (NP)	5.0E+01 J	1.2E+01	mg/kg	Mean	(b)
	Arsenic	mg/kg	2.8E+02	6.0E+02 (G)	7.2E+02	6.0E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	2.2E+02	4.3E+02 (G)	6.1E+02	4.3E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.2E+03	3.6E+03 (G)	5.2E+03	See Appendix 6L			
	Manganese	mg/kg	1.2E+02	1.7E+02 (G)	3.5E+02	1.7E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.4E+00	9.3E+00 (G)	9.6E+00	9.3E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.4E+01	2.0E+01 (N)	4.2E+01	2.0E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.9E+01	2.3E+01 (N)	3.7E+01 J	2.3E+01	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	7.1E+00	2.0E+01 (G)	4.5E+01	2.0E+01	mg/kg	95% UCL - G	(h)

TABLE 3.6.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Surface Soil and/or Subsurface Soil

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
HB01/A6									
Subsurface Soil	Antimony	mg/kg	9.2E+00	3.1E+01 (NP)	3.1E+01 J	9.2E+00	mg/kg	Mean	(b)
	Arsenic	mg/kg	2.4E+02	7.7E+02 (NP)	7.4E+02	2.4E+02	mg/kg	Mean	(b)
	Copper	mg/kg	1.9E+02	5.7E+02 (NP)	6.7E+02	5.7E+02	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	8.4E+02	2.7E+03 (NP)	2.8E+03	See Appendix 6L			
	Manganese	mg/kg	9.5E+01	1.1E+02 (G)	1.9E+02	1.1E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.0E+00	1.0E+01 (NP)	1.2E+01	1.0E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	1.2E+01	3.0E+01 (NP)	2.8E+01	1.2E+01	mg/kg	Mean	(b)
	Vanadium	mg/kg	1.6E+01	1.9E+01 (N)	3.1E+01 J	1.9E+01	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	5.4E+00	2.3E+01 (NP)	3.0E+01	2.3E+01	mg/kg	95% UCL - NP	(f)
HB02/HB04									
Surface Soil	Arsenic	mg/kg	2.2E+01	2.6E+01 (N)	3.3E+01 J	2.6E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	5.8E-01	7.1E-01 (NP)	8.1E-01 J	7.1E-01	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	9.6E+00	1.1E+01 (N)	1.3E+01	1.1E+01	mg/kg	95% UCL - N	(d)

(1) Refer to Appendix 6B, Table 3 for sample groupings for each exposure point; only COPCs selected on Table 2.6 and detected at each exposure point appear.

(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL

(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)

(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit

EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.7.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future

Medium: Surface Water/Sediment

Exposure Medium: Fish Fillet Tissue

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
HBHA									
	Arsenic	mg/kg	1.6E-01	2.1E-01 (G)	5.1E-01	2.1E-01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	5.1E-01	5.3E-01 (NP)	8.4E-01 J	5.3E-01	mg/kg	95% UCL - NP	(f)
	Mercury	mg/kg	1.3E-01	2.0E-01 (NP)	3.6E-01	2.0E-01	mg/kg	95% UCL - NP	(f)
	Selenium	mg/kg	4.2E-01	4.8E-01 (NP)	8.3E-01	4.8E-01	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	2.5E-01	2.5E-01 (NP)	1.6E-01 J	1.6E-01	mg/kg	Max	(g)

(1) Refer to Appendix 6B, Table 4 for samples included in analysis; only COPCs selected on Table 2.7 appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

(5) Results are reported on a wet-weight basis.
J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.7.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future

Medium: Surface Water/Sediment

Exposure Medium: Fish Fillet Tissue

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
HBHA									
	Arsenic	mg/kg	1.6E-01	2.1E-01 (G)	5.1E-01	2.1E-01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	5.1E-01	5.3E-01 (NP)	8.4E-01 J	5.3E-01	mg/kg	95% UCL - NP	(f)
	Mercury	mg/kg	1.3E-01	2.0E-01 (NP)	3.6E-01	2.0E-01	mg/kg	95% UCL - NP	(f)
	Selenium	mg/kg	4.2E-01	4.8E-01 (NP)	8.3E-01	4.8E-01	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	2.5E-01	2.5E-01 (NP)	1.6E-01 J	1.6E-01	mg/kg	Max	(c)

(1) Refer to Appendix 6B, Table 4 for samples included in analysis; only COPCs selected on Table 2.7 appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

(5) Results are reported on a wet-weight basis.
J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.8.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
Study Area									
	1,1-Dichloroethene	ug/L	6.3E-01	9.5E-01 (NP)	8.4E+00	9.5E-01	ug/L	95% UCL - NP	(f)
	1,2-Dichloroethane	ug/L	7.7E-01	2.1E+00 (NP)	4.8E+01	2.1E+00	ug/L	95% UCL - NP	(f)
	1,4-Dichlorobenzene	ug/L	5.7E-01	8.5E-01 (NP)	6.0E+00 J	8.5E-01	ug/L	95% UCL - NP	(f)
	Acetone	ug/L	1.5E+02	8.2E+02 (NP)	1.6E+04	8.2E+02	ug/L	95% UCL - NP	(f)
	Benzene	ug/L	5.8E+02	2.4E+03 (NP)	6.9E+04	2.4E+03	ug/L	95% UCL - NP	(f)
	Chlorobenzene	ug/L	1.4E+00	2.8E+00 (NP)	3.5E+01	2.8E+00	ug/L	95% UCL - NP	(f)
	Chloroethane	ug/L	1.0E+00	2.1E+00 (NP)	3.7E+01 J	2.1E+00	ug/L	95% UCL - NP	(f)
	Chloroform	ug/L	5.2E-01	7.4E-01 (NP)	4.0E+00 J	7.4E-01	ug/L	95% UCL - NP	(f)
	cis-1,2-Dichloroethene	ug/L	1.1E+00	2.6E+00 (NP)	5.0E+01	2.6E+00	ug/L	95% UCL - NP	(f)
	Methyl tert-Butyl Ether	ug/L	5.8E+01	4.1E+02 (NP)	4.0E+03 J	4.1E+02	ug/L	95% UCL - NP	(f)
	Tetrachloroethene	ug/L	4.9E-01	6.7E-01 (NP)	2.0E+00 J	6.7E-01	ug/L	95% UCL - NP	(f)
	Toluene	ug/L	7.0E+01	2.4E+02 (NP)	3.6E+03	2.4E+02	ug/L	95% UCL - NP	(f)
	Trichloroethene	ug/L	3.2E+00	9.5E+00 (NP)	1.1E+02 J	9.5E+00	ug/L	95% UCL - NP	(f)
	Vinyl Chloride	ug/L	4.8E-01	6.5E-01 (NP)	1.3E+00 J	6.5E-01	ug/L	95% UCL - NP	(f)
	Xylene, total	ug/L	2.9E+00	9.0E+00 (NP)	1.2E+02	9.0E+00	ug/L	95% UCL - NP	(f)
	2,4-Dichlorophenol	ug/L	1.2E+00	3.5E+00 (NP)	3.5E+01	3.5E+00	ug/L	95% UCL - NP	(f)
	2-Methylphenol	ug/L	3.9E+00	1.6E+01 (NP)	2.0E+02	1.6E+01	ug/L	95% UCL - NP	(f)
	bis(2-Ethylhexyl)phthalate	ug/L	1.5E+00	1.9E+00 (NP)	1.5E+01	1.9E+00	ug/L	95% UCL - NP	(f)
	Naphthalene	ug/L	6.7E+00	2.8E+01 (NP)	2.2E+02	2.8E+01	ug/L	95% UCL - NP	(f)
	Pentachlorophenol	ug/L	1.7E+00	1.9E+00 (NP)	1.0E+01 J	1.9E+00	ug/L	95% UCL - NP	(f)
	Antimony	ug/L	2.7E+00	4.3E+00 (NP)	5.0E+01 J	4.3E+00	ug/L	95% UCL - NP	(f)
	Arsenic	ug/L	2.6E+02	1.1E+03 (NP)	2.4E+04	1.1E+03	ug/L	95% UCL - NP	(f)
	Barium	ug/L	7.7E+01	8.2E+01 (T)	1.5E+03	8.2E+01	ug/L	95% UCL - T	(e)
	Beryllium	ug/L	3.6E-01	7.0E-01 (NP)	1.1E+01	7.0E-01	ug/L	95% UCL - NP	(f)
	Cadmium	ug/L	1.0E+00	2.4E+00 (NP)	2.0E+01	2.4E+00	ug/L	95% UCL - NP	(f)
	Chromium	ug/L	1.8E+01	3.5E+01 (NP)	5.4E+02 J	3.5E+01	ug/L	95% UCL - NP	(f)
	Lead	ug/L	2.9E+01	8.1E+01 (NP)	2.6E+03	See Appendix 6L			
	Manganese	ug/L	1.2E+03	1.5E+03 (G)	8.8E+03	1.5E+03	ug/L	95% UCL - G	(h)
	Mercury	ug/L	1.8E-01	4.9E-01 (NP)	1.6E+01	4.9E-01	ug/L	95% UCL - NP	(f)
	Nickel	ug/L	7.8E+00	1.7E+01 (NP)	1.1E+02	1.7E+01	ug/L	95% UCL - NP	(f)
	Selenium	ug/L	2.7E+00	4.2E+00 (NP)	4.1E+01 J	4.2E+00	ug/L	95% UCL - NP	(f)
	Thallium	ug/L	3.6E+00	4.8E+00 (NP)	1.4E+01 J	4.8E+00	ug/L	95% UCL - NP	(f)
	Vanadium	ug/L	7.7E+00	2.0E+01 (NP)	2.2E+02	2.0E+01	ug/L	95% UCL - NP	(f)
	Zinc	ug/L	2.3E+02	1.0E+03 (NP)	8.6E+03	1.0E+03	ug/L	95% UCL - NP	(f)

TABLE 3.8.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Groundwater

Exposure Medium: Groundwater

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
Class A									
	Arsenic	ug/L	5.4E+00	3.8E+01 (NP)	6.9E+01	3.8E+01	ug/L	95% UCL - NP	(f)
	Cadmium	ug/L	6.2E-01	2.4E+00 (NP)	2.6E+00	2.4E+00	ug/L	95% UCL - NP	(f)
	Chromium	ug/L	2.1E+00	1.1E+01 (NP)	2.1E+01 J	1.1E+01	ug/L	95% UCL - NP	(f)
	Manganese	ug/L	1.0E+03	2.3E+03 (G)	8.6E+03	2.3E+03	ug/L	95% UCL - G	(h)
	Thallium	ug/L	1.9E+00	2.5E+00 (NP)	7.6E+00 J	2.5E+00	ug/L	95% UCL - NP	(f)

(1) Refer to Appendix 6B, Table 5 for samples included for each exposure point; only COPCs selected on Table 2.8 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.8.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
Study Area									
	1,1-Dichloroethene	ug/L	6.3E-01	9.5E-01 (NP)	8.4E+00	9.5E-01	ug/L	95% UCL - NP	(f)
	1,2-Dichloroethane	ug/L	7.7E-01	2.1E+00 (NP)	4.8E+01	2.1E+00	ug/L	95% UCL - NP	(f)
	1,4-Dichlorobenzene	ug/L	5.7E-01	8.5E-01 (NP)	6.0E+00 J	8.5E-01	ug/L	95% UCL - NP	(f)
	Acetone	ug/L	1.5E+02	8.2E+02 (NP)	1.6E+04	8.2E+02	ug/L	95% UCL - NP	(f)
	Benzene	ug/L	5.8E+02	2.4E+03 (NP)	6.9E+04	2.4E+03	ug/L	95% UCL - NP	(f)
	Chlorobenzene	ug/L	1.4E+00	2.8E+00 (NP)	3.5E+01	2.8E+00	ug/L	95% UCL - NP	(f)
	Chloroethane	ug/L	1.0E+00	2.1E+00 (NP)	3.7E+01 J	2.1E+00	ug/L	95% UCL - NP	(f)
	Chloroform	ug/L	5.2E-01	7.4E-01 (NP)	4.0E+00 J	7.4E-01	ug/L	95% UCL - NP	(f)
	cis-1,2-Dichloroethene	ug/L	1.1E+00	2.6E+00 (NP)	5.0E+01	2.6E+00	ug/L	95% UCL - NP	(f)
	Methyl tert-Butyl Ether	ug/L	5.8E+01	4.1E+02 (NP)	4.0E+03 J	4.1E+02	ug/L	95% UCL - NP	(f)
	Tetrachloroethene	ug/L	4.9E-01	6.7E-01 (NP)	2.0E+00 J	6.7E-01	ug/L	95% UCL - NP	(f)
	Toluene	ug/L	7.0E+01	2.4E+02 (NP)	3.6E+03	2.4E+02	ug/L	95% UCL - NP	(f)
	Trichloroethene	ug/L	3.2E+00	9.5E+00 (NP)	1.1E+02 J	9.5E+00	ug/L	95% UCL - NP	(f)
	Vinyl Chloride	ug/L	4.8E-01	6.5E-01 (NP)	1.3E+00 J	6.5E-01	ug/L	95% UCL - NP	(f)
	Xylene, total	ug/L	2.9E+00	9.0E+00 (NP)	1.2E+02	9.0E+00	ug/L	95% UCL - NP	(f)
	2,4-Dichlorophenol	ug/L	1.2E+00	3.5E+00 (NP)	3.5E+01	3.5E+00	ug/L	95% UCL - NP	(f)
	2-Methylphenol	ug/L	3.9E+00	1.6E+01 (NP)	2.0E+02	1.6E+01	ug/L	95% UCL - NP	(f)
	bis(2-Ethylhexyl)phthalate	ug/L	1.5E+00	1.9E+00 (NP)	1.5E+01	1.9E+00	ug/L	95% UCL - NP	(f)
	Naphthalene	ug/L	6.7E+00	2.8E+01 (NP)	2.2E+02	2.8E+01	ug/L	95% UCL - NP	(f)
	Pentachlorophenol	ug/L	1.7E+00	1.9E+00 (NP)	1.0E+01 J	1.9E+00	ug/L	95% UCL - NP	(f)
	Antimony	ug/L	2.7E+00	4.3E+00 (NP)	5.0E+01 J	4.3E+00	ug/L	95% UCL - NP	(f)
	Arsenic	ug/L	2.6E+02	1.1E+03 (NP)	2.4E+04	1.1E+03	ug/L	95% UCL - NP	(f)
	Barium	ug/L	7.7E+01	8.2E+01 (T)	1.5E+03	8.2E+01	ug/L	95% UCL - T	(e)
	Beryllium	ug/L	3.6E-01	7.0E-01 (NP)	1.1E+01	7.0E-01	ug/L	95% UCL - NP	(f)
	Cadmium	ug/L	1.0E+00	2.4E+00 (NP)	2.0E+01	2.4E+00	ug/L	95% UCL - NP	(f)
	Chromium	ug/L	1.8E+01	3.5E+01 (NP)	5.4E+02 J	3.5E+01	ug/L	95% UCL - NP	(f)
	Lead	ug/L	2.9E+01	8.1E+01 (NP)	2.6E+03	See Appendix 6L			
	Manganese	ug/L	1.2E+03	1.5E+03 (G)	8.8E+03	1.5E+03	ug/L	95% UCL - G	(h)
	Mercury	ug/L	1.8E-01	4.9E-01 (NP)	1.6E+01	4.9E-01	ug/L	95% UCL - NP	(f)
	Nickel	ug/L	7.8E+00	1.7E+01 (NP)	1.1E+02	1.7E+01	ug/L	95% UCL - NP	(f)
	Selenium	ug/L	2.7E+00	4.2E+00 (NP)	4.1E+01 J	4.2E+00	ug/L	95% UCL - NP	(f)
	Thallium	ug/L	3.6E+00	4.8E+00 (NP)	1.4E+01 J	4.8E+00	ug/L	95% UCL - NP	(f)
	Vanadium	ug/L	7.7E+00	2.0E+01 (NP)	2.2E+02	2.0E+01	ug/L	95% UCL - NP	(f)
	Zinc	ug/L	2.3E+02	1.0E+03 (NP)	8.6E+03	1.0E+03	ug/L	95% UCL - NP	(f)

TABLE 3.8.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
Class A									
	Arsenic	ug/L	5.4E+00	3.8E+01 (NP)	6.9E+01	3.8E+01	ug/L	95% UCL - NP	(f)
	Cadmium	ug/L	6.2E-01	2.4E+00 (NP)	2.6E+00	2.4E+00	ug/L	95% UCL - NP	(f)
	Chromium	ug/L	2.1E+00	1.1E+01 (NP)	2.1E+01 J	1.1E+01	ug/L	95% UCL - NP	(f)
	Manganese	ug/L	1.0E+03	2.3E+03 (G)	8.6E+03	2.3E+03	ug/L	95% UCL - G	(h)
	Thallium	ug/L	1.9E+00	2.5E+00 (NP)	7.6E+00 J	2.5E+00	ug/L	95% UCL - NP	(f)

(1) Refer to Appendix 6B, Table 5 for samples included for each exposure point; only COPCs selected on Table 2.8 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.9.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Shallow Groundwater

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration Value	Units	Statistic (3)	Rationale (4)
Study Area									
	1,4-Dichlorobenzene	ug/L	5.0E-01	9.7E-01 (NP)	2.0E+00 J	9.7E-01	ug/L	95% UCL - NP	(f)
	Benzene	ug/L	1.0E+03	6.3E+03 (NP)	6.9E+04	6.3E+03	ug/L	95% UCL - NP	(f)
	Chlorobenzene	ug/L	9.0E-01	2.6E+00 (NP)	1.9E+01	2.6E+00	ug/L	95% UCL - NP	(f)
	Chloroform	ug/L	5.7E-01	1.1E+00 (NP)	4.0E+00 J	1.1E+00	ug/L	95% UCL - NP	(f)
	Methyl tert-Butyl Ether	ug/L	1.7E+02	1.9E+03 (NP)	4.0E+03 J	1.9E+03	ug/L	95% UCL - NP	(f)
	Tetrachloroethene	ug/L	4.8E-01	9.0E-01 (NP)	3.2E-01 J	3.2E-01	ug/L	Max	(g)
	Toluene	ug/L	8.6E+00	2.6E+01 (NP)	2.3E+02	2.6E+01	ug/L	95% UCL - NP	(f)
	Trichloroethene	ug/L	5.5E-01	1.0E+00 (NP)	2.9E+00	1.0E+00	ug/L	95% UCL - NP	(f)
	Vinyl Chloride	ug/L	5.0E-01	9.2E-01 (NP)	1.3E+00 J	9.2E-01	ug/L	95% UCL - NP	(f)
	bis(2-Ethylhexyl)phthalate	ug/L	1.5E+00	3.5E+00 (NP)	1.0E+01	3.5E+00	ug/L	95% UCL - NP	(f)
	Naphthalene	ug/L	1.1E+00	2.8E+00 (NP)	7.0E+00 J	2.8E+00	ug/L	95% UCL - NP	(f)
	Antimony	ug/L	3.3E+00	8.1E+00 (NP)	5.0E+01 J	8.1E+00	ug/L	95% UCL - NP	(f)
	Arsenic	ug/L	5.6E+02	3.4E+03 (NP)	2.4E+04	3.4E+03	ug/L	95% UCL - NP	(f)
	Barium	ug/L	1.2E+02	2.7E+02 (NP)	1.5E+03	2.7E+02	ug/L	95% UCL - NP	(f)
	Cadmium	ug/L	1.4E+00	6.9E+00 (NP)	2.0E+01	6.9E+00	ug/L	95% UCL - NP	(f)
	Chromium	ug/L	1.6E+01	5.3E+01 (NP)	5.4E+02 J	5.3E+01	ug/L	95% UCL - NP	(f)
	Lead	ug/L	3.4E+01	9.7E+01 (NP)	8.0E+02	See Appendix 6L			
	Manganese	ug/L	1.2E+03	1.6E+03 (G)	6.8E+03	1.6E+03	ug/L	95% UCL - G	(h)
	Mercury	ug/L	1.6E-01	4.5E-01 (NP)	4.2E+00	4.5E-01	ug/L	95% UCL - NP	(f)
	Selenium	ug/L	3.3E+00	7.4E+00 (NP)	4.1E+01 J	7.4E+00	ug/L	95% UCL - NP	(f)
	Thallium	ug/L	3.0E+00	4.0E+00 (NP)	3.3E+00 J	3.3E+00	ug/L	Max	(g)
	Vanadium	ug/L	2.9E+00	9.9E+00 (NP)	2.1E+01	9.9E+00	ug/L	95% UCL - NP	(f)
	Zinc	ug/L	2.6E+02	1.4E+03 (NP)	4.1E+03	1.4E+03	ug/L	95% UCL - NP	(f)

TABLE 3.9.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Groundwater

Exposure Medium: Shallow Groundwater

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
Class A									
	Arsenic	ug/L	9.2E+00	7.0E+01 (NP)	6.9E+01	6.9E+01	ug/L	Max	(g)
	Chromium	ug/L	3.2E+00	7.0E+00 (G)	2.1E+01 J	7.0E+00	ug/L	95% UCL - G	(h)
	Manganese	ug/L	1.0E+03	2.4E+03 (G)	3.5E+03	2.4E+03	ug/L	95% UCL - G	(h)

(1) Refer to Appendix 6B, Table 5 for samples included for each exposure point; only COPCs selected on Table 2.9 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.9.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Groundwater

Exposure Medium: Shallow Groundwater

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
Study Area									
	1,4-Dichlorobenzene	ug/L	5.0E-01	9.7E-01 (NP)	2.0E+00 J	9.7E-01	ug/L	95% UCL - NP	(f)
	Benzene	ug/L	1.0E+03	6.3E+03 (NP)	6.9E+04	6.3E+03	ug/L	95% UCL - NP	(f)
	Chlorobenzene	ug/L	9.0E-01	2.6E+00 (NP)	1.9E+01	2.6E+00	ug/L	95% UCL - NP	(f)
	Chloroform	ug/L	5.7E-01	1.1E+00 (NP)	4.0E+00 J	1.1E+00	ug/L	95% UCL - NP	(f)
	Methyl tert-Butyl Ether	ug/L	1.7E+02	1.9E+03 (NP)	4.0E+03 J	1.9E+03	ug/L	95% UCL - NP	(f)
	Tetrachloroethene	ug/L	4.8E-01	9.0E-01 (NP)	3.2E-01 J	3.2E-01	ug/L	Max	(c)
	Toluene	ug/L	8.6E+00	2.6E+01 (NP)	2.3E+02	2.6E+01	ug/L	95% UCL - NP	(f)
	Trichloroethene	ug/L	5.5E-01	1.0E+00 (NP)	2.9E+00	1.0E+00	ug/L	95% UCL - NP	(f)
	Vinyl Chloride	ug/L	5.0E-01	9.2E-01 (NP)	1.3E+00 J	9.2E-01	ug/L	95% UCL - NP	(f)
	bis(2-Ethylhexyl)phthalate	ug/L	1.5E+00	3.5E+00 (NP)	1.0E+01	3.5E+00	ug/L	95% UCL - NP	(f)
	Naphthalene	ug/L	1.1E+00	2.8E+00 (NP)	7.0E+00 J	2.8E+00	ug/L	95% UCL - NP	(f)
	Antimony	ug/L	3.3E+00	8.1E+00 (NP)	5.0E+01 J	8.1E+00	ug/L	95% UCL - NP	(f)
	Arsenic	ug/L	5.6E+02	3.4E+03 (NP)	2.4E+04	3.4E+03	ug/L	95% UCL - NP	(f)
	Barium	ug/L	1.2E+02	2.7E+02 (NP)	1.5E+03	2.7E+02	ug/L	95% UCL - NP	(f)
	Cadmium	ug/L	1.4E+00	6.9E+00 (NP)	2.0E+01	6.9E+00	ug/L	95% UCL - NP	(f)
	Chromium	ug/L	1.6E+01	5.3E+01 (NP)	5.4E+02 J	5.3E+01	ug/L	95% UCL - NP	(f)
	Lead	ug/L	3.4E+01	9.7E+01 (NP)	8.0E+02	See Appendix 6L			
	Manganese	ug/L	1.2E+03	1.6E+03 (G)	6.8E+03	1.6E+03	ug/L	95% UCL - G	(h)
	Mercury	ug/L	1.6E-01	4.5E-01 (NP)	4.2E+00	4.5E-01	ug/L	95% UCL - NP	(f)
	Selenium	ug/L	3.3E+00	7.4E+00 (NP)	4.1E+01 J	7.4E+00	ug/L	95% UCL - NP	(f)
	Thallium	ug/L	3.0E+00	4.0E+00 (NP)	3.3E+00 J	3.0E+00	ug/L	Mean	(b)
	Vanadium	ug/L	2.9E+00	9.9E+00 (NP)	2.1E+01	9.9E+00	ug/L	95% UCL - NP	(f)
	Zinc	ug/L	2.6E+02	1.4E+03 (NP)	4.1E+03	1.4E+03	ug/L	95% UCL - NP	(f)

TABLE 3.9.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Groundwater

Exposure Medium: Shallow Groundwater

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution) (2)	Maximum Concentration (Qualifier)	Exposure Point Concentration			
						Value	Units	Statistic (3)	Rationale (4)
Class A									
	Arsenic	ug/L	9.2E+00	7.0E+01 (NP)	6.9E+01	9.2E+00	ug/L	Mean	(b)
	Chromium	ug/L	3.2E+00	7.0E+00 (G)	2.1E+01 J	7.0E+00	ug/L	95% UCL - G	(h)
	Manganese	ug/L	1.0E+03	2.4E+03 (G)	3.5E+03	2.4E+03	ug/L	95% UCL - G	(h)

(1) Refer to Appendix 6B, Table 5 for samples included for each exposure point; only COPCs selected on Table 2.9 and detected at each exposure point appear.
(2) T - Transformed; N - Normal; NP - Non-parametric; G - Gamma; <4 - sample size too small to calculate 95% UCL
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); 95% UCL of Gamma Distributed Data (95% UCL - G); Arithmetic Mean (Mean)
(4) Rationale:

(a) Due to small sample size (<4), the maximum detected concentration is used.
(b) When the maximum detected concentration is selected as the RME EPC, the arithmetic mean concentration is selected as the CT EPC.
(c) If the arithmetic mean concentration equals or exceeds the maximum detected concentration, the maximum detected concentration is used as the CT EPC.
(d) Shapiro-Wilk W Test or Lilliefors Test indicates data are normally distributed.
(e) Shapiro-Wilk W Test or Lilliefors Test indicates data are log-normally distributed.
(f) Shapiro-Wilk W Test or Lilliefors Test indicates data are neither normally nor log-normally distributed.
(g) 95% UCL exceeds maximum detected concentration. Therefore, maximum concentration used for EPC
(h) A-D Test and/or K-S Test indicates data are gamma distributed.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.10.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater used as Process Water
Exposure Medium: Indoor Air

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration (Qualifier)	Exposure Point Concentration (2)			
						Value	Units	Statistic (3)	Rationale (4)
Study Area									
	1,1-Dichloroethene	N/A	N/A	N/A	N/A	2.6E+00	ug/m^3	95% UCL - NP	N/A
	1,2,4-Trichlorobenzene	N/A	N/A	N/A	N/A	6.9E-01	ug/m^3	Max	N/A
	1,2-Dichlorobenzene	N/A	N/A	N/A	N/A	3.2E+00	ug/m^3	95% UCL - NP	N/A
	1,2-Dichloroethane	N/A	N/A	N/A	N/A	5.6E+00	ug/m^3	95% UCL - NP	N/A
	1,4-Dichlorobenzene	N/A	N/A	N/A	N/A	2.3E+00	ug/m^3	95% UCL - NP	N/A
	2-Butanone	N/A	N/A	N/A	N/A	5.5E+01	ug/m^3	95% UCL - NP	N/A
	4-Methyl-2-Pentanone	N/A	N/A	N/A	N/A	2.5E+01	ug/m^3	95% UCL - NP	N/A
	Acetone	N/A	N/A	N/A	N/A	2.0E+03	ug/m^3	95% UCL - NP	N/A
	Benzene	N/A	N/A	N/A	N/A	6.4E+03	ug/m^3	95% UCL - NP	N/A
	Chlorobenzene	N/A	N/A	N/A	N/A	7.5E+00	ug/m^3	95% UCL - NP	N/A
	Chloroethane	N/A	N/A	N/A	N/A	5.6E+00	ug/m^3	95% UCL - NP	N/A
	Chloroform	N/A	N/A	N/A	N/A	2.0E+00	ug/m^3	95% UCL - NP	N/A
	cis-1,2-Dichloroethene	N/A	N/A	N/A	N/A	6.9E+00	ug/m^3	95% UCL - NP	N/A
	Methyl tert-Butyl Ether	N/A	N/A	N/A	N/A	1.1E+03	ug/m^3	95% UCL - NP	N/A
	Tetrachloroethene	N/A	N/A	N/A	N/A	1.8E+00	ug/m^3	95% UCL - NP	N/A
	Toluene	N/A	N/A	N/A	N/A	6.4E+02	ug/m^3	95% UCL - NP	N/A
	Trichloroethene	N/A	N/A	N/A	N/A	2.5E+01	ug/m^3	95% UCL - NP	N/A
	Vinyl Chloride	N/A	N/A	N/A	N/A	1.7E+00	ug/m^3	95% UCL - NP	N/A
	Xylene, total	N/A	N/A	N/A	N/A	2.4E+01	ug/m^3	95% UCL - NP	N/A
	2-Chloronaphthalene	N/A	N/A	N/A	N/A	6.1E+00	ug/m^3	95% UCL - NP	N/A
	Naphthalene	N/A	N/A	N/A	N/A	7.4E+01	ug/m^3	95% UCL - NP	N/A
Class A									
	Methyl tert-Butyl Ether	N/A	N/A	N/A	N/A	1.9E+00	ug/m^3	95% UCL - NP	N/A

(1) Refer to Appendix 6B, Table 5 for sample groupings for each exposure point; only COPCs selected on Table 2.10 appear.
(2) Refer to Appendix 6D for air modeling results.
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); Arithmetic Mean (Mean); These statistics apply to the groundwater data set prior to air modeling.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.10.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater used as Process Water
Exposure Medium: Indoor Air

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration (Qualifier)	Exposure Point Concentration (2)			
						Value	Units	Statistic (3)	Rationale (4)
Study Area									
	1,1-Dichloroethene	N/A	N/A	N/A	N/A	2.6E+00	ug/m^3	95% UCL - NP	N/A
	1,2,4-Trichlorobenzene	N/A	N/A	N/A	N/A	6.9E-01	ug/m^3	Max	N/A
	1,2-Dichlorobenzene	N/A	N/A	N/A	N/A	3.2E+00	ug/m^3	95% UCL - NP	N/A
	1,2-Dichloroethane	N/A	N/A	N/A	N/A	5.6E+00	ug/m^3	95% UCL - NP	N/A
	1,4-Dichlorobenzene	N/A	N/A	N/A	N/A	2.3E+00	ug/m^3	95% UCL - NP	N/A
	2-Butanone	N/A	N/A	N/A	N/A	5.5E+01	ug/m^3	95% UCL - NP	N/A
	4-Methyl-2-Pentanone	N/A	N/A	N/A	N/A	2.5E+01	ug/m^3	95% UCL - NP	N/A
	Acetone	N/A	N/A	N/A	N/A	2.0E+03	ug/m^3	95% UCL - NP	N/A
	Benzene	N/A	N/A	N/A	N/A	6.4E+03	ug/m^3	95% UCL - NP	N/A
	Chlorobenzene	N/A	N/A	N/A	N/A	7.5E+00	ug/m^3	95% UCL - NP	N/A
	Chloroethane	N/A	N/A	N/A	N/A	5.6E+00	ug/m^3	95% UCL - NP	N/A
	Chloroform	N/A	N/A	N/A	N/A	2.0E+00	ug/m^3	95% UCL - NP	N/A
	cis-1,2-Dichloroethene	N/A	N/A	N/A	N/A	6.9E+00	ug/m^3	95% UCL - NP	N/A
	Methyl tert-Butyl Ether	N/A	N/A	N/A	N/A	1.1E+03	ug/m^3	95% UCL - NP	N/A
	Tetrachloroethene	N/A	N/A	N/A	N/A	1.8E+00	ug/m^3	95% UCL - NP	N/A
	Toluene	N/A	N/A	N/A	N/A	6.4E+02	ug/m^3	95% UCL - NP	N/A
	Trichloroethene	N/A	N/A	N/A	N/A	2.5E+01	ug/m^3	95% UCL - NP	N/A
	Vinyl Chloride	N/A	N/A	N/A	N/A	1.7E+00	ug/m^3	95% UCL - NP	N/A
	Xylene, total	N/A	N/A	N/A	N/A	2.4E+01	ug/m^3	95% UCL - NP	N/A
	2-Chloronaphthalene	N/A	N/A	N/A	N/A	6.1E+00	ug/m^3	95% UCL - NP	N/A
	Naphthalene	N/A	N/A	N/A	N/A	7.4E+01	ug/m^3	95% UCL - NP	N/A
Class A									
	Methyl tert-Butyl Ether	N/A	N/A	N/A	N/A	1.9E+00	ug/m^3	95% UCL - NP	N/A

(1) Refer to Appendix 6B, Table 5 for sample groupings for each exposure point; only COPCs selected on Table 2.10 appear.
(2) Refer to Appendix 6D for air modeling results.
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); Arithmetic Mean (Mean); These statistics apply to the groundwater data set prior to air modeling.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.11.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater used in a Car Wash
Exposure Medium: Indoor Air

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration (Qualifier)	Exposure Point Concentration (2)			
						Value	Units	Statistic (3)	Rationale
Study Area									
	1,1-Dichloroethene	N/A	N/A	N/A	N/A	3.5E+00	ug/m^3	95% UCL - NP	N/A
	1,2,4-Trichlorobenzene	N/A	N/A	N/A	N/A	6.4E-01	ug/m^3	Max	N/A
	1,2-Dichlorobenzene	N/A	N/A	N/A	N/A	3.3E+00	ug/m^3	95% UCL - NP	N/A
	1,2-Dichloroethane	N/A	N/A	N/A	N/A	6.8E+00	ug/m^3	95% UCL - NP	N/A
	1,4-Dichlorobenzene	N/A	N/A	N/A	N/A	2.5E+00	ug/m^3	95% UCL - NP	N/A
	4-Methyl-2-Pentanone	N/A	N/A	N/A	N/A	2.5E+01	ug/m^3	95% UCL - NP	N/A
	Acetone	N/A	N/A	N/A	N/A	6.7E+02	ug/m^3	95% UCL - NP	N/A
	Benzene	N/A	N/A	N/A	N/A	9.3E+03	ug/m^3	95% UCL - NP	N/A
	Chlorobenzene	N/A	N/A	N/A	N/A	9.3E+00	ug/m^3	95% UCL - NP	N/A
	Chloroethane	N/A	N/A	N/A	N/A	8.8E+00	ug/m^3	95% UCL - NP	N/A
	Chloroform	N/A	N/A	N/A	N/A	2.4E+00	ug/m^3	95% UCL - NP	N/A
	cis-1,2-Dichloroethene	N/A	N/A	N/A	N/A	9.4E+00	ug/m^3	95% UCL - NP	N/A
	Methyl tert-Butyl Ether	N/A	N/A	N/A	N/A	1.2E+03	ug/m^3	95% UCL - NP	N/A
	Tetrachloroethene	N/A	N/A	N/A	N/A	2.0E+00	ug/m^3	95% UCL - NP	N/A
	Toluene	N/A	N/A	N/A	N/A	8.8E+02	ug/m^3	95% UCL - NP	N/A
	trans-1,2-Dichloroethene	N/A	N/A	N/A	N/A	2.4E+00	ug/m^3	95% UCL - NP	N/A
	Trichloroethene	N/A	N/A	N/A	N/A	3.1E+01	ug/m^3	95% UCL - NP	N/A
	Vinyl Chloride	N/A	N/A	N/A	N/A	2.8E+00	ug/m^3	95% UCL - NP	N/A
	Xylene, total	N/A	N/A	N/A	N/A	3.1E+01	ug/m^3	95% UCL - NP	N/A
	2-Chloronaphthalene	N/A	N/A	N/A	N/A	4.2E+00	ug/m^3	95% UCL - NP	N/A
	Naphthalene	N/A	N/A	N/A	N/A	6.6E+01	ug/m^3	95% UCL - NP	N/A
Class A									
	Methyl tert-Butyl Ether	N/A	N/A	N/A	N/A	2.1E+00	ug/m^3	95% UCL - NP	N/A
	Xylene, total	N/A	N/A	N/A	N/A	6.6E+00	ug/m^3	95% UCL - NP	N/A

(1) Refer to Appendix 6B, Table 5 for sample groupings for each exposure point; only COPCs selected on Table 2.11 appear.
(2) Refer to Appendix 6D for air modeling results.
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); Arithmetic Mean (Mean); These statistics apply to the groundwater data set prior to air modeling.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 3.11.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater used in a Car Wash
Exposure Medium: Indoor Air

Exposure Point (1)	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Concentration (Qualifier)	Exposure Point Concentration (2)			
						Value	Units	Statistic (3)	Rationale
Study Area									
	1,1-Dichloroethene	N/A	N/A	N/A	N/A	3.5E+00	ug/m^3	95% UCL - NP	N/A
	1,2,4-Trichlorobenzene	N/A	N/A	N/A	N/A	6.4E-01	ug/m^3	Max	N/A
	1,2-Dichlorobenzene	N/A	N/A	N/A	N/A	3.3E+00	ug/m^3	95% UCL - NP	N/A
	1,2-Dichloroethane	N/A	N/A	N/A	N/A	6.8E+00	ug/m^3	95% UCL - NP	N/A
	1,4-Dichlorobenzene	N/A	N/A	N/A	N/A	2.5E+00	ug/m^3	95% UCL - NP	N/A
	4-Methyl-2-Pentanone	N/A	N/A	N/A	N/A	2.5E+01	ug/m^3	95% UCL - NP	N/A
	Acetone	N/A	N/A	N/A	N/A	6.7E+02	ug/m^3	95% UCL - NP	N/A
	Benzene	N/A	N/A	N/A	N/A	9.3E+03	ug/m^3	95% UCL - NP	N/A
	Chlorobenzene	N/A	N/A	N/A	N/A	9.3E+00	ug/m^3	95% UCL - NP	N/A
	Chloroethane	N/A	N/A	N/A	N/A	8.8E+00	ug/m^3	95% UCL - NP	N/A
	Chloroform	N/A	N/A	N/A	N/A	2.4E+00	ug/m^3	95% UCL - NP	N/A
	cis-1,2-Dichloroethene	N/A	N/A	N/A	N/A	9.4E+00	ug/m^3	95% UCL - NP	N/A
	Methyl tert-Butyl Ether	N/A	N/A	N/A	N/A	1.2E+03	ug/m^3	95% UCL - NP	N/A
	Tetrachloroethene	N/A	N/A	N/A	N/A	2.0E+00	ug/m^3	95% UCL - NP	N/A
	Toluene	N/A	N/A	N/A	N/A	8.8E+02	ug/m^3	95% UCL - NP	N/A
	trans-1,2-Dichloroethene	N/A	N/A	N/A	N/A	2.4E+00	ug/m^3	95% UCL - NP	N/A
	Trichloroethene	N/A	N/A	N/A	N/A	3.1E+01	ug/m^3	95% UCL - NP	N/A
	Vinyl Chloride	N/A	N/A	N/A	N/A	2.8E+00	ug/m^3	95% UCL - NP	N/A
	Xylene, total	N/A	N/A	N/A	N/A	3.1E+01	ug/m^3	95% UCL - NP	N/A
	2-Chloronaphthalene	N/A	N/A	N/A	N/A	4.2E+00	ug/m^3	95% UCL - NP	N/A
	Naphthalene	N/A	N/A	N/A	N/A	6.6E+01	ug/m^3	95% UCL - NP	N/A
Class A									
	Methyl tert-Butyl Ether	N/A	N/A	N/A	N/A	2.1E+00	ug/m^3	95% UCL - NP	N/A
	Xylene, total	N/A	N/A	N/A	N/A	6.6E+00	ug/m^3	95% UCL - NP	N/A

(1) Refer to Appendix 6B, Table 5 for sample groupings for each exposure point; only COPCs selected on Table 2.11 appear.
(2) Refer to Appendix 6D for air modeling results.
(3) Statistics: Maximum Detected Value (Max); 95% UCL of Transformed Data (95% UCL - T); 95% UCL of Normal Data (95% UCL - N); 95% UCL of Non-parametric Data (95% UCL - NP); Arithmetic Mean (Mean); These statistics apply to the groundwater data set prior to air modeling.

J = Estimated Concentration
Max = Maximum Detected Concentration
N/A = Not Applicable
UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
RME = Reasonable Maximum Exposure
CT = Central Tendency

TABLE 4.1.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Recreational User	Teenager	HB01, HB03, AR (Baseflow)	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Organics:
		(ages 12-18)		DA	Dose Absorbed per Unit Area per Event	see Appendix 6I	mg/cm^2-event	USEPA, 2004a	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	4500	cm^2	USEPA, 2004a	
				PC	Permeability Constant	see Appendix 6I	cm/hr	USEPA, 2004a	DA x SA x EV x EF x ED
				ET	Event Time	1	hrs/event	Prof. Judgement	BW x AT
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1997a	CDI (mg/kg-day) =
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	CW x SA x PC x ET x EV x EF x ED x CF1 x CF2
				AT-N	Averaging Time (Non-Cancer)	2190	days	USEPA, 1989	BW x AT
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/ug	- -	

TABLE 4.1.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Recreational User	Teenager	HB01, HB03, AR (Baseflow)	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Organics:
		(ages 12-18)		DA	Dose Absorbed per Unit Area per Event	see Appendix 6I	mg/cm^2-event	USEPA, 2004a	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	4500	cm^2	USEPA, 2004a	
				PC	Permeability Constant	see Appendix 6I	cm/hr	USEPA, 2004a	DA x SA x EV x EF x ED
				ET	Event Time	0.5	hrs/event	Prof. Judgement	BW x AT
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1997a	CDI (mg/kg-day) =
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	CW x SA x PC x ET x EV x EF x ED x CF1 x CF2
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	BW x AT
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/ug	- -	

TABLE 4.2.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Sediment
Exposure Medium: Sediment

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational User	Teenager (ages 12-18)	HB01/A6, HB03, AR, BE-1	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	6	years	USEPA, 1997a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
Dermal	Recreational User	Teenager (ages 12-18)	HB01/A6, HB03, AR, BE-1	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	4,500	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	6	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.2.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Sediment
Exposure Medium: Sediment

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational User	Teenager (ages 12-18)	HB01/A6, HB03, AR, BE-1	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	50	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	USEPA, 1997a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
Dermal	Recreational User	Teenager (ages 12-18)	HB01/A6, HB03, AR, BE-1	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	4,500	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.3.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Groundskeeper	Adult	SO, HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 2001b	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	30	days/year	Prof. Judgement	
				ED	Exposure Duration	25	years	USEPA, 1997a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Recreational User	Teenager	HB01/A6, HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 12-18)		IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	6	years	USEPA, 1997a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 1-6)		IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.3.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Groundskeeper	Adult	SO, HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	30	days/year	Prof. Judgement	
				ED	Exposure Duration	25	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Recreational User	Teenager	HB01/A6, HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 12-18)		SA	Skin Surface Area Available for Contact	4,500	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	6	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 1-6)		SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.3.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Groundskeeper	Adult	SO, HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 2001b	CS x IR x FI x EF x ED x CF
				FI	Fraction Ingested	1	unitless	Prof. Judgement	BW x AT
				EF	Exposure Frequency	15	days/year	Prof. Judgement	
				ED	Exposure Duration	9	years	USEPA, 1997a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Recreational User	Teenager	HB01/A6, HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 12-18)		IR	Ingestion Rate of Soil	50	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	BW x AT
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	USEPA, 1997a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 1-6)		IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF
				FI	Fraction Ingested	1	unitless	Prof. Judgement	BW x AT
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.3.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Groundskeeper	Adult	SO, HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	15	days/year	Prof. Judgement	
				ED	Exposure Duration	9	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Recreational User	Teenager	HB01/A6, HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 12-18)		SA	Skin Surface Area Available for Contact	4,500	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 1-6)		SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.4.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Fish Fillet Tissue

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational User	Adult	HBHA	CF	Chemical Concentration in Fish	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Fish	13,000	mg/day	USEPA, 1997a	CF x IR x EF x ED x FI x CF1
				EF	Exposure Frequency	365	days/year	USEPA, 1994b	BW x AT
				ED	Exposure Duration	24	years	USEPA, 1994b	
				FI	Fraction Ingested From Site	0.5	- -	Prof. Judgement	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF1	Conversion Factor	0.000001	kg/mg	- -	
		Young Child	HBHA	CF	Chemical Concentration in Fish	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Fish	6,500	mg/day	USEPA, 1997a	CF x IR x EF x ED x FI x CF1
				EF	Exposure Frequency	365	days/year	USEPA, 1994b	BW x AT
				ED	Exposure Duration	6	years	USEPA, 1994b	
				FI	Fraction Ingested From Site	0.5	- -	Prof. Judgement	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF1	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.4.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Fish Fillet Tissue

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational User	Adult	HBHA	CF	Chemical Concentration in Fish	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Fish	5,000	mg/day	USEPA, 1997a	CF x IR x EF x ED x FI x CF1
				EF	Exposure Frequency	365	days/year	USEPA, 1994b	BW x AT
				ED	Exposure Duration	7	years	USEPA, 1994b	
				FI	Fraction Ingested From Site	0.5	- -	Prof. Judgement	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF1	Conversion Factor	0.000001	kg/mg	- -	
		Young Child	HBHA	CF	Chemical Concentration in Fish	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Fish	2,500	mg/day	USEPA, 1997a	CF x IR x EF x ED x FI x CF1
				EF	Exposure Frequency	365	days/year	USEPA, 1994b	BW x AT
				ED	Exposure Duration	2	years	USEPA, 1994b	
				FI	Fraction Ingested From Site	0.5	- -	Prof. Judgement	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF1	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.5.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Recreational User	Teenager (ages 12-18)	HB01, HB02, HB03, AR, BE-2 (Baseflow and Storm Event)	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix 6I	mg/cm^2-event	USEPA, 2004a	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	4500	cm^2	USEPA, 2004a	
				PC	Permeability Constant	see Appendix 6I	cm/hr	USEPA, 2004a	DA x SA x EV x EF x ED
				ET	Event Time	2.5	hrs/event	Prof. Judgement	BW x AT
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	52	days/year	Prof. Judgement	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1997a	CDI (mg/kg-day) =
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	CW x SA x PC x ET x EV x EF x ED x CF1 x CF2
				AT-N	Averaging Time (Non-Cancer)	2190	days	USEPA, 1989	BW x AT
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/ug	- -	

TABLE 4.5.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Recreational User	Teenager (ages 12-18)	HB01, HB02, HB03, AR, BE-2 (Baseflow and Storm Event)	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix 6I	mg/cm^2-event	USEPA, 2004a	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	4500	cm^2	USEPA, 2004a	
				PC	Permeability Constant	see Appendix 6I	cm/hr	USEPA, 2004a	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1997a	CDI (mg/kg-day) =
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	$\frac{CW \times SA \times PC \times ET \times EV \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/ug	- -	

TABLE 4.6.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational User	Teenager (ages 12-18)	HB01/A6, HB02/HB04, HB03, AR, BE-1, BE-2	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	52	days/year	Prof. Judgement	
				ED	Exposure Duration	6	years	USEPA, 1997a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
Dermal	Recreational User	Teenager (ages 12-18)	HB01/A6, HB02/HB04, HB03, AR, BE-1, BE-2	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	4,500	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	52	days/year	Prof. Judgement	
				ED	Exposure Duration	6	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.6.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational User	Teenager (ages 12-18)	HB01/A6, HB02/HB04, HB03, AR, BE-1, BE-2	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	50	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	USEPA, 1997a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
Dermal	Recreational User	Teenager (ages 12-18)	HB01/A6, HB02/HB04, HB03, AR, BE-1, BE-2	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	4,500	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.7.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment Cores

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Dredger	Adult	Sediment Cores (SC01 through SC04)	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	167	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	Prof. Judgement	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
Dermal	Dredger	Adult	Sediment Cores (SC01 through SC04)	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	167	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	Prof. Judgement	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.7.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment Cores

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Dredger	Adult	Sediment Cores (SC01 through SC04)	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	83	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
Dermal	Dredger	Adult	Sediment Cores (SC01 through SC04)	CS	Chemical Concentration in Sediment	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	83	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.8.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Groundskeeper	Adult	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 2001b	CS x IR x FI x EF x ED x CF
				FI	Fraction Ingested	1	unitless	Prof. Judgement	BW x AT
				EF	Exposure Frequency	100	days/year	Prof. Judgement	
				ED	Exposure Duration	25	years	USEPA, 1997a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Recreational User	Teenager	HB01/A6, HB02/HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 12-18)		IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	BW x AT
				EF	Exposure Frequency	52	days/year	Prof. Judgement	
				ED	Exposure Duration	6	years	USEPA, 1997a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 1-6)		IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF
				FI	Fraction Ingested	1	unitless	Prof. Judgement	BW x AT
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.8.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
	Construction Worker	Adult	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF
				FI	Fraction Ingested	1	unitless	Prof. Judgement	BW x AT
				EF	Exposure Frequency	125	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
Inhalation of fugitive dust	Construction Worker	Adult	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (ug/m^3) =
				ET	Exposure Time	8	hrs/day	USEPA, 1997a	CS x ET x EF x ED x CF2
				EF	Exposure Frequency	125	days/year	Prof. Judgement	PEF x AT x CF1
				ED	Exposure Duration	1	years	Prof. Judgement	
				PEF	Particulate Emission Factor	4.63E+09	m^3/kg	USEPA, 1991b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF1	Conversion Factor 1	24	hrs/day	- -	
				CF2	Conversion Factor 2	1000	ug/mg	- -	
Dermal	Groundskeeper	Adult	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	100	days/year	Prof. Judgement	
				ED	Exposure Duration	25	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.8.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
	Recreational User	Teenager	HB01/A6, HB02/HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 12-18)		SA	Skin Surface Area Available for Contact	4,500	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	52	days/year	Prof. Judgement	
				ED	Exposure Duration	6	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 1-6)		SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Construction Worker	Adult	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	125	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.8.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Groundskeeper	Adult	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 2001b	CS x IR x FI x EF x ED x CF
				FI	Fraction Ingested	1	unitless	Prof. Judgement	BW x AT
				EF	Exposure Frequency	50	days/year	Prof. Judgement	
				ED	Exposure Duration	9	years	USEPA, 1997a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Recreational User	Teenager	HB01/A6, HB02/HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 12-18)		IR	Ingestion Rate of Soil	50	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	BW x AT
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	USEPA, 1997a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 1-6)		IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF
				FI	Fraction Ingested	1	unitless	Prof. Judgement	BW x AT
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.8.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
	Construction Worker	Adult	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	40	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
Inhalation of fugitive dust	Construction Worker	Adult	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (ug/m^3) =
				ET	Exposure Time	8	hrs/day	USEPA, 1997a	CS x ET x EF x ED x CF2 / PEF x AT x CF1
				EF	Exposure Frequency	40	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				PEF	Particulate Emission Factor	4.63E+09	m^3/kg	USEPA, 1991b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF1	Conversion Factor 1	24	hrs/day	- -	
				CF2	Conversion Factor 2	1000	ug/mg	- -	
Dermal	Groundskeeper	Adult	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	50	days/year	Prof. Judgement	
				ED	Exposure Duration	9	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.8.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Surface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
	Recreational User	Teenager	HB01/A6, HB02/HB04	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 12-18)		SA	Skin Surface Area Available for Contact	4,500	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 1-6)		SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Construction Worker	Adult	HB02/HB04, SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF / BW x AT
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	
				EF	Exposure Frequency	40	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.9.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Subsurface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational User	Teenager	HB01/A6	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 12-18)		IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	52	days/year	Prof. Judgement	
				ED	Exposure Duration	6	years	USEPA, 1997a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 1-6)		IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Construction Worker	Adult	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	125	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
Inhalation of fugitive dust	Construction Worker	Adult	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (ug/m^3) =
				ET	Exposure Time	8	hrs/day	USEPA, 1997a	CS x ET x EF x ED x CF2 / PEF x AT x CF1
				EF	Exposure Frequency	125	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				PEF	Particulate Emission Factor	4.63E+09	m^3/kg	USEPA, 1991b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF1	Conversion Factor 1	24	hrs/day	- -	
				CF2	Conversion Factor 2	1000	ug/mg	- -	

TABLE 4.9.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Subsurface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Recreational User	Teenager	HB01/A6	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 12-18)		SA	Skin Surface Area Available for Contact	4,500	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	52	days/year	Prof. Judgement	
				ED	Exposure Duration	6	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 1-6)		SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Construction Worker	Adult	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	125	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.9.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Subsurface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational User	Teenager	HB01/A6	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 12-18)		IR	Ingestion Rate of Soil	50	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	USEPA, 1997a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
		(ages 1-6)		IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Construction Worker	Adult	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1997a	CS x IR x FI x EF x ED x CF / BW x AT
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	40	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
Inhalation of fugitive dust	Construction Worker	Adult	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	Chronic Daily Intake (CDI) (ug/m^3) =
				ET	Exposure Time	8	hrs/day	USEPA, 1997a	CS x ET x EF x ED x CF2 / PEF x AT x CF1
				EF	Exposure Frequency	40	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				PEF	Particulate Emission Factor	4.63E+09	m^3/kg	USEPA, 1991b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF1	Conversion Factor 1	24	hrs/day	- -	
				CF2	Conversion Factor 2	1000	ug/mg	- -	

TABLE 4.9.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Subsurface Soil

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Recreational User	Teenager	HB01/A6	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 12-18)		SA	Skin Surface Area Available for Contact	4,500	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	26	days/year	Prof. Judgement	
				ED	Exposure Duration	2	years	USEPA, 1997a	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	57	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Day Care Child	Young Child	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
		(ages 1-6)		SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	15	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
	Construction Worker	Adult	SO	CS	Chemical Concentration in Soil	see Table 3s	mg/kg	see Table 3s	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004a	CS x SA x AF x EF x ED x DAF x CF
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004a	BW x AT
				EF	Exposure Frequency	40	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				DAF	Dermal Absorption Factor	see Appendix 6I	- -	USEPA, 2004a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 4.10.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Shallow Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Construction Worker	Adult	Study Area, Class A Properties	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-W	Ingestion Rate of Water	0.05	liters/day	Prof. Judgement	CW x IR x EF x ED x CF1 / BW x AT
				EF	Exposure Frequency	125	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/ug	- -	
Dermal	Construction Worker	Adult	Study Area, Class A Properties	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix 6I	mg/cm^2-event	USEPA, 2004a	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3300	cm^2	USEPA, 2004a	
				PC	Permeability Constant	see Appendix 6I	cm/hr	USEPA, 2004a	DA x SA x EV x EF x ED / BW x AT
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	125	days/year	Prof. Judgement	Inorganics:
				ED	Exposure Duration	1	years	Prof. Judgement	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	CW x SA x PC x ET x EV x EF x ED x CF1 x CF2 / BW x AT
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/ug	- -	

TABLE 4.10.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Shallow Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Construction Worker	Adult	Study Area, Class A Properties	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-W	Ingestion Rate of Water	0.05	liters/day	Prof. Judgement	CW x IR x EF x ED x CF1 / BW x AT
				EF	Exposure Frequency	40	days/year	Prof. Judgement	
				ED	Exposure Duration	1	years	Prof. Judgement	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/ug	- -	
Dermal	Construction Worker	Adult	Study Area, Class A Properties	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix 6I	mg/cm^2-event	USEPA, 2004a	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3300	cm^2	USEPA, 2004a	
				PC	Permeability Constant	see Appendix 6I	cm/hr	USEPA, 2004a	DA x SA x EV x EF x ED / BW x AT
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	40	days/year	Prof. Judgement	Inorganics:
				ED	Exposure Duration	1	years	Prof. Judgement	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	CW x SA x PC x ET x EV x EF x ED x CF1 x CF2 / BW x AT
				AT-N	Averaging Time (Non-Cancer)	365	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/ug	- -	

TABLE 4.11.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Industrial Worker	Adult	Study Area, Class A Properties	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-W	Ingestion Rate of Water	0.05	liters/day	Prof. Judgement	CW x IR x EF x ED x CF1 / BW x AT
				EF	Exposure Frequency	250	days/year	USEPA, 1997a	
				ED	Exposure Duration	25	years	USEPA, 1997a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9125	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/ug	- -	
Dermal	Industrial Worker	Adult	Study Area, Class A Properties	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix 6I	mg/cm^2-event	USEPA, 2004a	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3300	cm^2	USEPA, 2004a	
				PC	Permeability Constant	see Appendix 6I	cm/hr	USEPA, 2004a	DA x SA x EV x EF x ED / BW x AT
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	250	days/year	USEPA, 1997a	Inorganics:
				ED	Exposure Duration	25	years	USEPA, 1997a	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	CW x SA x PC x ET x EV x EF x ED x CF1 x CF2 / BW x AT
				AT-N	Averaging Time (Non-Cancer)	9125	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/ug	- -	

TABLE 4.11.RME

VALUES USED FOR DAILY INTAKE CALCULATIONS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Inhalation of volatiles	Industrial Worker	Adult	Study Area, Class A Properties	CA	Chemical Concentration in Air	see Table 3s	ug/m^3	see Table 3s	Chronic Daily Intake (CDI) (ug/m^3) =
				ET	Exposure Time	8	hrs/day	USEPA, 1997a	CA x ET x EF x ED
				EF	Exposure Frequency	250	days/year	USEPA, 1997a	AT x CF
				ED	Exposure Duration	25	years	USEPA, 1997a	
				CF	Conversion Factor	24	hrs/day	- -	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	USEPA, 1989	
	Car Wash Worker	Adult	Study Area, Class A Properties	CA	Chemical Concentration in Air	see Table 3s	ug/m^3	see Table 3s	Chronic Daily Intake (CDI) (ug/m^3) =
				ET	Exposure Time	8	hrs/day	USEPA, 1997a	CA x ET x EF x ED
				EF	Exposure Frequency	250	days/year	USEPA, 1997a	AT x CF
				ED	Exposure Duration	25	years	USEPA, 1997a	
				CF	Conversion Factor	24	hrs/day	- -	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	9,125	days	USEPA, 1989	

TABLE 4.11.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Industrial Worker	Adult	Study Area, Class A Properties	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR-W	Ingestion Rate of Water	0.05	liters/day	Prof. Judgement	CW x IR x EF x ED x CF1 / BW x AT
				EF	Exposure Frequency	219	days/year	USEPA, 1997a	
				ED	Exposure Duration	9	years	USEPA, 1997a	
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	3285	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/ug	- -	
Dermal	Industrial Worker	Adult	Study Area, Class A Properties	CW	Chemical Concentration in Water	see Table 3s	ug/L	see Table 3s	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix 6I	mg/cm^2-event	USEPA, 2004a	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3300	cm^2	USEPA, 2004a	
				PC	Permeability Constant	see Appendix 6I	cm/hr	USEPA, 2004a	DA x SA x EV x EF x ED / BW x AT
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	219	days/year	USEPA, 1997a	Inorganics:
				ED	Exposure Duration	9	years	USEPA, 1997a	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1997a	
				AT-C	Averaging Time (Cancer)	25550	days	USEPA, 1989	CW x SA x PC x ET x EV x EF x ED x CF1 x CF2 / BW x AT
				AT-N	Averaging Time (Non-Cancer)	3285	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/ug	- -	

TABLE 4.11.CT

VALUES USED FOR DAILY INTAKE CALCULATIONS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Inhalation of volatiles	Industrial Worker	Adult	Study Area, Class A Properties	CA	Chemical Concentration in Air	see Table 3s	ug/m^3	see Table 3s	Chronic Daily Intake (CDI) (ug/m^3) =
				ET	Exposure Time	8	hrs/day	USEPA, 1997a	CA x ET x EF x ED
				EF	Exposure Frequency	219	days/year	USEPA, 1997a	AT x CF
				ED	Exposure Duration	9	years	USEPA, 1997a	
				CF	Conversion Factor	24	hrs/day	- -	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	USEPA, 1989	
	Car Wash Worker	Adult	Study Area, Class A Properties	CA	Chemical Concentration in Air	see Table 3s	ug/m^3	see Table 3s	Chronic Daily Intake (CDI) (ug/m^3) =
				ET	Exposure Time	8	hrs/day	USEPA, 1997a	CA x ET x EF x ED
				EF	Exposure Frequency	219	days/year	USEPA, 1997a	AT x CF
				ED	Exposure Duration	9	years	USEPA, 1997a	
				CF	Conversion Factor	24	hrs/day	- -	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	3,285	days	USEPA, 1989	

TABLE 5.1

NON-CANCER TOXICITY DATA -- ORAL/DERMAL

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD		Oral Absorption Efficiency for Dermal	Absorbed RfD for Dermal		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfD:Target Organ(s)	
		Value	Units	(1)	Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
1,1-Dichloroethene	Chronic	5E-02	mg/kg-day	(4)	5E-02	mg/kg-day	Liver	100	IRIS	01/05/05
1,2-Dichloroethane	Chronic	2E-02	mg/kg-day	(4)	2E-02	mg/kg-day	Kidney	3000	NCEA	01/05/05
1,4-Dichlorobenzene	Chronic	3E-02	mg/kg-day	(4)	3E-02	mg/kg-day	Developmental	1000	NCEA	01/05/05
Acetone	Chronic	9E-01	mg/kg-day	(4)	9E-01	mg/kg-day	Kidney	1000	IRIS	01/05/05
Benzene	Chronic	4E-03	mg/kg-day	(4)	4E-03	mg/kg-day	Immune System	300	IRIS	01/05/05
Chlorobenzene	Chronic	2E-02	mg/kg-day	(4)	2E-02	mg/kg-day	Liver	1000	IRIS	01/05/05
Chloroethane	Chronic	4E-01	mg/kg-day	(4)	4E-01	mg/kg-day	Developmental	3000	NCEA	01/05/05
Chloroform	Chronic	1E-02	mg/kg-day	(4)	1E-02	mg/kg-day	Liver	100	IRIS	01/05/05
cis-1,2-Dichloroethene	Chronic	1E-02	mg/kg-day	(4)	1E-02	mg/kg-day	Blood	3000	NCEA	01/05/05
Methyl tert-butyl ether	Chronic	3E-01	mg/kg-day	(4)	3E-01	mg/kg-day	Liver	300	ATSDR	01/05/05
Tetrachloroethene	Chronic	1E-02	mg/kg-day	(4)	1E-02	mg/kg-day	Liver	1000	IRIS	01/05/05
Toluene	Chronic	2E-01	mg/kg-day	(4)	2E-01	mg/kg-day	Liver/Kidney	1000	IRIS	01/05/05
Trichloroethene	Chronic	3E-04	mg/kg-day	(4)	3E-04	mg/kg-day	Liver	3000	NCEA	01/05/05
Vinyl chloride	Chronic	3E-03	mg/kg-day	(4)	3E-03	mg/kg-day	Liver	30	IRIS	01/05/05
Xylene, total	Chronic	2E-01	mg/kg-day	(4)	2E-01	mg/kg-day	General Toxicity	1000	IRIS	01/05/05
2,4-Dichlorophenol	Chronic	3E-03	mg/kg-day	(4)	3E-03	mg/kg-day	Immune System	100	IRIS	01/05/05
2-Methylphenol	Chronic	5E-02	mg/kg-day	(4)	5E-02	mg/kg-day	General Toxicity/CNS	1000	IRIS	01/05/05
Benzo(a)anthracene	Chronic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	Chronic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	Chronic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis(2-ethylhexyl)phthalate	Chronic	2E-02	mg/kg-day	(4)	2E-02	mg/kg-day	Liver	1000	IRIS	01/05/05
Dibenz(a,h)anthracene	Chronic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	Chronic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Naphthalene	Chronic	2E-02	mg/kg-day	(4)	2E-02	mg/kg-day	General Toxicity	3000	IRIS	01/05/05
Pentachlorophenol	Chronic	3E-02	mg/kg-day	(4)	3E-02	mg/kg-day	Liver/Kidney	100	IRIS	01/05/05
Phenanthrene (3)	Chronic	2E-02	mg/kg-day	(4)	2E-02	mg/kg-day	General Toxicity	3000	IRIS	01/05/05

TABLE 5.1

NON-CANCER TOXICITY DATA -- ORAL/DERMAL

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD		Oral Absorption Efficiency for Dermal	Absorbed RfD for Dermal		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfD:Target Organ(s)	
		Value	Units	(1)	Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Antimony	Chronic	4E-04	mg/kg-day	0.15	6E-05	mg/kg-day	General Toxicity	1000	IRIS	01/05/05
Arsenic [6]	Chronic	3E-04	mg/kg-day	(4)	3E-04	mg/kg-day	Skin	3	IRIS	01/05/05
Barium	Chronic	7E-02	mg/kg-day	0.07	4.9E-03	mg/kg-day	Cardiovascular/Kidney	3	IRIS	01/05/05
Beryllium	Chronic	2E-03	mg/kg-day	0.007	1.4E-05	mg/kg-day	GI System	300	IRIS	01/05/05
Cadmium (food)	Chronic	1E-03	mg/kg-day	0.025	2.5E-05	mg/kg-day	Kidney	10	IRIS	01/05/05
Cadmium (water)	Chronic	5E-04	mg/kg-day	0.05	2.5E-05	mg/kg-day	Kidney	10	IRIS	01/05/05
Chromium (III)	Chronic	1.5E+00	mg/kg-day	0.013	1.95E-02	mg/kg-day	General Toxicity	1000	IRIS	01/05/05
Chromium (VI)	Chronic	3E-03	mg/kg-day	0.025	7.5E-05	mg/kg-day	GI System	300	IRIS	01/05/05
Copper	Chronic	3E-02	mg/kg-day	(4)	3E-02	mg/kg-day	Kidney	1000	NCEA	01/05/05
Lead [7]										
Manganese (water)	Chronic	2.4E-02	mg/kg-day	0.04	9.6E-04	mg/kg-day	Nervous System	9	IRIS	01/05/05
Manganese (other media)	Chronic	7E-02	mg/kg-day	0.04	2.8E-03	mg/kg-day	Nervous System	1	IRIS	01/05/05
Mercury (inorganic)	Chronic	3E-04	mg/kg-day	0.07	2.1E-05	mg/kg-day	Immune System	1000	IRIS	01/05/05
Mercury (organic)	Chronic	1E-04	mg/kg-day	(4)	1E-04	mg/kg-day	Nervous System	10	IRIS	01/05/05
Nickel	Chronic	2E-02	mg/kg-day	0.04	8E-04	mg/kg-day	General Toxicity	300	IRIS	01/05/05
Selenium	Chronic	5E-03	mg/kg-day	(4)	5E-03	mg/kg-day	Liver	3	IRIS	01/05/05
Thallium	Chronic	8E-05	mg/kg-day	(4)	8E-05	mg/kg-day	Blood	3000	IRIS	01/05/05
Vanadium	Chronic	1E-03	mg/kg-day	0.026	2.6E-05	mg/kg-day	Kidney	300	NCEA	01/05/05
Zinc	Chronic	3E-01	mg/kg-day	(4)	3E-01	mg/kg-day	Blood	3	IRIS	01/05/05

TABLE 5.1

NON-CANCER TOXICITY DATA -- ORAL/DERMAL

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD		Oral Absorption Efficiency for Dermal	Absorbed RfD for Dermal		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfD:Target Organ(s)	
		Value	Units	(1)	Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
1,1-Dichloroethene	Subchronic	5E-02	mg/kg-day	(4)	5E-02	mg/kg-day	Liver	100	IRIS	01/05/05
1,2-Dichloroethane	Subchronic	2E-01	mg/kg-day	(4)	2E-01	mg/kg-day	Kidney	300	NCEA	01/05/05
1,4-Dichlorobenzene	Subchronic	3E-01	mg/kg-day	(4)	3E-01	mg/kg-day	Developmental	100	NCEA	01/05/05
Acetone	Subchronic	2.7E+00	mg/kg-day	(4)	2.7E+00	mg/kg-day	Kidney	300	IRIS	01/05/05
Benzene	Subchronic	1.2E-02	mg/kg-day	(4)	1.2E-02	mg/kg-day	Immune System	100	IRIS	01/05/05
Chlorobenzene	Subchronic	2E-01	mg/kg-day	(4)	2E-01	mg/kg-day	Liver	100	IRIS	01/05/05
Chloroethane	Subchronic	4E-01	mg/kg-day	(4)	4E-01	mg/kg-day	Developmental	3000	NCEA	01/05/05
Chloroform	Subchronic	1E-02	mg/kg-day	(4)	1E-02	mg/kg-day	Liver	100	IRIS	01/05/05
cis-1,2-Dichloroethene	Subchronic	1E-01	mg/kg-day	(4)	1E-01	mg/kg-day	Blood	300	NCEA	01/05/05
Methyl tert-butyl ether	Subchronic	3E-01	mg/kg-day	(4)	3E-01	mg/kg-day	Liver	300	ATSDR	01/05/05
Tetrachloroethene	Subchronic	1E-01	mg/kg-day	(4)	1E-01	mg/kg-day	Liver	100	IRIS	01/05/05
Toluene	Subchronic	2E+00	mg/kg-day	(4)	2E+00	mg/kg-day	Liver/Kidney	100	IRIS	01/05/05
Trichloroethene	Subchronic	3E-04	mg/kg-day	(4)	3E-04	mg/kg-day	Liver	3000	NCEA	01/05/05
Vinyl chloride	Subchronic	3E-03	mg/kg-day	(4)	3E-03	mg/kg-day	Liver	30	IRIS	01/05/05
Xylene, total	Subchronic	2E-01	mg/kg-day	(4)	2E-01	mg/kg-day	General Toxicity	1000	IRIS	01/05/05
2,4-Dichlorophenol	Subchronic	3E-03	mg/kg-day	(4)	3E-03	mg/kg-day	Immune System	100	IRIS	01/05/05
2-Methylphenol	Subchronic	5E-01	mg/kg-day	(4)	5E-01	mg/kg-day	General Toxicity/CNS	100	IRIS	01/05/05
Benzo(a)anthracene	Subchronic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	Subchronic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	Subchronic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis(2-ethylhexyl)phthalate	Subchronic	2E-02	mg/kg-day	(4)	2E-02	mg/kg-day	Liver	1000	IRIS	01/05/05
Dibenz(a,h)anthracene	Subchronic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	Subchronic	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Naphthalene	Subchronic	2E-01	mg/kg-day	(4)	2E-01	mg/kg-day	General Toxicity	300	IRIS	01/05/05
Pentachlorophenol	Subchronic	3E-02	mg/kg-day	(4)	3E-02	mg/kg-day	Liver/Kidney	100	IRIS	01/05/05
Phenanthrene (3)	Subchronic	2E-01	mg/kg-day	(4)	2E-01	mg/kg-day	General Toxicity	300	IRIS	01/05/05

TABLE 5.1

NON-CANCER TOXICITY DATA -- ORAL/DERMAL

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD		Oral Absorption Efficiency for Dermal	Absorbed RfD for Dermal		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfD:Target Organ(s)	
		Value	Units	(1)	Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
Antimony	Subchronic	4E-04	mg/kg-day	0.15	6E-05	mg/kg-day	General Toxicity	1000	IRIS	01/05/05
Arsenic [6]	Subchronic	3E-04	mg/kg-day	(4)	3E-04	mg/kg-day	Skin	3	IRIS	01/05/05
Barium	Subchronic	7E-02	mg/kg-day	0.07	4.9E-03	mg/kg-day	Cardiovascular/Kidney	3	IRIS	01/05/05
Beryllium	Subchronic	2E-03	mg/kg-day	0.007	1.4E-05	mg/kg-day	GI System	300	IRIS	01/05/05
Cadmium (food)	Subchronic	1E-03	mg/kg-day	0.025	2.5E-05	mg/kg-day	Kidney	10	IRIS	01/05/05
Cadmium (water)	Subchronic	5E-04	mg/kg-day	0.05	2.5E-05	mg/kg-day	Kidney	10	IRIS	01/05/05
Chromium (III)	Subchronic	1.5E+00	mg/kg-day	0.013	1.95E-02	mg/kg-day	General Toxicity	1000	IRIS	01/05/05
Chromium (VI)	Subchronic	3E-03	mg/kg-day	0.025	7.5E-05	mg/kg-day	GI System	100	IRIS	01/05/05
Copper	Subchronic	3E-01	mg/kg-day	(4)	3E-01	mg/kg-day	Kidney	100	NCEA	01/05/05
Lead [7]										
Manganese (water)	Subchronic	2.4E-02	mg/kg-day	0.04	9.6E-04	mg/kg-day	Nervous System	9	IRIS	01/05/05
Manganese (other media)	Subchronic	7E-02	mg/kg-day	0.04	2.8E-03	mg/kg-day	Nervous System	3	IRIS	01/05/05
Mercury (inorganic)	Subchronic	3E-03	mg/kg-day	0.07	2.1E-04	mg/kg-day	Immune System	100	IRIS	01/05/05
Mercury (organic)	Subchronic	1E-04	mg/kg-day	(4)	1E-04	mg/kg-day	Nervous System	10	IRIS	01/05/05
Nickel	Subchronic	2E-02	mg/kg-day	0.04	8E-04	mg/kg-day	General Toxicity	300	IRIS	01/05/05
Selenium	Subchronic	5E-03	mg/kg-day	(4)	5E-03	mg/kg-day	Liver	3	IRIS	01/05/05
Thallium	Subchronic	8E-04	mg/kg-day	(4)	8E-04	mg/kg-day	Blood	300	IRIS	01/05/05
Vanadium	Subchronic	1E-02	mg/kg-day	0.026	2.6E-04	mg/kg-day	Kidney	30	NCEA	01/05/05
Zinc	Subchronic	3E-01	mg/kg-day	(4)	3E-01	mg/kg-day	Blood	3	IRIS	01/05/05

TABLE 5.1

NON-CANCER TOXICITY DATA -- ORAL/DERMAL

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD		Oral Absorption Efficiency for Dermal (1)	Absorbed RfD for Dermal		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfD:Target Organ(s)	
		Value	Units		Value	Units			Source(s)	Date(s) (MM/DD/YYYY)

(1) Oral absorption efficiencies from RAGS, Part E (USEPA, 2004).

(2) Calculated as: (oral RfD) x (oral to dermal adjustment factor).

(3) RfDs for managanese are based on total allowable intake (10 mg/day) minus the background intake (5 mg/day). The remaining intake (5 mg/day) is divided by 70 kg.
RfD for mercury (inorganic) based on mercuric chloride; for mercury (organic), based on methylmercury.
RfD for naphthalene used as a surrogate for acenaphthylene, benzo(g,h,i)perylene and phenanthrene.

IRIS = Integrated Risk Information System
HEAST = Health Effects Assessment Summary Tables
NCEA = National Center for Environmental Assessment
N/A = Not Applicable
NOAEL = No Observed Adverse Effects Level
ATSDR = Agency for Toxic Substances and Disease Registry

(4) Oral absorption efficiency exceeds 50%. No adjustment of the oral reference dose is necessary.

(5) Permeability constants (Kp) used for water absorption calculations: 2E-04 cm/hr for nickel, 6E-04 cm/hr for zinc, 2E-03 cm/hr for chromium (VI), and 1E-03 cm/hr for the remaining inorganics (USEPA, 2004); for organics, see Appendix 6I.

(6) Used for all media and exposures except oral exposures to sediment (see Table 5.3).

(7) See Appendix 6L for lead model calculations.

TABLE 5.2

NON-CANCER TOXICITY DATA -- INHALATION

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern (1)	Chronic/ Subchronic	Inhalation RfC		Extrapolated RfD		Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	RfC : Target Organ(s)	
		Value	Units	Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
1,1-Dichloroethene	Chronic	2.00E+02	ug/m^3	N/A	N/A	Liver	30	IRIS	1/5/2005
1,2,4-Trichlorobenzene	Chronic	4.00E+00	ug/m^3	N/A	N/A	Liver/Kidney	1000	NCEA	1/5/2005
1,2-Dichlorobenzene	Chronic	2.00E+02	ug/m^3	N/A	N/A	General Toxicity	1000	HEAST	July 1997
1,2-Dichloroethane	Chronic	5.00E+00	ug/m^3	N/A	N/A	Liver/Kidney/GI System	3000	NCEA	1/5/2005
1,4-Dichlorobenzene	Chronic	8.00E+02	ug/m^3	N/A	N/A	Liver	100	IRIS	1/5/2005
2-Butanone	Chronic	5.00E+03	ug/m^3	N/A	N/A	Developmental	300	IRIS	1/5/2005
4-Methyl-2-Pentanone	Chronic	3.00E+03	ug/m^3	N/A	N/A	Developmental	300	IRIS	1/5/2005
Acetone	Chronic	N/A	N/A	N/A	N/A	N/A	N/A	IRIS	1/5/2005
Benzene	Chronic	3.00E+01	ug/m^3	N/A	N/A	Immune System	300	IRIS	1/5/2005
Chlorobenzene	Chronic	6.00E+01	ug/m^3	N/A	N/A	Liver	1000	NCEA	1/5/2005
Chloroethane	Chronic	1.00E+04	ug/m^3	N/A	N/A	Developmental	300	IRIS	1/5/2005
Chloroform	Chronic	5.00E+01	ug/m^3	N/A	N/A	Liver	100	NCEA	1/5/2005
cis-1,2-Dichloroethene	Chronic	2.00E+02	ug/m^3	N/A	N/A	Liver	30	IRIS	1/5/2005
Methyl tert-Butyl Ether	Chronic	3.00E+03	ug/m^3	N/A	N/A	Liver/Kidney	100	IRIS	1/5/2005
Tetrachloroethene	Chronic	2.70E+02	ug/m^3	N/A	N/A	CNS	100	ATSDR	1/5/2005
Toluene	Chronic	4.00E+02	ug/m^3	N/A	N/A	CNS	300	IRIS	1/5/2005
trans-1,2-Dichloroethene	Chronic	6.00E+01	ug/m^3	N/A	N/A	Liver/Respiratory	3000	NCEA	1/5/2005
Trichloroethene	Chronic	4.00E+01	ug/m^3	N/A	N/A	Liver/CNS	3000	NCEA	1/5/2005
Vinyl chloride	Chronic	1.00E+02	ug/m^3	N/A	N/A	Liver	30	IRIS	1/5/2005
Xylene, total	Chronic	1.00E+02	ug/m^3	N/A	N/A	CNS	300	IRIS	1/5/2005
2-Chloronaphthalene	Chronic	3.00E+00	ug/m^3	N/A	N/A	Respiratory	3000	IRIS	1/5/2005
Naphthalene	Chronic	3.00E+00	ug/m^3	N/A	N/A	Respiratory	3000	IRIS	1/5/2005

IRIS = Integrated Risk Information System

NCEA = National Center for Environmental Assessment

HEAST = Health Effects Assessment Summary Tables

ATSDR = Agency for Toxic Substances and Disease Registry

N/A = Not Applicable

(1) RfC for Naphthalene used as a surrogate for all noncarcinogenic PAHs.
RfC for 1,1-dichloroethene used as a surrogate for cis-1,2-dichloroethene.

TABLE 5.3

NON-CANCER TOXICITY DATA -- SPECIAL CASE CHEMICALS

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern	Chronic/ Subchronic	Parameter			Primary Target Organ(s)	Combined Uncertainty/Modifying Factors	Parameter:Target Organ(s)	
		Name	Value	Units			Source(s)	Date(s)
Arsenic	Chronic	Sediment Oral RfD adjusted for site-specific relative bioavailability	5.9E-04	mg/kg-day	skin	3	IRIS	01/05/05

TABLE 6.1

CANCER TOXICITY DATA -- ORAL/DERMAL

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern	Oral Cancer Slope Factor		Oral Absorption Efficiency for Dermal	Absorbed Cancer Slope Factor for Dermal		Weight of Evidence/ Cancer Guideline Description	Oral CSF	
	Value	Units	(1)	Value (2)	Units		Source(s)	Date(s) (MM/DD/YYYY)
1,1-Dichloroethene	N/A	N/A	N/A	N/A	N/A	C	IRIS	01/05/05
1,2-Dichloroethane	9.1E-02	(mg/kg-day) $^{-1}$	(1)	9.1E-02	(mg/kg-day) $^{-1}$	B2	IRIS	01/05/05
1,4-Dichlorobenzene	2.4E-02	(mg/kg-day) $^{-1}$	(1)	2.4E-02	(mg/kg-day) $^{-1}$	C	HEAST	July 1997
Acetone	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Benzene	5.50E-02	(mg/kg-day) $^{-1}$	(1)	5.50E-02	(mg/kg-day) $^{-1}$	A	IRIS	01/05/05
Chlorobenzene	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Chloroethane	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Chloroform	N/A	N/A	N/A	N/A	N/A	B2	IRIS	01/05/05
cis-1,2-Dichloroethene	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Methyl tert-butyl ether	1.8E-03	(mg/kg-day) $^{-1}$	(1)	1.8E-03	(mg/kg-day) $^{-1}$	N/A	CalEPA	01/05/05
Tetrachloroethene	5.4E-01	(mg/kg-day) $^{-1}$	(1)	5.4E-01	(mg/kg-day) $^{-1}$	B2	CalEPA	01/05/05
Toluene	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Trichloroethene	4.0E-01	(mg/kg-day) $^{-1}$	(1)	4.0E-01	(mg/kg-day) $^{-1}$	C-B2	NCEA	01/05/05
Vinyl chloride	7.5E-01	(mg/kg-day) $^{-1}$	(1)	7.5E-01	(mg/kg-day) $^{-1}$	A	IRIS	01/05/05
Xylene, total	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
2,4-Dichlorophenol	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
2-Methylphenol	N/A	N/A	N/A	N/A	N/A	C	IRIS	01/05/05
Benzo(a)anthracene	7.3E-01	(mg/kg-day) $^{-1}$	(1)	7.3E-01	(mg/kg-day) $^{-1}$	B2	IRIS	01/05/05
Benzo(a)pyrene	7.3E+00	(mg/kg-day) $^{-1}$	(1)	7.3E+00	(mg/kg-day) $^{-1}$	B2	IRIS	01/05/05
Benzo(b)fluoranthene	7.3E-01	(mg/kg-day) $^{-1}$	(1)	7.3E-01	(mg/kg-day) $^{-1}$	B2	IRIS	01/05/05
Bis(2-ethylhexyl)phthalate	1.4E-02	(mg/kg-day) $^{-1}$	(1)	1.4E-02	(mg/kg-day) $^{-1}$	B2	IRIS	01/05/05
Dibenz(a,h)anthracene	7.3E+00	(mg/kg-day) $^{-1}$	(1)	7.3E+00	(mg/kg-day) $^{-1}$	B2	IRIS	01/05/05
Indeno(1,2,3-cd)pyrene	7.3E-01	(mg/kg-day) $^{-1}$	(1)	7.3E-01	(mg/kg-day) $^{-1}$	B2	IRIS	01/05/05
Naphthalene	N/A	N/A	N/A	N/A	N/A	C	IRIS	01/05/05
Pentachlorophenol	1.2E-01	(mg/kg-day) $^{-1}$	(1)	1.2E-01	(mg/kg-day) $^{-1}$	B2	IRIS	01/05/05
Phenanthrene	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05

TABLE 6.1

CANCER TOXICITY DATA -- ORAL/DERMAL

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern	Oral Cancer Slope Factor		Oral Absorption Efficiency for Dermal	Absorbed Cancer Slope Factor for Dermal		Weight of Evidence/ Cancer Guideline Description	Oral CSF	
	Value	Units	(1)	Value (2)	Units		Source(s)	Date(s) (MM/DD/YYYY)
Antimony	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Arsenic [3]	1.5E+00	(mg/kg-day) $^{-1}$	(1)	1.5E+00	(mg/kg-day) $^{-1}$	A	IRIS	01/05/05
Barium	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Beryllium	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Cadmium	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Chromium (III)	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Chromium (VI)	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Copper	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Lead [4]	N/A	N/A	N/A	N/A	N/A	B2	IRIS	01/05/05
Manganese	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Mercury (inorganic)	N/A	N/A	N/A	N/A	N/A	C	IRIS	01/05/05
Mercury (organic)	N/A	N/A	N/A	N/A	N/A	C	IRIS	01/05/05
Nickel	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Selenium	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Thallium	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Vanadium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Zinc	N/A	N/A	N/A	N/A	N/A	D	IRIS	01/05/05

IRIS = Integrated Risk Information System

HEAST = Health Effects Assessment Summary Tables

NCEA = National Center for Environmental Assessment

RME = Reasonable Maximum Exposure

CT = Central Tendency

N/A = Not Applicable

CalEPA = California Environmental Protection Agency

Slope factor for benzo(a)pyrene, along with the appropriate relative potency factor (USEPA, 1993), used for the other carcinogenic PAHs.

EPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen (by the oral route)

E - Evidence of noncarcinogenicity

Weight of evidence for mercury (inorganic) based on mercuric chloride; for mercury (organic), based on methylmercury.

(1) Oral absorption efficiency exceeds 50%. Therefore, no adjustment of the oral slope factor is necessary.

(2) Calculated as: (oral slope factor) / (oral to dermal adjustment factor)

(3) Used for all media and exposures except oral exposures to sediment (see Table 6.3).

(4) See Appendix 6L for lead model calculations.

TABLE 6.2

CANCER TOXICITY DATA -- INHALATION

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern	Unit Risk		Inhalation Cancer Slope Factor		Weight of Evidence/ Cancer Guideline Description	Unit Risk : Inhalation CSF	
	Value	Units	Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
1,1-Dichloroethene	N/A	N/A	N/A	N/A	C	IRIS	01/05/05
1,2,4-Trichlorobenzene	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
1,2-Dichlorobenzene	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
1,2-Dichloroethane	2.60E-05	$ug/m^{3\ -1}$	N/A	N/A	B2	IRIS	01/05/05
1,4-Dichlorobenzene	N/A	N/A	N/A	N/A	C	HEAST	July 1997
2-Butanone	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
4-Methyl-2-Pentanone	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Acetone	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Benzene	7.80E-06	$ug/m^{3\ -1}$	N/A	N/A	A	IRIS	01/05/05
Chlorobenzene	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Chloroethane	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Chloroform	2.30E-05	$ug/m^{3\ -1}$	N/A	N/A	B2	IRIS	01/05/05
cis-1,2-Dichloroethene	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Methyl tert-Butyl Ether	4.5E-08	$(ug/m^3)^{-1}$	N/A	N/A	B2	CalEPA	01/05/05
Tetrachloroethene	5.90E-06	$(ug/m^3)^{-1}$	N/A	N/A	B2	CalEPA	01/05/05
Toluene	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
trans-1,2-Dichloroethen	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Trichloroethene	1.10E-04	$(ug/m^3)^{-1}$	N/A	N/A	C-B2	NCEA	01/05/05
Vinyl Chloride	4.40E-06	$(ug/m^3)^{-1}$	N/A	N/A	A	IRIS	01/05/05
Xylene, total	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
2-Chloronaphthalene	N/A	N/A	N/A	N/A	D	IRIS	01/05/05
Naphthalene	N/A	N/A	N/A	N/A	C	IRIS	01/05/05

IRIS = Integrated Risk Information System

NCEA = National Center for Environmental Assessment

CalEPA = California Environmental Protection Agency

N/A = Not Applicable

EPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen (by the oral route)

E - Evidence of noncarcinogenicity

TABLE 6.3

CANCER TOXICITY DATA -- SPECIAL CASE CHEMICALS

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern	Parameter			Parameter:Target Organ(s)	
	Name	Value	Units	Source(s)	Date(s)
Arsenic	Sediment oral cancer slope factor adjusted for site-specific relative bioavailability	7.7E-01	(mg/kg-day) $^{-1}$	IRIS	01/05/05

TABLE 6.4

CANCER TOXICITY DATA -- EXTERNAL (RADIATION)

INDUSTRI-PLEX SUPERFUND SITE

Chemical of Potential Concern	Cancer Slope Factor		Source(s)	Date(s) (MM/DD/YYYY)
	Value	Units		
	NOT APPLICABLE			

TABLE 7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	HB01-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	2.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.4E-09	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.1E-04
				Antimony	1E+01	ug/L	6.6E-09	mg/kg-day	N/A	N/A	N/A	7.7E-08	mg/kg-day	6.0E-05	mg/kg-day	1.3E-03
				Arsenic	2E+01	ug/L	1.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.6E-04
				Manganese	5E+02	ug/L	2.6E-07	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	2.8E-03	mg/kg-day	1.1E-03
				Thallium	3E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	8.0E-05	mg/kg-day	1.8E-04
				Vanadium	2E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	2.6E-05	mg/kg-day	5.3E-04
			Exp. Route Total								3E-08					4E-03
		Exposure Point Total									3E-08					4E-03
		HB03-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	2.2E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.6E-09	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	8.4E-04
				Arsenic	3E+01	ug/L	1.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-08	1.9E-07	mg/kg-day	3.0E-04	mg/kg-day	6.2E-04
				Chromium	7E+00	ug/L	3.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-08	mg/kg-day	2.0E-02	mg/kg-day	2.0E-06
				Manganese	7E+02	ug/L	3.2E-07	mg/kg-day	N/A	N/A	N/A	3.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.3E-03
				Vanadium	6E+00	ug/L	2.8E-09	mg/kg-day	N/A	N/A	N/A	3.3E-08	mg/kg-day	2.6E-05	mg/kg-day	1.3E-03
			Exp. Route Total								3E-08					4E-03
		Exposure Point Total									3E-08					4E-03
		AR-Baseflow	Dermal													
				Arsenic	3E+01	ug/L	1.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.8E-04
				Manganese	5E+02	ug/L	2.5E-07	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.0E-03
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	HB01/A6	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	7.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.1E-09	8.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	7.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.5E-08	8.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.2E-09	1.3E-07	mg/kg-day	N/A	N/A	N/A
				bis(2-Ethylhexyl)phthalat	4E+01	mg/kg	2.0E-07	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	2.8E-09	2.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.2E-09	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	5.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.7E-09	5.9E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	1E+01	mg/kg	5.7E-08	mg/kg-day	N/A	N/A	N/A	6.7E-07	mg/kg-day	4.0E-04	mg/kg-day	1.7E-03
				Arsenic	3E+02	mg/kg	1.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.3E-06	1.9E-05	mg/kg-day	5.9E-04	mg/kg-day	3.3E-02
				Cadmium	2E+01	mg/kg	9.0E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	1.0E-03	mg/kg-day	1.1E-03
				Copper	1E+03	mg/kg	6.1E-06	mg/kg-day	N/A	N/A	N/A	7.1E-05	mg/kg-day	3.0E-02	mg/kg-day	2.4E-03
				Lead												
				Manganese	2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.0E-04
				Mercury	2E+00	mg/kg	9.3E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-04	mg/kg-day	1.1E-03
				Thallium	9E+00	mg/kg	4.9E-08	mg/kg-day	N/A	N/A	N/A	5.7E-07	mg/kg-day	8.0E-05	mg/kg-day	7.1E-03
				Vanadium	3E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	1.0E-03	mg/kg-day	1.6E-03
				Zinc	6E+03	mg/kg	3.1E-05	mg/kg-day	N/A	N/A	N/A	3.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.2E-03
			Exp. Route Total								1E-06					5E-02

TABLE 7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	1.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-08	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-07	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	2.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-08	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.6E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Arsenic	3E+02	mg/kg	8.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-06	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.5E-02
				Cadmium	2E+01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	2.5E-05	mg/kg-day	7.6E-04
			Exp. Route Total								2E-06					4E-02
		Exposure Point Total									3E-06					8E-02
		HB03	Ingestion													
				Antimony	7E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	4.0E-04	mg/kg-day	1.1E-03
				Arsenic	3E+02	mg/kg	1.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.4E-06	2.1E-05	mg/kg-day	5.9E-04	mg/kg-day	3.5E-02
				Cadmium	1E+01	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	7.1E-07	mg/kg-day	1.0E-03	mg/kg-day	7.1E-04
				Copper	4E+02	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	3.0E-02	mg/kg-day	7.6E-04
				Manganese	2E+03	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.9E-03
				Mercury	1E+00	mg/kg	7.2E-09	mg/kg-day	N/A	N/A	N/A	8.4E-08	mg/kg-day	1.0E-04	mg/kg-day	8.4E-04
				Thallium	4E+00	mg/kg	2.2E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	8.0E-05	mg/kg-day	3.2E-03
				Vanadium	4E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	1.0E-03	mg/kg-day	2.7E-03
				Zinc	2E+03	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	3.0E-01	mg/kg-day	4.4E-04
			Exp. Route Total								1E-06					5E-02
			Dermal													
				Arsenic	3E+02	mg/kg	9.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-06	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.7E-02
				Cadmium	1E+01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	2.5E-05	mg/kg-day	5.1E-04
			Exp. Route Total								1E-06					4E-02
		Exposure Point Total									3E-06					8E-02
		AR	Ingestion													
				Antimony	1E+01	mg/kg	6.2E-08	mg/kg-day	N/A	N/A	N/A	7.2E-07	mg/kg-day	4.0E-04	mg/kg-day	1.8E-03
				Arsenic	6E+02	mg/kg	3.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.6E-06	3.9E-05	mg/kg-day	5.9E-04	mg/kg-day	6.6E-02
				Cadmium	9E+00	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	5.3E-07	mg/kg-day	1.0E-03	mg/kg-day	5.3E-04
				Copper	1E+03	mg/kg	7.2E-06	mg/kg-day	N/A	N/A	N/A	8.4E-05	mg/kg-day	3.0E-02	mg/kg-day	2.8E-03
				Lead												
				Manganese	3E+02	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	7.0E-02	mg/kg-day	3.0E-04
				Mercury	2E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	1.0E-04	mg/kg-day	1.5E-03
				Thallium	3E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	8.0E-05	mg/kg-day	2.5E-03
				Vanadium	5E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	1.0E-03	mg/kg-day	2.9E-03
			Exp. Route Total								3E-06					8E-02

TABLE 7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
			Dermal													
				Arsenic	6E+02	mg/kg	1.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-06	2.1E-05	mg/kg-day	3.0E-04	mg/kg-day	7.0E-02
				Cadmium	9E+00	mg/kg	8.2E-10	mg/kg-day	N/A	N/A	N/A	9.6E-09	mg/kg-day	2.5E-05	mg/kg-day	3.8E-04
			Exp. Route Total								3E-06					7E-02
		Exposure Point Total									5E-06					1E-01
		BE-1	Ingestion													
				Arsenic	3E+01	mg/kg	1.6E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.2E-07	1.8E-06	mg/kg-day	5.9E-04	mg/kg-day	3.1E-03
				Vanadium	3E+01	mg/kg	1.6E-07	mg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
			Exp. Route Total								1E-07					5E-03
			Dermal													
				Arsenic	3E+01	mg/kg	8.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-07	9.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.3E-03
			Exp. Route Total								1E-07					3E-03
		Exposure Point Total									2E-07					8E-03
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	HB01/A6	Ingestion													
				Antimony	5E+01	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	4.0E-04	mg/kg-day	7.9E-03
				Arsenic	6E+02	mg/kg	3.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.8E-06	3.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.2E-01
				Copper	4E+02	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	3.0E-02	mg/kg-day	8.9E-04
				Lead												
				Manganese	2E+02	mg/kg	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	9E+00	mg/kg	5.0E-08	mg/kg-day	N/A	N/A	N/A	5.8E-07	mg/kg-day	1.0E-04	mg/kg-day	5.8E-03
				Thallium	2E+01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	8.0E-05	mg/kg-day	1.6E-02
				Vanadium	2E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-03	mg/kg-day	1.4E-03
				Chromium VI	2E+01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	3.0E-03	mg/kg-day	4.3E-04
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Arsenic	6E+02	mg/kg	1.7E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.6E-06	2.0E-05	mg/kg-day	3.0E-04	mg/kg-day	6.7E-02
			Exp. Route Total								3E-06					7E-02
		Exposure Point Total									7E-06					2E-01
		HB04	Ingestion													
				Arsenic	3E+01	mg/kg	1.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-07	1.6E-06	mg/kg-day	3.0E-04	mg/kg-day	5.5E-03
				Thallium	7E-01	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	8.0E-05	mg/kg-day	5.6E-04
				Vanadium	1E+01	mg/kg	5.9E-08	mg/kg-day	N/A	N/A	N/A	6.9E-07	mg/kg-day	1.0E-03	mg/kg-day	6.9E-04
			Exp. Route Total								2E-07					7E-03
			Dermal													
				Arsenic	3E+01	mg/kg	7.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
			Exp. Route Total								1E-07					3E-03
		Exposure Point Total									3E-07					1E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	HB01-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	5.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.2E-09	1.9E-07	mg/kg-day	3.0E-04	mg/kg-day	6.5E-04
				Antimony	4E+00	ug/L	3.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	6.0E-05	mg/kg-day	1.8E-04
				Arsenic	2E+01	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-09	6.9E-08	mg/kg-day	3.0E-04	mg/kg-day	2.3E-04
				Manganese	5E+02	ug/L	4.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.8E-03	mg/kg-day	5.4E-04
				Thallium	3E+00	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	7.2E-09	mg/kg-day	8.0E-05	mg/kg-day	8.9E-05
				Vanadium	2E+00	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	6.8E-09	mg/kg-day	2.6E-05	mg/kg-day	2.6E-04
			Exp. Route Total								5E-09					2E-03
		Exposure Point Total									5E-09					2E-03
		HB03-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	5.1E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.0E-09	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	5.9E-04
				Arsenic	3E+01	ug/L	2.7E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-09	9.3E-08	mg/kg-day	3.0E-04	mg/kg-day	3.1E-04
				Chromium	7E+00	ug/L	5.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.0E-02	mg/kg-day	1.0E-06
				Manganese	7E+02	ug/L	5.3E-08	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.8E-03	mg/kg-day	6.7E-04
				Vanadium	2E+00	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.7E-09	mg/kg-day	2.6E-05	mg/kg-day	1.8E-04
			Exp. Route Total								6E-09					2E-03
		Exposure Point Total									6E-09					2E-03
		AR-Baseflow	Dermal													
				Arsenic	3E+01	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.1E-09	7.2E-08	mg/kg-day	3.0E-04	mg/kg-day	2.4E-04
				Manganese	5E+02	ug/L	4.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.8E-03	mg/kg-day	5.2E-04
			Exp. Route Total								3E-09					8E-04
		Exposure Point Total									3E-09					8E-04
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	HB01/A6	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.5E-10	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.1E-09	4.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-09	6.6E-08	mg/kg-day	N/A	N/A	N/A
				bis(2-Ethylhexyl)phthalat	4E+01	mg/kg	3.3E-08	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	4.6E-10	1.2E-06	mg/kg-day	2.0E-02	mg/kg-day	5.8E-05
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-09	6.6E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	8.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.1E-10	2.9E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	1E+01	mg/kg	9.6E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	4.0E-04	mg/kg-day	8.4E-04
				Arsenic	3E+02	mg/kg	2.7E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.1E-07	9.6E-06	mg/kg-day	5.9E-04	mg/kg-day	1.6E-02
				Cadmium	2E+01	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.3E-07	mg/kg-day	1.0E-03	mg/kg-day	5.3E-04
				Copper	1E+03	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	3.0E-02	mg/kg-day	1.2E-03
				Lead												
				Manganese	2E+02	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	7.0E-06	mg/kg-day	7.0E-02	mg/kg-day	1.0E-04
				Mercury	2E+00	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.5E-08	mg/kg-day	1.0E-04	mg/kg-day	5.5E-04
				Thallium	2E+00	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	6.0E-08	mg/kg-day	8.0E-05	mg/kg-day	7.5E-04
				Vanadium	3E+01	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	8.2E-07	mg/kg-day	1.0E-03	mg/kg-day	8.2E-04
				Zinc	6E+03	mg/kg	5.1E-06	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	3.0E-01	mg/kg-day	6.0E-04
			Exp. Route Total								2E-07					2E-02

TABLE 7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	5.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.0E-09	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.3E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	8.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.4E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	8.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.4E-09	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	3.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Arsenic	3E+02	mg/kg	3.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.4E-07	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.5E-02
				Cadmium	2E+01	mg/kg	5.4E-10	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	2.5E-05	mg/kg-day	7.6E-04
			Exp. Route Total								5E-07					4E-02
		Exposure Point Total									7E-07					6E-02
		HB03	Ingestion													
				Antimony	7E+00	mg/kg	6.3E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	4.0E-04	mg/kg-day	5.5E-04
				Arsenic	3E+02	mg/kg	2.9E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-07	1.0E-05	mg/kg-day	5.9E-04	mg/kg-day	1.7E-02
				Cadmium	1E+01	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	1.0E-03	mg/kg-day	3.5E-04
				Copper	4E+02	mg/kg	3.2E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	3.0E-02	mg/kg-day	3.8E-04
				Manganese	2E+03	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	6.7E-05	mg/kg-day	7.0E-02	mg/kg-day	9.6E-04
				Mercury	1E+00	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	4.2E-08	mg/kg-day	1.0E-04	mg/kg-day	4.2E-04
				Thallium	4E+00	mg/kg	3.7E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	8.0E-05	mg/kg-day	1.6E-03
				Vanadium	4E+01	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-03	mg/kg-day	1.3E-03
				Zinc	2E+03	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	6.6E-05	mg/kg-day	3.0E-01	mg/kg-day	2.2E-04
			Exp. Route Total								2E-07					2E-02
			Dermal													
				Arsenic	3E+02	mg/kg	3.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.8E-07	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.7E-02
				Cadmium	1E+01	mg/kg	3.6E-10	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	2.5E-05	mg/kg-day	5.1E-04
			Exp. Route Total								5E-07					4E-02
		Exposure Point Total									7E-07					6E-02
		AR	Ingestion													
				Antimony	1E+01	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	4.0E-04	mg/kg-day	9.0E-04
				Arsenic	6E+02	mg/kg	5.6E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.3E-07	1.9E-05	mg/kg-day	5.9E-04	mg/kg-day	3.3E-02
				Cadmium	9E+00	mg/kg	7.6E-09	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-03	mg/kg-day	2.7E-04
				Copper	1E+03	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.2E-05	mg/kg-day	3.0E-02	mg/kg-day	1.4E-03
				Lead												
				Manganese	3E+02	mg/kg	3.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	2E+00	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	7.4E-08	mg/kg-day	1.0E-04	mg/kg-day	7.4E-04
				Thallium	3E+00	mg/kg	2.9E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.2E-03
				Vanadium	5E+01	mg/kg	4.1E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-03	mg/kg-day	1.4E-03
			Exp. Route Total								4E-07					4E-02

TABLE 7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
			Dermal													
				Arsenic	6E+02	mg/kg	6.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.0E-07	2.1E-05	mg/kg-day	3.0E-04	mg/kg-day	7.0E-02
				Cadmium	9E+00	mg/kg	2.7E-10	mg/kg-day	N/A	N/A	N/A	9.6E-09	mg/kg-day	2.5E-05	mg/kg-day	3.8E-04
			Exp. Route Total								9E-07					7E-02
		Exposure Point Total									1E-06					1E-01
		BE-1	Ingestion													
				Arsenic	2E+01	mg/kg	1.9E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.5E-08	6.7E-07	mg/kg-day	5.9E-04	mg/kg-day	1.1E-03
				Vanadium	3E+01	mg/kg	2.6E-08	mg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A	9.3E-07	mg/kg-day	1.0E-03	mg/kg-day	9.3E-04
			Exp. Route Total								1E-08					2E-03
			Dermal													
				Arsenic	2E+01	mg/kg	2.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.1E-08	7.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.4E-03
			Exp. Route Total								3E-08					2E-03
		Exposure Point Total									5E-08					4E-03
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	HB01/A6	Ingestion													
				Antimony	1E+01	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	4.0E-04	mg/kg-day	9.2E-04
				Arsenic	6E+02	mg/kg	5.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.0E-07	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.2E-02
				Copper	4E+02	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-02	mg/kg-day	4.4E-04
				Lead												
				Manganese	2E+02	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	7.0E-02	mg/kg-day	7.4E-05
				Mercury	9E+00	mg/kg	8.3E-09	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	1.0E-04	mg/kg-day	2.9E-03
				Thallium	2E+01	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	6.3E-07	mg/kg-day	8.0E-05	mg/kg-day	7.9E-03
				Vanadium	2E+01	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	7.2E-07	mg/kg-day	1.0E-03	mg/kg-day	7.2E-04
				Chromium VI	2E+01	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	3.0E-03	mg/kg-day	2.1E-04
			Exp. Route Total								8E-07					8E-02
			Dermal													
				Arsenic	6E+02	mg/kg	5.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.7E-07	2.0E-05	mg/kg-day	3.0E-04	mg/kg-day	6.7E-02
			Exp. Route Total								9E-07					7E-02
		Exposure Point Total									2E-06					1E-01
		HB04	Ingestion													
				Arsenic	3E+01	mg/kg	2.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-08	8.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Thallium	7E-01	mg/kg	6.4E-10	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	8.0E-05	mg/kg-day	2.8E-04
				Vanadium	1E+01	mg/kg	9.8E-09	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	1.0E-03	mg/kg-day	3.4E-04
			Exp. Route Total								4E-08					3E-03
			Dermal													
				Arsenic	3E+01	mg/kg	2.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.8E-08	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
			Exp. Route Total								4E-08					3E-03
		Exposure Point Total									7E-08					6E-03
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	SO	Ingestion													
				Benzo(a)anthracene	3E+00	mg/kg	1.4E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.9E-08	3.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	1.8E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-06	5.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	2.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-07	7.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	3.0E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-07	8.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	1.4E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-07	3.9E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.3E-07	mg/kg-day	2.0E-02	mg/kg-day	2.7E-05
				Arsenic	9E+01	mg/kg	3.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.8E-06	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.6E-02
				Manganese	2E+02	mg/kg	6.9E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	7.0E-02	mg/kg-day	2.7E-04
				Mercury	2E+00	mg/kg	8.2E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-04	mg/kg-day	2.3E-03
				Vanadium	2E+01	mg/kg	9.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-03	mg/kg-day	2.6E-03
			Exp. Route Total								8E-06					4E-02
			Dermal													
				Benzo(a)anthracene	3E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.5E-08	3.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	1.6E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-06	4.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	2.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-07	6.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	2.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-07	7.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.7E-08	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	2.0E-02	mg/kg-day	2.3E-05
				Arsenic	9E+01	mg/kg	7.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-06	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	7.1E-03
			Exp. Route Total								3E-06					7E-03
		Exposure Point Total									1E-05					5E-02
		HB04	Ingestion													
				Arsenic	3E+01	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-06	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
				Thallium	7E-01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.4E-08	mg/kg-day	8.0E-05	mg/kg-day	1.0E-03
				Vanadium	1E+01	mg/kg	4.6E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-03	mg/kg-day	1.3E-03
			Exp. Route Total								2E-06					1E-02
			Dermal													
				Arsenic	3E+01	mg/kg	2.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.3E-07	6.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.0E-03
			Exp. Route Total								3E-07					2E-03
		Exposure Point Total									2E-06					1E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	SO	Ingestion													
				Benzo(a)anthracene	3E+00	mg/kg	2.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-08	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	3.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.4E-07	2.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	4.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-08	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	5.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-08	4.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	2.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	3.4E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	2.0E-02	mg/kg-day	1.3E-05
				Arsenic	9E+01	mg/kg	6.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-06	5.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.8E-02
				Manganese	2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	9.6E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Mercury	2E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-04	mg/kg-day	1.1E-03
				Vanadium	2E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-03	mg/kg-day	1.3E-03
			Exp. Route Total								1E-06					2E-02
			Dermal													
				Benzo(a)anthracene	3E+00	mg/kg	2.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-08	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	2.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-07	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-08	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	4.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.4E-08	3.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	2.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	2.0E-02	mg/kg-day	1.1E-05
				Arsenic	9E+01	mg/kg	1.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.6E-03
			Exp. Route Total								5E-07					4E-03
		Exposure Point Total									2E-06					2E-02
		HB04	Ingestion													
				Arsenic	3E+01	mg/kg	2.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.2E-03
				Thallium	7E-01	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	4.2E-08	mg/kg-day	8.0E-05	mg/kg-day	5.2E-04
				Vanadium	1E+01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	6.5E-07	mg/kg-day	1.0E-03	mg/kg-day	6.5E-04
			Exp. Route Total								3E-07					6E-03
			Dermal													
				Arsenic	3E+01	mg/kg	3.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
			Exp. Route Total								6E-08					1E-03
		Exposure Point Total									4E-07					7E-03
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.3.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	SO	Ingestion													
				Benzo(a)anthracene	6E+00	mg/kg	2.7E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-06	3.2E-05	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	8E+00	mg/kg	3.7E-06	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.7E-05	4.3E-05	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	5.2E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.8E-06	6.0E-05	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	6.1E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.5E-06	7.1E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E+00	mg/kg	2.8E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-06	3.3E-05	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	8E+00	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	4.4E-05	mg/kg-day	2.0E-02	mg/kg-day	2.2E-03
				Arsenic	6E+01	mg/kg	2.9E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.3E-05	3.4E-04	mg/kg-day	3.0E-04	mg/kg-day	1.1E+00
				Manganese	2E+02	mg/kg	8.7E-05	mg/kg-day	N/A	N/A	N/A	1.0E-03	mg/kg-day	7.0E-02	mg/kg-day	1.5E-02
				Mercury	2E+00	mg/kg	9.9E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-04	mg/kg-day	1.2E-01
				Vanadium	2E+01	mg/kg	9.9E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	1.0E-03	mg/kg-day	1.2E-01
			Exp. Route Total								8E-05					1E+00
			Dermal													
				Benzo(a)anthracene	6E+00	mg/kg	9.9E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.2E-07	1.2E-05	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	8E+00	mg/kg	1.4E-06	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.9E-06	1.6E-05	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	1.9E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-06	2.2E-05	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	2.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.6E-06	2.6E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E+00	mg/kg	1.0E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.5E-07	1.2E-05	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	8E+00	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	2.0E-02	mg/kg-day	8.1E-04
				Arsenic	6E+01	mg/kg	2.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-06	2.8E-05	mg/kg-day	3.0E-04	mg/kg-day	9.5E-02
			Exp. Route Total								2E-05					1E-01
		Exposure Point Total									1E-04					1E+00
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	SO	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	9.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.1E-08	3.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E+00	mg/kg	1.3E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.7E-07	4.6E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.9E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-07	6.5E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.6E-07	7.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.4E-08	3.6E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	2.0E-02	mg/kg-day	2.4E-04
				Arsenic	6E+01	mg/kg	4.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.2E-06	1.7E-04	mg/kg-day	3.0E-04	mg/kg-day	5.6E-01
				Manganese	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	4.3E-04	mg/kg-day	7.0E-02	mg/kg-day	6.2E-03
				Mercury	5E-01	mg/kg	4.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-04	mg/kg-day	1.5E-02
				Vanadium	2E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	1.0E-03	mg/kg-day	5.8E-02
			Exp. Route Total								9E-06					6E-01
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	7.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.2E-08	2.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E+00	mg/kg	9.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.1E-07	3.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.4E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.9E-08	4.7E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-07	5.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	7.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.4E-08	2.6E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	9.9E-08	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	2.0E-02	mg/kg-day	1.7E-04
				Arsenic	6E+01	mg/kg	8.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-06	2.8E-05	mg/kg-day	3.0E-04	mg/kg-day	9.5E-02
			Exp. Route Total								2E-06					9E-02
		Exposure Point Total									1E-05					7E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water/ Sediment	Fish Fillet Tissue	HBHA	Ingestion													
				Arsenic	2E-01	mg/kg	6.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.8E-06	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.4E-02
				Chromium	5E-01	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	1.5E+00	mg/kg-day	3.3E-05
				Mercury	2E-01	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	1.0E-04	mg/kg-day	1.9E-01
				Selenium	5E-01	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	5.0E-03	mg/kg-day	9.0E-03
				Vanadium	2E-01	mg/kg	5.1E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
			Exp. Route Total								1E-05					3E-01
		Exposure Point Total									1E-05					3E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water/ Sediment	Fish Fillet Tissue	HBHA	Ingestion													
				Arsenic	2E-01	mg/kg	7.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-06	7.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.4E-02
				Chromium	5E-01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	1.5E+00	mg/kg-day	1.3E-05
				Mercury	2E-01	mg/kg	7.1E-07	mg/kg-day	N/A	N/A	N/A	7.1E-06	mg/kg-day	1.0E-04	mg/kg-day	7.1E-02
				Selenium	5E-01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	5.0E-03	mg/kg-day	3.5E-03
				Vanadium	2E-01	mg/kg	5.7E-07	mg/kg-day	N/A	N/A	N/A	5.7E-06	mg/kg-day	1.0E-03	mg/kg-day	5.7E-03
			Exp. Route Total								1E-06					1E-01
		Exposure Point Total									1E-06					1E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.5.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water/ Sediment	Fish Fillet Tissue	HBHA	Ingestion													
				Arsenic	2E-01	mg/kg	3.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-06	4.4E-05	mg/kg-day	3.0E-04	mg/kg-day	1.5E-01
				Chromium	5E-01	mg/kg	9.9E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	1.5E+00	mg/kg-day	7.7E-05
				Mercury	2E-01	mg/kg	3.7E-06	mg/kg-day	N/A	N/A	N/A	4.3E-05	mg/kg-day	1.0E-04	mg/kg-day	4.3E-01
				Selenium	5E-01	mg/kg	9.0E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	5.0E-03	mg/kg-day	2.1E-02
				Vanadium	2E-01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	1.0E-03	mg/kg-day	3.5E-02
			Exp. Route Total								6E-06					6E-01
		Exposure Point Total									6E-06					6E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.5.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water/ Sediment	Fish Fillet Tissue	HBHA	Ingestion													
				Arsenic	2E-01	mg/kg	4.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.3E-07	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.7E-02
				Chromium	5E-01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	1.5E+00	mg/kg-day	3.0E-05
				Mercury	2E-01	mg/kg	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	1.0E-04	mg/kg-day	1.7E-01
				Selenium	5E-01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.0E-05	mg/kg-day	5.0E-03	mg/kg-day	8.1E-03
				Vanadium	2E-01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
			Exp. Route Total								7E-07					2E-01
		Exposure Point Total									7E-07					2E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.6.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	HB01-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	8.0E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	3.2E-08	9.4E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Antimony	1E+01	ug/L	3.3E-08	mg/kg-day	N/A	N/A	N/A	3.9E-07	mg/kg-day	6.0E-05	mg/kg-day	6.4E-03
				Arsenic	2E+01	ug/L	5.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.9E-08	6.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
				Manganese	5E+02	ug/L	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.8E-03	mg/kg-day	5.4E-03
				Thallium	3E+00	ug/L	6.1E-09	mg/kg-day	N/A	N/A	N/A	7.2E-08	mg/kg-day	8.0E-05	mg/kg-day	8.9E-04
				Vanadium	2E+00	ug/L	5.9E-09	mg/kg-day	N/A	N/A	N/A	6.8E-08	mg/kg-day	2.6E-05	mg/kg-day	2.6E-03
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									1E-07					2E-02
		HB01-Storm Event	Dermal													
				Arsenic	5E+01	ug/L	1.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.0E-03
				Cadmium	1E+00	ug/L	2.8E-09	mg/kg-day	N/A	N/A	N/A	3.3E-08	mg/kg-day	2.5E-05	mg/kg-day	1.3E-03
				Manganese	4E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	2.8E-03	mg/kg-day	4.4E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									2E-07					1E-02
		HB02-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	7.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	3.0E-08	8.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.9E-03
				Antimony	3E+01	ug/L	8.0E-08	mg/kg-day	N/A	N/A	N/A	9.3E-07	mg/kg-day	6.0E-05	mg/kg-day	1.6E-02
				Chromium	7E+00	ug/L	1.7E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	2.0E-02	mg/kg-day	1.0E-05
				Manganese	7E+02	ug/L	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	2.8E-03	mg/kg-day	6.7E-03
				Vanadium	6E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.6E-05	mg/kg-day	6.4E-03
			Exp. Route Total								3E-08					3E-02
		Exposure Point Total									3E-08					3E-02
		HB02-Storm Event	Dermal													
				bis(2-Ethylhexyl)phthalat	1E+02	ug/L	4.1E-05	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	5.7E-07	4.7E-04	mg/kg-day	2.0E-02	mg/kg-day	2.4E-02
				Antimony	2E+00	ug/L	5.1E-09	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	6.0E-05	mg/kg-day	9.9E-04
				Arsenic	3E+01	ug/L	8.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	9.4E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Manganese	4E+02	ug/L	9.2E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	2.8E-03	mg/kg-day	3.8E-03
				Thallium	2E+00	ug/L	5.7E-09	mg/kg-day	N/A	N/A	N/A	6.6E-08	mg/kg-day	8.0E-05	mg/kg-day	8.3E-04
			Exp. Route Total								7E-07					3E-02
		Exposure Point Total									7E-07					3E-02
		HB03-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	7.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	3.0E-08	8.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.9E-03
				Arsenic	3E+01	ug/L	8.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	9.3E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Chromium	7E+00	ug/L	1.7E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	2.0E-02	mg/kg-day	1.0E-05
				Manganese	7E+02	ug/L	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	2.8E-03	mg/kg-day	6.7E-03
				Vanadium	6E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.6E-05	mg/kg-day	6.4E-03
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									1E-07					2E-02

TABLE 7.6.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		HB03-Storm Event	Dermal													
				bis(2-Ethylhexyl)phthalat	1E+02	ug/L	4.1E-05	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	5.7E-07	4.7E-04	mg/kg-day	2.0E-02	mg/kg-day	2.4E-02
				Antimony	2E+00	ug/L	5.1E-09	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	6.0E-05	mg/kg-day	9.9E-04
				Arsenic	3E+01	ug/L	8.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	9.4E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Manganese	4E+02	ug/L	9.2E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	2.8E-03	mg/kg-day	3.8E-03
				Thallium	2E+00	ug/L	5.7E-09	mg/kg-day	N/A	N/A	N/A	6.6E-08	mg/kg-day	8.0E-05	mg/kg-day	8.3E-04
			Exp. Route Total								7E-07					3E-02
		Exposure Point Total									7E-07					3E-02
		AR-Baseflow	Dermal													
				Arsenic	3E+01	ug/L	6.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.2E-08	7.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.4E-03
				Manganese	5E+02	ug/L	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.8E-03	mg/kg-day	5.2E-03
			Exp. Route Total								9E-08					8E-03
		Exposure Point Total									9E-08					8E-03
		AR-Storm Event	Dermal													
				Arsenic	2E+01	ug/L	5.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.7E-08	6.0E-07	mg/kg-day	3.0E-04	mg/kg-day	2.0E-03
				Manganese	2E+02	ug/L	4.7E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.8E-03	mg/kg-day	1.9E-03
			Exp. Route Total								8E-08					4E-03
		Exposure Point Total									8E-08					4E-03
		BE-2-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	8.0E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	3.2E-08	9.4E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Antimony	1E+01	ug/L	3.3E-08	mg/kg-day	N/A	N/A	N/A	3.9E-07	mg/kg-day	6.0E-05	mg/kg-day	6.4E-03
				Arsenic	2E+01	ug/L	5.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.9E-08	6.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
				Manganese	5E+02	ug/L	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.8E-03	mg/kg-day	5.4E-03
				Thallium	3E+00	ug/L	6.1E-09	mg/kg-day	N/A	N/A	N/A	7.2E-08	mg/kg-day	8.0E-05	mg/kg-day	8.9E-04
				Vanadium	2E+00	ug/L	5.9E-09	mg/kg-day	N/A	N/A	N/A	6.8E-08	mg/kg-day	2.6E-05	mg/kg-day	2.6E-03
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									1E-07					2E-02
		BE-2-Storm Event	Dermal													
				Arsenic	5E+01	ug/L	1.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.0E-03
				Cadmium	1E+00	ug/L	2.8E-09	mg/kg-day	N/A	N/A	N/A	3.3E-08	mg/kg-day	2.5E-05	mg/kg-day	1.3E-03
				Manganese	4E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	2.8E-03	mg/kg-day	4.4E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									2E-07					1E-02
	Exposure Medium Total										N/A					N/A

TABLE 7.6.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment	Sediment	HB01/A6	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.5E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.1E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	2.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-08	2.6E-07	mg/kg-day	N/A	N/A	N/A
				bis(2-Ethylhexyl)phthalat	4E+01	mg/kg	4.0E-07	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	5.5E-09	4.6E-06	mg/kg-day	2.0E-02	mg/kg-day	2.3E-04
				Dibenz(a,h)anthracene	2E-01	mg/kg	2.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.6E-08	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	1.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.4E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Antimony	1E+01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	4.0E-04	mg/kg-day	3.3E-03
				Arsenic	3E+02	mg/kg	3.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.5E-06	3.8E-05	mg/kg-day	5.9E-04	mg/kg-day	6.5E-02
				Cadmium	2E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	1.0E-03	mg/kg-day	2.1E-03
				Copper	1E+03	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-02	mg/kg-day	4.8E-03
				Lead												
				Manganese	2E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	7.0E-02	mg/kg-day	4.0E-04
				Mercury	2E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-04	mg/kg-day	2.2E-03
				Thallium	9E+00	mg/kg	9.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	8.0E-05	mg/kg-day	1.4E-02
				Vanadium	3E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	1.0E-03	mg/kg-day	3.3E-03
				Zinc	6E+03	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	7.2E-04	mg/kg-day	3.0E-01	mg/kg-day	2.4E-03
			Exp. Route Total								3E-06					1E-01
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	3.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-08	3.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	3.5E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.6E-07	4.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	5.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.8E-08	6.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	5.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.8E-08	6.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	2.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-08	2.7E-07	mg/kg-day	N/A	N/A	N/A
				Arsenic	3E+02	mg/kg	1.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-06	2.1E-05	mg/kg-day	3.0E-04	mg/kg-day	6.9E-02
				Cadmium	2E+01	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	2.5E-05	mg/kg-day	1.5E-03
			Exp. Route Total								3E-06					7E-02
		Exposure Point Total									6E-06					2E-01
		HB02/HB04	Ingestion													
				Antimony	9E+00	mg/kg	9.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	4.0E-04	mg/kg-day	2.8E-03
				Arsenic	8E+02	mg/kg	8.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.4E-06	9.8E-05	mg/kg-day	5.9E-04	mg/kg-day	1.7E-01
				Cadmium	2E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.0E-03	mg/kg-day	2.2E-03
				Copper	5E+02	mg/kg	5.1E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-02	mg/kg-day	2.0E-03
				Lead												
				Manganese	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	7.0E-02	mg/kg-day	2.7E-03
				Mercury	1E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	1.0E-04	mg/kg-day	1.2E-03
				Thallium	1E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	8.0E-05	mg/kg-day	2.3E-02
				Vanadium	5E+01	mg/kg	5.8E-07	mg/kg-day	N/A	N/A	N/A	6.7E-06	mg/kg-day	1.0E-03	mg/kg-day	6.7E-03
				Zinc	4E+03	mg/kg	4.7E-05	mg/kg-day	N/A	N/A	N/A	5.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.8E-03
			Exp. Route Total								6E-06					2E-01

TABLE 7.6.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
			Dermal													
				Arsenic	8E+02	mg/kg	4.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-06	5.3E-05	mg/kg-day	3.0E-04	mg/kg-day	1.8E-01
				Cadmium	2E+01	mg/kg	3.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-08	mg/kg-day	2.5E-05	mg/kg-day	1.6E-03
			Exp. Route Total								7E-06					2E-01
		Exposure Point Total									1E-05					4E-01
		HB03	Ingestion													
				Antimony	7E+00	mg/kg	7.5E-08	mg/kg-day	N/A	N/A	N/A	8.8E-07	mg/kg-day	4.0E-04	mg/kg-day	2.2E-03
				Arsenic	3E+02	mg/kg	3.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.7E-06	4.1E-05	mg/kg-day	5.9E-04	mg/kg-day	7.0E-02
				Cadmium	1E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-03	mg/kg-day	1.4E-03
				Copper	4E+02	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	3.0E-02	mg/kg-day	1.5E-03
				Manganese	2E+03	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	7.0E-02	mg/kg-day	3.8E-03
				Mercury	1E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	1.0E-04	mg/kg-day	1.7E-03
				Thallium	4E+00	mg/kg	4.4E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	8.0E-05	mg/kg-day	6.5E-03
				Vanadium	4E+01	mg/kg	4.6E-07	mg/kg-day	N/A	N/A	N/A	5.4E-06	mg/kg-day	1.0E-03	mg/kg-day	5.4E-03
				Zinc	2E+03	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-01	mg/kg-day	8.8E-04
			Exp. Route Total								3E-06					9E-02
			Dermal													
				Arsenic	3E+02	mg/kg	1.9E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.9E-06	2.2E-05	mg/kg-day	3.0E-04	mg/kg-day	7.4E-02
				Cadmium	1E+01	mg/kg	2.2E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	2.5E-05	mg/kg-day	1.0E-03
			Exp. Route Total								3E-06					7E-02
		Exposure Point Total									6E-06					2E-01
		AR	Ingestion													
				Antimony	1E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	4.0E-04	mg/kg-day	3.6E-03
				Arsenic	6E+02	mg/kg	6.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.1E-06	7.8E-05	mg/kg-day	5.9E-04	mg/kg-day	1.3E-01
				Cadmium	9E+00	mg/kg	9.2E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	1.0E-03	mg/kg-day	1.1E-03
				Copper	1E+03	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	3.0E-02	mg/kg-day	5.6E-03
				Lead												
				Manganese	3E+02	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	4.2E-05	mg/kg-day	7.0E-02	mg/kg-day	6.0E-04
				Mercury	2E+00	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	1.0E-04	mg/kg-day	2.9E-03
				Thallium	3E+00	mg/kg	3.4E-08	mg/kg-day	N/A	N/A	N/A	4.0E-07	mg/kg-day	8.0E-05	mg/kg-day	5.0E-03
				Vanadium	5E+01	mg/kg	4.9E-07	mg/kg-day	N/A	N/A	N/A	5.7E-06	mg/kg-day	1.0E-03	mg/kg-day	5.7E-03
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Arsenic	6E+02	mg/kg	3.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.4E-06	4.2E-05	mg/kg-day	3.0E-04	mg/kg-day	1.4E-01
				Cadmium	9E+00	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	2.5E-05	mg/kg-day	7.7E-04
			Exp. Route Total								5E-06					1E-01
		Exposure Point Total									1E-05					3E-01

TABLE 7.6.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		BE-1	Ingestion													
				Arsenic	7E+01	mg/kg	7.3E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.6E-07	8.5E-06	mg/kg-day	5.9E-04	mg/kg-day	1.4E-02
				Manganese	7E+02	mg/kg	7.4E-06	mg/kg-day	N/A	N/A	N/A	8.6E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Thallium	1E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	8.0E-05	mg/kg-day	2.2E-03
				Vanadium	6E+01	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	7.2E-06	mg/kg-day	1.0E-03	mg/kg-day	7.2E-03
			Exp. Route Total								6E-07					3E-02
			Dermal													
				Arsenic	7E+01	mg/kg	4.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-07	4.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
			Exp. Route Total								6E-07					2E-02
		Exposure Point Total									1E-06					4E-02
		BE-2	Ingestion													
				Arsenic	4E+02	mg/kg	3.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.9E-06	4.4E-05	mg/kg-day	5.9E-04	mg/kg-day	7.5E-02
				Cadmium	5E+00	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	5.9E-07	mg/kg-day	1.0E-03	mg/kg-day	5.9E-04
				Manganese	6E+02	mg/kg	6.7E-06	mg/kg-day	N/A	N/A	N/A	7.9E-05	mg/kg-day	7.0E-02	mg/kg-day	1.1E-03
				Thallium	3E+00	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	8.0E-05	mg/kg-day	4.2E-03
				Vanadium	8E+01	mg/kg	8.2E-07	mg/kg-day	N/A	N/A	N/A	9.6E-06	mg/kg-day	1.0E-03	mg/kg-day	9.6E-03
				Zinc	3E+03	mg/kg	3.4E-05	mg/kg-day	N/A	N/A	N/A	4.0E-04	mg/kg-day	3.0E-01	mg/kg-day	1.3E-03
			Exp. Route Total								3E-06					9E-02
			Dermal													
				Arsenic	4E+02	mg/kg	2.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.1E-06	2.4E-05	mg/kg-day	3.0E-04	mg/kg-day	8.0E-02
				Cadmium	5E+00	mg/kg	9.2E-10	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.5E-05	mg/kg-day	4.3E-04
			Exp. Route Total								3E-06					8E-02
		Exposure Point Total									6E-06					2E-01
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	HB01/A6	Ingestion													
				Antimony	5E+01	mg/kg	5.4E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	4.0E-04	mg/kg-day	1.6E-02
				Arsenic	6E+02	mg/kg	6.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.6E-06	7.5E-05	mg/kg-day	3.0E-04	mg/kg-day	2.5E-01
				Copper	4E+02	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	3.0E-02	mg/kg-day	1.8E-03
				Lead												
				Manganese	2E+02	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	7.0E-02	mg/kg-day	3.0E-04
				Mercury	9E+00	mg/kg	9.9E-08	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-04	mg/kg-day	1.2E-02
				Thallium	2E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.5E-06	mg/kg-day	8.0E-05	mg/kg-day	3.2E-02
				Vanadium	2E+01	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	1.0E-03	mg/kg-day	2.9E-03
				Chromium VI	2E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	3.0E-03	mg/kg-day	8.5E-04
			Exp. Route Total								1E-05					3E-01
			Dermal													
				Arsenic	6E+02	mg/kg	3.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.2E-06	4.0E-05	mg/kg-day	3.0E-04	mg/kg-day	1.3E-01
			Exp. Route Total								5E-06					1E-01
		Exposure Point Total									1E-05					4E-01

TABLE 7.6.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		HB02/HB04	Ingestion													
				Arsenic	3E+01	mg/kg	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.2E-07	3.3E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Thallium	7E-01	mg/kg	7.6E-09	mg/kg-day	N/A	N/A	N/A	8.9E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	1E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-03	mg/kg-day	1.4E-03
			Exp. Route Total								4E-07					1E-02
			Dermal													
				Arsenic	3E+01	mg/kg	1.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	5.9E-03
			Exp. Route Total								2E-07					6E-03
		Exposure Point Total									7E-07					2E-02
	Exposure Medium Total										N/A					N/A
	Subsurface Soil	HB01/A6	Ingestion													
				Antimony	3E+01	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	4.0E-04	mg/kg-day	9.7E-03
				Arsenic	7E+02	mg/kg	8.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-05	9.3E-05	mg/kg-day	3.0E-04	mg/kg-day	3.1E-01
				Copper	6E+02	mg/kg	6.1E-06	mg/kg-day	N/A	N/A	N/A	7.1E-05	mg/kg-day	3.0E-02	mg/kg-day	2.4E-03
				Lead												
				Manganese	1E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.0E-04
				Mercury	1E+01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-04	mg/kg-day	1.3E-02
				Thallium	3E+01	mg/kg	3.0E-07	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	8.0E-05	mg/kg-day	4.3E-02
				Vanadium	2E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	1.0E-03	mg/kg-day	2.4E-03
				Chromium VI	2E+01	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	3.0E-03	mg/kg-day	9.6E-04
			Exp. Route Total								1E-05					4E-01
			Dermal													
				Arsenic	7E+02	mg/kg	4.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-06	5.0E-05	mg/kg-day	3.0E-04	mg/kg-day	1.7E-01
			Exp. Route Total								6E-06					2E-01
		Exposure Point Total									2E-05					5E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.6.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Surface Water	HB01-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	5.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.2E-09	1.9E-07	mg/kg-day	3.0E-04	mg/kg-day	6.5E-04
				Antimony	4E+00	ug/L	3.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	6.0E-05	mg/kg-day	1.8E-04
				Arsenic	2E+01	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-09	6.9E-08	mg/kg-day	3.0E-04	mg/kg-day	2.3E-04
				Manganese	5E+02	ug/L	4.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.8E-03	mg/kg-day	5.4E-04
				Thallium	3E+00	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	7.2E-09	mg/kg-day	8.0E-05	mg/kg-day	8.9E-05
				Vanadium	2E+00	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	6.8E-09	mg/kg-day	2.6E-05	mg/kg-day	2.6E-04
			Exp. Route Total								5E-09					2E-03
		Exposure Point Total									5E-09					2E-03
		HB01-Storm Event	Dermal													
				Arsenic	5E+01	ug/L	4.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-09	1.5E-07	mg/kg-day	3.0E-04	mg/kg-day	5.0E-04
				Cadmium	1E+00	ug/L	9.5E-11	mg/kg-day	N/A	N/A	N/A	3.3E-09	mg/kg-day	2.5E-05	mg/kg-day	1.3E-04
				Manganese	4E+02	ug/L	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	2.8E-03	mg/kg-day	4.4E-04
			Exp. Route Total								6E-09					1E-03
		Exposure Point Total									6E-09					1E-03
		HB02-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	5.1E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.0E-09	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	5.9E-04
				Antimony	3E+01	ug/L	2.7E-09	mg/kg-day	N/A	N/A	N/A	9.3E-08	mg/kg-day	6.0E-05	mg/kg-day	1.6E-03
				Chromium	7E+00	ug/L	5.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.0E-02	mg/kg-day	1.0E-06
				Manganese	7E+02	ug/L	5.3E-08	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.8E-03	mg/kg-day	6.7E-04
				Vanadium	2E+00	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.7E-09	mg/kg-day	2.6E-05	mg/kg-day	1.8E-04
			Exp. Route Total								2E-09					3E-03
		Exposure Point Total									2E-09					3E-03
		HB02-Storm Event	Dermal													
				bis(2-Ethylhexyl)phthalat	2E+01	ug/L	6.2E-07	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	8.6E-09	2.2E-05	mg/kg-day	2.0E-02	mg/kg-day	1.1E-03
				Antimony	2E+00	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	6.0E-05	mg/kg-day	9.9E-05
				Arsenic	3E+01	ug/L	2.7E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-09	9.4E-08	mg/kg-day	3.0E-04	mg/kg-day	3.1E-04
				Manganese	4E+02	ug/L	3.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.8E-03	mg/kg-day	3.8E-04
				Thallium	2E+00	ug/L	1.9E-10	mg/kg-day	N/A	N/A	N/A	6.6E-09	mg/kg-day	8.0E-05	mg/kg-day	8.3E-05
			Exp. Route Total								1E-08					2E-03
		Exposure Point Total									1E-08					2E-03
		HB03-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	5.1E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.0E-09	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	5.9E-04
				Arsenic	3E+01	ug/L	2.7E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-09	9.3E-08	mg/kg-day	3.0E-04	mg/kg-day	3.1E-04
				Chromium	7E+00	ug/L	5.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.0E-02	mg/kg-day	1.0E-06
				Manganese	7E+02	ug/L	5.3E-08	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.8E-03	mg/kg-day	6.7E-04
				Vanadium	2E+00	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.7E-09	mg/kg-day	2.6E-05	mg/kg-day	1.8E-04
			Exp. Route Total								6E-09					2E-03
		Exposure Point Total									6E-09					2E-03

TABLE 7.6.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		HB03-Storm Event	Dermal													
				bis(2-Ethylhexyl)phthalat	2E+01	ug/L	6.2E-07	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	8.6E-09	2.2E-05	mg/kg-day	2.0E-02	mg/kg-day	1.1E-03
				Antimony	2E+00	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	6.0E-05	mg/kg-day	9.9E-05
				Arsenic	3E+01	ug/L	2.7E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-09	9.4E-08	mg/kg-day	3.0E-04	mg/kg-day	3.1E-04
				Manganese	4E+02	ug/L	3.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.8E-03	mg/kg-day	3.8E-04
				Thallium	2E+00	ug/L	1.9E-10	mg/kg-day	N/A	N/A	N/A	6.6E-09	mg/kg-day	8.0E-05	mg/kg-day	8.3E-05
			Exp. Route Total								1E-08					2E-03
		Exposure Point Total									1E-08					2E-03
		AR-Baseflow	Dermal													
				Arsenic	3E+01	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.1E-09	7.2E-08	mg/kg-day	3.0E-04	mg/kg-day	2.4E-04
				Manganese	5E+02	ug/L	4.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.8E-03	mg/kg-day	5.2E-04
			Exp. Route Total								3E-09					8E-04
		Exposure Point Total									3E-09					8E-04
		AR-Storm Event	Dermal													
				Arsenic	2E+01	ug/L	1.7E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.6E-09	6.0E-08	mg/kg-day	3.0E-04	mg/kg-day	2.0E-04
				Manganese	2E+02	ug/L	1.6E-08	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	2.8E-03	mg/kg-day	1.9E-04
			Exp. Route Total								3E-09					4E-04
		Exposure Point Total									3E-09					4E-04
		BE-2-Baseflow	Dermal													
				Trichloroethene	2E+00	ug/L	5.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.2E-09	1.9E-07	mg/kg-day	3.0E-04	mg/kg-day	6.5E-04
				Antimony	4E+00	ug/L	3.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	6.0E-05	mg/kg-day	1.8E-04
				Arsenic	2E+01	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-09	6.9E-08	mg/kg-day	3.0E-04	mg/kg-day	2.3E-04
				Manganese	5E+02	ug/L	4.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.8E-03	mg/kg-day	5.4E-04
				Thallium	3E+00	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	7.2E-09	mg/kg-day	8.0E-05	mg/kg-day	8.9E-05
				Vanadium	2E+00	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	6.8E-09	mg/kg-day	2.6E-05	mg/kg-day	2.6E-04
			Exp. Route Total								5E-09					2E-03
		Exposure Point Total									5E-09					2E-03
		BE-2-Storm Event	Dermal													
				Arsenic	5E+01	ug/L	4.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-09	1.5E-07	mg/kg-day	3.0E-04	mg/kg-day	5.0E-04
				Cadmium	1E+00	ug/L	9.5E-11	mg/kg-day	N/A	N/A	N/A	3.3E-09	mg/kg-day	2.5E-05	mg/kg-day	1.3E-04
				Manganese	4E+02	ug/L	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	2.8E-03	mg/kg-day	4.4E-04
			Exp. Route Total								6E-09					1E-03
		Exposure Point Total									6E-09					1E-03
	Exposure Medium Total										N/A					N/A

TABLE 7.6.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment	Sediment	HB01/A6	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.5E-10	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.1E-09	4.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-09	6.6E-08	mg/kg-day	N/A	N/A	N/A
				bis(2-Ethylhexyl)phthalat	4E+01	mg/kg	3.3E-08	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	4.6E-10	1.2E-06	mg/kg-day	2.0E-02	mg/kg-day	5.8E-05
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-09	6.6E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	8.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.1E-10	2.9E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	1E+01	mg/kg	9.6E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	4.0E-04	mg/kg-day	8.4E-04
				Arsenic	3E+02	mg/kg	2.7E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.1E-07	9.6E-06	mg/kg-day	5.9E-04	mg/kg-day	1.6E-02
				Cadmium	2E+01	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.3E-07	mg/kg-day	1.0E-03	mg/kg-day	5.3E-04
				Copper	1E+03	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	3.0E-02	mg/kg-day	1.2E-03
				Lead												
				Manganese	2E+02	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	7.0E-06	mg/kg-day	7.0E-02	mg/kg-day	1.0E-04
				Mercury	2E+00	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.5E-08	mg/kg-day	1.0E-04	mg/kg-day	5.5E-04
				Thallium	2E+00	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	6.0E-08	mg/kg-day	8.0E-05	mg/kg-day	7.5E-04
				Vanadium	3E+01	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	8.2E-07	mg/kg-day	1.0E-03	mg/kg-day	8.2E-04
				Zinc	6E+03	mg/kg	5.1E-06	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	3.0E-01	mg/kg-day	6.0E-04
			Exp. Route Total								2E-07					2E-02
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	5.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.0E-09	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.3E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	8.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.4E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	8.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.4E-09	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	3.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Arsenic	3E+02	mg/kg	3.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.4E-07	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.5E-02
				Cadmium	2E+01	mg/kg	5.4E-10	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	2.5E-05	mg/kg-day	7.6E-04
			Exp. Route Total								5E-07					4E-02
		Exposure Point Total									7E-07					6E-02
		HB02/HB04	Ingestion													
				Antimony	9E+00	mg/kg	8.1E-09	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	4.0E-04	mg/kg-day	7.1E-04
				Arsenic	8E+02	mg/kg	7.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.4E-07	2.4E-05	mg/kg-day	5.9E-04	mg/kg-day	4.1E-02
				Cadmium	2E+01	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	1.0E-03	mg/kg-day	5.6E-04
				Copper	5E+02	mg/kg	4.3E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-02	mg/kg-day	5.0E-04
				Lead												
				Manganese	2E+03	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	7.0E-02	mg/kg-day	6.8E-04
				Mercury	1E+00	mg/kg	8.5E-10	mg/kg-day	N/A	N/A	N/A	3.0E-08	mg/kg-day	1.0E-04	mg/kg-day	3.0E-04
				Thallium	1E+01	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	8.0E-05	mg/kg-day	5.8E-03
				Vanadium	5E+01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-03	mg/kg-day	1.7E-03
				Zinc	4E+03	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.6E-04
			Exp. Route Total								5E-07					5E-02

TABLE 7.6.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
			Dermal													
				Arsenic	8E+02	mg/kg	7.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-06	2.6E-05	mg/kg-day	3.0E-04	mg/kg-day	8.8E-02
				Cadmium	2E+01	mg/kg	5.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.5E-05	mg/kg-day	8.0E-04
			Exp. Route Total								1E-06					9E-02
		Exposure Point Total									2E-06					1E-01
		HB03	Ingestion													
				Antimony	7E+00	mg/kg	6.3E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	4.0E-04	mg/kg-day	5.5E-04
				Arsenic	3E+02	mg/kg	2.9E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-07	1.0E-05	mg/kg-day	5.9E-04	mg/kg-day	1.7E-02
				Cadmium	1E+01	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	1.0E-03	mg/kg-day	3.5E-04
				Copper	4E+02	mg/kg	3.2E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	3.0E-02	mg/kg-day	3.8E-04
				Manganese	2E+03	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	6.7E-05	mg/kg-day	7.0E-02	mg/kg-day	9.6E-04
				Mercury	1E+00	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	4.2E-08	mg/kg-day	1.0E-04	mg/kg-day	4.2E-04
				Thallium	4E+00	mg/kg	3.7E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	8.0E-05	mg/kg-day	1.6E-03
				Vanadium	4E+01	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-03	mg/kg-day	1.3E-03
				Zinc	2E+03	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	6.6E-05	mg/kg-day	3.0E-01	mg/kg-day	2.2E-04
			Exp. Route Total								2E-07					2E-02
			Dermal													
				Arsenic	3E+02	mg/kg	3.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.8E-07	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.7E-02
				Cadmium	1E+01	mg/kg	3.6E-10	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	2.5E-05	mg/kg-day	5.1E-04
			Exp. Route Total								5E-07					4E-02
		Exposure Point Total									7E-07					6E-02
		AR	Ingestion													
				Antimony	1E+01	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	4.0E-04	mg/kg-day	9.0E-04
				Arsenic	6E+02	mg/kg	5.6E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.3E-07	1.9E-05	mg/kg-day	5.9E-04	mg/kg-day	3.3E-02
				Cadmium	9E+00	mg/kg	7.6E-09	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-03	mg/kg-day	2.7E-04
				Copper	1E+03	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.2E-05	mg/kg-day	3.0E-02	mg/kg-day	1.4E-03
				Lead												
				Manganese	3E+02	mg/kg	3.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	2E+00	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	7.4E-08	mg/kg-day	1.0E-04	mg/kg-day	7.4E-04
				Thallium	3E+00	mg/kg	2.9E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.2E-03
				Vanadium	5E+01	mg/kg	4.1E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-03	mg/kg-day	1.4E-03
			Exp. Route Total								4E-07					4E-02
			Dermal													
				Arsenic	6E+02	mg/kg	6.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.0E-07	2.1E-05	mg/kg-day	3.0E-04	mg/kg-day	7.0E-02
				Cadmium	9E+00	mg/kg	2.7E-10	mg/kg-day	N/A	N/A	N/A	9.6E-09	mg/kg-day	2.5E-05	mg/kg-day	3.8E-04
			Exp. Route Total								9E-07					7E-02
		Exposure Point Total									1E-06					1E-01

TABLE 7.6.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		BE-1	Ingestion													
				Arsenic	7E+01	mg/kg	6.1E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.7E-08	2.1E-06	mg/kg-day	5.9E-04	mg/kg-day	3.6E-03
				Manganese	3E+02	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	8.9E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Thallium	1E+00	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	4.5E-08	mg/kg-day	8.0E-05	mg/kg-day	5.6E-04
				Vanadium	6E+01	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
			Exp. Route Total								5E-08					6E-03
			Dermal													
				Arsenic	7E+01	mg/kg	6.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.9E-08	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	7.7E-03
			Exp. Route Total								1E-07					8E-03
		Exposure Point Total									1E-07					1E-02
		BE-2	Ingestion													
				Arsenic	4E+02	mg/kg	3.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.4E-07	1.1E-05	mg/kg-day	5.9E-04	mg/kg-day	1.9E-02
				Cadmium	5E+00	mg/kg	4.2E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	1.0E-03	mg/kg-day	1.5E-04
				Manganese	6E+02	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	7.0E-02	mg/kg-day	2.8E-04
				Thallium	2E+00	mg/kg	1.4E-09	mg/kg-day	N/A	N/A	N/A	5.1E-08	mg/kg-day	8.0E-05	mg/kg-day	6.3E-04
				Vanadium	8E+01	mg/kg	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	1.0E-03	mg/kg-day	2.4E-03
				Zinc	1E+03	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	4.0E-05	mg/kg-day	3.0E-01	mg/kg-day	1.3E-04
			Exp. Route Total								2E-07					2E-02
			Dermal													
				Arsenic	4E+02	mg/kg	3.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.1E-07	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	4.0E-02
				Cadmium	5E+00	mg/kg	1.5E-10	mg/kg-day	N/A	N/A	N/A	5.4E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04
			Exp. Route Total								5E-07					4E-02
		Exposure Point Total									8E-07					6E-02
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	HB01/A6	Ingestion													
				Antimony	1E+01	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	4.0E-04	mg/kg-day	9.2E-04
				Arsenic	6E+02	mg/kg	5.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.0E-07	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.2E-02
				Copper	4E+02	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-02	mg/kg-day	4.4E-04
				Lead												
				Manganese	2E+02	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	7.0E-02	mg/kg-day	7.4E-05
				Mercury	9E+00	mg/kg	8.3E-09	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	1.0E-04	mg/kg-day	2.9E-03
				Thallium	2E+01	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	6.3E-07	mg/kg-day	8.0E-05	mg/kg-day	7.9E-03
				Vanadium	2E+01	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	7.2E-07	mg/kg-day	1.0E-03	mg/kg-day	7.2E-04
				Chromium VI	2E+01	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	3.0E-03	mg/kg-day	2.1E-04
			Exp. Route Total								8E-07					8E-02
			Dermal													
				Arsenic	6E+02	mg/kg	5.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.7E-07	2.0E-05	mg/kg-day	3.0E-04	mg/kg-day	6.7E-02
			Exp. Route Total								9E-07					7E-02
		Exposure Point Total									2E-06					1E-01

TABLE 7.6.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		HB02/HB04	Ingestion													
				Arsenic	3E+01	mg/kg	2.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-08	8.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Thallium	7E-01	mg/kg	6.4E-10	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	8.0E-05	mg/kg-day	2.8E-04
				Vanadium	1E+01	mg/kg	9.8E-09	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	1.0E-03	mg/kg-day	3.4E-04
			Exp. Route Total								4E-08					3E-03
			Dermal													
				Arsenic	3E+01	mg/kg	2.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.8E-08	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
			Exp. Route Total								4E-08					3E-03
		Exposure Point Total									7E-08					6E-03
	Exposure Medium Total										N/A					N/A
	Subsurface Soil	HB01/A6	Ingestion													
				Antimony	9E+00	mg/kg	8.2E-09	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	4.0E-04	mg/kg-day	7.2E-04
				Arsenic	2E+02	mg/kg	2.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.3E-07	7.6E-06	mg/kg-day	3.0E-04	mg/kg-day	2.5E-02
				Copper	6E+02	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	3.0E-02	mg/kg-day	5.9E-04
				Lead												
				Manganese	1E+02	mg/kg	9.9E-08	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	7.0E-02	mg/kg-day	5.0E-05
				Mercury	1E+01	mg/kg	9.0E-09	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	1.0E-04	mg/kg-day	3.2E-03
				Thallium	1E+01	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	8.0E-05	mg/kg-day	4.5E-03
				Vanadium	2E+01	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	5.9E-07	mg/kg-day	1.0E-03	mg/kg-day	5.9E-04
				Chromium VI	2E+01	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	7.2E-07	mg/kg-day	3.0E-03	mg/kg-day	2.4E-04
			Exp. Route Total								3E-07					4E-02
			Dermal													
				Arsenic	2E+02	mg/kg	2.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-07	8.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.7E-02
			Exp. Route Total								4E-07					3E-02
		Exposure Point Total									7E-07					6E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.7.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	SO	Ingestion													
				Benzo(a)anthracene	3E+00	mg/kg	4.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.3E-07	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	6.1E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.5E-06	1.7E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	8.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.2E-07	2.4E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	1.0E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.4E-07	2.8E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	4.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-07	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	2.0E-02	mg/kg-day	8.9E-05
				Arsenic	9E+01	mg/kg	1.3E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-05	3.6E-05	mg/kg-day	3.0E-04	mg/kg-day	1.2E-01
				Manganese	2E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	6.4E-05	mg/kg-day	7.0E-02	mg/kg-day	9.2E-04
				Mercury	2E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	7.6E-07	mg/kg-day	1.0E-04	mg/kg-day	7.6E-03
				Vanadium	2E+01	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	8.5E-06	mg/kg-day	1.0E-03	mg/kg-day	8.5E-03
			Exp. Route Total								3E-05					1E-01
			Dermal													
				Benzo(a)anthracene	3E+00	mg/kg	3.9E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-07	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	5.3E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.8E-06	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	7.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.4E-07	2.1E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	8.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.3E-07	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	4.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-07	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.0E-02	mg/kg-day	7.6E-05
				Arsenic	9E+01	mg/kg	2.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.8E-06	7.1E-06	mg/kg-day	3.0E-04	mg/kg-day	2.4E-02
			Exp. Route Total								9E-06					2E-02
		Exposure Point Total									4E-05					2E-01
		HB04	Ingestion													
				Arsenic	3E+01	mg/kg	3.7E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.5E-06	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.4E-02
				Thallium	7E-01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	8.0E-05	mg/kg-day	3.5E-03
				Vanadium	1E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.3E-06	mg/kg-day	1.0E-03	mg/kg-day	4.3E-03
			Exp. Route Total								6E-06					4E-02
			Dermal													
				Arsenic	3E+01	mg/kg	7.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-06	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
			Exp. Route Total								1E-06					7E-03
		Exposure Point Total									7E-06					5E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.7.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	SO	Ingestion													
				Benzo(a)anthracene	3E+00	mg/kg	8.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.9E-08	6.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	1.1E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.1E-07	8.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	1.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-07	1.2E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	1.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-07	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	8.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.1E-08	6.5E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	8.9E-07	mg/kg-day	2.0E-02	mg/kg-day	4.5E-05
				Arsenic	9E+01	mg/kg	2.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-06	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.0E-02
				Manganese	2E+02	mg/kg	4.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	7.0E-02	mg/kg-day	4.6E-04
				Mercury	2E+00	mg/kg	4.9E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	1.0E-04	mg/kg-day	3.8E-03
				Vanadium	2E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	4.3E-06	mg/kg-day	1.0E-03	mg/kg-day	4.3E-03
			Exp. Route Total								5E-06					7E-02
			Dermal													
				Benzo(a)anthracene	3E+00	mg/kg	7.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.1E-08	5.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	9.5E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.9E-07	7.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.6E-08	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	1.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.1E-07	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	7.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.2E-08	5.6E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	7.6E-07	mg/kg-day	2.0E-02	mg/kg-day	3.8E-05
				Arsenic	9E+01	mg/kg	4.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.9E-07	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
			Exp. Route Total								2E-06					1E-02
		Exposure Point Total									6E-06					8E-02
		HB04	Ingestion													
				Arsenic	3E+01	mg/kg	6.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.9E-07	5.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Thallium	7E-01	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	8.0E-05	mg/kg-day	1.7E-03
				Vanadium	1E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.0E-03	mg/kg-day	2.2E-03
			Exp. Route Total								1E-06					2E-02
			Dermal													
				Arsenic	3E+01	mg/kg	1.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-07	1.0E-06	mg/kg-day	3.0E-04	mg/kg-day	3.4E-03
			Exp. Route Total								2E-07					3E-03
		Exposure Point Total									1E-06					2E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.8.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment	Sediment Cores	SC01	Ingestion													
				Arsenic	2E+02	mg/kg	5.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.3E-06	2.0E-04	mg/kg-day	5.9E-04	mg/kg-day	3.3E-01
				Cadmium	5E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	1.0E-03	mg/kg-day	6.3E-03
				Manganese	3E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	7.0E-02	mg/kg-day	5.0E-03
				Mercury	7E-01	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	9.5E-07	mg/kg-day	1.0E-04	mg/kg-day	9.5E-03
				Vanadium	1E+01	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.0E-02	mg/kg-day	1.4E-03
			Exp. Route Total								4E-06					4E-01
			Dermal													
				Arsenic	2E+02	mg/kg	5.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.3E-07	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.5E-02
				Cadmium	5E+00	mg/kg	5.9E-10	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	2.5E-05	mg/kg-day	8.3E-04
			Exp. Route Total								8E-07					7E-02
		Exposure Point Total									5E-06					4E-01
		SC02	Ingestion													
				Arsenic	2E+03	mg/kg	6.0E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.6E-05	2.1E-03	mg/kg-day	5.9E-04	mg/kg-day	3.5E+00
				Cadmium	3E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	4.4E-05	mg/kg-day	1.0E-03	mg/kg-day	4.4E-02
				Copper	6E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	7.8E-04	mg/kg-day	3.0E-01	mg/kg-day	2.6E-03
				Manganese	2E+03	mg/kg	8.5E-05	mg/kg-day	N/A	N/A	N/A	3.0E-03	mg/kg-day	7.0E-02	mg/kg-day	4.2E-02
				Mercury	1E+00	mg/kg	4.1E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-04	mg/kg-day	1.4E-02
				Vanadium	5E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	7.1E-05	mg/kg-day	1.0E-02	mg/kg-day	7.1E-03
				Zinc	6E+03	mg/kg	2.3E-04	mg/kg-day	N/A	N/A	N/A	8.1E-03	mg/kg-day	3.0E-01	mg/kg-day	2.7E-02
			Exp. Route Total								5E-05					4E+00
			Dermal													
				Arsenic	2E+03	mg/kg	5.9E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.9E-06	2.1E-04	mg/kg-day	3.0E-04	mg/kg-day	6.9E-01
				Cadmium	3E+01	mg/kg	4.1E-09	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	2.5E-05	mg/kg-day	5.8E-03
			Exp. Route Total								9E-06					7E-01
		Exposure Point Total									5E-05					4E+00
		SC03	Ingestion													
				Arsenic	5E+01	mg/kg	2.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.6E-06	7.1E-05	mg/kg-day	5.9E-04	mg/kg-day	1.2E-01
			Exp. Route Total								2E-06					1E-01
			Dermal													
				Arsenic	5E+01	mg/kg	2.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-07	7.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
			Exp. Route Total								3E-07					2E-02
		Exposure Point Total									2E-06					1E-01

TABLE 7.8.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		SC04	Ingestion													
				Arsenic	1E+02	mg/kg	5.2E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.0E-06	1.8E-04	mg/kg-day	5.9E-04	mg/kg-day	3.1E-01
				Cadmium	5E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	7.1E-06	mg/kg-day	1.0E-03	mg/kg-day	7.1E-03
				Manganese	5E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	6.1E-04	mg/kg-day	7.0E-02	mg/kg-day	8.7E-03
				Mercury	1E+00	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	1.0E-04	mg/kg-day	1.8E-02
				Vanadium	1E+01	mg/kg	4.8E-07	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	1.0E-02	mg/kg-day	1.7E-03
			Exp. Route Total								4E-06					3E-01
			Dermal													
				Arsenic	1E+02	mg/kg	5.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.8E-07	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.0E-02
				Cadmium	5E+00	mg/kg	6.7E-10	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.5E-05	mg/kg-day	9.4E-04
			Exp. Route Total								8E-07					6E-02
		Exposure Point Total									5E-06					4E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.8.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Sediment	Sediment Cores	SC01	Ingestion													
				Arsenic	5E+01	mg/kg	4.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.4E-07	3.1E-05	mg/kg-day	5.9E-04	mg/kg-day	5.3E-02
				Cadmium	2E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	1.0E-03	mg/kg-day	1.1E-03
				Manganese	1E+02	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	7.0E-05	mg/kg-day	7.0E-02	mg/kg-day	1.0E-03
				Mercury	2E-01	mg/kg	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-04	mg/kg-day	1.3E-03
				Vanadium	7E+00	mg/kg	6.5E-08	mg/kg-day	N/A	N/A	N/A	4.6E-06	mg/kg-day	1.0E-02	mg/kg-day	4.6E-04
			Exp. Route Total								3E-07					6E-02
			Dermal													
				Arsenic	5E+01	mg/kg	4.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.7E-08	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
				Cadmium	2E+00	mg/kg	5.3E-11	mg/kg-day	N/A	N/A	N/A	3.7E-09	mg/kg-day	2.5E-05	mg/kg-day	1.5E-04
			Exp. Route Total								7E-08					1E-02
		Exposure Point Total									4E-07					7E-02
		SC02	Ingestion													
				Arsenic	7E+02	mg/kg	6.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.3E-06	4.9E-04	mg/kg-day	5.9E-04	mg/kg-day	8.2E-01
				Cadmium	3E+01	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	1.0E-03	mg/kg-day	2.2E-02
				Copper	6E+02	mg/kg	5.5E-06	mg/kg-day	N/A	N/A	N/A	3.9E-04	mg/kg-day	3.0E-01	mg/kg-day	1.3E-03
				Manganese	2E+03	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	7.0E-02	mg/kg-day	2.1E-02
				Mercury	6E-01	mg/kg	6.0E-09	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	1.0E-04	mg/kg-day	4.2E-03
				Vanadium	3E+01	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.0E-02	mg/kg-day	1.8E-03
				Zinc	6E+03	mg/kg	5.7E-05	mg/kg-day	N/A	N/A	N/A	4.0E-03	mg/kg-day	3.0E-01	mg/kg-day	1.3E-02
			Exp. Route Total								5E-06					9E-01
			Dermal													
				Arsenic	7E+02	mg/kg	6.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-06	4.8E-05	mg/kg-day	3.0E-04	mg/kg-day	1.6E-01
				Cadmium	3E+01	mg/kg	1.0E-09	mg/kg-day	N/A	N/A	N/A	7.2E-08	mg/kg-day	2.5E-05	mg/kg-day	2.9E-03
			Exp. Route Total								1E-06					2E-01
		Exposure Point Total									6E-06					1E+00
		SC03	Ingestion													
				Arsenic	2E+01	mg/kg	1.9E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.5E-07	1.4E-05	mg/kg-day	5.9E-04	mg/kg-day	2.3E-02
			Exp. Route Total								2E-07					2E-02
			Dermal													
				Arsenic	2E+01	mg/kg	1.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.9E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.5E-03
			Exp. Route Total								3E-08					5E-03
		Exposure Point Total									2E-07					3E-02

TABLE 7.8.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		SC04	Ingestion													
				Arsenic	6E+01	mg/kg	5.7E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.4E-07	4.0E-05	mg/kg-day	5.9E-04	mg/kg-day	6.7E-02
				Cadmium	2E+00	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-03	mg/kg-day	1.2E-03
				Manganese	2E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	7.0E-02	mg/kg-day	1.6E-03
				Mercury	1E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	8.9E-07	mg/kg-day	1.0E-04	mg/kg-day	8.9E-03
				Vanadium	1E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	8.4E-06	mg/kg-day	1.0E-02	mg/kg-day	8.4E-04
			Exp. Route Total								4E-07					8E-02
			Dermal													
				Arsenic	6E+01	mg/kg	5.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-08	3.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.3E-02
				Cadmium	2E+00	mg/kg	5.8E-11	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04
			Exp. Route Total								8E-08					1E-02
		Exposure Point Total									5E-07					9E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.9.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	SO	Ingestion													
				Benzo(a)anthracene	3E+00	mg/kg	1.5E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-06	1.8E-05	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	2.1E-06	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.5E-05	2.4E-05	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	2.9E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-06	3.3E-05	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	3.4E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.5E-06	4.0E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	1.6E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-06	1.8E-05	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	2.0E-02	mg/kg-day	1.2E-03
				Arsenic	9E+01	mg/kg	4.3E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-05	5.0E-04	mg/kg-day	3.0E-04	mg/kg-day	1.7E+00
				Manganese	2E+02	mg/kg	7.7E-05	mg/kg-day	N/A	N/A	N/A	9.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.3E-02
				Mercury	2E+00	mg/kg	9.1E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-04	mg/kg-day	1.1E-01
				Vanadium	2E+01	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	1.0E-03	mg/kg-day	1.2E-01
			Exp. Route Total								9E-05					2E+00
			Dermal													
				Benzo(a)anthracene	3E+00	mg/kg	5.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.0E-07	6.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	7.5E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.5E-06	8.7E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	1.0E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.6E-07	1.2E-05	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.0E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	5.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.1E-07	6.6E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	2.0E-02	mg/kg-day	4.5E-04
				Arsenic	9E+01	mg/kg	3.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.4E-06	4.2E-05	mg/kg-day	3.0E-04	mg/kg-day	1.4E-01
			Exp. Route Total								1E-05					1E-01
		Exposure Point Total									1E-04					2E+00
		HB04	Ingestion													
				Arsenic	3E+01	mg/kg	1.2E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-05	1.4E-04	mg/kg-day	3.0E-04	mg/kg-day	4.8E-01
				Thallium	7E-01	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	8.0E-05	mg/kg-day	4.9E-02
				Vanadium	1E+01	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	1.0E-03	mg/kg-day	6.0E-02
			Exp. Route Total								2E-05					6E-01
			Dermal													
				Arsenic	3E+01	mg/kg	1.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-06	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	4.0E-02
			Exp. Route Total								2E-06					4E-02
		Exposure Point Total									2E-05					6E-01
	Exposure Medium Total										N/A					N/A

TABLE 7.9.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
	Subsurface Soil	SO	Ingestion													
				Benzo(a)pyrene	1E-01	mg/kg	6.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.6E-07	7.4E-07	mg/kg-day	N/A	N/A	N/A
				Antimony	6E+01	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	4.0E-04	mg/kg-day	8.8E-01
				Arsenic	2E+03	mg/kg	8.9E-04	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-03	1.0E-02	mg/kg-day	3.0E-04	mg/kg-day	3.5E+01
				Cadmium	1E+01	mg/kg	6.1E-06	mg/kg-day	N/A	N/A	N/A	7.1E-05	mg/kg-day	1.0E-03	mg/kg-day	7.1E-02
				Copper	6E+02	mg/kg	3.0E-04	mg/kg-day	N/A	N/A	N/A	3.5E-03	mg/kg-day	3.0E-02	mg/kg-day	1.2E-01
				Lead												
				Manganese	2E+02	mg/kg	7.7E-05	mg/kg-day	N/A	N/A	N/A	9.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.3E-02
				Mercury	4E+00	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	1.0E-04	mg/kg-day	1.9E-01
				Thallium	3E+00	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	8.0E-05	mg/kg-day	2.3E-01
				Vanadium	4E+01	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	1.0E-03	mg/kg-day	1.9E-01
				Zinc	6E+03	mg/kg	2.8E-03	mg/kg-day	N/A	N/A	N/A	3.3E-02	mg/kg-day	3.0E-01	mg/kg-day	1.1E-01
			Exp. Route Total								1E-03					4E+01
			Dermal													
				Benzo(a)pyrene	1E-01	mg/kg	2.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-07	2.7E-07	mg/kg-day	N/A	N/A	N/A
				Arsenic	2E+03	mg/kg	7.5E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-04	8.7E-04	mg/kg-day	3.0E-04	mg/kg-day	2.9E+00
				Cadmium	1E+01	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	2.5E-05	mg/kg-day	7.9E-03
			Exp. Route Total								1E-04					3E+00
		Exposure Point Total									1E-03					4E+01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.9.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	SO	Ingestion													
				Benzo(a)anthracene	3E+00	mg/kg	2.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-07	8.8E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	3.4E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.5E-06	1.2E-05	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	4.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.5E-07	1.7E-05	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	5.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.1E-07	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	2.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-07	9.1E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	2.0E-02	mg/kg-day	6.2E-04
				Arsenic	9E+01	mg/kg	7.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-05	2.5E-04	mg/kg-day	3.0E-04	mg/kg-day	8.4E-01
				Manganese	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	4.5E-04	mg/kg-day	7.0E-02	mg/kg-day	6.4E-03
				Mercury	2E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	1.0E-04	mg/kg-day	5.3E-02
				Vanadium	2E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	1.0E-03	mg/kg-day	6.0E-02
			Exp. Route Total								1E-05					1E+00
			Dermal													
				Benzo(a)anthracene	3E+00	mg/kg	1.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-07	6.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	2.5E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-06	8.7E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	3.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-07	1.2E-05	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	4.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.0E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	1.9E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-07	6.6E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	2.0E-02	mg/kg-day	4.5E-04
				Arsenic	9E+01	mg/kg	1.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-06	4.2E-05	mg/kg-day	3.0E-04	mg/kg-day	1.4E-01
			Exp. Route Total								4E-06					1E-01
		Exposure Point Total									2E-05					1E+00
		HB04	Ingestion													
				Arsenic	3E+01	mg/kg	2.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.1E-06	7.2E-05	mg/kg-day	3.0E-04	mg/kg-day	2.4E-01
				Thallium	7E-01	mg/kg	5.6E-08	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	8.0E-05	mg/kg-day	2.4E-02
				Vanadium	1E+01	mg/kg	8.6E-07	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	1.0E-03	mg/kg-day	3.0E-02
			Exp. Route Total								3E-06					3E-01
			Dermal													
				Arsenic	3E+01	mg/kg	3.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.2E-07	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	4.0E-02
			Exp. Route Total								5E-07					4E-02
		Exposure Point Total									4E-06					3E-01
	Exposure Medium Total										N/A					N/A

TABLE 7.9.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
	Subsurface Soil	SO	Ingestion													
				Benzo(a)pyrene	1E-01	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.7E-08	3.7E-07	mg/kg-day	N/A	N/A	N/A
				Antimony	6E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	4.0E-04	mg/kg-day	4.4E-01
				Arsenic	2E+03	mg/kg	1.5E-04	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.2E-04	5.2E-03	mg/kg-day	3.0E-04	mg/kg-day	1.7E+01
				Cadmium	1E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	1.0E-03	mg/kg-day	3.5E-02
				Copper	6E+02	mg/kg	5.0E-05	mg/kg-day	N/A	N/A	N/A	1.8E-03	mg/kg-day	3.0E-02	mg/kg-day	5.8E-02
				Lead												
				Manganese	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	4.5E-04	mg/kg-day	7.0E-02	mg/kg-day	6.4E-03
				Mercury	4E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	9.6E-06	mg/kg-day	1.0E-04	mg/kg-day	9.6E-02
				Thallium	3E+00	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	8.0E-05	mg/kg-day	1.1E-01
				Vanadium	4E+01	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	9.7E-05	mg/kg-day	1.0E-03	mg/kg-day	9.7E-02
				Zinc	6E+03	mg/kg	4.7E-04	mg/kg-day	N/A	N/A	N/A	1.6E-02	mg/kg-day	3.0E-01	mg/kg-day	5.5E-02
			Exp. Route Total								2E-04					2E+01
			Dermal													
				Benzo(a)pyrene	1E-01	mg/kg	7.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.6E-08	2.7E-07	mg/kg-day	N/A	N/A	N/A
				Arsenic	2E+03	mg/kg	2.5E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.7E-05	8.7E-04	mg/kg-day	3.0E-04	mg/kg-day	2.9E+00
				Cadmium	1E+01	mg/kg	5.7E-09	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	2.5E-05	mg/kg-day	7.9E-03
			Exp. Route Total								4E-05					3E+00
		Exposure Point Total									3E-04					2E+01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.10.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	SO	Ingestion													
				Benzo(a)anthracene	3E+00	mg/kg	4.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.3E-08	3.2E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	6.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.5E-07	4.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	8.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.2E-08	6.0E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	1.0E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.4E-08	7.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	4.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-08	3.3E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	2.0E-01	mg/kg-day	2.2E-05
				Arsenic	9E+01	mg/kg	1.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-06	9.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.0E-01
				Manganese	2E+02	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	7.0E-02	mg/kg-day	2.3E-03
				Mercury	2E+00	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.0E-04	mg/kg-day	1.9E-02
				Vanadium	2E+01	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-02	mg/kg-day	2.1E-03
			Exp. Route Total								3E-06					3E-01
			Dermal													
				Benzo(a)anthracene	3E+00	mg/kg	1.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-08	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	2.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-07	1.8E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	3.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-08	2.6E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	4.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.2E-08	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	2.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-08	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.0E-01	mg/kg-day	9.6E-06
				Arsenic	9E+01	mg/kg	1.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-07	8.9E-06	mg/kg-day	3.0E-04	mg/kg-day	3.0E-02
			Exp. Route Total								5E-07					3E-02
			Inhalation of fugitive dust													
				Benzo(a)anthracene	3E+00	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.3E-10	7.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	1.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.1E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	2.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	2.6E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-09	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.5E-10	8.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-01	mg/kg-day	5.6E-07
				Arsenic	9E+01	mg/kg	3.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.8E-08	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	7.5E-03
				Manganese	2E+02	mg/kg	5.8E-08	mg/kg-day	N/A	N/A	N/A	4.0E-06	mg/kg-day	7.0E-02	mg/kg-day	5.8E-05
				Mercury	2E+00	mg/kg	6.9E-10	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	1.0E-04	mg/kg-day	4.8E-04
				Vanadium	2E+01	mg/kg	7.7E-09	mg/kg-day	N/A	N/A	N/A	5.4E-07	mg/kg-day	1.0E-02	mg/kg-day	5.4E-05
			Exp. Route Total								6E-08					8E-03
		Exposure Point Total									3E-06					4E-01

TABLE 7.10.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		HB04	Ingestion													
				Arsenic	3E+01	mg/kg	3.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.5E-07	2.6E-05	mg/kg-day	3.0E-04	mg/kg-day	8.6E-02
				Thallium	7E-01	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	8.0E-04	mg/kg-day	8.7E-04
				Vanadium	1E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-02	mg/kg-day	1.1E-03
			Exp. Route Total								6E-07					9E-02
			Dermal													
				Arsenic	3E+01	mg/kg	3.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.5E-08	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.5E-03
			Exp. Route Total								5E-08					9E-03
			Inhalation of fugitive dust													
				Arsenic	3E+01	mg/kg	9.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-08	6.5E-07	mg/kg-day	3.0E-04	mg/kg-day	2.2E-03
				Thallium	7E-01	mg/kg	2.5E-10	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	8.0E-04	mg/kg-day	2.2E-05
				Vanadium	1E+01	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-02	mg/kg-day	2.7E-05
			Exp. Route Total								1E-08					2E-03
		Exposure Point Total									6E-07					1E-01
	Exposure Medium Total										N/A					N/A
	Subsurface Soil	SO	Ingestion													
				Benzo(a)pyrene	1E-01	mg/kg	1.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-08	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Antimony	6E+01	mg/kg	9.0E-07	mg/kg-day	N/A	N/A	N/A	6.3E-05	mg/kg-day	4.0E-04	mg/kg-day	1.6E-01
				Arsenic	2E+03	mg/kg	2.7E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-05	1.9E-03	mg/kg-day	3.0E-04	mg/kg-day	6.2E+00
				Cadmium	1E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Copper	6E+02	mg/kg	8.9E-06	mg/kg-day	N/A	N/A	N/A	6.3E-04	mg/kg-day	3.0E-01	mg/kg-day	2.1E-03
				Lead												
				Manganese	2E+02	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	7.0E-02	mg/kg-day	2.3E-03
				Mercury	4E+00	mg/kg	4.9E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	1.0E-04	mg/kg-day	3.4E-02
				Thallium	3E+00	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	8.0E-04	mg/kg-day	4.1E-03
				Vanadium	4E+01	mg/kg	4.9E-07	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	1.0E-02	mg/kg-day	3.5E-03
				Zinc	6E+03	mg/kg	8.4E-05	mg/kg-day	N/A	N/A	N/A	5.9E-03	mg/kg-day	3.0E-01	mg/kg-day	2.0E-02
			Exp. Route Total								4E-05					6E+00
			Dermal													
				Benzo(a)pyrene	1E-01	mg/kg	8.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.9E-09	5.6E-08	mg/kg-day	N/A	N/A	N/A
				Arsenic	2E+03	mg/kg	2.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.9E-06	1.8E-04	mg/kg-day	3.0E-04	mg/kg-day	6.1E-01
				Cadmium	1E+01	mg/kg	6.0E-10	mg/kg-day	N/A	N/A	N/A	4.2E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
			Exp. Route Total								4E-06					6E-01

TABLE 7.10.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
			Inhalation of fugitive dust													
				Benzo(a)pyrene	1E-01	mg/kg	4.7E-11	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.5E-10	3.3E-09	mg/kg-day	N/A	N/A	N/A
				Antimony	6E+01	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	4.0E-04	mg/kg-day	4.0E-03
				Arsenic	2E+03	mg/kg	6.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-06	4.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.6E-01
				Cadmium	1E+01	mg/kg	4.5E-09	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	1.0E-03	mg/kg-day	3.2E-04
				Copper	6E+02	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	3.0E-01	mg/kg-day	5.3E-05
				Lead												
				Manganese	2E+02	mg/kg	5.8E-08	mg/kg-day	N/A	N/A	N/A	4.0E-06	mg/kg-day	7.0E-02	mg/kg-day	5.8E-05
				Mercury	4E+00	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	8.6E-08	mg/kg-day	1.0E-04	mg/kg-day	8.6E-04
				Thallium	3E+00	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	8.2E-08	mg/kg-day	8.0E-04	mg/kg-day	1.0E-04
				Vanadium	4E+01	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	8.7E-07	mg/kg-day	1.0E-02	mg/kg-day	8.7E-05
				Zinc	6E+03	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	3.0E-01	mg/kg-day	4.9E-04
			Exp. Route Total								1E-06					2E-01
		Exposure Point Total									4E-05					7E+00
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
Groundwater	Shallow Groundwater	Study Area	Ingestion													
				1,4-Dichlorobenzene	1E+00	ug/L	3.4E-09	mg/kg-day	2.4E-02	(mg/kg-day) $^{-1}$	8.1E-11	2.4E-07	mg/kg-day	3.0E-01	mg/kg-day	7.9E-07
				Benzene	6E+03	ug/L	2.2E-05	mg/kg-day	5.5E-02	(mg/kg-day) $^{-1}$	1.2E-06	1.5E-03	mg/kg-day	1.2E-02	mg/kg-day	1.3E-01
				Chlorobenzene	3E+00	ug/L	9.1E-09	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	2.0E-01	mg/kg-day	3.2E-06
				Chloroform	1E+00	ug/L	3.8E-09	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-02	mg/kg-day	2.7E-05
				Methyl tert-Butyl Ether	2E+03	ug/L	6.7E-06	mg/kg-day	1.8E-03	(mg/kg-day) $^{-1}$	1.2E-08	4.7E-04	mg/kg-day	3.0E-01	mg/kg-day	1.6E-03
				Tetrachloroethene	3E-01	ug/L	1.1E-09	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	6.0E-10	7.8E-08	mg/kg-day	1.0E-01	mg/kg-day	7.8E-07
				Toluene	3E+01	ug/L	8.9E-08	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.0E+00	mg/kg-day	3.1E-06
				Trichloroethene	1E+00	ug/L	3.6E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.4E-09	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	8.4E-04
				Vinyl Chloride	9E-01	ug/L	3.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.8E-09	2.3E-07	mg/kg-day	3.0E-03	mg/kg-day	7.5E-05
				bis(2-Ethylhexyl)phthalat	4E+00	ug/L	1.2E-08	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	1.7E-10	8.7E-07	mg/kg-day	2.0E-02	mg/kg-day	4.3E-05
				Naphthalene	3E+00	ug/L	9.9E-09	mg/kg-day	N/A	N/A	N/A	6.9E-07	mg/kg-day	2.0E-01	mg/kg-day	3.5E-06
				Antimony	8E+00	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	4.0E-04	mg/kg-day	5.0E-03
				Arsenic	3E+03	ug/L	1.2E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-05	8.4E-04	mg/kg-day	3.0E-04	mg/kg-day	2.8E+00
				Barium	3E+02	ug/L	9.3E-07	mg/kg-day	N/A	N/A	N/A	6.5E-05	mg/kg-day	7.0E-02	mg/kg-day	9.3E-04
				Cadmium	7E+00	ug/L	2.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	5.0E-04	mg/kg-day	3.4E-03
				Chromium	5E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.5E+00	mg/kg-day	8.6E-06
				Lead												
				Manganese (dw)	2E+03	ug/L	5.7E-06	mg/kg-day	N/A	N/A	N/A	4.0E-04	mg/kg-day	2.4E-02	mg/kg-day	1.7E-02
				Mercury	5E-01	ug/L	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	3.0E-03	mg/kg-day	3.7E-05

TABLE 7.10.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
				Selenium	7E+00	ug/L	2.6E-08	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	5.0E-03	mg/kg-day	3.6E-04
				Thallium	3E+00	ug/L	1.2E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	8.0E-04	mg/kg-day	1.0E-03
				Vanadium	1E+01	ug/L	3.5E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	1.0E-02	mg/kg-day	2.4E-04
				Zinc	1E+03	ug/L	4.8E-06	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								2E-05					3E+00
			Dermal													
				1,4-Dichlorobenzene	1E+00	ug/L	2.2E-08	mg/kg-day	2.4E-02	(mg/kg-day) $^{-1}$	5.2E-10	1.5E-06	mg/kg-day	3.0E-01	mg/kg-day	5.1E-06
				Benzene	6E+03	ug/L	3.4E-05	mg/kg-day	5.5E-02	(mg/kg-day) $^{-1}$	1.8E-06	2.3E-03	mg/kg-day	1.2E-02	mg/kg-day	2.0E-01
				Chlorobenzene	3E+00	ug/L	3.1E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	2.0E-01	mg/kg-day	1.1E-05
				Chloroform	1E+00	ug/L	3.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-02	mg/kg-day	2.3E-05
				Methyl tert-Butyl Ether	2E+03	ug/L	1.5E-06	mg/kg-day	1.8E-03	(mg/kg-day) $^{-1}$	2.8E-09	1.1E-04	mg/kg-day	3.0E-01	mg/kg-day	3.6E-04
				Tetrachloroethene	3E-01	ug/L	6.4E-09	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	3.5E-09	4.5E-07	mg/kg-day	1.0E-01	mg/kg-day	4.5E-06
				Toluene	3E+01	ug/L	3.0E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	2.0E+00	mg/kg-day	1.1E-05
				Trichloroethene	1E+00	ug/L	5.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-09	4.0E-07	mg/kg-day	3.0E-04	mg/kg-day	1.3E-03
				Vinyl Chloride	9E-01	ug/L	1.7E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.6E-09	1.2E-07	mg/kg-day	3.0E-03	mg/kg-day	4.1E-05
				bis(2-Ethylhexyl)phthalat	4E+00	ug/L	1.8E-07	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	2.5E-09	1.3E-05	mg/kg-day	2.0E-02	mg/kg-day	6.4E-04
				Naphthalene	3E+00	ug/L	6.2E-08	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	2.0E-01	mg/kg-day	2.2E-05
				Antimony	8E+00	ug/L	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	6.0E-05	mg/kg-day	2.2E-03
				Arsenic	3E+03	ug/L	7.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-06	5.5E-05	mg/kg-day	3.0E-04	mg/kg-day	1.8E-01
				Barium	3E+02	ug/L	6.2E-08	mg/kg-day	N/A	N/A	N/A	4.3E-06	mg/kg-day	4.9E-03	mg/kg-day	8.8E-04
				Cadmium	7E+00	ug/L	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.5E-03
				Chromium	5E+01	ug/L	1.2E-08	mg/kg-day	N/A	N/A	N/A	8.6E-07	mg/kg-day	2.0E-02	mg/kg-day	4.4E-05
				Lead												
				Manganese	2E+03	ug/L	3.8E-07	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	2.8E-03	mg/kg-day	9.5E-03
				Mercury	5E-01	ug/L	1.0E-10	mg/kg-day	N/A	N/A	N/A	7.3E-09	mg/kg-day	2.1E-04	mg/kg-day	3.5E-05
				Selenium	7E+00	ug/L	1.7E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	5.0E-03	mg/kg-day	2.4E-05
				Thallium	3E+00	ug/L	7.6E-10	mg/kg-day	N/A	N/A	N/A	5.3E-08	mg/kg-day	8.0E-04	mg/kg-day	6.7E-05
				Vanadium	1E+01	ug/L	2.3E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.6E-04	mg/kg-day	6.2E-04
				Zinc	1E+03	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-01	mg/kg-day	4.4E-05
			Exp. Route Total								3E-06					4E-01
		Exposure Point Total									2E-05					3E+00

TABLE 7.10.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		Class A	Ingestion													
				Arsenic	7E+01	ug/L	2.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-07	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.6E-02
				Chromium	7E+00	ug/L	2.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.5E+00	mg/kg-day	1.1E-06
				Manganese (dw)	2E+03	ug/L	8.4E-06	mg/kg-day	N/A	N/A	N/A	5.9E-04	mg/kg-day	2.4E-02	mg/kg-day	2.5E-02
			Exp. Route Total								4E-07					8E-02
			Dermal													
				Arsenic	7E+01	ug/L	1.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-08	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.7E-03
				Chromium	7E+00	ug/L	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.8E-06
				Manganese	2E+03	ug/L	5.6E-07	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	2.8E-03	mg/kg-day	1.4E-02
			Exp. Route Total								2E-08					2E-02
		Exposure Point Total									4E-07					1E-01
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.10.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil	Surface Soil	SO	Ingestion													
				Benzo(a)anthracene	3E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-08	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	2.0E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	2.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-08	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	3.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.4E-08	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	1.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-08	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.0E-01	mg/kg-day	7.1E-06
				Arsenic	9E+01	mg/kg	4.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.2E-07	2.9E-05	mg/kg-day	3.0E-04	mg/kg-day	9.6E-02
				Manganese	2E+02	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	7.0E-02	mg/kg-day	7.3E-04
				Mercury	2E+00	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	1.0E-04	mg/kg-day	6.1E-03
				Vanadium	2E+01	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	6.8E-06	mg/kg-day	1.0E-02	mg/kg-day	6.8E-04
			Exp. Route Total								8E-07					1E-01
			Dermal													
				Benzo(a)anthracene	3E+00	mg/kg	6.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.5E-09	4.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	8.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.1E-08	5.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.6E-09	8.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	1.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-08	9.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	6.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.7E-09	4.5E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.0E-01	mg/kg-day	3.1E-06
				Arsenic	9E+01	mg/kg	4.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-08	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.5E-03
			Exp. Route Total								2E-07					9E-03
			Inhalation of fugitive dust													
				Benzo(a)anthracene	3E+00	mg/kg	3.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-10	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E+00	mg/kg	4.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.6E-09	3.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E+00	mg/kg	6.9E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-10	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	7E-01	mg/kg	8.2E-11	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.0E-10	5.7E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E+00	mg/kg	3.7E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-10	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E+00	mg/kg	5.1E-10	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	2.0E-01	mg/kg-day	1.8E-07
				Arsenic	9E+01	mg/kg	1.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-08	7.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.4E-03
				Manganese	2E+02	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.8E-05
				Mercury	2E+00	mg/kg	2.2E-10	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	1.0E-04	mg/kg-day	1.5E-04
				Vanadium	2E+01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	1.0E-02	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					3E-03
		Exposure Point Total									1E-06					1E-01

TABLE 7.10.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		HB04	Ingestion													
				Arsenic	3E+01	mg/kg	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-07	8.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.7E-02
				Thallium	7E-01	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	8.0E-04	mg/kg-day	2.8E-04
				Vanadium	1E+01	mg/kg	4.9E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	1.0E-02	mg/kg-day	3.4E-04
			Exp. Route Total								2E-07					3E-02
			Dermal													
				Arsenic	3E+01	mg/kg	1.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-08	8.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
			Exp. Route Total								2E-08					3E-03
			Inhalation of fugitive dust													
				Arsenic	3E+01	mg/kg	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Thallium	7E-01	mg/kg	8.0E-11	mg/kg-day	N/A	N/A	N/A	5.6E-09	mg/kg-day	8.0E-04	mg/kg-day	7.0E-06
				Vanadium	1E+01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	1.0E-02	mg/kg-day	8.7E-06
			Exp. Route Total								4E-09					7E-04
		Exposure Point Total									2E-07					3E-02
	Exposure Medium Total										N/A					N/A
	Subsurface Soil	SO	Ingestion													
				Benzo(a)pyrene	1E-01	mg/kg	6.0E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.4E-09	4.2E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	6E+01	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	4.0E-04	mg/kg-day	5.0E-02
				Arsenic	2E+03	mg/kg	8.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-05	5.9E-04	mg/kg-day	3.0E-04	mg/kg-day	2.0E+00
				Cadmium	1E+01	mg/kg	5.8E-08	mg/kg-day	N/A	N/A	N/A	4.0E-06	mg/kg-day	1.0E-03	mg/kg-day	4.0E-03
				Copper	6E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-01	mg/kg-day	6.7E-04
				Lead												
				Manganese	2E+02	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	7.0E-02	mg/kg-day	7.3E-04
				Mercury	4E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	1.0E-04	mg/kg-day	1.1E-02
				Thallium	3E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	8.0E-04	mg/kg-day	1.3E-03
				Vanadium	4E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-02	mg/kg-day	1.1E-03
				Zinc	6E+03	mg/kg	2.7E-05	mg/kg-day	N/A	N/A	N/A	1.9E-03	mg/kg-day	3.0E-01	mg/kg-day	6.3E-03
			Exp. Route Total								1E-05					2E+00
			Dermal													
				Benzo(a)pyrene	1E-01	mg/kg	2.6E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-09	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Arsenic	2E+03	mg/kg	8.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-06	5.9E-05	mg/kg-day	3.0E-04	mg/kg-day	2.0E-01
				Cadmium	1E+01	mg/kg	1.9E-10	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	2.5E-05	mg/kg-day	5.3E-04
			Exp. Route Total								1E-06					2E-01

TABLE 7.10.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
			Inhalation of fugitive dust													
				Benzo(a)pyrene	1E-01	mg/kg	1.5E-11	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.1E-10	1.1E-09	mg/kg-day	N/A	N/A	N/A
				Antimony	6E+01	mg/kg	7.2E-09	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	4.0E-04	mg/kg-day	1.3E-03
				Arsenic	2E+03	mg/kg	2.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.2E-07	1.5E-05	mg/kg-day	3.0E-04	mg/kg-day	5.0E-02
				Cadmium	1E+01	mg/kg	1.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-03	mg/kg-day	1.0E-04
				Copper	6E+02	mg/kg	7.2E-08	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	3.0E-01	mg/kg-day	1.7E-05
				Lead												
				Manganese	2E+02	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.8E-05
				Mercury	4E+00	mg/kg	3.9E-10	mg/kg-day	N/A	N/A	N/A	2.8E-08	mg/kg-day	1.0E-04	mg/kg-day	2.8E-04
				Thallium	3E+00	mg/kg	3.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	8.0E-04	mg/kg-day	3.3E-05
				Vanadium	4E+01	mg/kg	4.0E-09	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-02	mg/kg-day	2.8E-05
				Zinc	6E+03	mg/kg	6.8E-07	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	3.0E-01	mg/kg-day	1.6E-04
			Exp. Route Total								3E-07					5E-02
		Exposure Point Total									1E-05					2E+00
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
Groundwater	Shallow Groundwater	Study Area	Ingestion													
				1,4-Dichlorobenzene	1E+00	ug/L	1.1E-09	mg/kg-day	2.4E-02	(mg/kg-day) $^{-1}$	2.6E-11	7.6E-08	mg/kg-day	3.0E-01	mg/kg-day	2.5E-07
				Benzene	6E+03	ug/L	7.0E-06	mg/kg-day	5.5E-02	(mg/kg-day) $^{-1}$	3.9E-07	4.9E-04	mg/kg-day	1.2E-02	mg/kg-day	4.1E-02
				Chlorobenzene	3E+00	ug/L	2.9E-09	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	2.0E-01	mg/kg-day	1.0E-06
				Chloroform	1E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	8.6E-08	mg/kg-day	1.0E-02	mg/kg-day	8.6E-06
				Methyl tert-Butyl Ether	2E+03	ug/L	2.1E-06	mg/kg-day	1.8E-03	(mg/kg-day) $^{-1}$	3.8E-09	1.5E-04	mg/kg-day	3.0E-01	mg/kg-day	5.0E-04
				Tetrachloroethene	3E-01	ug/L	3.6E-10	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	1.9E-10	2.5E-08	mg/kg-day	1.0E-01	mg/kg-day	2.5E-07
				Toluene	3E+01	ug/L	2.9E-08	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	2.0E+00	mg/kg-day	1.0E-06
				Trichloroethene	1E+00	ug/L	1.1E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.6E-10	8.0E-08	mg/kg-day	3.0E-04	mg/kg-day	2.7E-04
				Vinyl Chloride	9E-01	ug/L	1.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-09	7.2E-08	mg/kg-day	3.0E-03	mg/kg-day	2.4E-05
				bis(2-Ethylhexyl)phthalat	4E+00	ug/L	4.0E-09	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	5.5E-11	2.8E-07	mg/kg-day	2.0E-02	mg/kg-day	1.4E-05
				Naphthalene	3E+00	ug/L	3.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	2.0E-01	mg/kg-day	1.1E-06
				Antimony	8E+00	ug/L	9.1E-09	mg/kg-day	N/A	N/A	N/A	6.3E-07	mg/kg-day	4.0E-04	mg/kg-day	1.6E-03
				Arsenic	3E+03	ug/L	3.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-06	2.7E-04	mg/kg-day	3.0E-04	mg/kg-day	8.9E-01
				Barium	3E+02	ug/L	3.0E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	7.0E-02	mg/kg-day	3.0E-04
				Cadmium	7E+00	ug/L	7.8E-09	mg/kg-day	N/A	N/A	N/A	5.4E-07	mg/kg-day	5.0E-04	mg/kg-day	1.1E-03
				Chromium	5E+01	ug/L	5.9E-08	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	1.5E+00	mg/kg-day	2.8E-06
				Lead												
				Manganese (dw)	2E+03	ug/L	1.8E-06	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	2.4E-02	mg/kg-day	5.4E-03
				Mercury	5E-01	ug/L	5.1E-10	mg/kg-day	N/A	N/A	N/A	3.5E-08	mg/kg-day	3.0E-03	mg/kg-day	1.2E-05

TABLE 7.10.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
				Selenium	7E+00	ug/L	8.3E-09	mg/kg-day	N/A	N/A	N/A	5.8E-07	mg/kg-day	5.0E-03	mg/kg-day	1.2E-04
				Thallium	3E+00	ug/L	3.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	8.0E-04	mg/kg-day	3.0E-04
				Vanadium	1E+01	ug/L	1.1E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-02	mg/kg-day	7.8E-05
				Zinc	1E+03	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	3.0E-01	mg/kg-day	3.6E-04
			Exp. Route Total								6E-06					9E-01
			Dermal													
				1,4-Dichlorobenzene	1E+00	ug/L	4.9E-09	mg/kg-day	2.4E-02	(mg/kg-day) $^{-1}$	1.2E-10	3.4E-07	mg/kg-day	3.0E-01	mg/kg-day	1.1E-06
				Benzene	6E+03	ug/L	7.2E-06	mg/kg-day	5.5E-02	(mg/kg-day) $^{-1}$	4.0E-07	5.1E-04	mg/kg-day	1.2E-02	mg/kg-day	4.2E-02
				Chlorobenzene	3E+00	ug/L	7.1E-09	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	2.0E-01	mg/kg-day	2.5E-06
				Chloroform	1E+00	ug/L	7.5E-10	mg/kg-day	N/A	N/A	N/A	5.3E-08	mg/kg-day	1.0E-02	mg/kg-day	5.3E-06
				Methyl tert-Butyl Ether	2E+03	ug/L	3.3E-07	mg/kg-day	1.8E-03	(mg/kg-day) $^{-1}$	6.0E-10	2.3E-05	mg/kg-day	3.0E-01	mg/kg-day	7.8E-05
				Tetrachloroethene	3E-01	ug/L	1.5E-09	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	7.9E-10	1.0E-07	mg/kg-day	1.0E-01	mg/kg-day	1.0E-06
				Toluene	3E+01	ug/L	6.7E-08	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.0E+00	mg/kg-day	2.3E-06
				Trichloroethene	1E+00	ug/L	1.3E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.2E-10	9.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.0E-04
				Vinyl Chloride	9E-01	ug/L	3.6E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.4E-10	2.5E-08	mg/kg-day	3.0E-03	mg/kg-day	8.4E-06
				bis(2-Ethylhexyl)phthalat	4E+00	ug/L	4.1E-08	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	5.7E-10	2.9E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Naphthalene	3E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	9.9E-07	mg/kg-day	2.0E-01	mg/kg-day	4.9E-06
				Antimony	8E+00	ug/L	3.0E-10	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	6.0E-05	mg/kg-day	3.5E-04
				Arsenic	3E+03	ug/L	1.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-07	8.9E-06	mg/kg-day	3.0E-04	mg/kg-day	3.0E-02
				Barium	3E+02	ug/L	9.9E-09	mg/kg-day	N/A	N/A	N/A	6.9E-07	mg/kg-day	4.9E-03	mg/kg-day	1.4E-04
				Cadmium	7E+00	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	2.5E-05	mg/kg-day	7.2E-04
				Chromium	5E+01	ug/L	2.0E-09	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	2.0E-02	mg/kg-day	7.0E-06
				Lead												
				Manganese	2E+03	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	2.8E-03	mg/kg-day	1.5E-03
				Mercury	5E-01	ug/L	1.7E-11	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.1E-04	mg/kg-day	5.6E-06
				Selenium	7E+00	ug/L	2.7E-10	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	5.0E-03	mg/kg-day	3.8E-06
				Thallium	3E+00	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	8.0E-04	mg/kg-day	9.8E-06
				Vanadium	1E+01	ug/L	3.7E-10	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	2.6E-04	mg/kg-day	9.9E-05
				Zinc	1E+03	ug/L	3.0E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	3.0E-01	mg/kg-day	7.0E-06
			Exp. Route Total								6E-07					8E-02
		Exposure Point Total									7E-06					1E+00

TABLE 7.10.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
		Class A	Ingestion													
				Arsenic	9E+00	ug/L	1.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-08	7.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.4E-03
				Chromium	7E+00	ug/L	7.8E-09	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	1.5E+00	mg/kg-day	3.6E-07
				Manganese (dw)	2E+03	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	2.4E-02	mg/kg-day	7.9E-03
			Exp. Route Total								2E-08					1E-02
			Dermal													
				Arsenic	9E+00	ug/L	3.4E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.1E-10	2.4E-08	mg/kg-day	3.0E-04	mg/kg-day	7.9E-05
				Chromium	7E+00	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	2.0E-02	mg/kg-day	9.3E-07
				Manganese	2E+03	ug/L	8.9E-08	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
			Exp. Route Total								5E-10					2E-03
		Exposure Point Total									2E-08					1E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.11.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater	Groundwater	Study Area	Ingestion													
				1,1-Dichloroethene	1E+00	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	5.0E-02	mg/kg-day	9.3E-06
				1,2-Dichloroethane	2E+00	ug/L	3.7E-07	mg/kg-day	9.1E-02	(mg/kg-day) $^{-1}$	3.4E-08	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				1,4-Dichlorobenzene	8E-01	ug/L	1.5E-07	mg/kg-day	2.4E-02	(mg/kg-day) $^{-1}$	3.6E-09	4.2E-07	mg/kg-day	3.0E-02	mg/kg-day	1.4E-05
				Acetone	8E+02	ug/L	1.4E-04	mg/kg-day	N/A	N/A	N/A	4.0E-04	mg/kg-day	9.0E-01	mg/kg-day	4.4E-04
				Benzene	2E+03	ug/L	4.2E-04	mg/kg-day	5.5E-02	(mg/kg-day) $^{-1}$	2.3E-05	1.2E-03	mg/kg-day	4.0E-03	mg/kg-day	2.9E-01
				Chlorobenzene	3E+00	ug/L	4.9E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.0E-02	mg/kg-day	6.9E-05
				Chloroethane	2E+00	ug/L	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	4.0E-01	mg/kg-day	2.6E-06
				Chloroform	7E-01	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	1.0E-02	mg/kg-day	3.6E-05
				cis-1,2-Dichloroethene	3E+00	ug/L	4.6E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-02	mg/kg-day	1.3E-04
				Methyl tert-Butyl Ether	4E+02	ug/L	7.2E-05	mg/kg-day	1.8E-03	(mg/kg-day) $^{-1}$	1.3E-07	2.0E-04	mg/kg-day	3.0E-01	mg/kg-day	6.8E-04
				Tetrachloroethene	7E-01	ug/L	1.2E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	6.3E-08	3.3E-07	mg/kg-day	1.0E-02	mg/kg-day	3.3E-05
				Toluene	2E+02	ug/L	4.2E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	2.0E-01	mg/kg-day	5.9E-04
				Trichloroethene	9E+00	ug/L	1.7E-06	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	6.6E-07	4.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
				Vinyl Chloride	7E-01	ug/L	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-07	3.2E-07	mg/kg-day	3.0E-03	mg/kg-day	1.1E-04
				Xylene, total	9E+00	ug/L	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	2.0E-01	mg/kg-day	2.2E-05
				2,4-Dichlorophenol	3E+00	ug/L	6.0E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	3.0E-03	mg/kg-day	5.6E-04
				2-Methylphenol	2E+01	ug/L	2.9E-06	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	5.0E-02	mg/kg-day	1.6E-04
				bis(2-Ethylhexyl)phthalat	2E+00	ug/L	3.3E-07	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	4.6E-09	9.2E-07	mg/kg-day	2.0E-02	mg/kg-day	4.6E-05
				Naphthalene	3E+01	ug/L	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.0E-02	mg/kg-day	6.9E-04
				Pentachlorophenol	2E+00	ug/L	3.2E-07	mg/kg-day	1.2E-01	(mg/kg-day) $^{-1}$	3.9E-08	9.1E-07	mg/kg-day	3.0E-02	mg/kg-day	3.0E-05
				Antimony	4E+00	ug/L	7.6E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	4.0E-04	mg/kg-day	5.3E-03
				Arsenic	1E+03	ug/L	2.0E-04	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-04	5.5E-04	mg/kg-day	3.0E-04	mg/kg-day	1.8E+00
				Barium	8E+01	ug/L	1.4E-05	mg/kg-day	N/A	N/A	N/A	4.0E-05	mg/kg-day	7.0E-02	mg/kg-day	5.8E-04

TABLE 7.11.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
				Beryllium	7E-01	ug/L	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	2.0E-03	mg/kg-day	1.7E-04
				Cadmium	2E+00	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	5.0E-04	mg/kg-day	2.3E-03
				Chromium	4E+01	ug/L	6.1E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	1.5E+00	mg/kg-day	1.1E-05
				Lead												
				Manganese (dw)	1E+03	ug/L	2.6E-04	mg/kg-day	N/A	N/A	N/A	7.3E-04	mg/kg-day	2.4E-02	mg/kg-day	3.0E-02
				Mercury	5E-01	ug/L	8.6E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	3.0E-04	mg/kg-day	8.0E-04
				Nickel	2E+01	ug/L	2.9E-06	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	2.0E-02	mg/kg-day	4.1E-04
				Selenium	4E+00	ug/L	7.3E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	5.0E-03	mg/kg-day	4.1E-04
				Thallium	5E+00	ug/L	8.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	8.0E-05	mg/kg-day	2.9E-02
				Vanadium	2E+01	ug/L	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	1.0E-03	mg/kg-day	1.0E-02
				Zinc	1E+03	ug/L	1.8E-04	mg/kg-day	N/A	N/A	N/A	4.9E-04	mg/kg-day	3.0E-01	mg/kg-day	1.6E-03
			Exp. Route Total								3E-04					2E+00
			Dermal													
				1,1-Dichloroethene	1E+00	ug/L	2.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-07	mg/kg-day	5.0E-02	mg/kg-day	1.2E-05
				1,2-Dichloroethane	2E+00	ug/L	1.8E-07	mg/kg-day	9.1E-02	(mg/kg-day) $^{-1}$	1.6E-08	5.1E-07	mg/kg-day	2.0E-02	mg/kg-day	2.5E-05
				1,4-Dichlorobenzene	8E-01	ug/L	9.5E-07	mg/kg-day	2.4E-02	(mg/kg-day) $^{-1}$	2.3E-08	2.7E-06	mg/kg-day	3.0E-02	mg/kg-day	8.9E-05
				Acetone	8E+02	ug/L	7.0E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	9.0E-01	mg/kg-day	2.2E-05
				Benzene	2E+03	ug/L	6.4E-04	mg/kg-day	5.5E-02	(mg/kg-day) $^{-1}$	3.5E-05	1.8E-03	mg/kg-day	4.0E-03	mg/kg-day	4.5E-01
				Chlorobenzene	3E+00	ug/L	1.7E-06	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.0E-02	mg/kg-day	2.4E-04
				Chloroethane	2E+00	ug/L	2.2E-07	mg/kg-day	N/A	N/A	N/A	6.0E-07	mg/kg-day	4.0E-01	mg/kg-day	1.5E-06
				Chloroform	7E-01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	1.0E-02	mg/kg-day	3.2E-05
				cis-1,2-Dichloroethene	3E+00	ug/L	5.8E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	1.0E-02	mg/kg-day	1.6E-04
				Methyl tert-Butyl Ether	4E+02	ug/L	1.7E-05	mg/kg-day	1.8E-03	(mg/kg-day) $^{-1}$	3.0E-08	4.7E-05	mg/kg-day	3.0E-01	mg/kg-day	1.6E-04
				Tetrachloroethene	7E-01	ug/L	6.7E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	3.6E-07	1.9E-06	mg/kg-day	1.0E-02	mg/kg-day	1.9E-04
				Toluene	2E+02	ug/L	1.4E-04	mg/kg-day	N/A	N/A	N/A	4.0E-04	mg/kg-day	2.0E-01	mg/kg-day	2.0E-03
				Trichloroethene	9E+00	ug/L	2.7E-06	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-06	7.4E-06	mg/kg-day	3.0E-04	mg/kg-day	2.5E-02
				Vinyl Chloride	7E-01	ug/L	6.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.3E-08	1.7E-07	mg/kg-day	3.0E-03	mg/kg-day	5.8E-05
				Xylene, total	9E+00	ug/L	8.9E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	2.0E-01	mg/kg-day	1.2E-04
				2,4-Dichlorophenol	3E+00	ug/L	2.1E-06	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	3.0E-03	mg/kg-day	2.0E-03
				2-Methylphenol	2E+01	ug/L	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	5.0E-02	mg/kg-day	1.5E-04
				bis(2-Ethylhexyl)phthalat	2E+00	ug/L	4.8E-06	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	6.8E-08	1.4E-05	mg/kg-day	2.0E-02	mg/kg-day	6.8E-04

TABLE 7.11.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
				Naphthalene	3E+01	ug/L	3.1E-05	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	2.0E-02	mg/kg-day	4.4E-03
				Pentachlorophenol	2E+00	ug/L	3.8E-05	mg/kg-day	1.2E-01	(mg/kg-day) $^{-1}$	4.5E-06	1.1E-04	mg/kg-day	3.0E-02	mg/kg-day	3.5E-03
				Antimony	4E+00	ug/L	5.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	6.0E-05	mg/kg-day	2.3E-03
				Arsenic	1E+03	ug/L	1.3E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-05	3.6E-05	mg/kg-day	3.0E-04	mg/kg-day	1.2E-01
				Barium	8E+01	ug/L	9.5E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	4.9E-03	mg/kg-day	5.4E-04
				Beryllium	7E-01	ug/L	8.1E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	1.4E-05	mg/kg-day	1.6E-03
				Cadmium	2E+00	ug/L	2.7E-08	mg/kg-day	N/A	N/A	N/A	7.6E-08	mg/kg-day	2.5E-05	mg/kg-day	3.1E-03
				Chromium	4E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.8E-05
				Lead												
				Manganese	1E+03	ug/L	1.7E-05	mg/kg-day	N/A	N/A	N/A	4.8E-05	mg/kg-day	2.8E-03	mg/kg-day	1.7E-02
				Mercury	5E-01	ug/L	5.7E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.1E-05	mg/kg-day	7.5E-04
				Nickel	2E+01	ug/L	3.9E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	8.0E-04	mg/kg-day	1.4E-04
				Selenium	4E+00	ug/L	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	5.0E-03	mg/kg-day	2.7E-05
				Thallium	5E+00	ug/L	5.5E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	8.0E-05	mg/kg-day	1.9E-03
				Vanadium	2E+01	ug/L	2.4E-07	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	2.6E-05	mg/kg-day	2.5E-02
				Zinc	1E+03	ug/L	7.0E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	3.0E-01	mg/kg-day	6.5E-05
			Exp. Route Total								6E-05					7E-01
		Exposure Point Total									4E-04					3E+00
		Class A	Ingestion													
				Arsenic	4E+01	ug/L	6.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.9E-06	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.2E-02
				Cadmium	2E+00	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	5.0E-04	mg/kg-day	2.3E-03
				Chromium	1E+01	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	1.5E+00	mg/kg-day	3.7E-06
				Manganese (dw)	2E+03	ug/L	4.0E-04	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	2.4E-02	mg/kg-day	4.6E-02
				Thallium	3E+00	ug/L	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	8.0E-05	mg/kg-day	1.5E-02
			Exp. Route Total								1E-05					1E-01
			Dermal													
				Arsenic	4E+01	ug/L	4.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	4.1E-03
				Cadmium	2E+00	ug/L	2.7E-08	mg/kg-day	N/A	N/A	N/A	7.6E-08	mg/kg-day	2.5E-05	mg/kg-day	3.1E-03
				Chromium	1E+01	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	2.0E-02	mg/kg-day	1.9E-05
				Manganese	2E+03	ug/L	2.6E-05	mg/kg-day	N/A	N/A	N/A	7.4E-05	mg/kg-day	2.8E-03	mg/kg-day	2.6E-02
				Thallium	3E+00	ug/L	2.9E-08	mg/kg-day	N/A	N/A	N/A	8.1E-08	mg/kg-day	8.0E-05	mg/kg-day	1.0E-03
			Exp. Route Total								7E-07					3E-02
		Exposure Point Total									1E-05					2E-01
	Exposure Medium Total										N/A					N/A

TABLE 7.11.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
	Indoor Air	Study Area	Inhalation													
				1,1-Dichloroethene	3E+00	ug/m3	2.1E-01	ug/m3	N/A	N/A	N/A	5.8E-01	ug/m3	2.0E+02	ug/m3	2.9E-03
				1,2,4-Trichlorobenzene	7E-01	ug/m3	5.6E-02	ug/m3	N/A	N/A	N/A	1.6E-01	ug/m3	4.0E+00	ug/m3	3.9E-02
				1,2-Dichlorobenzene	3E+00	ug/m3	2.6E-01	ug/m3	N/A	N/A	N/A	7.3E-01	ug/m3	2.0E+02	ug/m3	3.6E-03
				1,2-Dichloroethane	6E+00	ug/m3	4.6E-01	ug/m3	2.6E-05	ug/m3 $^{-1}$	1.2E-05	1.3E+00	ug/m3	5.0E+00	ug/m3	2.6E-01
				1,4-Dichlorobenzene	2E+00	ug/m3	1.8E-01	ug/m3	N/A	N/A	N/A	5.2E-01	ug/m3	8.0E+02	ug/m3	6.4E-04
				2-Butanone	6E+01	ug/m3	4.5E+00	ug/m3	N/A	N/A	N/A	1.3E+01	ug/m3	5.0E+03	ug/m3	2.5E-03
				4-Methyl-2-Pentanone	3E+01	ug/m3	2.1E+00	ug/m3	N/A	N/A	N/A	5.8E+00	ug/m3	3.0E+03	ug/m3	1.9E-03
				Acetone	2E+03	ug/m3	1.7E+02	ug/m3	N/A	N/A	N/A	4.6E+02	ug/m3	N/A	N/A	N/A
				Benzene	6E+03	ug/m3	5.2E+02	ug/m3	7.8E-06	ug/m3 $^{-1}$	4.1E-03	1.5E+03	ug/m3	3.0E+01	ug/m3	4.9E+01
				Chlorobenzene	7E+00	ug/m3	6.1E-01	ug/m3	N/A	N/A	N/A	1.7E+00	ug/m3	6.0E+01	ug/m3	2.8E-02
				Chloroethane	6E+00	ug/m3	4.6E-01	ug/m3	N/A	N/A	N/A	1.3E+00	ug/m3	1.0E+04	ug/m3	1.3E-04
				Chloroform	2E+00	ug/m3	1.6E-01	ug/m3	2.3E-05	ug/m3 $^{-1}$	3.7E-06	4.5E-01	ug/m3	5.0E+01	ug/m3	9.0E-03
				cis-1,2-Dichloroethene	7E+00	ug/m3	5.6E-01	ug/m3	N/A	N/A	N/A	1.6E+00	ug/m3	2.0E+02	ug/m3	7.9E-03
				Methyl tert-Butyl Ether	1E+03	ug/m3	8.9E+01	ug/m3	4.5E-08	(ug/m3) $^{-1}$	4.0E-06	2.5E+02	ug/m3	3.0E+03	ug/m3	8.3E-02
				Tetrachloroethene	2E+00	ug/m3	1.4E-01	ug/m3	5.9E-06	(ug/m3) $^{-1}$	8.5E-07	4.0E-01	ug/m3	2.7E+02	ug/m3	1.5E-03
				Toluene	6E+02	ug/m3	5.2E+01	ug/m3	N/A	N/A	N/A	1.5E+02	ug/m3	4.0E+02	ug/m3	3.6E-01
				Trichloroethene	3E+01	ug/m3	2.1E+00	ug/m3	1.1E-04	(ug/m3) $^{-1}$	2.3E-04	5.8E+00	ug/m3	4.0E+01	ug/m3	1.4E-01
				Vinyl Chloride	2E+00	ug/m3	1.4E-01	ug/m3	4.4E-06	(ug/m3) $^{-1}$	6.2E-07	3.9E-01	ug/m3	1.0E+02	ug/m3	3.9E-03
				Xylene, total	2E+01	ug/m3	2.0E+00	ug/m3	N/A	N/A	N/A	5.5E+00	ug/m3	1.0E+02	ug/m3	5.5E-02
				2-Chloronaphthalene	6E+00	ug/m3	5.0E-01	ug/m3	N/A	N/A	N/A	1.4E+00	ug/m3	3.0E+00	ug/m3	4.6E-01
				Naphthalene	7E+01	ug/m3	6.0E+00	ug/m3	N/A	N/A	N/A	1.7E+01	ug/m3	3.0E+00	ug/m3	5.6E+00
			Exp. Route Total								4E-03					6E+01
		Exposure Point Total									4E-03					6E+01
		Class A	Inhalation													
				Methyl tert-Butyl Ether	2E+00	ug/m3	1.6E-01	ug/m3	4.5E-08	(ug/m3) $^{-1}$	7.0E-09	4.4E-01	ug/m3	3.0E+03	ug/m3	1.5E-04
			Exp. Route Total								7E-09					1E-04
		Exposure Point Total									7E-09					1E-04
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.11.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater	Groundwater	Study Area	Ingestion													
				1,1-Dichloroethene	1E+00	ug/L	5.2E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	5.0E-02	mg/kg-day	8.1E-06
				1,2-Dichloroethane	2E+00	ug/L	1.2E-07	mg/kg-day	9.1E-02	(mg/kg-day) $^{-1}$	1.1E-08	9.1E-07	mg/kg-day	2.0E-02	mg/kg-day	4.6E-05
				1,4-Dichlorobenzene	8E-01	ug/L	4.7E-08	mg/kg-day	2.4E-02	(mg/kg-day) $^{-1}$	1.1E-09	3.6E-07	mg/kg-day	3.0E-02	mg/kg-day	1.2E-05
				Acetone	8E+02	ug/L	4.5E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	9.0E-01	mg/kg-day	3.9E-04
				Benzene	2E+03	ug/L	1.3E-04	mg/kg-day	5.5E-02	(mg/kg-day) $^{-1}$	7.2E-06	1.0E-03	mg/kg-day	4.0E-03	mg/kg-day	2.6E-01
				Chlorobenzene	3E+00	ug/L	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	2.0E-02	mg/kg-day	6.0E-05
				Chloroethane	2E+00	ug/L	1.2E-07	mg/kg-day	N/A	N/A	N/A	9.0E-07	mg/kg-day	4.0E-01	mg/kg-day	2.2E-06
				Chloroform	7E-01	ug/L	4.1E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	1.0E-02	mg/kg-day	3.2E-05
				cis-1,2-Dichloroethene	3E+00	ug/L	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	1.0E-02	mg/kg-day	1.1E-04
				Methyl tert-Butyl Ether	4E+02	ug/L	2.3E-05	mg/kg-day	1.8E-03	(mg/kg-day) $^{-1}$	4.1E-08	1.8E-04	mg/kg-day	3.0E-01	mg/kg-day	5.9E-04
				Tetrachloroethene	7E-01	ug/L	3.7E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	2.0E-08	2.9E-07	mg/kg-day	1.0E-02	mg/kg-day	2.9E-05
				Toluene	2E+02	ug/L	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	2.0E-01	mg/kg-day	5.1E-04
				Trichloroethene	9E+00	ug/L	5.2E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.1E-07	4.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
				Vinyl Chloride	7E-01	ug/L	3.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.4E-08	2.8E-07	mg/kg-day	3.0E-03	mg/kg-day	9.3E-05
				Xylene, total	9E+00	ug/L	4.9E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.0E-01	mg/kg-day	1.9E-05
				2,4-Dichlorophenol	3E+00	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	3.0E-03	mg/kg-day	4.9E-04
				2-Methylphenol	2E+01	ug/L	9.1E-07	mg/kg-day	N/A	N/A	N/A	7.0E-06	mg/kg-day	5.0E-02	mg/kg-day	1.4E-04
				bis(2-Ethylhexyl)phthalat	2E+00	ug/L	1.0E-07	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	1.5E-09	8.1E-07	mg/kg-day	2.0E-02	mg/kg-day	4.0E-05
				Naphthalene	3E+01	ug/L	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	2.0E-02	mg/kg-day	6.1E-04
				Pentachlorophenol	2E+00	ug/L	1.0E-07	mg/kg-day	1.2E-01	(mg/kg-day) $^{-1}$	1.2E-08	8.0E-07	mg/kg-day	3.0E-02	mg/kg-day	2.7E-05
				Antimony	4E+00	ug/L	2.4E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	4.0E-04	mg/kg-day	4.7E-03
				Arsenic	1E+03	ug/L	6.2E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.3E-05	4.8E-04	mg/kg-day	3.0E-04	mg/kg-day	1.6E+00
				Barium	8E+01	ug/L	4.5E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	7.0E-02	mg/kg-day	5.1E-04

TABLE 7.11.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
				Beryllium	7E-01	ug/L	3.9E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	2.0E-03	mg/kg-day	1.5E-04
				Cadmium	2E+00	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	5.0E-04	mg/kg-day	2.0E-03
				Chromium	4E+01	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.5E+00	mg/kg-day	1.0E-05
				Lead												
				Manganese (dw)	1E+03	ug/L	8.2E-05	mg/kg-day	N/A	N/A	N/A	6.4E-04	mg/kg-day	2.4E-02	mg/kg-day	2.7E-02
				Mercury	5E-01	ug/L	2.7E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Nickel	2E+01	ug/L	9.3E-07	mg/kg-day	N/A	N/A	N/A	7.2E-06	mg/kg-day	2.0E-02	mg/kg-day	3.6E-04
				Selenium	4E+00	ug/L	2.3E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	5.0E-03	mg/kg-day	3.6E-04
				Thallium	5E+00	ug/L	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	8.0E-05	mg/kg-day	2.5E-02
				Vanadium	2E+01	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	1.0E-03	mg/kg-day	8.8E-03
				Zinc	1E+03	ug/L	5.6E-05	mg/kg-day	N/A	N/A	N/A	4.3E-04	mg/kg-day	3.0E-01	mg/kg-day	1.4E-03
			Exp. Route Total								1E-04					2E+00
			Dermal													
				1,1-Dichloroethene	1E+00	ug/L	4.8E-08	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	5.0E-02	mg/kg-day	7.4E-06
				1,2-Dichloroethane	2E+00	ug/L	3.9E-08	mg/kg-day	9.1E-02	(mg/kg-day) $^{-1}$	3.6E-09	3.0E-07	mg/kg-day	2.0E-02	mg/kg-day	1.5E-05
				1,4-Dichlorobenzene	8E-01	ug/L	2.1E-07	mg/kg-day	2.4E-02	(mg/kg-day) $^{-1}$	5.1E-09	1.6E-06	mg/kg-day	3.0E-02	mg/kg-day	5.5E-05
				Acetone	8E+02	ug/L	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	9.0E-01	mg/kg-day	1.2E-05
				Benzene	2E+03	ug/L	1.4E-04	mg/kg-day	5.5E-02	(mg/kg-day) $^{-1}$	7.4E-06	1.1E-03	mg/kg-day	4.0E-03	mg/kg-day	2.6E-01
				Chlorobenzene	3E+00	ug/L	3.8E-07	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	2.0E-02	mg/kg-day	1.5E-04
				Chloroethane	2E+00	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	4.0E-01	mg/kg-day	8.6E-07
				Chloroform	7E-01	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	1.0E-02	mg/kg-day	2.0E-05
				cis-1,2-Dichloroethene	3E+00	ug/L	1.2E-07	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-02	mg/kg-day	9.7E-05
				Methyl tert-Butyl Ether	4E+02	ug/L	3.6E-06	mg/kg-day	1.8E-03	(mg/kg-day) $^{-1}$	6.4E-09	2.8E-05	mg/kg-day	3.0E-01	mg/kg-day	9.2E-05
				Tetrachloroethene	7E-01	ug/L	1.5E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	8.1E-08	1.2E-06	mg/kg-day	1.0E-02	mg/kg-day	1.2E-04
				Toluene	2E+02	ug/L	3.1E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	2.0E-01	mg/kg-day	1.2E-03
				Trichloroethene	9E+00	ug/L	5.9E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.4E-07	4.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
				Vinyl Chloride	7E-01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-08	9.8E-08	mg/kg-day	3.0E-03	mg/kg-day	3.3E-05
				Xylene, total	9E+00	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.0E-01	mg/kg-day	7.5E-05
				2,4-Dichlorophenol	3E+00	ug/L	4.7E-07	mg/kg-day	N/A	N/A	N/A	3.7E-06	mg/kg-day	3.0E-03	mg/kg-day	1.2E-03
				2-Methylphenol	2E+01	ug/L	5.8E-07	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	5.0E-02	mg/kg-day	9.1E-05
				bis(2-Ethylhexyl)phthalat	2E+00	ug/L	1.1E-06	mg/kg-day	1.4E-02	(mg/kg-day) $^{-1}$	1.5E-08	8.4E-06	mg/kg-day	2.0E-02	mg/kg-day	4.2E-04

TABLE 7.11.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
				Naphthalene	3E+01	ug/L	7.0E-06	mg/kg-day	N/A	N/A	N/A	5.4E-05	mg/kg-day	2.0E-02	mg/kg-day	2.7E-03
				Pentachlorophenol	2E+00	ug/L	8.4E-06	mg/kg-day	1.2E-01	(mg/kg-day) $^{-1}$	1.0E-06	6.6E-05	mg/kg-day	3.0E-02	mg/kg-day	2.2E-03
				Antimony	4E+00	ug/L	7.9E-09	mg/kg-day	N/A	N/A	N/A	6.1E-08	mg/kg-day	6.0E-05	mg/kg-day	1.0E-03
				Arsenic	1E+03	ug/L	2.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.1E-06	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.3E-02
				Barium	8E+01	ug/L	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	4.9E-03	mg/kg-day	2.4E-04
				Beryllium	7E-01	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	9.9E-09	mg/kg-day	1.4E-05	mg/kg-day	7.1E-04
				Cadmium	2E+00	ug/L	4.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-08	mg/kg-day	2.5E-05	mg/kg-day	1.3E-03
				Chromium	4E+01	ug/L	6.4E-08	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	2.0E-02	mg/kg-day	2.5E-05
				Lead												
				Manganese	1E+03	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	2.8E-03	mg/kg-day	7.5E-03
				Mercury	5E-01	ug/L	8.9E-10	mg/kg-day	N/A	N/A	N/A	6.9E-09	mg/kg-day	2.1E-05	mg/kg-day	3.3E-04
				Nickel	2E+01	ug/L	6.1E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	8.0E-04	mg/kg-day	6.0E-05
				Selenium	4E+00	ug/L	7.6E-09	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	5.0E-03	mg/kg-day	1.2E-05
				Thallium	5E+00	ug/L	8.6E-09	mg/kg-day	N/A	N/A	N/A	6.7E-08	mg/kg-day	8.0E-05	mg/kg-day	8.4E-04
				Vanadium	2E+01	ug/L	3.7E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	2.6E-05	mg/kg-day	1.1E-02
				Zinc	1E+03	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	8.6E-06	mg/kg-day	3.0E-01	mg/kg-day	2.9E-05
			Exp. Route Total								1E-05					4E-01
		Exposure Point Total									1E-04					2E+00
		Class A	Ingestion													
				Arsenic	4E+01	ug/L	2.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.1E-06	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.4E-02
				Cadmium	2E+00	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	5.0E-04	mg/kg-day	2.0E-03
				Chromium	1E+01	ug/L	6.3E-07	mg/kg-day	N/A	N/A	N/A	4.9E-06	mg/kg-day	1.5E+00	mg/kg-day	3.3E-06
				Manganese (dw)	2E+03	ug/L	1.3E-04	mg/kg-day	N/A	N/A	N/A	9.8E-04	mg/kg-day	2.4E-02	mg/kg-day	4.1E-02
				Thallium	3E+00	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	8.0E-05	mg/kg-day	1.4E-02
			Exp. Route Total								3E-06					1E-01
			Dermal													
				Arsenic	4E+01	ug/L	6.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	5.3E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
				Cadmium	2E+00	ug/L	4.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-08	mg/kg-day	2.5E-05	mg/kg-day	1.3E-03
				Chromium	1E+01	ug/L	2.1E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.3E-06
				Manganese	2E+03	ug/L	4.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	2.8E-03	mg/kg-day	1.2E-02
				Thallium	3E+00	ug/L	4.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	8.0E-05	mg/kg-day	4.5E-04
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									3E-06					1E-01
	Exposure Medium Total										N/A					N/A

TABLE 7.11.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
	Indoor Air	Study Area	Inhalation													
				1,1-Dichloroethene	3E+00	ug/m3	6.6E-02	ug/m3	N/A	N/A	N/A	5.1E-01	ug/m3	2.0E+02	ug/m3	2.6E-03
				1,2,4-Trichlorobenzene	7E-01	ug/m3	1.8E-02	ug/m3	N/A	N/A	N/A	1.4E-01	ug/m3	4.0E+00	ug/m3	3.4E-02
				1,2-Dichlorobenzene	3E+00	ug/m3	8.2E-02	ug/m3	N/A	N/A	N/A	6.4E-01	ug/m3	2.0E+02	ug/m3	3.2E-03
				1,2-Dichloroethane	6E+00	ug/m3	1.4E-01	ug/m3	2.6E-05	$ug/m3^{-1}$	3.7E-06	1.1E+00	ug/m3	5.0E+00	ug/m3	2.2E-01
				1,4-Dichlorobenzene	2E+00	ug/m3	5.8E-02	ug/m3	N/A	N/A	N/A	4.5E-01	ug/m3	8.0E+02	ug/m3	5.6E-04
				2-Butanone	6E+01	ug/m3	1.4E+00	ug/m3	N/A	N/A	N/A	1.1E+01	ug/m3	5.0E+03	ug/m3	2.2E-03
				4-Methyl-2-Pentanone	3E+01	ug/m3	6.5E-01	ug/m3	N/A	N/A	N/A	5.1E+00	ug/m3	3.0E+03	ug/m3	1.7E-03
				Acetone	2E+03	ug/m3	5.2E+01	ug/m3	N/A	N/A	N/A	4.1E+02	ug/m3	N/A	N/A	N/A
				Benzene	6E+03	ug/m3	1.6E+02	ug/m3	7.8E-06	$ug/m3^{-1}$	1.3E-03	1.3E+03	ug/m3	3.0E+01	ug/m3	4.3E+01
				Chlorobenzene	7E+00	ug/m3	1.9E-01	ug/m3	N/A	N/A	N/A	1.5E+00	ug/m3	6.0E+01	ug/m3	2.5E-02
				Chloroethane	6E+00	ug/m3	1.4E-01	ug/m3	N/A	N/A	N/A	1.1E+00	ug/m3	1.0E+04	ug/m3	1.1E-04
				Chloroform	2E+00	ug/m3	5.0E-02	ug/m3	2.3E-05	$ug/m3^{-1}$	1.2E-06	3.9E-01	ug/m3	5.0E+01	ug/m3	7.8E-03
				cis-1,2-Dichloroethene	7E+00	ug/m3	1.8E-01	ug/m3	N/A	N/A	N/A	1.4E+00	ug/m3	2.0E+02	ug/m3	6.9E-03
				Methyl tert-Butyl Ether	1E+03	ug/m3	2.8E+01	ug/m3	4.5E-08	$(ug/m3)^{-1}$	1.3E-06	2.2E+02	ug/m3	3.0E+03	ug/m3	7.2E-02
				Tetrachloroethene	2E+00	ug/m3	4.5E-02	ug/m3	5.9E-06	$(ug/m3)^{-1}$	2.7E-07	3.5E-01	ug/m3	2.7E+02	ug/m3	1.3E-03
				Toluene	6E+02	ug/m3	1.6E+01	ug/m3	N/A	N/A	N/A	1.3E+02	ug/m3	4.0E+02	ug/m3	3.2E-01
				Trichloroethene	3E+01	ug/m3	6.5E-01	ug/m3	1.1E-04	$(ug/m3)^{-1}$	7.2E-05	5.1E+00	ug/m3	4.0E+01	ug/m3	1.3E-01
				Vinyl Chloride	2E+00	ug/m3	4.4E-02	ug/m3	4.4E-06	$(ug/m3)^{-1}$	1.9E-07	3.4E-01	ug/m3	1.0E+02	ug/m3	3.4E-03
				Xylene, total	2E+01	ug/m3	6.2E-01	ug/m3	N/A	N/A	N/A	4.8E+00	ug/m3	1.0E+02	ug/m3	4.8E-02
				2-Chloronaphthalene	6E+00	ug/m3	1.6E-01	ug/m3	N/A	N/A	N/A	1.2E+00	ug/m3	3.0E+00	ug/m3	4.1E-01
				Naphthalene	7E+01	ug/m3	1.9E+00	ug/m3	N/A	N/A	N/A	1.5E+01	ug/m3	3.0E+00	ug/m3	4.9E+00
			Exp. Route Total								1E-03					5E+01
		Exposure Point Total									1E-03					5E+01
		Class A	Inhalation													
				Methyl tert-Butyl Ether	2E+00	ug/m3	4.9E-02	ug/m3	4.5E-08	$(ug/m3)^{-1}$	2.2E-09	3.8E-01	ug/m3	3.0E+03	ug/m3	1.3E-04
			Exp. Route Total								2E-09					1E-04
		Exposure Point Total									2E-09					1E-04
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.12.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Car Wash Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater	Indoor Air	Study Area	Inhalation													
				1,1-Dichloroethene	3E+00	ug/m3	2.9E-01	ug/m3	N/A	N/A	N/A	8.0E-01	ug/m3	2.0E+02	ug/m3	4.0E-03
				1,2,4-Trichlorobenzene	6E-01	ug/m3	5.2E-02	ug/m3	N/A	N/A	N/A	1.5E-01	ug/m3	4.0E+00	ug/m3	3.6E-02
				1,2-Dichlorobenzene	3E+00	ug/m3	2.7E-01	ug/m3	N/A	N/A	N/A	7.6E-01	ug/m3	2.0E+02	ug/m3	3.8E-03
				1,2-Dichloroethane	7E+00	ug/m3	5.5E-01	ug/m3	2.6E-05	$ug/m3^{-1}$	1.4E-05	1.5E+00	ug/m3	5.0E+00	ug/m3	3.1E-01
				1,4-Dichlorobenzene	2E+00	ug/m3	2.0E-01	ug/m3	N/A	N/A	N/A	5.7E-01	ug/m3	8.0E+02	ug/m3	7.1E-04
				4-Methyl-2-Pentanone	2E+01	ug/m3	2.0E+00	ug/m3	N/A	N/A	N/A	5.7E+00	ug/m3	3.0E+03	ug/m3	1.9E-03
				Acetone	7E+02	ug/m3	5.4E+01	ug/m3	N/A	N/A	N/A	1.5E+02	ug/m3	N/A	N/A	N/A
				Benzene	9E+03	ug/m3	7.6E+02	ug/m3	7.8E-06	$ug/m3^{-1}$	5.9E-03	2.1E+03	ug/m3	3.0E+01	ug/m3	7.1E+01
				Chlorobenzene	9E+00	ug/m3	7.6E-01	ug/m3	N/A	N/A	N/A	2.1E+00	ug/m3	6.0E+01	ug/m3	3.5E-02
				Chloroethane	9E+00	ug/m3	7.2E-01	ug/m3	N/A	N/A	N/A	2.0E+00	ug/m3	1.0E+04	ug/m3	2.0E-04
				Chloroform	2E+00	ug/m3	2.0E-01	ug/m3	2.3E-05	$ug/m3^{-1}$	4.6E-06	5.5E-01	ug/m3	5.0E+01	ug/m3	1.1E-02
				cis-1,2-Dichloroethene	9E+00	ug/m3	7.7E-01	ug/m3	N/A	N/A	N/A	2.1E+00	ug/m3	2.0E+02	ug/m3	1.1E-02
				Methyl tert-Butyl Ether	1E+03	ug/m3	9.9E+01	ug/m3	4.5E-08	$(ug/m3)^{-1}$	4.4E-06	2.8E+02	ug/m3	3.0E+03	ug/m3	9.2E-02
				Tetrachloroethene	2E+00	ug/m3	1.6E-01	ug/m3	5.9E-06	$(ug/m3)^{-1}$	9.6E-07	4.5E-01	ug/m3	2.7E+02	ug/m3	1.7E-03
				Toluene	9E+02	ug/m3	7.2E+01	ug/m3	N/A	N/A	N/A	2.0E+02	ug/m3	4.0E+02	ug/m3	5.0E-01
				trans-1,2-Dichloroethene	2E+00	ug/m3	2.0E-01	ug/m3	N/A	N/A	N/A	5.5E-01	ug/m3	6.0E+01	ug/m3	9.1E-03
				Trichloroethene	3E+01	ug/m3	2.5E+00	ug/m3	1.1E-04	$(ug/m3)^{-1}$	2.8E-04	7.0E+00	ug/m3	4.0E+01	ug/m3	1.8E-01
				Vinyl Chloride	3E+00	ug/m3	2.3E-01	ug/m3	4.4E-06	$(ug/m3)^{-1}$	1.0E-06	6.4E-01	ug/m3	1.0E+02	ug/m3	6.4E-03
				Xylene, total	3E+01	ug/m3	2.5E+00	ug/m3	N/A	N/A	N/A	7.1E+00	ug/m3	1.0E+02	ug/m3	7.1E-02
				2-Chloronaphthalene	4E+00	ug/m3	3.4E-01	ug/m3	N/A	N/A	N/A	9.6E-01	ug/m3	3.0E+00	ug/m3	3.2E-01
				Naphthalene	7E+01	ug/m3	5.4E+00	ug/m3	N/A	N/A	N/A	1.5E+01	ug/m3	3.0E+00	ug/m3	5.0E+00
			Exp. Route Total								6E-03					8E+01
		Exposure Point Total									6E-03					8E+01
		Class A	Inhalation													
				Methyl tert-Butyl Ether	2E+00	ug/m3	1.7E-01	ug/m3	4.5E-08	$(ug/m3)^{-1}$	7.8E-09	4.9E-01	ug/m3	3.0E+03	ug/m3	1.6E-04
				Xylene, total	7E+00	ug/m3	5.4E-01	ug/m3	N/A	N/A	N/A	1.5E+00	ug/m3	1.0E+02	ug/m3	1.5E-02
			Exp. Route Total								8E-09					2E-02
		Exposure Point Total									8E-09					2E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 7.12.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Car Wash Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater	Indoor Air	Study Area	Inhalation													
				1,1-Dichloroethene	3E+00	ug/m3	9.0E-02	ug/m3	N/A	N/A	N/A	7.0E-01	ug/m3	2.0E+02	ug/m3	3.5E-03
				1,2,4-Trichlorobenzene	6E-01	ug/m3	1.6E-02	ug/m3	N/A	N/A	N/A	1.3E-01	ug/m3	4.0E+00	ug/m3	3.2E-02
				1,2-Dichlorobenzene	3E+00	ug/m3	8.5E-02	ug/m3	N/A	N/A	N/A	6.6E-01	ug/m3	2.0E+02	ug/m3	3.3E-03
				1,2-Dichloroethane	7E+00	ug/m3	1.7E-01	ug/m3	2.6E-05	ug/m3 $^{-1}$	4.5E-06	1.4E+00	ug/m3	5.0E+00	ug/m3	2.7E-01
				1,4-Dichlorobenzene	2E+00	ug/m3	6.4E-02	ug/m3	N/A	N/A	N/A	5.0E-01	ug/m3	8.0E+02	ug/m3	6.2E-04
				4-Methyl-2-Pentanone	2E+01	ug/m3	6.4E-01	ug/m3	N/A	N/A	N/A	5.0E+00	ug/m3	3.0E+03	ug/m3	1.7E-03
				Acetone	7E+02	ug/m3	1.7E+01	ug/m3	N/A	N/A	N/A	1.3E+02	ug/m3	N/A	N/A	N/A
				Benzene	9E+03	ug/m3	2.4E+02	ug/m3	7.8E-06	ug/m3 $^{-1}$	1.9E-03	1.9E+03	ug/m3	3.0E+01	ug/m3	6.2E+01
				Chlorobenzene	9E+00	ug/m3	2.4E-01	ug/m3	N/A	N/A	N/A	1.9E+00	ug/m3	6.0E+01	ug/m3	3.1E-02
				Chloroethane	9E+00	ug/m3	2.3E-01	ug/m3	N/A	N/A	N/A	1.8E+00	ug/m3	1.0E+04	ug/m3	1.8E-04
				Chloroform	2E+00	ug/m3	6.2E-02	ug/m3	2.3E-05	ug/m3 $^{-1}$	1.4E-06	4.9E-01	ug/m3	5.0E+01	ug/m3	9.7E-03
				cis-1,2-Dichloroethene	9E+00	ug/m3	2.4E-01	ug/m3	N/A	N/A	N/A	1.9E+00	ug/m3	2.0E+02	ug/m3	9.4E-03
				Methyl tert-Butyl Ether	1E+03	ug/m3	3.1E+01	ug/m3	4.5E-08	(ug/m3) $^{-1}$	1.4E-06	2.4E+02	ug/m3	3.0E+03	ug/m3	8.1E-02
				Tetrachloroethene	2E+00	ug/m3	5.1E-02	ug/m3	5.9E-06	(ug/m3) $^{-1}$	3.0E-07	4.0E-01	ug/m3	2.7E+02	ug/m3	1.5E-03
				Toluene	9E+02	ug/m3	2.3E+01	ug/m3	N/A	N/A	N/A	1.8E+02	ug/m3	4.0E+02	ug/m3	4.4E-01
				trans-1,2-Dichloroethene	2E+00	ug/m3	6.2E-02	ug/m3	N/A	N/A	N/A	4.8E-01	ug/m3	6.0E+01	ug/m3	8.0E-03
				Trichloroethene	3E+01	ug/m3	7.9E-01	ug/m3	1.1E-04	(ug/m3) $^{-1}$	8.7E-05	6.1E+00	ug/m3	4.0E+01	ug/m3	1.5E-01
				Vinyl Chloride	3E+00	ug/m3	7.2E-02	ug/m3	4.4E-06	(ug/m3) $^{-1}$	3.2E-07	5.6E-01	ug/m3	1.0E+02	ug/m3	5.6E-03
				Xylene, total	3E+01	ug/m3	8.0E-01	ug/m3	N/A	N/A	N/A	6.3E+00	ug/m3	1.0E+02	ug/m3	6.3E-02
				2-Chloronaphthalene	4E+00	ug/m3	1.1E-01	ug/m3	N/A	N/A	N/A	8.4E-01	ug/m3	3.0E+00	ug/m3	2.8E-01
				Naphthalene	7E+01	ug/m3	1.7E+00	ug/m3	N/A	N/A	N/A	1.3E+01	ug/m3	3.0E+00	ug/m3	4.4E+00
			Exp. Route Total								2E-03					7E+01
		Exposure Point Total									2E-03					7E+01
		Class A	Inhalation													
				Methyl tert-Butyl Ether	2E+00	ug/m3	5.5E-02	ug/m3	4.5E-08	(ug/m3) $^{-1}$	2.5E-09	4.3E-01	ug/m3	3.0E+03	ug/m3	1.4E-04
				Xylene, total	7E+00	ug/m3	1.7E-01	ug/m3	N/A	N/A	N/A	1.3E+00	ug/m3	1.0E+02	ug/m3	1.3E-02
			Exp. Route Total								2E-09					1E-02
		Exposure Point Total									2E-09					1E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
										Total of Receptor Risks Across All Media	N/A				Total of Receptor Hazards Across All Media	N/A

TABLE 8.1.RME

CALCULATION OF RADIATION CANCER RISKS

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe:	
Receptor Population:	
Receptor Age:	

Medium	Exposure Medium	Exposure Point	Exposure Route	Radionuclide of Potential Concern	EPC		Risk Calculation Approach	Cancer Risk Calculations				
					Value	Units		Intake/Activity		CSF		Cancer Risk
								Value	Units	Value	Units	
				Not Applicable								
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
Medium Total												
											Total of Receptor Risks Across All Media	

TABLE 8.1.CT

CALCULATION OF RADIATION CANCER RISKS

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe:	
Receptor Population:	
Receptor Age:	

Medium	Exposure Medium	Exposure Point	Exposure Route	Radionuclide of Potential Concern	EPC		Risk Calculation Approach	Cancer Risk Calculations				
					Value	Units		Intake/Activity		CSF		Cancer Risk
								Value	Units	Value	Units	
				Not Applicable								
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
Medium Total												
											Total of Receptor Risks Across All Media	

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB01-Baseflow											
			Trichloroethene	--	- -	9E-09	- -	9E-09	Liver	- -	- -	9E-04	9E-04
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	1E-03	1E-03
			Arsenic	--	- -	2E-08	- -	2E-08	Skin	- -	- -	5E-04	5E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	2E-04	2E-04
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	5E-04	5E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	4E-03	4E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					4E-03
	Exposure Medium Total							3E-08					4E-03
Medium Total								3E-08					4E-03
Sediment	Sediment	HB01/A6											
			Benzo(a)anthracene	5E-09	- -	1E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	5E-08	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	8E-09	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			bis(2-Ethylhexyl)phthalate	3E-09	- -	N/A	- -	3E-09	Liver	1E-04	- -	N/A	1E-04
			Dibenz(a,h)anthracene	8E-09	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	4E-09	- -	9E-09	- -	1E-08	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	2E-03	- -	N/A	2E-03
			Arsenic	1E-06	- -	1E-06	- -	3E-06	Skin	3E-02	- -	3E-02	7E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	8E-04	2E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-04	- -	N/A	2E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	7E-03	- -	N/A	7E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	N/A	1E-03
			Chemical Total	1E-06	- -	2E-06	- -	3E-06		5E-02	- -	4E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						3E-06					8E-02
	Exposure Medium Total							3E-06					8E-02
Medium Total								3E-06					8E-02

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB01/A6											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	8E-03	- -	N/A	8E-03
			Arsenic	5E-06	- -	3E-06	- -	7E-06	Skin	1E-01	- -	7E-02	2E-01
			Copper	N/A	- -	N/A	- -	N/A	Kidney	9E-04	- -	N/A	9E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-04	- -	N/A	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	6E-03	- -	N/A	6E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-02	- -	N/A	2E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Chromium VI	N/A	- -	N/A	- -	N/A	GI System	4E-04	- -	N/A	4E-04
			Chemical Total	5E-06	- -	3E-06	- -	7E-06		2E-01	- -	7E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						7E-06					2E-01
	Exposure Medium Total							7E-06					2E-01
Medium Total								7E-06					2E-01
Receptor Total								1E-05					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to	1E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to	1E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to	1E-05

Total Blood HI =	2E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	1E-02
Total GI System HI =	4E-04
Total Immune System HI =	N/A
Total Kidney HI =	9E-03
Total Liver HI =	1E-03
Total Nervous System HI =	8E-03
Total Skin HI =	3E-01
Total Respiratory HI =	N/A

TABLE 9.1.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB01-Baseflow											
			Trichloroethene	--	- -	2E-09	- -	2E-09	Liver	- -	- -	6E-04	6E-04
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	2E-04	2E-04
			Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	2E-04	2E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	9E-05	9E-05
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	5E-09	- -	5E-09		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					2E-03
	Exposure Medium Total							5E-09					2E-03
Medium Total								5E-09					2E-03
Sediment	Sediment	HB01/A6											
			Benzo(a)anthracene	8E-10	- -	4E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	9E-09	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-09	- -	6E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			bis(2-Ethylhexyl)phthalate	5E-10	- -	N/A	- -	5E-10	Liver	6E-05	- -	N/A	6E-05
			Dibenz(a,h)anthracene	1E-09	- -	6E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	6E-10	- -	3E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	8E-04	- -	N/A	8E-04
			Arsenic	2E-07	- -	4E-07	- -	7E-07	Skin	2E-02	- -	3E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	8E-04	1E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-04	- -	N/A	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	5E-04	- -	N/A	5E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	8E-04	- -	N/A	8E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	8E-04	- -	N/A	8E-04
			Zinc	N/A	- -	N/A	- -	N/A	Blood	6E-04	- -	N/A	6E-04
			Chemical Total	2E-07	- -	5E-07	- -	7E-07		2E-02	- -	4E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					6E-02
	Exposure Medium Total							7E-07					6E-02
Medium Total								7E-07					6E-02

TABLE 9.1.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB01/A6											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	9E-04	- -	N/A	9E-04
			Arsenic	8E-07	- -	9E-07	- -	2E-06	Skin	6E-02	- -	7E-02	1E-01
			Copper	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	N/A	4E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	7E-05	- -	N/A	7E-05
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	3E-03	- -	N/A	3E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	8E-03	- -	N/A	8E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	7E-04	- -	N/A	7E-04
			Chromium VI	N/A	- -	N/A	- -	N/A	GI System	2E-04	- -	N/A	2E-04
			Chemical Total	8E-07	- -	9E-07	- -	2E-06		8E-02	- -	7E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								2E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-06

Total Blood HI =	9E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-03
Total GI System HI =	2E-04
Total Immune System HI =	N/A
Total Kidney HI =	5E-03
Total Liver HI =	7E-04
Total Nervous System HI =	4E-03
Total Skin HI =	2E-01
Total Respiratory HI =	N/A

TABLE 9.2.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB03-Baseflow											
			Trichloroethene	--	- -	9E-09	- -	9E-09	Liver	- -	- -	8E-04	8E-04
			Arsenic	--	- -	2E-08	- -	2E-08	Skin	- -	- -	6E-04	6E-04
			Chromium	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	2E-06	2E-06
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	4E-03	4E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					4E-03
	Exposure Medium Total							3E-08					4E-03
Medium Total								3E-08					4E-03
Sediment	Sediment	HB03											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	1E-03	- -	N/A	1E-03
			Arsenic	1E-06	- -	1E-06	- -	3E-06	Skin	3E-02	- -	4E-02	7E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-04	- -	5E-04	1E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	8E-04	- -	N/A	8E-04
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-03	- -	N/A	2E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	8E-04	- -	N/A	8E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-03	- -	N/A	3E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	N/A	3E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	4E-04	- -	N/A	4E-04
			Chemical Total	1E-06	- -	1E-06	- -	3E-06		5E-02	- -	4E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						3E-06					8E-02
	Exposure Medium Total							3E-06					8E-02
Medium Total								3E-06					8E-02
Receptor Total								3E-06					9E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 9E-02

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-06

Total Blood HI =	4E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	1E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	6E-03
Total Liver HI =	8E-04
Total Nervous System HI =	4E-03
Total Skin HI =	7E-02
Total Respiratory HI =	N/A

TABLE 9.2.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB03-Baseflow											
			Trichloroethene	--	- -	2E-09	- -	2E-09	Liver	- -	- -	6E-04	6E-04
			Arsenic	--	- -	4E-09	- -	4E-09	Skin	- -	- -	3E-04	3E-04
			Chromium	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	1E-06	1E-06
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	7E-04	7E-04
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	6E-09	- -	6E-09		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						6E-09					2E-03
	Exposure Medium Total							6E-09					2E-03
Medium Total								6E-09					2E-03
Sediment	Sediment	HB03											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	5E-04	- -	N/A	5E-04
			Arsenic	2E-07	- -	5E-07	- -	7E-07	Skin	2E-02	- -	4E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	5E-04	9E-04
			Copper	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	N/A	4E-04
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	4E-04	- -	N/A	4E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	2E-04	- -	N/A	2E-04
			Chemical Total	2E-07	- -	5E-07	- -	7E-07		2E-02	- -	4E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					6E-02
	Exposure Medium Total							7E-07					6E-02
Medium Total								7E-07					6E-02
Receptor Total								7E-07					6E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-07

Total Hazard Across All Media: 6E-02

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 7E-07
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 7E-07
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 7E-07

Total Blood HI =	2E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	5E-04
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-03
Total Liver HI =	6E-04
Total Nervous System HI =	2E-03
Total Skin HI =	5E-02
Total Respiratory HI =	N/A

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	AR-Baseflow											
			Arsenic	--	- -	2E-08	- -	2E-08	Skin	- -	- -	5E-04	5E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	2E-08	- -	2E-08		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						2E-08					2E-03
	Exposure Medium Total							2E-08					2E-03
Medium Total								2E-08					2E-03
Sediment	Sediment	AR											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	2E-03	- -	N/A	2E-03
			Arsenic	3E-06	- -	3E-06	- -	5E-06	Skin	7E-02	- -	7E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	4E-04	9E-04
			Copper	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	N/A	3E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	3E-04	- -	N/A	3E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	N/A	3E-03
			Chemical Total	3E-06	- -	3E-06	- -	5E-06		8E-02	- -	7E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						5E-06					1E-01
	Exposure Medium Total							5E-06					1E-01
Medium Total								5E-06					1E-01
Receptor Total								5E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-06

Total Hazard Across All Media: 2E-01

Total Blood HI =	2E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	7E-03
Total Liver HI =	N/A
Total Nervous System HI =	3E-03
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.3.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	AR-Baseflow											
			Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	2E-04	2E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Chemical Total	--	- -	3E-09	- -	3E-09		- -	- -	8E-04	8E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					8E-04
	Exposure Medium Total							3E-09					8E-04
Medium Total								3E-09					8E-04
Sediment	Sediment	AR											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	9E-04	- -	N/A	9E-04
			Arsenic	4E-07	- -	9E-07	- -	1E-06	Skin	3E-02	- -	7E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	4E-04	7E-04
			Copper	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-04	- -	N/A	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	7E-04	- -	N/A	7E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	N/A	1E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Chemical Total	4E-07	- -	9E-07	- -	1E-06		4E-02	- -	7E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					1E-01
	Exposure Medium Total							1E-06					1E-01
Medium Total								1E-06					1E-01
Receptor Total								1E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 1E-01

Total Blood HI =	1E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	9E-04
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-03
Total Liver HI =	N/A
Total Nervous System HI =	1E-03
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.4.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	BE-1											
			Arsenic	1E-07	- -	1E-07	- -	2E-07	Skin	3E-03	- -	3E-03	6E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Chemical Total	1E-07	- -	1E-07	- -	2E-07		5E-03	- -	3E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						2E-07					8E-03
	Exposure Medium Total							2E-07					8E-03
Medium Total								2E-07					8E-03
Receptor Total								2E-07					8E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 8E-03

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	2E-03
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	6E-03
Total Respiratory HI =	N/A

TABLE 9.4.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	BE-1	Arsenic	1E-08	- -	3E-08	- -	5E-08	Skin	1E-03	- -	2E-03	4E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	9E-04	- -	N/A	9E-04
			Chemical Total	1E-08	- -	3E-08	- -	5E-08		2E-03	- -	2E-03	4E-03
			Radionuclide Total										
		Exposure Point Total						5E-08					4E-03
	Exposure Medium Total							5E-08					4E-03
Medium Total								5E-08					4E-03
Receptor Total								5E-08					4E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-08

Total Hazard Across All Media: 4E-03

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	9E-04
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	4E-03
Total Respiratory HI =	N/A

TABLE 9.5.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB04											
			Arsenic	2E-07	- -	1E-07	- -	3E-07	Skin	5E-03	- -	3E-03	8E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	6E-04	- -	N/A	6E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	7E-04	- -	N/A	7E-04
			Chemical Total	2E-07	- -	1E-07	- -	3E-07		7E-03	- -	3E-03	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-07					1E-02
	Exposure Medium Total							3E-07					1E-02
Medium Total								3E-07					1E-02
Receptor Total								3E-07					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-07

Total Hazard Across All Media: 1E-02

Total Blood HI =	6E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	7E-04
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	8E-03
Total Respiratory HI =	N/A

TABLE 9.5.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB04											
			Arsenic	4E-08	- -	4E-08	- -	7E-08	Skin	3E-03	- -	3E-03	6E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-04	- -	N/A	3E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	N/A	3E-04
			Chemical Total	4E-08	- -	4E-08	- -	7E-08		3E-03	- -	3E-03	6E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					6E-03
	Exposure Medium Total							7E-08					6E-03
Medium Total								7E-08					6E-03
Receptor Total								7E-08					6E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-08

Total Hazard Across All Media: 6E-03

Total Blood HI =	3E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-04
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	6E-03
Total Respiratory HI =	N/A

TABLE 9.6.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	SO											
			Benzo(a)anthracene	1E-07	- -	8E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-07	- -	2E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	2E-07	- -	2E-07	- -	4E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-07	- -	9E-08	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	3E-05	- -	2E-05	5E-05
			Arsenic	6E-06	- -	1E-06	- -	7E-06	Skin	4E-02	- -	7E-03	4E-02
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	3E-04	- -	N/A	3E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	2E-03	- -	N/A	2E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	N/A	3E-03
			Chemical Total	8E-06	- -	3E-06	- -	1E-05		4E-02	- -	7E-03	5E-02
			Radionuclide Total										
		Exposure Point Total						1E-05					5E-02
	Exposure Medium Total							1E-05					5E-02
Medium Total								1E-05					5E-02
Receptor Total								1E-05					5E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 5E-02

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	5E-05
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-03
Total Liver HI =	N/A
Total Nervous System HI =	3E-03
Total Skin HI =	4E-02
Total Respiratory HI =	N/A

TABLE 9.6.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	SO											
			Benzo(a)anthracene	2E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	2E-07	- -	2E-07	- -	4E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	3E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	4E-08	- -	3E-08	- -	7E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	1E-05	- -	1E-05	2E-05
			Arsenic	1E-06	- -	2E-07	- -	1E-06	Skin	2E-02	- -	4E-03	2E-02
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-04	- -	N/A	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Chemical Total	1E-06	- -	5E-07	- -	2E-06		2E-02	- -	4E-03	2E-02
			Radionuclide Total										
		Exposure Point Total						2E-06					2E-02
	Exposure Medium Total							2E-06					2E-02
Medium Total								2E-06					2E-02
Receptor Total								2E-06					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 2E-02

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-05
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-03
Total Liver HI =	N/A
Total Nervous System HI =	1E-03
Total Skin HI =	2E-02
Total Respiratory HI =	N/A

TABLE 9.7.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB04											
			Arsenic	2E-06	- -	3E-07	- -	2E-06	Skin	1E-02	- -	2E-03	1E-02
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	N/A	1E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Chemical Total	2E-06	- -	3E-07	- -	2E-06		1E-02	- -	2E-03	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-02
	Exposure Medium Total							2E-06					1E-02
Medium Total								2E-06					1E-02
Receptor Total								2E-06					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 1E-02

Total Blood HI =	1E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-03
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	1E-02
Total Respiratory HI =	N/A

TABLE 9.7.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB04											
			Arsenic	3E-07	- -	6E-08	- -	4E-07	Skin	5E-03	- -	1E-03	6E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	5E-04	- -	N/A	5E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	6E-04	- -	N/A	6E-04
			Chemical Total	3E-07	- -	6E-08	- -	4E-07		6E-03	- -	1E-03	7E-03
			Radionuclide Total										
		Exposure Point Total						4E-07					7E-03
	Exposure Medium Total							4E-07					7E-03
Medium Total								4E-07					7E-03
Receptor Total								4E-07					7E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-07

Total Hazard Across All Media: 7E-03

Total Blood HI =	5E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	6E-04
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	6E-03
Total Respiratory HI =	N/A

TABLE 9.8.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	SO											
			Benzo(a)anthracene	2E-06	- -	7E-07	- -	3E-06	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-05	- -	1E-05	- -	4E-05	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	4E-06	- -	1E-06	- -	5E-06	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	4E-06	- -	2E-06	- -	6E-06	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-06	- -	7E-07	- -	3E-06	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	2E-03	- -	8E-04	3E-03
			Arsenic	4E-05	- -	4E-06	- -	5E-05	Skin	1E+00	- -	9E-02	1E+00
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-02	- -	N/A	1E-02
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-01	- -	N/A	1E-01
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-01	- -	N/A	1E-01
			Chemical Total	8E-05	- -	2E-05	- -	1E-04		1E+00	- -	1E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						1E-04					1E+00
	Exposure Medium Total							1E-04					1E+00
Medium Total								1E-04					1E+00
Receptor Total								1E-04					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-04

Total Hazard Across All Media: 1E+00

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	3E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Liver HI =	N/A
Total Nervous System HI =	1E-01
Total Skin HI =	1E+00
Total Respiratory HI =	N/A

TABLE 9.8.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	SO											
			Benzo(a)anthracene	7E-08	- -	5E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-06	- -	7E-07	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-07	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	7E-08	- -	5E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	2E-04	- -	2E-04	4E-04
			Arsenic	7E-06	- -	1E-06	- -	8E-06	Skin	6E-01	- -	9E-02	7E-01
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	6E-03	- -	N/A	6E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-02	- -	N/A	1E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	6E-02	- -	N/A	6E-02
			Chemical Total	9E-06	- -	2E-06	- -	1E-05		6E-01	- -	9E-02	7E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					7E-01
	Exposure Medium Total							1E-05					7E-01
Medium Total								1E-05					7E-01
Receptor Total								1E-05					7E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 7E-01

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	4E-04
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	6E-02
Total Liver HI =	N/A
Total Nervous System HI =	2E-02
Total Skin HI =	7E-01
Total Respiratory HI =	N/A

TABLE 9.9.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment/ Surface Water	Fish Fillet Tissue	HBHA											
			Arsenic	2E-05	- -	- -	- -	2E-05	Skin	1E-01	- -	- -	1E-01
			Chromium	N/A	- -	- -	- -	N/A	General Toxicity	8E-05	- -	- -	8E-05
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-01	- -	- -	4E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Chemical Total	2E-05	- -	- -	- -	2E-05		6E-01	- -	- -	6E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					6E-01
	Exposure Medium Total							2E-05					6E-01
Medium Total								2E-05					6E-01
Receptor Total								2E-05					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 6E-01

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	8E-05
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-02
Total Liver HI =	2E-02
Total Nervous System HI =	4E-01
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.9.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Current/Future
Receptor Population: Recreational User
Receptor Age: Young Child/Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult					Non-Carcinogenic Hazard Quotient Young Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment/ Surface Water	Fish Fillet Tissue	HBHA											
			Arsenic	2E-06	- -	- -	- -	2E-06	Skin	6E-02	- -	- -	6E-02
			Chromium	N/A	- -	- -	- -	N/A	General Toxicity	3E-05	- -	- -	3E-05
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-01	- -	- -	2E-01
			Selenium	N/A	- -	- -	- -	N/A	Liver	8E-03	- -	- -	8E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Chemical Total	2E-06	- -	- -	- -	2E-06		2E-01	- -	- -	2E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					2E-01
	Exposure Medium Total							2E-06					2E-01
Medium Total								2E-06					2E-01
Receptor Total								2E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 2E-01

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	3E-05
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-02
Total Liver HI =	8E-03
Total Nervous System HI =	2E-01
Total Skin HI =	6E-02
Total Respiratory HI =	N/A

TABLE 9.10.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB01-Baseflow											
			Trichloroethene	--	- -	3E-08	- -	3E-08	Liver	- -	- -	3E-03	3E-03
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	6E-03	6E-03
			Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	2E-03	2E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	9E-04	9E-04
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	3E-03	3E-03
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						1E-07					2E-02
	Exposure Medium Total							1E-07					2E-02
Medium Total								1E-07					2E-02
Sediment	Sediment	HB01/A6											
			Benzo(a)anthracene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-07	- -	3E-07	- -	4E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-08	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			bis(2-Ethylhexyl)phthalate	6E-09	- -	N/A	- -	6E-09	Liver	2E-04	- -	N/A	2E-04
			Dibenz(a,h)anthracene	2E-08	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	7E-09	- -	2E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	3E-03	- -	N/A	3E-03
			Arsenic	3E-06	- -	3E-06	- -	5E-06	Skin	7E-02	- -	7E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	2E-03	4E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	5E-03	- -	N/A	5E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	4E-04	- -	N/A	4E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	2E-03	- -	N/A	2E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-02	- -	N/A	1E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	N/A	3E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Chemical Total	3E-06	- -	3E-06	- -	6E-06		1E-01	- -	7E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					2E-01
	Exposure Medium Total							6E-06					2E-01
Medium Total								6E-06					2E-01

TABLE 9.10.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB01/A6											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	2E-02	- -	N/A	2E-02
			Arsenic	1E-05	- -	5E-06	- -	1E-05	Skin	2E-01	- -	1E-01	4E-01
			Copper	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	3E-04	- -	N/A	3E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-02	- -	N/A	1E-02
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-02	- -	N/A	3E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	N/A	3E-03
			Chromium VI	N/A	- -	N/A	- -	N/A	GI System	9E-04	- -	N/A	9E-04
			Chemical Total	1E-05	- -	5E-06	- -	1E-05		3E-01	- -	1E-01	4E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					4E-01
	Exposure Medium Total							1E-05					4E-01
Medium Total								1E-05					4E-01
Receptor Total								2E-05					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 6E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-05

Total Blood HI =	5E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	3E-02
Total GI System HI =	9E-04
Total Immune System HI =	N/A
Total Kidney HI =	2E-02
Total Liver HI =	3E-03
Total Nervous System HI =	2E-02
Total Skin HI =	5E-01
Total Respiratory HI =	N/A

TABLE 9.10.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB01-Baseflow											
			Trichloroethene	--	- -	2E-09	- -	2E-09	Liver	- -	- -	6E-04	6E-04
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	2E-04	2E-04
			Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	2E-04	2E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	9E-05	9E-05
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	5E-09	- -	5E-09		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					2E-03
	Exposure Medium Total							5E-09					2E-03
Medium Total								5E-09					2E-03
Sediment	Sediment	HB01/A6											
			Benzo(a)anthracene	8E-10	- -	4E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	9E-09	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-09	- -	6E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			bis(2-Ethylhexyl)phthalate	5E-10	- -	N/A	- -	5E-10	Liver	6E-05	- -	N/A	6E-05
			Dibenz(a,h)anthracene	1E-09	- -	6E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	6E-10	- -	3E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	8E-04	- -	N/A	8E-04
			Arsenic	2E-07	- -	4E-07	- -	7E-07	Skin	2E-02	- -	3E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	8E-04	1E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-04	- -	N/A	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	5E-04	- -	N/A	5E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	8E-04	- -	N/A	8E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	8E-04	- -	N/A	8E-04
			Zinc	N/A	- -	N/A	- -	N/A	Blood	6E-04	- -	N/A	6E-04
			Chemical Total	2E-07	- -	5E-07	- -	7E-07		2E-02	- -	4E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					6E-02
	Exposure Medium Total							7E-07					6E-02
Medium Total								7E-07					6E-02

TABLE 9.10.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB01/A6											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	9E-04	- -	N/A	9E-04
			Arsenic	8E-07	- -	9E-07	- -	2E-06	Skin	6E-02	- -	7E-02	1E-01
			Copper	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	N/A	4E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	7E-05	- -	N/A	7E-05
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	3E-03	- -	N/A	3E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	8E-03	- -	N/A	8E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	7E-04	- -	N/A	7E-04
			Chromium VI	N/A	- -	N/A	- -	N/A	GI System	2E-04	- -	N/A	2E-04
			Chemical Total	8E-07	- -	9E-07	- -	2E-06		8E-02	- -	7E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								2E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-06

Total Blood HI =	9E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-03
Total GI System HI =	2E-04
Total Immune System HI =	N/A
Total Kidney HI =	5E-03
Total Liver HI =	7E-04
Total Nervous System HI =	4E-03
Total Skin HI =	2E-01
Total Respiratory HI =	N/A

TABLE 9.11.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB01-Baseflow											
			Trichloroethene	--	- -	3E-08	- -	3E-08	Liver	- -	- -	3E-03	3E-03
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	6E-03	6E-03
			Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	2E-03	2E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	9E-04	9E-04
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	3E-03	3E-03
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						1E-07					2E-02
	Exposure Medium Total							1E-07					2E-02
Medium Total								1E-07					2E-02
Sediment	Sediment	HB01/A6											
			Benzo(a)anthracene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-07	- -	3E-07	- -	4E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-08	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			bis(2-Ethylhexyl)phthalate	6E-09	- -	N/A	- -	6E-09	Liver	2E-04	- -	N/A	2E-04
			Dibenz(a,h)anthracene	2E-08	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	7E-09	- -	2E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	3E-03	- -	N/A	3E-03
			Arsenic	3E-06	- -	3E-06	- -	5E-06	Skin	7E-02	- -	7E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	2E-03	4E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	5E-03	- -	N/A	5E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	4E-04	- -	N/A	4E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	2E-03	- -	N/A	2E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-02	- -	N/A	1E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	N/A	3E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Chemical Total	3E-06	- -	3E-06	- -	6E-06		1E-01	- -	7E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					2E-01
	Exposure Medium Total							6E-06					2E-01
Medium Total								6E-06					2E-01

TABLE 9.11.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	HB01/A6											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	1E-02	- -	N/A	1E-02
			Arsenic	1E-05	- -	6E-06	- -	2E-05	Skin	3E-01	- -	2E-01	5E-01
			Copper	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-04	- -	N/A	2E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-02	- -	N/A	1E-02
			Thallium	N/A	- -	N/A	- -	N/A	Blood	4E-02	- -	N/A	4E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Chromium VI	N/A	- -	N/A	- -	N/A	GI System	1E-03	- -	N/A	1E-03
			Chemical Total	1E-05	- -	6E-06	- -	2E-05		4E-01	- -	2E-01	5E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					5E-01
	Exposure Medium Total							2E-05					5E-01
Medium Total								2E-05					5E-01
Receptor Total								2E-05					7E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 7E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-05

Total Blood HI =	6E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-02
Total GI System HI =	1E-03
Total Immune System HI =	N/A
Total Kidney HI =	2E-02
Total Liver HI =	3E-03
Total Nervous System HI =	2E-02
Total Skin HI =	6E-01
Total Respiratory HI =	N/A

TABLE 9.11.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB01-Baseflow											
			Trichloroethene	--	- -	2E-09	- -	2E-09	Liver	- -	- -	6E-04	6E-04
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	2E-04	2E-04
			Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	2E-04	2E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	9E-05	9E-05
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	5E-09	- -	5E-09		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					2E-03
	Exposure Medium Total							5E-09					2E-03
Medium Total								5E-09					2E-03
Sediment	Sediment	HB01/A6											
			Benzo(a)anthracene	8E-10	- -	4E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	9E-09	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-09	- -	6E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			bis(2-Ethylhexyl)phthalate	5E-10	- -	N/A	- -	5E-10	Liver	6E-05	- -	N/A	6E-05
			Dibenz(a,h)anthracene	1E-09	- -	6E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	6E-10	- -	3E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	8E-04	- -	N/A	8E-04
			Arsenic	2E-07	- -	4E-07	- -	7E-07	Skin	2E-02	- -	3E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	8E-04	1E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-04	- -	N/A	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	5E-04	- -	N/A	5E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	8E-04	- -	N/A	8E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	8E-04	- -	N/A	8E-04
			Zinc	N/A	- -	N/A	- -	N/A	Blood	6E-04	- -	N/A	6E-04
			Chemical Total	2E-07	- -	5E-07	- -	7E-07		2E-02	- -	4E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					6E-02
	Exposure Medium Total							7E-07					6E-02
Medium Total								7E-07					6E-02

TABLE 9.11.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	HB01/A6											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	7E-04	- -	N/A	7E-04
			Arsenic	3E-07	- -	4E-07	- -	7E-07	Skin	3E-02	- -	3E-02	5E-02
			Copper	N/A	- -	N/A	- -	N/A	Kidney	6E-04	- -	N/A	6E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	5E-05	- -	N/A	5E-05
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	3E-03	- -	N/A	3E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	5E-03	- -	N/A	5E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	6E-04	- -	N/A	6E-04
			Chromium VI	N/A	- -	N/A	- -	N/A	GI System	2E-04	- -	N/A	2E-04
			Chemical Total	3E-07	- -	4E-07	- -	7E-07		4E-02	- -	3E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					6E-02
	Exposure Medium Total							7E-07					6E-02
Medium Total								7E-07					6E-02
Receptor Total								1E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 1E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-06

Total Blood HI =	6E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-03
Total GI System HI =	2E-04
Total Immune System HI =	N/A
Total Kidney HI =	5E-03
Total Liver HI =	7E-04
Total Nervous System HI =	4E-03
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.12.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB02-Baseflow											
			Trichloroethene	--	- -	3E-08	- -	3E-08	Liver	- -	- -	3E-03	3E-03
			Arsenic	--	- -	N/A	- -	N/A	Skin	- -	- -	2E-02	2E-02
			Chromium	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	1E-05	1E-05
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	7E-03	7E-03
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-03	6E-03
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					3E-02
	Exposure Medium Total							3E-08					3E-02
Medium Total								3E-08					3E-02
Sediment	Sediment	HB02/HB04											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	3E-03	- -	N/A	3E-03
			Arsenic	6E-06	- -	7E-06	- -	1E-05	Skin	2E-01	- -	2E-01	3E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	2E-03	4E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	3E-03	- -	N/A	3E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-02	- -	N/A	2E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	N/A	7E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Chemical Total	6E-06	- -	7E-06	- -	1E-05		2E-01	- -	2E-01	4E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					4E-01
	Exposure Medium Total							1E-05					4E-01
Medium Total								1E-05					4E-01

TABLE 9.12.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB02/HB04											
			Arsenic	4E-07	- -	2E-07	- -	7E-07	Skin	1E-02	- -	6E-03	2E-02
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	N/A	1E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Chemical Total	4E-07	- -	2E-07	- -	7E-07		1E-02	- -	6E-03	2E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					2E-02
	Exposure Medium Total							7E-07					2E-02
Medium Total								7E-07					2E-02
Receptor Total								1E-05					4E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 4E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-05

Total Blood HI =	3E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	3E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	2E-02
Total Liver HI =	3E-03
Total Nervous System HI =	1E-02
Total Skin HI =	4E-01
Total Respiratory HI =	N/A

TABLE 9.12.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB02-Baseflow											
			Trichloroethene	--	- -	2E-09	- -	2E-09	Liver	- -	- -	6E-04	6E-04
			Arsenic	--	- -	N/A	- -	N/A	Skin	- -	- -	2E-03	2E-03
			Chromium	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	1E-06	1E-06
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	7E-04	7E-04
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	2E-09	- -	2E-09		- -	- -	3E-03	3E-03
			Radionuclide Total										
		Exposure Point Total						2E-09					3E-03
	Exposure Medium Total							2E-09					3E-03
Medium Total								2E-09					3E-03
Sediment	Sediment	HB02/HB04											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	7E-04	- -	N/A	7E-04
			Arsenic	5E-07	- -	1E-06	- -	2E-06	Skin	4E-02	- -	9E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	6E-04	- -	8E-04	1E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	N/A	5E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	7E-04	- -	N/A	7E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	3E-04	- -	N/A	3E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	6E-03	- -	N/A	6E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	5E-04	- -	N/A	5E-04
			Chemical Total	5E-07	- -	1E-06	- -	2E-06		5E-02	- -	9E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01

TABLE 9.12.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB02/HB04											
			Arsenic	4E-08	- -	4E-08	- -	7E-08	Skin	3E-03	- -	3E-03	6E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-04	- -	N/A	3E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	N/A	3E-04
			Chemical Total	4E-08	- -	4E-08	- -	7E-08		3E-03	- -	3E-03	6E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					6E-03
	Exposure Medium Total							7E-08					6E-03
Medium Total								7E-08					6E-03
Receptor Total								2E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-06

Total Blood HI =	7E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	7E-04
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	4E-03
Total Liver HI =	6E-04
Total Nervous System HI =	2E-03
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.13.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB03-Baseflow											
			Trichloroethene	--	- -	3E-08	- -	3E-08	Liver	- -	- -	3E-03	3E-03
			Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	3E-03	3E-03
			Chromium	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	1E-05	1E-05
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	7E-03	7E-03
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	6E-03	6E-03
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						1E-07					2E-02
	Exposure Medium Total							1E-07					2E-02
Medium Total								1E-07					2E-02
Sediment	Sediment	HB03											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	2E-03	- -	N/A	2E-03
			Arsenic	3E-06	- -	3E-06	- -	6E-06	Skin	7E-02	- -	7E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	1E-03	2E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	4E-03	- -	N/A	4E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	2E-03	- -	N/A	2E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	6E-03	- -	N/A	6E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	5E-03	- -	N/A	5E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	9E-04	- -	N/A	9E-04
			Chemical Total	3E-06	- -	3E-06	- -	6E-06		9E-02	- -	7E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					2E-01
	Exposure Medium Total							6E-06					2E-01
Medium Total								6E-06					2E-01
Receptor Total								6E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 6E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 6E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 6E-06

Total Blood HI =	7E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	2E-02
Total Liver HI =	3E-03
Total Nervous System HI =	1E-02
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.13.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB03-Baseflow											
			Trichloroethene	--	- -	2E-09	- -	2E-09	Liver	- -	- -	6E-04	6E-04
			Arsenic	--	- -	4E-09	- -	4E-09	Skin	- -	- -	3E-04	3E-04
			Chromium	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	1E-06	1E-06
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	7E-04	7E-04
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	6E-09	- -	6E-09		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						6E-09					2E-03
	Exposure Medium Total							6E-09					2E-03
Medium Total								6E-09					2E-03
Sediment	Sediment	HB03											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	5E-04	- -	N/A	5E-04
			Arsenic	2E-07	- -	5E-07	- -	7E-07	Skin	2E-02	- -	4E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	5E-04	9E-04
			Copper	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	N/A	4E-04
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	4E-04	- -	N/A	4E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	2E-04	- -	N/A	2E-04
			Chemical Total	2E-07	- -	5E-07	- -	7E-07		2E-02	- -	4E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					6E-02
	Exposure Medium Total							7E-07					6E-02
Medium Total								7E-07					6E-02
Receptor Total								7E-07					6E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-07

Total Hazard Across All Media: 6E-02

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 7E-07
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 7E-07
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 7E-07

Total Blood HI =	2E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	5E-04
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-03
Total Liver HI =	6E-04
Total Nervous System HI =	2E-03
Total Skin HI =	5E-02
Total Respiratory HI =	N/A

TABLE 9.14.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	AR-Baseflow											
			Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	2E-03	2E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Chemical Total	--	- -	9E-08	- -	9E-08		- -	- -	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						9E-08					8E-03
	Exposure Medium Total							9E-08					8E-03
Medium Total								9E-08					8E-03
Sediment	Sediment	AR											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	4E-03	- -	N/A	4E-03
			Arsenic	5E-06	- -	5E-06	- -	1E-05	Skin	1E-01	- -	1E-01	3E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	8E-04	2E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	6E-03	- -	N/A	6E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	6E-04	- -	N/A	6E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	3E-03	- -	N/A	3E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	5E-03	- -	N/A	5E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	6E-03	- -	N/A	6E-03
			Chemical Total	5E-06	- -	5E-06	- -	1E-05		2E-01	- -	1E-01	3E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					3E-01
	Exposure Medium Total							1E-05					3E-01
Medium Total								1E-05					3E-01
Receptor Total								1E-05					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 3E-01

Total Blood HI =	5E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	4E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-02
Total Liver HI =	N/A
Total Nervous System HI =	9E-03
Total Skin HI =	3E-01
Total Respiratory HI =	N/A

TABLE 9.14.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	AR-Baseflow											
			Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	2E-04	2E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Chemical Total	--	- -	3E-09	- -	3E-09		- -	- -	8E-04	8E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					8E-04
	Exposure Medium Total							3E-09					8E-04
Medium Total								3E-09					8E-04
Sediment	Sediment	AR											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	9E-04	- -	N/A	9E-04
			Arsenic	4E-07	- -	9E-07	- -	1E-06	Skin	3E-02	- -	7E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	4E-04	7E-04
			Copper	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-04	- -	N/A	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	7E-04	- -	N/A	7E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	N/A	1E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Chemical Total	4E-07	- -	9E-07	- -	1E-06		4E-02	- -	7E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					1E-01
	Exposure Medium Total							1E-06					1E-01
Medium Total								1E-06					1E-01
Receptor Total								1E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 1E-01

Total Blood HI =	1E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	9E-04
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-03
Total Liver HI =	N/A
Total Nervous System HI =	1E-03
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.15.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	BE-1											
			Arsenic	6E-07	- -	6E-07	- -	1E-06	Skin	1E-02	- -	2E-02	3E-02
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	N/A	7E-03
			Chemical Total	6E-07	- -	6E-07	- -	1E-06		3E-02	- -	2E-02	4E-02
			Radionuclide Total										
		Exposure Point Total						1E-06					4E-02
	Exposure Medium Total							1E-06					4E-02
Medium Total								1E-06					4E-02
Receptor Total								1E-06					4E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 4E-02

Total Blood HI =	2E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	7E-03
Total Liver HI =	N/A
Total Nervous System HI =	1E-03
Total Skin HI =	3E-02
Total Respiratory HI =	N/A

TABLE 9.15.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	BE-1											
			Arsenic	5E-08	- -	1E-07	- -	1E-07	Skin	4E-03	- -	8E-03	1E-02
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-04	- -	N/A	1E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	6E-04	- -	N/A	6E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Chemical Total	5E-08	- -	1E-07	- -	1E-07		6E-03	- -	8E-03	1E-02
			Radionuclide Total										
		Exposure Point Total						1E-07					1E-02
	Exposure Medium Total							1E-07					1E-02
Medium Total								1E-07					1E-02
Receptor Total								1E-07					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-07

Total Hazard Across All Media: 1E-02

Total Blood HI =	6E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	2E-03
Total Liver HI =	N/A
Total Nervous System HI =	1E-04
Total Skin HI =	1E-02
Total Respiratory HI =	N/A

TABLE 9.16.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	BE-2-Baseflow											
			Trichloroethene	--	- -	3E-08	- -	3E-08	Liver	- -	- -	3E-03	3E-03
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	6E-03	6E-03
			Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	2E-03	2E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	9E-04	9E-04
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	3E-03	3E-03
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						1E-07					2E-02
	Exposure Medium Total							1E-07					2E-02
Medium Total								1E-07					2E-02
Sediment	Sediment	BE-2											
			Arsenic	3E-06	- -	3E-06	- -	6E-06	Skin	8E-02	- -	8E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	6E-04	- -	4E-04	1E-03
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	4E-03	- -	N/A	4E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	N/A	1E-02
			Zinc	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	N/A	1E-03
			Chemical Total	3E-06	- -	3E-06	- -	6E-06		9E-02	- -	8E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					2E-01
	Exposure Medium Total							6E-06					2E-01
Medium Total								6E-06					2E-01
Receptor Total								6E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 2E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 6E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 6E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 6E-06

Total Blood HI =	6E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	6E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-02
Total Liver HI =	3E-03
Total Nervous System HI =	6E-03
Total Skin HI =	2E-01
Total Respiratory HI =	N/A

TABLE 9.16.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	BE-2-Baseflow											
			Trichloroethene	--	- -	2E-09	- -	2E-09	Liver	- -	- -	6E-04	6E-04
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	2E-04	2E-04
			Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	2E-04	2E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-04	5E-04
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	9E-05	9E-05
			Vanadium	--	- -	N/A	- -	N/A	Kidney	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	5E-09	- -	5E-09		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					2E-03
	Exposure Medium Total							5E-09					2E-03
Medium Total								5E-09					2E-03
Sediment	Sediment	BE-2											
			Arsenic	2E-07	- -	5E-07	- -	8E-07	Skin	2E-02	- -	4E-02	6E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-04	- -	2E-04	4E-04
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	3E-04	- -	N/A	3E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	6E-04	- -	N/A	6E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	1E-04	- -	N/A	1E-04
			Chemical Total	2E-07	- -	5E-07	- -	8E-07		2E-02	- -	4E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						8E-07					6E-02
	Exposure Medium Total							8E-07					6E-02
Medium Total								8E-07					6E-02
Receptor Total								8E-07					6E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 8E-07

Total Hazard Across All Media: 6E-02

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 8E-07
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 8E-07
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 8E-07

Total Blood HI =	9E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-04
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-03
Total Liver HI =	6E-04
Total Nervous System HI =	8E-04
Total Skin HI =	6E-02
Total Respiratory HI =	N/A

TABLE 9.17.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	SO											
			Benzo(a)anthracene	3E-07	- -	3E-07	- -	6E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	4E-06	- -	4E-06	- -	8E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	6E-07	- -	5E-07	- -	1E-06	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	7E-07	- -	6E-07	- -	1E-06	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-07	- -	3E-07	- -	6E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	9E-05	- -	8E-05	2E-04
			Arsenic	2E-05	- -	4E-06	- -	2E-05	Skin	1E-01	- -	2E-02	1E-01
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	9E-04	- -	N/A	9E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	8E-03	- -	N/A	8E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	9E-03	- -	N/A	9E-03
			Chemical Total	3E-05	- -	9E-06	- -	4E-05		1E-01	- -	2E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						4E-05					2E-01
	Exposure Medium Total							4E-05					2E-01
Medium Total								4E-05					2E-01
Receptor Total								4E-05					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-05

Total Hazard Across All Media: 2E-01

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-04
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	9E-03
Total Liver HI =	N/A
Total Nervous System HI =	9E-03
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.17.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	SO											
			Benzo(a)anthracene	6E-08	- -	5E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	8E-07	- -	7E-07	- -	1E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-07	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	1E-07	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	6E-08	- -	5E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	4E-05	- -	4E-05	8E-05
			Arsenic	3E-06	- -	7E-07	- -	4E-06	Skin	6E-02	- -	1E-02	7E-02
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	5E-04	- -	N/A	5E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	4E-03	- -	N/A	4E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	N/A	4E-03
			Chemical Total	5E-06	- -	2E-06	- -	6E-06		7E-02	- -	1E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						6E-06					8E-02
	Exposure Medium Total							6E-06					8E-02
Medium Total								6E-06					8E-02
Receptor Total								6E-06					8E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 8E-02

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	8E-05
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	4E-03
Total Liver HI =	N/A
Total Nervous System HI =	4E-03
Total Skin HI =	7E-02
Total Respiratory HI =	N/A

TABLE 9.18.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB04											
			Arsenic	6E-06	- -	1E-06	- -	7E-06	Skin	3E-02	- -	7E-03	4E-02
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-03	- -	N/A	3E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	N/A	4E-03
			Chemical Total	6E-06	- -	1E-06	- -	7E-06		4E-02	- -	7E-03	5E-02
			Radionuclide Total										
		Exposure Point Total						7E-06					5E-02
	Exposure Medium Total							7E-06					5E-02
Medium Total								7E-06					5E-02
Receptor Total								7E-06					5E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 5E-02

Total Blood HI =	3E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	4E-03
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	4E-02
Total Respiratory HI =	N/A

TABLE 9.18.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Groundskeeper
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB04											
			Arsenic	1E-06	- -	2E-07	- -	1E-06	Skin	2E-02	- -	3E-03	2E-02
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Chemical Total	1E-06	- -	2E-07	- -	1E-06		2E-02	- -	3E-03	2E-02
			Radionuclide Total										
		Exposure Point Total						1E-06					2E-02
	Exposure Medium Total							1E-06					2E-02
Medium Total								1E-06					2E-02
Receptor Total								1E-06					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 2E-02

Total Blood HI =	2E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	2E-03
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	2E-02
Total Respiratory HI =	N/A

TABLE 9.19.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC01											
			Arsenic	4E-06	- -	8E-07	- -	5E-06	Skin	3E-01	- -	6E-02	4E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	6E-03	- -	8E-04	7E-03
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	5E-03	- -	N/A	5E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-02	- -	N/A	1E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Chemical Total	4E-06	- -	8E-07	- -	5E-06		4E-01	- -	7E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						5E-06					4E-01
	Exposure Medium Total							5E-06					4E-01
Medium Total								5E-06					4E-01
Receptor Total								5E-06					4E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-06

Total Hazard Across All Media: 4E-01

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	9E-03
Total Liver HI =	N/A
Total Nervous System HI =	1E-02
Total Skin HI =	4E-01
Total Respiratory HI =	N/A

TABLE 9.19.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC01											
			Arsenic	3E-07	- -	7E-08	- -	4E-07	Skin	5E-02	- -	1E-02	6E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	1E-04	1E-03
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	N/A	5E-04
			Chemical Total	3E-07	- -	7E-08	- -	4E-07		6E-02	- -	1E-02	7E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					7E-02
	Exposure Medium Total							4E-07					7E-02
Medium Total								4E-07					7E-02
Receptor Total								4E-07					7E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-07

Total Hazard Across All Media: 7E-02

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	2E-03
Total Liver HI =	N/A
Total Nervous System HI =	2E-03
Total Skin HI =	6E-02
Total Respiratory HI =	N/A

TABLE 9.20.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC02											
			Arsenic	5E-05	- -	9E-06	- -	5E-05	Skin	4E+00	- -	7E-01	4E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-02	- -	6E-03	5E-02
			Copper	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	N/A	3E-03
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	4E-02	- -	N/A	4E-02
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-02	- -	N/A	1E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	N/A	7E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	3E-02	- -	N/A	3E-02
			Chemical Total	5E-05	- -	9E-06	- -	5E-05		4E+00	- -	7E-01	4E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					4E+00
	Exposure Medium Total							5E-05					4E+00
Medium Total								5E-05					4E+00
Receptor Total								5E-05					4E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 4E+00

Total Blood HI =	3E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	6E-02
Total Liver HI =	N/A
Total Nervous System HI =	6E-02
Total Skin HI =	4E+00
Total Respiratory HI =	N/A

TABLE 9.20.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC02											
			Arsenic	5E-06	- -	1E-06	- -	6E-06	Skin	8E-01	- -	2E-01	1E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-02	- -	3E-03	2E-02
			Copper	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-02	- -	N/A	2E-02
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	4E-03	- -	N/A	4E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	1E-02	- -	N/A	1E-02
			Chemical Total	5E-06	- -	1E-06	- -	6E-06		9E-01	- -	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						6E-06					1E+00
	Exposure Medium Total							6E-06					1E+00
Medium Total								6E-06					1E+00
Receptor Total								6E-06					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 1E+00

Total Blood HI =	1E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-02
Total Liver HI =	N/A
Total Nervous System HI =	3E-02
Total Skin HI =	1E+00
Total Respiratory HI =	N/A

TABLE 9.21.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC03	Arsenic	2E-06	- -	3E-07	- -	2E-06	Skin	1E-01	- -	2E-02	1E-01
			Chemical Total	2E-06	- -	3E-07	- -	2E-06		1E-01	- -	2E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								2E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 1E-01

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.21.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC03	Arsenic	2E-07	- -	3E-08	- -	2E-07	Skin	2E-02	- -	5E-03	3E-02
			Chemical Total	2E-07	- -	3E-08	- -	2E-07		2E-02	- -	5E-03	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Receptor Total								2E-07					3E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 3E-02

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	3E-02
Total Respiratory HI =	N/A

TABLE 9.22.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC04											
			Arsenic	4E-06	- -	8E-07	- -	5E-06	Skin	3E-01	- -	6E-02	4E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	9E-04	8E-03
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	9E-03	- -	N/A	9E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	2E-02	- -	N/A	2E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Chemical Total	4E-06	- -	8E-07	- -	5E-06		3E-01	- -	6E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						5E-06					4E-01
	Exposure Medium Total							5E-06					4E-01
Medium Total								5E-06					4E-01
Receptor Total								5E-06					4E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-06

Total Hazard Across All Media: 4E-01

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-02
Total Liver HI =	N/A
Total Nervous System HI =	3E-02
Total Skin HI =	4E-01
Total Respiratory HI =	N/A

TABLE 9.22.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC04											
			Arsenic	4E-07	- -	8E-08	- -	5E-07	Skin	7E-02	- -	1E-02	8E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	2E-04	1E-03
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-03	- -	N/A	2E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	9E-03	- -	N/A	9E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	8E-04	- -	N/A	8E-04
			Chemical Total	4E-07	- -	8E-08	- -	5E-07		8E-02	- -	1E-02	9E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					9E-02
	Exposure Medium Total							5E-07					9E-02
Medium Total								5E-07					9E-02
Receptor Total								5E-07					9E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-07

Total Hazard Across All Media: 9E-02

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	2E-03
Total Liver HI =	N/A
Total Nervous System HI =	1E-02
Total Skin HI =	8E-02
Total Respiratory HI =	N/A

TABLE 9.23.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	SO											
			Benzo(a)anthracene	1E-06	- -	4E-07	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	2E-05	- -	5E-06	- -	2E-05	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-06	- -	8E-07	- -	3E-06	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	2E-06	- -	9E-07	- -	3E-06	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-06	- -	4E-07	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	1E-03	- -	5E-04	2E-03
			Arsenic	6E-05	- -	5E-06	- -	7E-05	Skin	2E+00	- -	1E-01	2E+00
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-02	- -	N/A	1E-02
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-01	- -	N/A	1E-01
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-01	- -	N/A	1E-01
			Chemical Total	9E-05	- -	1E-05	- -	1E-04		2E+00	- -	1E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						1E-04					2E+00
	Exposure Medium Total							1E-04					2E+00
Medium Total								1E-04					2E+00
Receptor Total								1E-04					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-04

Total Hazard Across All Media: 2E+00

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Liver HI =	N/A
Total Nervous System HI =	1E-01
Total Skin HI =	2E+00
Total Respiratory HI =	N/A

TABLE 9.23.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	SO											
			Benzo(a)anthracene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-06	- -	2E-06	- -	4E-06	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	3E-07	- -	3E-07	- -	6E-07	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	4E-07	- -	3E-07	- -	7E-07	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-07	- -	1E-07	- -	3E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	6E-04	- -	5E-04	1E-03
			Arsenic	1E-05	- -	2E-06	- -	1E-05	Skin	8E-01	- -	1E-01	1E+00
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	6E-03	- -	N/A	6E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	5E-02	- -	N/A	5E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	6E-02	- -	N/A	6E-02
			Chemical Total	1E-05	- -	4E-06	- -	2E-05		1E+00	- -	1E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						2E-05					1E+00
	Exposure Medium Total							2E-05					1E+00
Medium Total								2E-05					1E+00
Receptor Total								2E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 1E+00

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	1E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	6E-02
Total Liver HI =	N/A
Total Nervous System HI =	6E-02
Total Skin HI =	1E+00
Total Respiratory HI =	N/A

TABLE 9.24.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB04											
			Arsenic	2E-05	- -	2E-06	- -	2E-05	Skin	5E-01	- -	4E-02	5E-01
			Thallium	N/A	- -	N/A	- -	N/A	Blood	5E-02	- -	N/A	5E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	6E-02	- -	N/A	6E-02
			Chemical Total	2E-05	- -	2E-06	- -	2E-05		6E-01	- -	4E-02	6E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					6E-01
	Exposure Medium Total							2E-05					6E-01
Medium Total								2E-05					6E-01
Receptor Total								2E-05					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 6E-01

Total Blood HI =	5E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	6E-02
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	5E-01
Total Respiratory HI =	N/A

TABLE 9.24.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB04											
			Arsenic	3E-06	- -	5E-07	- -	4E-06	Skin	2E-01	- -	4E-02	3E-01
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-02	- -	N/A	2E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-02	- -	N/A	3E-02
			Chemical Total	3E-06	- -	5E-07	- -	4E-06		3E-01	- -	4E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					3E-01
	Exposure Medium Total							4E-06					3E-01
Medium Total								4E-06					3E-01
Receptor Total								4E-06					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-06

Total Hazard Across All Media: 3E-01

Total Blood HI =	2E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-02
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	3E-01
Total Respiratory HI =	N/A

TABLE 9.25.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	SO											
			Benzo(a)pyrene	5E-07	- -	2E-07	- -	6E-07	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	9E-01	- -	N/A	9E-01
			Arsenic	1E-03	- -	1E-04	- -	1E-03	Skin	3E+01	- -	3E+00	4E+01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-02	- -	8E-03	8E-02
			Copper	N/A	- -	N/A	- -	N/A	Kidney	1E-01	- -	N/A	1E-01
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-02	- -	N/A	1E-02
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	2E-01	- -	N/A	2E-01
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-01	- -	N/A	2E-01
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-01	- -	N/A	2E-01
			Zinc	N/A	- -	N/A	- -	N/A	Blood	1E-01	- -	N/A	1E-01
			Chemical Total	1E-03	- -	1E-04	- -	1E-03		4E+01	- -	3E+00	4E+01
			Radionuclide Total										
		Exposure Point Total						1E-03					4E+01
	Exposure Medium Total							1E-03					4E+01
Medium Total								1E-03					4E+01
Receptor Total								1E-03					4E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-03

Total Hazard Across All Media: 4E+01

Total Blood HI =	3E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	9E-01
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	4E-01
Total Liver HI =	N/A
Total Nervous System HI =	2E-01
Total Skin HI =	4E+01
Total Respiratory HI =	N/A

TABLE 9.25.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	SO											
			Benzo(a)pyrene	8E-08	- -	6E-08	- -	1E-07	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	4E-01	- -	N/A	4E-01
			Arsenic	2E-04	- -	4E-05	- -	3E-04	Skin	2E+01	- -	3E+00	2E+01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-02	- -	8E-03	4E-02
			Copper	N/A	- -	N/A	- -	N/A	Kidney	6E-02	- -	N/A	6E-02
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	6E-03	- -	N/A	6E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-01	- -	N/A	1E-01
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-01	- -	N/A	1E-01
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-01	- -	N/A	1E-01
			Zinc	N/A	- -	N/A	- -	N/A	Blood	5E-02	- -	N/A	5E-02
			Chemical Total	2E-04	- -	4E-05	- -	3E-04		2E+01	- -	3E+00	2E+01
			Radionuclide Total										
		Exposure Point Total						3E-04					2E+01
	Exposure Medium Total							3E-04					2E+01
Medium Total								3E-04					2E+01
Receptor Total								3E-04					2E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-04

Total Hazard Across All Media: 2E+01

Total Blood HI =	2E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	4E-01
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Liver HI =	N/A
Total Nervous System HI =	1E-01
Total Skin HI =	2E+01
Total Respiratory HI =	N/A

TABLE 9.26.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB04											
			Arsenic	6E-07	1E-08	5E-08	- -	6E-07	Skin	9E-02	2E-03	9E-03	1E-01
			Thallium	N/A	N/A	N/A	- -	N/A	Blood	9E-04	2E-05	N/A	9E-04
			Vanadium	N/A	N/A	N/A	- -	N/A	Kidney	1E-03	3E-05	N/A	1E-03
			Chemical Total	6E-07	1E-08	5E-08	- -	6E-07		9E-02	2E-03	9E-03	1E-01
			Radionuclide Total										
		Exposure Point Total						6E-07					1E-01
	Exposure Medium Total							6E-07					1E-01
Medium Total								6E-07					1E-01
Groundwater	Shallow Groundwater	Study Area											
			1,4-Dichlorobenzene	8E-11	- -	5E-10	- -	6E-10	Developmental	8E-07	- -	5E-06	6E-06
			Benzene	1E-06	- -	2E-06	- -	3E-06	Immune System	1E-01	- -	2E-01	3E-01
			Chlorobenzene	N/A	- -	N/A	- -	N/A	Liver	3E-06	- -	1E-05	1E-05
			Chloroform	N/A	- -	N/A	- -	N/A	Liver	3E-05	- -	2E-05	5E-05
			Methyl tert-Butyl Ether	1E-08	- -	3E-09	- -	1E-08	Liver	2E-03	- -	4E-04	2E-03
			Tetrachloroethene	6E-10	- -	3E-09	- -	4E-09	Liver	8E-07	- -	5E-06	5E-06
			Toluene	N/A	- -	N/A	- -	N/A	Liver/Kidney	3E-06	- -	1E-05	1E-05
			Trichloroethene	1E-09	- -	2E-09	- -	4E-09	Liver	8E-04	- -	1E-03	2E-03
			Vinyl Chloride	5E-09	- -	3E-09	- -	7E-09	Liver	8E-05	- -	4E-05	1E-04
			bis(2-Ethylhexyl)phthalate	2E-10	- -	3E-09	- -	3E-09	Liver	4E-05	- -	6E-04	7E-04
			Naphthalene	N/A	- -	N/A	- -	N/A	General Toxicity	3E-06	- -	2E-05	3E-05

TABLE 9.26.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	5E-03	- -	2E-03	7E-03
			Arsenic	2E-05	- -	1E-06	- -	2E-05	Skin	3E+00	- -	2E-01	3E+00
			Barium	N/A	- -	N/A	- -	N/A	Cardiovascular/Kidney	9E-04	- -	9E-04	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	4E-03	8E-03
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	9E-06	- -	4E-05	5E-05
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-02	- -	9E-03	3E-02
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	4E-05	- -	3E-05	7E-05
			Selenium	N/A	- -	N/A	- -	N/A	Liver	4E-04	- -	2E-05	4E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	7E-05	1E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	6E-04	9E-04
			Zinc	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	4E-05	1E-03
			Chemical Total	2E-05	- -	3E-06	- -	2E-05		3E+00	- -	4E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						2E-05					3E+00
	Exposure Medium Total							2E-05					3E+00
Medium Total								2E-05					3E+00
Receptor Total								2E-05					3E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 3E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-05

Total Blood HI =	3E-03
Total Cardiovascular HI =	2E-03
Total Developmental HI =	6E-06
Total General Toxicity HI =	7E-03
Total GI System HI =	N/A
Total Immune System HI =	3E-01
Total Kidney HI =	1E-02
Total Liver HI =	5E-03
Total Nervous System HI =	3E-02
Total Skin HI =	3E+00
Total Respiratory HI =	N/A

TABLE 9.26.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB04											
			Arsenic	2E-07	4E-09	2E-08	- -	2E-07	Skin	3E-02	7E-04	3E-03	3E-02
			Thallium	N/A	N/A	N/A	- -	N/A	Blood	3E-04	7E-06	N/A	3E-04
			Vanadium	N/A	N/A	N/A	- -	N/A	Kidney	3E-04	9E-06	N/A	4E-04
			Chemical Total	2E-07	4E-09	2E-08	- -	2E-07		3E-02	7E-04	3E-03	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Groundwater	Shallow Groundwater	Study Area											
			1,4-Dichlorobenzene	3E-11	- -	1E-10	- -	1E-10	Developmental	3E-07	- -	1E-06	1E-06
			Benzene	4E-07	- -	4E-07	- -	8E-07	Immune System	4E-02	- -	4E-02	8E-02
			Chlorobenzene	N/A	- -	N/A	- -	N/A	Liver	1E-06	- -	2E-06	3E-06
			Chloroform	N/A	- -	N/A	- -	N/A	Liver	9E-06	- -	5E-06	1E-05
			Methyl tert-Butyl Ether	4E-09	- -	6E-10	- -	4E-09	Liver	5E-04	- -	8E-05	6E-04
			Tetrachloroethene	2E-10	- -	8E-10	- -	1E-09	Liver	3E-07	- -	1E-06	1E-06
			Toluene	N/A	- -	N/A	- -	N/A	Liver/Kidney	1E-06	- -	2E-06	3E-06
			Trichloroethene	5E-10	- -	5E-10	- -	1E-09	Liver	3E-04	- -	3E-04	6E-04
			Vinyl Chloride	2E-09	- -	5E-10	- -	2E-09	Liver	2E-05	- -	8E-06	3E-05
			bis(2-Ethylhexyl)phthalate	6E-11	- -	6E-10	- -	6E-10	Liver	1E-05	- -	1E-04	2E-04
			Naphthalene	N/A	- -	N/A	- -	N/A	General Toxicity	1E-06	- -	5E-06	6E-06

TABLE 9.26.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	2E-03	- -	3E-04	2E-03
			Arsenic	6E-06	- -	2E-07	- -	6E-06	Skin	9E-01	- -	3E-02	9E-01
			Barium	N/A	- -	N/A	- -	N/A	Cardiovascular/Kidney	3E-04	- -	1E-04	4E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	7E-04	2E-03
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	3E-06	- -	7E-06	1E-05
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	5E-03	- -	2E-03	7E-03
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	1E-05	- -	6E-06	2E-05
			Selenium	N/A	- -	N/A	- -	N/A	Liver	1E-04	- -	4E-06	1E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-04	- -	1E-05	3E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	8E-05	- -	1E-04	2E-04
			Zinc	N/A	- -	N/A	- -	N/A	Blood	4E-04	- -	7E-06	4E-04
			Chemical Total	6E-06	- -	6E-07	- -	7E-06		9E-01	- -	8E-02	1E+00
			Radionuclide Total										
		Exposure Point Total						7E-06					1E+00
	Exposure Medium Total							7E-06					1E+00
Medium Total								7E-06					1E+00
Receptor Total								7E-06					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 7E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 7E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 7E-06

Total Blood HI =	1E-03
Total Cardiovascular HI =	4E-04
Total Developmental HI =	1E-06
Total General Toxicity HI =	2E-03
Total GI System HI =	N/A
Total Immune System HI =	8E-02
Total Kidney HI =	3E-03
Total Liver HI =	1E-03
Total Nervous System HI =	7E-03
Total Skin HI =	1E+00
Total Respiratory HI =	N/A

TABLE 9.27.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	SO											
			Benzo(a)anthracene	3E-08	8E-10	1E-08	- -	5E-08	N/A	N/A	N/A	N/A	N/A
			Benzo(a)pyrene	4E-07	1E-08	2E-07	- -	7E-07	N/A	N/A	N/A	N/A	N/A
			Benzo(b)fluoranthene	6E-08	2E-09	3E-08	- -	9E-08	N/A	N/A	N/A	N/A	N/A
			Dibenz(a,h)anthracene	7E-08	2E-09	3E-08	- -	1E-07	N/A	N/A	N/A	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	9E-10	1E-08	- -	5E-08	N/A	N/A	N/A	N/A	N/A
			Phenanthrene	N/A	N/A	N/A	- -	N/A	General Toxicity	2E-05	6E-07	1E-05	3E-05
			Arsenic	2E-06	5E-08	2E-07	- -	2E-06	Skin	3E-01	8E-03	3E-02	3E-01
			Manganese	N/A	N/A	N/A	- -	N/A	Nervous System	2E-03	6E-05	N/A	2E-03
			Mercury	N/A	N/A	N/A	- -	N/A	Nervous System	2E-02	5E-04	N/A	2E-02
			Vanadium	N/A	N/A	N/A	- -	N/A	Kidney	2E-03	5E-05	N/A	2E-03
			Chemical Total	3E-06	6E-08	5E-07	- -	3E-06		3E-01	8E-03	3E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					4E-01
	Exposure Medium Total							3E-06					4E-01
Medium Total								3E-06					4E-01
Groundwater	Shallow Groundwater	Study Area											
			1,4-Dichlorobenzene	8E-11	- -	5E-10	- -	6E-10	Developmental	8E-07	- -	5E-06	6E-06
			Benzene	1E-06	- -	2E-06	- -	3E-06	Immune System	1E-01	- -	2E-01	3E-01
			Chlorobenzene	N/A	- -	N/A	- -	N/A	Liver	3E-06	- -	1E-05	1E-05
			Chloroform	N/A	- -	N/A	- -	N/A	Liver	3E-05	- -	2E-05	5E-05
			Methyl tert-Butyl Ether	1E-08	- -	3E-09	- -	1E-08	Liver	2E-03	- -	4E-04	2E-03
			Tetrachloroethene	6E-10	- -	3E-09	- -	4E-09	Liver	8E-07	- -	5E-06	5E-06
			Toluene	N/A	- -	N/A	- -	N/A	Liver/Kidney	3E-06	- -	1E-05	1E-05
			Trichloroethene	1E-09	- -	2E-09	- -	4E-09	Liver	8E-04	- -	1E-03	2E-03
			Vinyl Chloride	5E-09	- -	3E-09	- -	7E-09	Liver	8E-05	- -	4E-05	1E-04
			bis(2-Ethylhexyl)phthalate	2E-10	- -	3E-09	- -	3E-09	Liver	4E-05	- -	6E-04	7E-04
			Naphthalene	N/A	- -	N/A	- -	N/A	General Toxicity	3E-06	- -	2E-05	3E-05

TABLE 9.27.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	5E-03	- -	2E-03	7E-03
			Arsenic	2E-05	- -	1E-06	- -	2E-05	Skin	3E+00	- -	2E-01	3E+00
			Barium	N/A	- -	N/A	- -	N/A	Cardiovascular/Kidney	9E-04	- -	9E-04	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	4E-03	8E-03
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	9E-06	- -	4E-05	5E-05
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-02	- -	9E-03	3E-02
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	4E-05	- -	3E-05	7E-05
			Selenium	N/A	- -	N/A	- -	N/A	Liver	4E-04	- -	2E-05	4E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	7E-05	1E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	6E-04	9E-04
			Zinc	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	4E-05	1E-03
			Chemical Total	2E-05	- -	3E-06	- -	2E-05		3E+00	- -	4E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						2E-05					3E+00
	Exposure Medium Total							2E-05					3E+00
Medium Total								2E-05					3E+00
Receptor Total								3E-05					4E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 4E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-05

Total Blood HI =	2E-03
Total Cardiovascular HI =	2E-03
Total Developmental HI =	6E-06
Total General Toxicity HI =	7E-03
Total GI System HI =	N/A
Total Immune System HI =	3E-01
Total Kidney HI =	1E-02
Total Liver HI =	5E-03
Total Nervous System HI =	5E-02
Total Skin HI =	3E+00
Total Respiratory HI =	N/A

TABLE 9.27.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	SO											
			Benzo(a)anthracene	1E-08	3E-10	5E-09	- -	2E-08	N/A	N/A	N/A	N/A	N/A
			Benzo(a)pyrene	1E-07	4E-09	6E-08	- -	2E-07	N/A	N/A	N/A	N/A	N/A
			Benzo(b)fluoranthene	2E-08	5E-10	9E-09	- -	3E-08	N/A	N/A	N/A	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	6E-10	1E-08	- -	3E-08	N/A	N/A	N/A	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-08	3E-10	5E-09	- -	2E-08	N/A	N/A	N/A	N/A	N/A
			Phenanthrene	N/A	N/A	N/A	- -	N/A	General Toxicity	7E-06	2E-07	3E-06	1E-05
			Arsenic	6E-07	2E-08	6E-08	- -	7E-07	Skin	1E-01	2E-03	9E-03	1E-01
			Manganese	N/A	N/A	N/A	- -	N/A	Nervous System	7E-04	2E-05	N/A	8E-04
			Mercury	N/A	N/A	N/A	- -	N/A	Nervous System	6E-03	2E-04	N/A	6E-03
			Vanadium	N/A	N/A	N/A	- -	N/A	Kidney	7E-04	2E-05	N/A	7E-04
			Chemical Total	8E-07	2E-08	2E-07	- -	1E-06		1E-01	3E-03	9E-03	1E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					1E-01
	Exposure Medium Total							1E-06					1E-01
Medium Total								1E-06					1E-01
Groundwater	Shallow Groundwater	Study Area											
			1,4-Dichlorobenzene	3E-11	- -	1E-10	- -	1E-10	Developmental	3E-07	- -	1E-06	1E-06
			Benzene	4E-07	- -	4E-07	- -	8E-07	Immune System	4E-02	- -	4E-02	8E-02
			Chlorobenzene	N/A	- -	N/A	- -	N/A	Liver	1E-06	- -	2E-06	3E-06
			Chloroform	N/A	- -	N/A	- -	N/A	Liver	9E-06	- -	5E-06	1E-05
			Methyl tert-Butyl Ether	4E-09	- -	6E-10	- -	4E-09	Liver	5E-04	- -	8E-05	6E-04
			Tetrachloroethene	2E-10	- -	8E-10	- -	1E-09	Liver	3E-07	- -	1E-06	1E-06
			Toluene	N/A	- -	N/A	- -	N/A	Liver/Kidney	1E-06	- -	2E-06	3E-06
			Trichloroethene	5E-10	- -	5E-10	- -	1E-09	Liver	3E-04	- -	3E-04	6E-04
			Vinyl Chloride	2E-09	- -	5E-10	- -	2E-09	Liver	2E-05	- -	8E-06	3E-05
			bis(2-Ethylhexyl)phthalate	6E-11	- -	6E-10	- -	6E-10	Liver	1E-05	- -	1E-04	2E-04
			Naphthalene	N/A	- -	N/A	- -	N/A	General Toxicity	1E-06	- -	5E-06	6E-06

TABLE 9.27.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	2E-03	- -	3E-04	2E-03
			Arsenic	6E-06	- -	2E-07	- -	6E-06	Skin	9E-01	- -	3E-02	9E-01
			Barium	N/A	- -	N/A	- -	N/A	Cardiovascular/Kidney	3E-04	- -	1E-04	4E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	7E-04	2E-03
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	3E-06	- -	7E-06	1E-05
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	5E-03	- -	2E-03	7E-03
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	1E-05	- -	6E-06	2E-05
			Selenium	N/A	- -	N/A	- -	N/A	Liver	1E-04	- -	4E-06	1E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-04	- -	1E-05	3E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	8E-05	- -	1E-04	2E-04
			Zinc	N/A	- -	N/A	- -	N/A	Blood	4E-04	- -	7E-06	4E-04
			Chemical Total	6E-06	- -	6E-07	- -	7E-06		9E-01	- -	8E-02	1E+00
			Radionuclide Total										
		Exposure Point Total						7E-06					1E+00
	Exposure Medium Total							7E-06					1E+00
Medium Total								7E-06					1E+00
Receptor Total								8E-06					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 8E-06

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 8E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 8E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 8E-06

Total Blood HI =	7E-04
Total Cardiovascular HI =	4E-04
Total Developmental HI =	1E-06
Total General Toxicity HI =	2E-03
Total GI System HI =	N/A
Total Immune System HI =	8E-02
Total Kidney HI =	3E-03
Total Liver HI =	1E-03
Total Nervous System HI =	1E-02
Total Skin HI =	1E+00
Total Respiratory HI =	N/A

TABLE 9.28.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	SO											
			Benzo(a)pyrene	1E-08	3E-10	6E-09	- -	2E-08	N/A	N/A	N/A	N/A	N/A
			Antimony	N/A	N/A	N/A	- -	N/A	General Toxicity	2E-01	4E-03	N/A	2E-01
			Arsenic	4E-05	1E-06	4E-06	- -	4E-05	Skin	6E+00	2E-01	6E-01	7E+00
			Cadmium	N/A	N/A	N/A	- -	N/A	Kidney	1E-02	3E-04	2E-03	1E-02
			Copper	N/A	N/A	N/A	- -	N/A	Kidney	2E-03	5E-05	N/A	2E-03
			Lead										
			Manganese	N/A	N/A	N/A	- -	N/A	Nervous System	2E-03	6E-05	N/A	2E-03
			Mercury	N/A	N/A	N/A	- -	N/A	Nervous System	3E-02	9E-04	N/A	4E-02
			Thallium	N/A	N/A	N/A	- -	N/A	Blood	4E-03	1E-04	N/A	4E-03
			Vanadium	N/A	N/A	N/A	- -	N/A	Kidney	3E-03	9E-05	N/A	4E-03
			Zinc	N/A	N/A	N/A	- -	N/A	Blood	2E-02	5E-04	N/A	2E-02
			Chemical Total	4E-05	1E-06	4E-06	- -	4E-05		6E+00	2E-01	6E-01	7E+00
			Radionuclide Total										
		Exposure Point Total						4E-05					7E+00
	Exposure Medium Total							4E-05					7E+00
Medium Total								4E-05					7E+00
Groundwater	Shallow Groundwater	Study Area											
			1,4-Dichlorobenzene	8E-11	- -	5E-10	- -	6E-10	Developmental	8E-07	- -	5E-06	6E-06
			Benzene	1E-06	- -	2E-06	- -	3E-06	Immune System	1E-01	- -	2E-01	3E-01
			Chlorobenzene	N/A	- -	N/A	- -	N/A	Liver	3E-06	- -	1E-05	1E-05
			Chloroform	N/A	- -	N/A	- -	N/A	Liver	3E-05	- -	2E-05	5E-05
			Methyl tert-Butyl Ether	1E-08	- -	3E-09	- -	1E-08	Liver	2E-03	- -	4E-04	2E-03
			Tetrachloroethene	6E-10	- -	3E-09	- -	4E-09	Liver	8E-07	- -	5E-06	5E-06
			Toluene	N/A	- -	N/A	- -	N/A	Liver/Kidney	3E-06	- -	1E-05	1E-05
			Trichloroethene	1E-09	- -	2E-09	- -	4E-09	Liver	8E-04	- -	1E-03	2E-03
			Vinyl Chloride	5E-09	- -	3E-09	- -	7E-09	Liver	8E-05	- -	4E-05	1E-04
			bis(2-Ethylhexyl)phthalate	2E-10	- -	3E-09	- -	3E-09	Liver	4E-05	- -	6E-04	7E-04
			Naphthalene	N/A	- -	N/A	- -	N/A	General Toxicity	3E-06	- -	2E-05	3E-05

TABLE 9.28.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	5E-03	- -	2E-03	7E-03
			Arsenic	2E-05	- -	1E-06	- -	2E-05	Skin	3E+00	- -	2E-01	3E+00
			Barium	N/A	- -	N/A	- -	N/A	Cardiovascular/Kidney	9E-04	- -	9E-04	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	4E-03	8E-03
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	9E-06	- -	4E-05	5E-05
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-02	- -	9E-03	3E-02
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	4E-05	- -	3E-05	7E-05
			Selenium	N/A	- -	N/A	- -	N/A	Liver	4E-04	- -	2E-05	4E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	7E-05	1E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	6E-04	9E-04
			Zinc	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	4E-05	1E-03
			Chemical Total	2E-05	- -	3E-06	- -	2E-05		3E+00	- -	4E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						2E-05					3E+00
	Exposure Medium Total							2E-05					3E+00
Medium Total								2E-05					3E+00
Receptor Total								7E-05					1E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-05

Total Hazard Across All Media: 1E+01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 7E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 7E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 7E-05

Total Blood HI =	3E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	6E-06
Total General Toxicity HI =	2E-01
Total GI System HI =	N/A
Total Immune System HI =	3E-01
Total Kidney HI =	3E-02
Total Liver HI =	5E-03
Total Nervous System HI =	6E-02
Total Skin HI =	1E+01
Total Respiratory HI =	N/A

TABLE 9.28.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	SO											
			Benzo(a)pyrene	4E-09	1E-10	2E-09	- -	6E-09	N/A	N/A	N/A	N/A	N/A
			Antimony	N/A	N/A	N/A	- -	N/A	General Toxicity	5E-02	1E-03	N/A	5E-02
			Arsenic	1E-05	3E-07	1E-06	- -	1E-05	Skin	2E+00	5E-02	2E-01	2E+00
			Cadmium	N/A	N/A	N/A	- -	N/A	Kidney	4E-03	1E-04	5E-04	5E-03
			Copper	N/A	N/A	N/A	- -	N/A	Kidney	7E-04	2E-05	N/A	7E-04
			Lead										
			Manganese	N/A	N/A	N/A	- -	N/A	Nervous System	7E-04	2E-05	N/A	8E-04
			Mercury	N/A	N/A	N/A	- -	N/A	Nervous System	1E-02	3E-04	N/A	1E-02
			Thallium	N/A	N/A	N/A	- -	N/A	Blood	1E-03	3E-05	N/A	1E-03
			Vanadium	N/A	N/A	N/A	- -	N/A	Kidney	1E-03	3E-05	N/A	1E-03
			Zinc	N/A	N/A	N/A	- -	N/A	Blood	6E-03	2E-04	N/A	6E-03
			Chemical Total	1E-05	3E-07	1E-06	- -	1E-05		2E+00	5E-02	2E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						1E-05					2E+00
	Exposure Medium Total							1E-05					2E+00
Medium Total								1E-05					2E+00
Groundwater	Shallow Groundwater	Study Area											
			1,4-Dichlorobenzene	3E-11	- -	1E-10	- -	1E-10	Developmental	3E-07	- -	1E-06	1E-06
			Benzene	4E-07	- -	4E-07	- -	8E-07	Immune System	4E-02	- -	4E-02	8E-02
			Chlorobenzene	N/A	- -	N/A	- -	N/A	Liver	1E-06	- -	2E-06	3E-06
			Chloroform	N/A	- -	N/A	- -	N/A	Liver	9E-06	- -	5E-06	1E-05
			Methyl tert-Butyl Ether	4E-09	- -	6E-10	- -	4E-09	Liver	5E-04	- -	8E-05	6E-04
			Tetrachloroethene	2E-10	- -	8E-10	- -	1E-09	Liver	3E-07	- -	1E-06	1E-06
			Toluene	N/A	- -	N/A	- -	N/A	Liver/Kidney	1E-06	- -	2E-06	3E-06
			Trichloroethene	5E-10	- -	5E-10	- -	1E-09	Liver	3E-04	- -	3E-04	6E-04
			Vinyl Chloride	2E-09	- -	5E-10	- -	2E-09	Liver	2E-05	- -	8E-06	3E-05
			bis(2-Ethylhexyl)phthalate	6E-11	- -	6E-10	- -	6E-10	Liver	1E-05	- -	1E-04	2E-04
			Naphthalene	N/A	- -	N/A	- -	N/A	General Toxicity	1E-06	- -	5E-06	6E-06

TABLE 9.28.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	2E-03	- -	3E-04	2E-03
			Arsenic	6E-06	- -	2E-07	- -	6E-06	Skin	9E-01	- -	3E-02	9E-01
			Barium	N/A	- -	N/A	- -	N/A	Cardiovascular/Kidney	3E-04	- -	1E-04	4E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	7E-04	2E-03
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	3E-06	- -	7E-06	1E-05
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	5E-03	- -	2E-03	7E-03
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	1E-05	- -	6E-06	2E-05
			Selenium	N/A	- -	N/A	- -	N/A	Liver	1E-04	- -	4E-06	1E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-04	- -	1E-05	3E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	8E-05	- -	1E-04	2E-04
			Zinc	N/A	- -	N/A	- -	N/A	Blood	4E-04	- -	7E-06	4E-04
			Chemical Total	6E-06	- -	6E-07	- -	7E-06		9E-01	- -	8E-02	1E+00
			Radionuclide Total										
		Exposure Point Total						7E-06					1E+00
	Exposure Medium Total							7E-06					1E+00
Medium Total								7E-06					1E+00
Receptor Total								2E-05					3E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 3E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-05

Total Blood HI =	8E-03
Total Cardiovascular HI =	4E-04
Total Developmental HI =	1E-06
Total General Toxicity HI =	5E-02
Total GI System HI =	N/A
Total Immune System HI =	8E-02
Total Kidney HI =	9E-03
Total Liver HI =	1E-03
Total Nervous System HI =	2E-02
Total Skin HI =	3E+00
Total Respiratory HI =	N/A

TABLE 9.29.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Shallow Groundwater	Class A	Arsenic	4E-07	- -	2E-08	- -	4E-07	Skin	6E-02	- -	4E-03	6E-02
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	1E-06	- -	6E-06	7E-06
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-02	- -	1E-02	4E-02
			Chemical Total	4E-07	- -	2E-08	- -	4E-07		8E-02	- -	2E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						4E-07					1E-01
	Exposure Medium Total							4E-07					1E-01
Medium Total								4E-07					1E-01
Receptor Total								4E-07					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-07

Total Hazard Across All Media: 1E-01

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	7E-06
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	4E-02
Total Skin HI =	6E-02
Total Respiratory HI =	N/A

TABLE 9.29.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Shallow Groundwater	Class A	Arsenic	2E-08	- -	5E-10	- -	2E-08	Skin	2E-03	- -	8E-05	2E-03
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	4E-07	- -	9E-07	1E-06
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	8E-03	- -	2E-03	1E-02
			Chemical Total	2E-08	- -	5E-10	- -	2E-08		1E-02	- -	2E-03	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-08					1E-02
	Exposure Medium Total							2E-08					1E-02
Medium Total								2E-08					1E-02
Receptor Total								2E-08					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-08

Total Hazard Across All Media: 1E-02

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	1E-06
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	1E-02
Total Skin HI =	2E-03
Total Respiratory HI =	N/A

TABLE 9.30.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	Study Area											
			1,1-Dichloroethene	N/A	- -	N/A	- -	N/A	Liver	9E-06	- -	1E-05	2E-05
			1,2-Dichloroethane	3E-08	- -	2E-08	- -	5E-08	Kidney	5E-05	- -	3E-05	8E-05
			1,4-Dichlorobenzene	4E-09	- -	2E-08	- -	3E-08	Developmental	1E-05	- -	9E-05	1E-04
			Acetone	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	2E-05	5E-04
			Benzene	2E-05	- -	4E-05	- -	6E-05	Immune System	3E-01	- -	4E-01	7E-01
			Chlorobenzene	N/A	- -	N/A	- -	N/A	Liver	7E-05	- -	2E-04	3E-04
			Chloroethane	N/A	- -	N/A	- -	N/A	Developmental	3E-06	- -	2E-06	4E-06
			Chloroform	N/A	- -	N/A	- -	N/A	Liver	4E-05	- -	3E-05	7E-05
			cis-1,2-Dichloroethene	N/A	- -	N/A	- -	N/A	Blood	1E-04	- -	2E-04	3E-04
			Methyl tert-Butyl Ether	1E-07	- -	3E-08	- -	2E-07	Liver	7E-04	- -	2E-04	8E-04
			Tetrachloroethene	6E-08	- -	4E-07	- -	4E-07	Liver	3E-05	- -	2E-04	2E-04
			Toluene	N/A	- -	N/A	- -	N/A	Liver/Kidney	6E-04	- -	2E-03	3E-03
			Trichloroethene	7E-07	- -	1E-06	- -	2E-06	Liver	2E-02	- -	2E-02	4E-02
			Vinyl Chloride	2E-07	- -	9E-08	- -	3E-07	Liver	1E-04	- -	6E-05	2E-04
			Xylene, total	N/A	- -	N/A	- -	N/A	General Toxicity	2E-05	- -	1E-04	1E-04
			2,4-Dichlorophenol	N/A	- -	N/A	- -	N/A	Immune System	6E-04	- -	2E-03	3E-03
			2-Methylphenol	N/A	- -	N/A	- -	N/A	General Toxicity/CNS	2E-04	- -	1E-04	3E-04
			bis(2-Ethylhexyl)phthalate	5E-09	- -	7E-08	- -	7E-08	Liver	5E-05	- -	7E-04	7E-04
			Naphthalene	N/A	- -	N/A	- -	N/A	General Toxicity	7E-04	- -	4E-03	5E-03
			Pentachlorophenol	4E-08	- -	5E-06	- -	5E-06	Liver/Kidney	3E-05	- -	4E-03	4E-03

TABLE 9.30.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	5E-03	- -	2E-03	8E-03
			Arsenic	3E-04	- -	2E-05	- -	3E-04	Skin	2E+00	- -	1E-01	2E+00
			Barium	N/A	- -	N/A	- -	N/A	Cardiovascular/Kidney	6E-04	- -	5E-04	1E-03
			Beryllium	N/A	- -	N/A	- -	N/A	GI System	2E-04	- -	2E-03	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	3E-03	5E-03
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	1E-05	- -	6E-05	7E-05
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	3E-02	- -	2E-02	5E-02
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	8E-04	- -	8E-04	2E-03
			Nickel	N/A	- -	N/A	- -	N/A	General Toxicity	4E-04	- -	1E-04	5E-04
			Selenium	N/A	- -	N/A	- -	N/A	Liver	4E-04	- -	3E-05	4E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-02	- -	2E-03	3E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	3E-02	4E-02
			Zinc	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	7E-05	2E-03
			Chemical Total	3E-04	- -	6E-05	- -	4E-04		2E+00	- -	7E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						4E-04					3E+00
	Exposure Medium Total							4E-04					3E+00
	Indoor Air	Study Area											
			1,1-Dichloroethene	- -	N/A	- -	- -	N/A	Liver	- -	3E-03	- -	3E-03
			1,2,4-Trichlorobenzene	- -	N/A	- -	- -	N/A	Liver/Kidney	- -	4E-02	- -	4E-02
			1,2-Dichlorobenzene	- -	N/A	- -	- -	N/A	General Toxicity	- -	4E-03	- -	4E-03
			1,2-Dichloroethane	- -	1E-05	- -	- -	1E-05	Liver/Kidney/GI System	- -	3E-01	- -	3E-01
			1,4-Dichlorobenzene	- -	N/A	- -	- -	N/A	Liver	- -	6E-04	- -	6E-04
			2-Butanone	- -	N/A	- -	- -	N/A	Developmental	- -	3E-03	- -	3E-03
			4-Methyl-2-Pentanone	- -	N/A	- -	- -	N/A	Developmental	- -	2E-03	- -	2E-03
			Acetone	- -	N/A	- -	- -	N/A	N/A	- -	N/A	- -	N/A
			Benzene	- -	4E-03	- -	- -	4E-03	Immune System	- -	5E+01	- -	5E+01
			Chlorobenzene	- -	N/A	- -	- -	N/A	Liver	- -	3E-02	- -	3E-02
			Chloroethane	- -	N/A	- -	- -	N/A	Developmental	- -	1E-04	- -	1E-04
			Chloroform	- -	4E-06	- -	- -	4E-06	Liver	- -	9E-03	- -	9E-03
			cis-1,2-Dichloroethene	- -	N/A	- -	- -	N/A	Liver	- -	8E-03	- -	8E-03
			Methyl tert-Butyl Ether	- -	4E-06	- -	- -	4E-06	Liver/Kidney	- -	8E-02	- -	8E-02
			Tetrachloroethene	- -	8E-07	- -	- -	8E-07	CNS	- -	1E-03	- -	1E-03
			Toluene	- -	N/A	- -	- -	N/A	CNS	- -	4E-01	- -	4E-01
			Trichloroethene	- -	2E-04	- -	- -	2E-04	Liver/CNS	- -	1E-01	- -	1E-01
			Vinyl Chloride	- -	6E-07	- -	- -	6E-07	Liver	- -	4E-03	- -	4E-03
			Xylene, total	- -	N/A	- -	- -	N/A	CNS	- -	5E-02	- -	5E-02

TABLE 9.30.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			2-Chloronaphthalene	- -	N/A	- -	- -	N/A	Respiratory	- -	5E-01	- -	5E-01
			Naphthalene	- -	N/A	- -	- -	N/A	Respiratory	- -	6E+00	- -	6E+00
			Chemical Total	- -	4E-03	- -	- -	4E-03		- -	6E+01	- -	6E+01
			Radionuclide Total										
		Exposure Point Total						4E-03					6E+01
	Exposure Medium Total							4E-03					6E+01
Medium Total								5E-03					6E+01
Receptor Total								5E-03					6E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-03

Total Hazard Across All Media: 6E+01

Using the MADEP slope factor/unit risk for PCE, the risk for this receptor would change to	5E-03
Using the NCEA low-end slope factor/unit risk for TCE, the risk for this receptor would change to	4E-03
Using the CalEPA slope factor/unit risk for TCE, the risk for this receptor would change to	4E-03
Using the MADEP slope factor/unit risk for TCE, the risk for this receptor would change to	4E-03

Total Blood HI =	3E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	5E-03
Total General Toxicity HI =	2E-02
Total GI System HI =	3E-01
Total Immune System HI =	5E+01
Total Kidney HI =	4E-01
Total Liver HI =	6E-01
Total Nervous System HI =	6E-01
Total Skin HI =	2E+00
Total Respiratory HI =	6E+00

TABLE 9.30.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	Study Area											
			1,1-Dichloroethene	N/A	- -	N/A	- -	N/A	Liver	8E-06	- -	7E-06	2E-05
			1,2-Dichloroethane	1E-08	- -	4E-09	- -	1E-08	Kidney	5E-05	- -	2E-05	6E-05
			1,4-Dichlorobenzene	1E-09	- -	5E-09	- -	6E-09	Developmental	1E-05	- -	5E-05	7E-05
			Acetone	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	1E-05	4E-04
			Benzene	7E-06	- -	7E-06	- -	1E-05	Immune System	3E-01	- -	3E-01	5E-01
			Chlorobenzene	N/A	- -	N/A	- -	N/A	Liver	6E-05	- -	1E-04	2E-04
			Chloroethane	N/A	- -	N/A	- -	N/A	Developmental	2E-06	- -	9E-07	3E-06
			Chloroform	N/A	- -	N/A	- -	N/A	Liver	3E-05	- -	2E-05	5E-05
			cis-1,2-Dichloroethene	N/A	- -	N/A	- -	N/A	Blood	1E-04	- -	1E-04	2E-04
			Methyl tert-Butyl Ether	4E-08	- -	6E-09	- -	5E-08	Liver	6E-04	- -	9E-05	7E-04
			Tetrachloroethene	2E-08	- -	8E-08	- -	1E-07	Liver	3E-05	- -	1E-04	1E-04
			Toluene	N/A	- -	N/A	- -	N/A	Liver/Kidney	5E-04	- -	1E-03	2E-03
			Trichloroethene	2E-07	- -	2E-07	- -	4E-07	Liver	1E-02	- -	2E-02	3E-02
			Vinyl Chloride	5E-08	- -	2E-08	- -	7E-08	Liver	9E-05	- -	3E-05	1E-04
			Xylene, total	N/A	- -	N/A	- -	N/A	General Toxicity	2E-05	- -	7E-05	9E-05
			2,4-Dichlorophenol	N/A	- -	N/A	- -	N/A	Immune System	5E-04	- -	1E-03	2E-03
			2-Methylphenol	N/A	- -	N/A	- -	N/A	General Toxicity/CNS	1E-04	- -	9E-05	2E-04
			bis(2-Ethylhexyl)phthalate	1E-09	- -	2E-08	- -	2E-08	Liver	4E-05	- -	4E-04	5E-04
			Naphthalene	N/A	- -	N/A	- -	N/A	General Toxicity	6E-04	- -	3E-03	3E-03
			Pentachlorophenol	1E-08	- -	1E-06	- -	1E-06	Liver/Kidney	3E-05	- -	2E-03	2E-03

TABLE 9.30.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	5E-03	- -	1E-03	6E-03
			Arsenic	9E-05	- -	3E-06	- -	1E-04	Skin	2E+00	- -	5E-02	2E+00
			Barium	N/A	- -	N/A	- -	N/A	Cardiovascular/Kidney	5E-04	- -	2E-04	7E-04
			Beryllium	N/A	- -	N/A	- -	N/A	GI System	1E-04	- -	7E-04	9E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	1E-03	3E-03
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	1E-05	- -	3E-05	4E-05
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	3E-02	- -	8E-03	3E-02
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	7E-04	- -	3E-04	1E-03
			Nickel	N/A	- -	N/A	- -	N/A	General Toxicity	4E-04	- -	6E-05	4E-04
			Selenium	N/A	- -	N/A	- -	N/A	Liver	4E-04	- -	1E-05	4E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-02	- -	8E-04	3E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	9E-03	- -	1E-02	2E-02
			Zinc	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	3E-05	1E-03
			Chemical Total	1E-04	- -	1E-05	- -	1E-04		2E+00	- -	4E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						1E-04					2E+00
	Exposure Medium Total							1E-04					2E+00
	Indoor Air	Study Area											
			1,1-Dichloroethene	- -	N/A	- -	- -	N/A	Liver	- -	3E-03	- -	3E-03
			1,2,4-Trichlorobenzene	- -	N/A	- -	- -	N/A	Liver/Kidney	- -	3E-02	- -	3E-02
			1,2-Dichlorobenzene	- -	N/A	- -	- -	N/A	General Toxicity	- -	3E-03	- -	3E-03
			1,2-Dichloroethane	- -	4E-06	- -	- -	4E-06	Liver/Kidney/GI System	- -	2E-01	- -	2E-01
			1,4-Dichlorobenzene	- -	N/A	- -	- -	N/A	Liver	- -	6E-04	- -	6E-04
			2-Butanone	- -	N/A	- -	- -	N/A	Developmental	- -	2E-03	- -	2E-03
			4-Methyl-2-Pentanone	- -	N/A	- -	- -	N/A	Developmental	- -	2E-03	- -	2E-03
			Acetone	- -	N/A	- -	- -	N/A	N/A	- -	N/A	- -	N/A
			Benzene	- -	1E-03	- -	- -	1E-03	Immune System	- -	4E+01	- -	4E+01
			Chlorobenzene	- -	N/A	- -	- -	N/A	Liver	- -	2E-02	- -	2E-02
			Chloroethane	- -	N/A	- -	- -	N/A	Developmental	- -	1E-04	- -	1E-04
			Chloroform	- -	1E-06	- -	- -	1E-06	Liver	- -	8E-03	- -	8E-03
			cis-1,2-Dichloroethene	- -	N/A	- -	- -	N/A	Liver	- -	7E-03	- -	7E-03
			Methyl tert-Butyl Ether	- -	1E-06	- -	- -	1E-06	Liver/Kidney	- -	7E-02	- -	7E-02
			Tetrachloroethene	- -	3E-07	- -	- -	3E-07	CNS	- -	1E-03	- -	1E-03
			Toluene	- -	N/A	- -	- -	N/A	CNS	- -	3E-01	- -	3E-01
			Trichloroethene	- -	7E-05	- -	- -	7E-05	Liver/CNS	- -	1E-01	- -	1E-01
			Vinyl Chloride	- -	2E-07	- -	- -	2E-07	Liver	- -	3E-03	- -	3E-03
			Xylene, total	- -	N/A	- -	- -	N/A	CNS	- -	5E-02	- -	5E-02

TABLE 9.30.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			2-Chloronaphthalene	- -	N/A	- -	- -	N/A	Respiratory	- -	4E-01	- -	4E-01
			Naphthalene	- -	N/A	- -	- -	N/A	Respiratory	- -	5E+00	- -	5E+00
			Chemical Total	- -	1E-03	- -	- -	1E-03		- -	5E+01	- -	5E+01
			Radionuclide Total										
		Exposure Point Total						1E-03					5E+01
	Exposure Medium Total							1E-03					5E+01
Medium Total								1E-03					5E+01
Receptor Total								1E-03					5E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-03

Total Hazard Across All Media: 5E+01

Using the MADEP slope factor/unit risk for PCE, the risk for this receptor would change to	1E-03
Using the NCEA low-end slope factor/unit risk for TCE, the risk for this receptor would change to	1E-03
Using the CalEPA slope factor/unit risk for TCE, the risk for this receptor would change to	1E-03
Using the MADEP slope factor/unit risk for TCE, the risk for this receptor would change to	1E-03

Total Blood HI =	3E-02
Total Cardiovascular HI =	7E-04
Total Developmental HI =	4E-03
Total General Toxicity HI =	1E-02
Total GI System HI =	2E-01
Total Immune System HI =	4E+01
Total Kidney HI =	4E-01
Total Liver HI =	5E-01
Total Nervous System HI =	5E-01
Total Skin HI =	2E+00
Total Respiratory HI =	5E+00

TABLE 9.31.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	Class A											
			Arsenic	1E-05	- -	7E-07	- -	1E-05	Skin	6E-02	- -	4E-03	7E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	3E-03	5E-03
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	4E-06	- -	2E-05	2E-05
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	5E-02	- -	3E-02	7E-02
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-02	- -	1E-03	2E-02
			Chemical Total	1E-05	- -	7E-07	- -	1E-05		1E-01	- -	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					2E-01
	Exposure Medium Total							1E-05					2E-01
	Indoor Air	Class A											
			Methyl tert-Butyl Ether	- -	7E-09	- -	- -	7E-09	Liver/Kidney	- -	1E-04	- -	1E-04
			Chemical Total	- -	7E-09	- -	- -	7E-09		- -	1E-04	- -	1E-04
			Radionuclide Total										
		Exposure Point Total						7E-09					1E-04
	Exposure Medium Total							7E-09					1E-04
Medium Total								1E-05					2E-01
Receptor Total								1E-05					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 2E-01

Total Blood HI =	2E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-05
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	6E-03
Total Liver HI =	1E-04
Total Nervous System HI =	7E-02
Total Skin HI =	7E-02
Total Respiratory HI =	N/A

TABLE 9.31.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	Class A											
			Arsenic	3E-06	- -	1E-07	- -	3E-06	Skin	5E-02	- -	2E-03	6E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	1E-03	3E-03
			Chromium	N/A	- -	N/A	- -	N/A	General Toxicity	3E-06	- -	8E-06	1E-05
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	4E-02	- -	1E-02	5E-02
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-02	- -	4E-04	1E-02
			Chemical Total	3E-06	- -	1E-07	- -	3E-06		1E-01	- -	2E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					1E-01
	Exposure Medium Total							3E-06					1E-01
	Indoor Air	Class A											
			Methyl tert-Butyl Ether	- -	2E-09	- -	- -	2E-09	Liver/Kidney	- -	1E-04	- -	1E-04
			Chemical Total	- -	2E-09	- -	- -	2E-09		- -	1E-04	- -	1E-04
			Radionuclide Total										
		Exposure Point Total						2E-09					1E-04
	Exposure Medium Total							2E-09					1E-04
Medium Total								3E-06					1E-01
Receptor Total								3E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 1E-01

Total Blood HI =	1E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	1E-05
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-03
Total Liver HI =	1E-04
Total Nervous System HI =	5E-02
Total Skin HI =	6E-02
Total Respiratory HI =	N/A

TABLE 9.32.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Car Wash Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Indoor Air	Study Area											
			1,1-Dichloroethene	- -	N/A	- -	- -	N/A	Liver	- -	4E-03	- -	4E-03
			1,2,4-Trichlorobenzene	- -	N/A	- -	- -	N/A	Liver/Kidney	- -	4E-02	- -	4E-02
			1,2-Dichlorobenzene	- -	N/A	- -	- -	N/A	General Toxicity	- -	4E-03	- -	4E-03
			1,2-Dichloroethane	- -	1E-05	- -	- -	1E-05	Liver/Kidney/GI System	- -	3E-01	- -	3E-01
			1,4-Dichlorobenzene	- -	N/A	- -	- -	N/A	Liver	- -	7E-04	- -	7E-04
			4-Methyl-2-Pentanone	- -	N/A	- -	- -	N/A	Developmental	- -	2E-03	- -	2E-03
			Acetone	- -	N/A	- -	- -	N/A	N/A	- -	N/A	- -	N/A
			Benzene	- -	6E-03	- -	- -	6E-03	Immune System	- -	7E+01	- -	7E+01
			Chlorobenzene	- -	N/A	- -	- -	N/A	Liver	- -	4E-02	- -	4E-02
			Chloroethane	- -	N/A	- -	- -	N/A	Developmental	- -	2E-04	- -	2E-04
			Chloroform	- -	5E-06	- -	- -	5E-06	Liver	- -	1E-02	- -	1E-02
			cis-1,2-Dichloroethene	- -	N/A	- -	- -	N/A	Liver	- -	1E-02	- -	1E-02
			Methyl tert-Butyl Ether	- -	4E-06	- -	- -	4E-06	Liver/Kidney	- -	9E-02	- -	9E-02
			Tetrachloroethene	- -	1E-06	- -	- -	1E-06	CNS	- -	2E-03	- -	2E-03
			Toluene	- -	N/A	- -	- -	N/A	CNS	- -	5E-01	- -	5E-01
			trans-1,2-Dichloroethene	- -	N/A	- -	- -	N/A	Liver/Respiratory	- -	9E-03	- -	9E-03
			Trichloroethene	- -	3E-04	- -	- -	3E-04	Liver/CNS	- -	2E-01	- -	2E-01
			Vinyl Chloride	- -	1E-06	- -	- -	1E-06	Liver	- -	6E-03	- -	6E-03
			Xylene, total	- -	N/A	- -	- -	N/A	CNS	- -	7E-02	- -	7E-02

TABLE 9.32.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Car Wash Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			2-Chloronaphthalene	- -	N/A	- -	- -	N/A	Respiratory	- -	3E-01	- -	3E-01
			Naphthalene	- -	N/A	- -	- -	N/A	Respiratory	- -	5E+00	- -	5E+00
			Chemical Total	- -	6E-03	- -	- -	6E-03		- -	8E+01	- -	8E+01
			Radionuclide Total										
		Exposure Point Total						6E-03					8E+01
	Exposure Medium Total							6E-03					8E+01
Medium Total								6E-03					8E+01
Receptor Total								6E-03					8E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media	6E-03
Using the MADEP unit risk for PCE, the risk for this receptor would change to	6E-03
Using the NCEA low-end unit risk for TCE, the risk for this receptor would change to	6E-03
Using the CalEPA unit risk for TCE, the risk for this receptor would change to	6E-03
Using the MADEP unit risk for TCE, the risk for this receptor would change to	6E-03

Total Hazard Across All Media	8E+01
Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	2E-03
Total General Toxicity HI =	4E-03
Total GI System HI =	3E-01
Total Immune System HI =	7E+01
Total Kidney HI =	4E-01
Total Liver HI =	7E-01
Total Nervous System HI =	8E-01
Total Skin HI =	N/A
Total Respiratory HI =	5E+00

TABLE 9.32.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Car Wash Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Indoor Air	Study Area											
			1,1-Dichloroethene	- -	N/A	- -	- -	N/A	Liver	- -	3E-03	- -	3E-03
			1,2,4-Trichlorobenzene	- -	N/A	- -	- -	N/A	Liver/Kidney	- -	3E-02	- -	3E-02
			1,2-Dichlorobenzene	- -	N/A	- -	- -	N/A	General Toxicity	- -	3E-03	- -	3E-03
			1,2-Dichloroethane	- -	5E-06	- -	- -	5E-06	Liver/Kidney/GI System	- -	3E-01	- -	3E-01
			1,4-Dichlorobenzene	- -	N/A	- -	- -	N/A	Liver	- -	6E-04	- -	6E-04
			4-Methyl-2-Pentanone	- -	N/A	- -	- -	N/A	Developmental	- -	2E-03	- -	2E-03
			Acetone	- -	N/A	- -	- -	N/A	N/A	- -	N/A	- -	N/A
			Benzene	- -	2E-03	- -	- -	2E-03	Immune System	- -	6E+01	- -	6E+01
			Chlorobenzene	- -	N/A	- -	- -	N/A	Liver	- -	3E-02	- -	3E-02
			Chloroethane	- -	N/A	- -	- -	N/A	Developmental	- -	2E-04	- -	2E-04
			Chloroform	- -	1E-06	- -	- -	1E-06	Liver	- -	1E-02	- -	1E-02
			cis-1,2-Dichloroethene	- -	N/A	- -	- -	N/A	Liver	- -	9E-03	- -	9E-03
			Methyl tert-Butyl Ether	- -	1E-06	- -	- -	1E-06	Liver/Kidney	- -	8E-02	- -	8E-02
			Tetrachloroethene	- -	3E-07	- -	- -	3E-07	CNS	- -	1E-03	- -	1E-03
			Toluene	- -	N/A	- -	- -	N/A	CNS	- -	4E-01	- -	4E-01
			trans-1,2-Dichloroethene	- -	N/A	- -	- -	N/A	Liver/Respiratory	- -	8E-03	- -	8E-03
			Trichloroethene	- -	9E-05	- -	- -	9E-05	Liver/CNS	- -	2E-01	- -	2E-01
			Vinyl Chloride	- -	3E-07	- -	- -	3E-07	Liver	- -	6E-03	- -	6E-03
			Xylene, total	- -	N/A	- -	- -	N/A	CNS	- -	6E-02	- -	6E-02

TABLE 9.32.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Car Wash Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			2-Chloronaphthalene	- -	N/A	- -	- -	N/A	Respiratory	- -	3E-01	- -	3E-01
			Naphthalene	- -	N/A	- -	- -	N/A	Respiratory	- -	4E+00	- -	4E+00
			Chemical Total	- -	2E-03	- -	- -	2E-03		- -	7E+01	- -	7E+01
			Radionuclide Total										
		Exposure Point Total						2E-03					7E+01
	Exposure Medium Total							2E-03					7E+01
Medium Total								2E-03					7E+01
Receptor Total								2E-03					7E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-03

Total Hazard Across All Media: 7E+01

Using the MADEP unit risk for PCE, the risk for this receptor would change to	2E-03
Using the NCEA low-end unit risk for TCE, the risk for this receptor would change to	2E-03
Using the CalEPA unit risk for TCE, the risk for this receptor would change to	2E-03
Using the MADEP unit risk for TCE, the risk for this receptor would change to	2E-03

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	2E-03
Total General Toxicity HI =	3E-03
Total GI System HI =	3E-01
Total Immune System HI =	6E+01
Total Kidney HI =	4E-01
Total Liver HI =	6E-01
Total Nervous System HI =	7E-01
Total Skin HI =	N/A
Total Respiratory HI =	5E+00

TABLE 9.33.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Car Wash Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Indoor Air	Class A	Methyl tert-Butyl Ether	- -	8E-09	- -	- -	8E-09	Liver/Kidney	- -	2E-04	- -	2E-04
			Xylene, total	- -	N/A	- -	- -	N/A	CNS	- -	2E-02	- -	2E-02
			Chemical Total	- -	8E-09	- -	- -	8E-09		- -	2E-02	- -	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-09					2E-02
	Exposure Medium Total							N/A					2E-02
Medium Total								N/A					2E-02
Receptor Total								N/A					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: N/A

Total Hazard Across All Media: 2E-02

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	2E-04
Total Liver HI =	2E-04
Total Nervous System HI =	2E-02
Total Skin HI =	N/A
Total Respiratory HI =	N/A

TABLE 9.33.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Car Wash Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Indoor Air	Class A											
			Methyl tert-Butyl Ether	- -	2E-09	- -	- -	2E-09	Liver/Kidney	- -	1E-04	- -	1E-04
			Xylene, total	- -	N/A	- -	- -	N/A	CNS	- -	1E-02	- -	1E-02
			Chemical Total	- -	2E-09	- -	- -	2E-09		- -	1E-02	- -	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-09					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Receptor Total								N/A					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: N/A

Total Hazard Across All Media: 1E-02

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-04
Total Liver HI =	1E-04
Total Nervous System HI =	1E-02
Total Skin HI =	N/A
Total Respiratory HI =	N/A

TABLE 9.34.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB01-Storm Event											
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	5E-03	5E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-03	1E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Sediment	Sediment	HB01/A6											
			Benzo(a)anthracene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-07	- -	3E-07	- -	4E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-08	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			bis(2-Ethylhexyl)phthalate	6E-09	- -	N/A	- -	6E-09	Liver	2E-04	- -	N/A	2E-04
			Dibenz(a,h)anthracene	2E-08	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	7E-09	- -	2E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	3E-03	- -	N/A	3E-03
			Arsenic	3E-06	- -	3E-06	- -	5E-06	Skin	7E-02	- -	7E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	2E-03	4E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	5E-03	- -	N/A	5E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	4E-04	- -	N/A	4E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	2E-03	- -	N/A	2E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-02	- -	N/A	1E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	N/A	3E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Chemical Total	3E-06	- -	3E-06	- -	6E-06		1E-01	- -	7E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					2E-01
	Exposure Medium Total							6E-06					2E-01
Medium Total								6E-06					2E-01

TABLE 9.34.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB01/A6											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	2E-02	- -	N/A	2E-02
			Arsenic	1E-05	- -	5E-06	- -	1E-05	Skin	2E-01	- -	1E-01	4E-01
			Copper	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	3E-04	- -	N/A	3E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-02	- -	N/A	1E-02
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-02	- -	N/A	3E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	N/A	3E-03
			Chromium VI	N/A	- -	N/A	- -	N/A	GI System	9E-04	- -	N/A	9E-04
			Chemical Total	1E-05	- -	5E-06	- -	1E-05		3E-01	- -	1E-01	4E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					4E-01
	Exposure Medium Total							1E-05					4E-01
Medium Total								1E-05					4E-01
Receptor Total								2E-05					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 6E-01

Total Blood HI =	5E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-02
Total GI System HI =	9E-04
Total Immune System HI =	N/A
Total Kidney HI =	2E-02
Total Liver HI =	2E-04
Total Nervous System HI =	2E-02
Total Skin HI =	5E-01
Total Respiratory HI =	N/A

TABLE 9.34.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB01-Storm Event											
			Arsenic	--	- -	6E-09	- -	6E-09	Skin	- -	- -	5E-04	5E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-09	- -	6E-09		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						6E-09					1E-03
	Exposure Medium Total							6E-09					1E-03
Medium Total								6E-09					1E-03
Sediment	Sediment	HB01/A6											
			Benzo(a)anthracene	8E-10	- -	4E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	9E-09	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-09	- -	6E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			bis(2-Ethylhexyl)phthalate	5E-10	- -	N/A	- -	5E-10	Liver	6E-05	- -	N/A	6E-05
			Dibenz(a,h)anthracene	1E-09	- -	6E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	6E-10	- -	3E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	8E-04	- -	N/A	8E-04
			Arsenic	2E-07	- -	4E-07	- -	7E-07	Skin	2E-02	- -	3E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	8E-04	1E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-04	- -	N/A	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	5E-04	- -	N/A	5E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	8E-04	- -	N/A	8E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	8E-04	- -	N/A	8E-04
			Zinc	N/A	- -	N/A	- -	N/A	Blood	6E-04	- -	N/A	6E-04
			Chemical Total	2E-07	- -	5E-07	- -	7E-07		2E-02	- -	4E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					6E-02
	Exposure Medium Total							7E-07					6E-02
Medium Total								7E-07					6E-02

TABLE 9.34.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB01/A6											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	9E-04	- -	N/A	9E-04
			Arsenic	8E-07	- -	9E-07	- -	2E-06	Skin	6E-02	- -	7E-02	1E-01
			Copper	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	N/A	4E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	7E-05	- -	N/A	7E-05
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	3E-03	- -	N/A	3E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	8E-03	- -	N/A	8E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	7E-04	- -	N/A	7E-04
			Chromium VI	N/A	- -	N/A	- -	N/A	GI System	2E-04	- -	N/A	2E-04
			Chemical Total	8E-07	- -	9E-07	- -	2E-06		8E-02	- -	7E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01
Receptor Total								2E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 2E-01

Total Blood HI =	9E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-03
Total GI System HI =	2E-04
Total Immune System HI =	N/A
Total Kidney HI =	5E-03
Total Liver HI =	6E-05
Total Nervous System HI =	4E-03
Total Skin HI =	2E-01
Total Respiratory HI =	N/A

TABLE 9.35.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB01-Storm Event											
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	5E-03	5E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-03	1E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Sediment	Sediment	HB01/A6											
			Benzo(a)anthracene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-07	- -	3E-07	- -	4E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-08	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			bis(2-Ethylhexyl)phthalate	6E-09	- -	N/A	- -	6E-09	Liver	2E-04	- -	N/A	2E-04
			Dibenz(a,h)anthracene	2E-08	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	7E-09	- -	2E-08	- -	2E-08	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	3E-03	- -	N/A	3E-03
			Arsenic	3E-06	- -	3E-06	- -	5E-06	Skin	7E-02	- -	7E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	2E-03	4E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	5E-03	- -	N/A	5E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	4E-04	- -	N/A	4E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	2E-03	- -	N/A	2E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-02	- -	N/A	1E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-03	- -	N/A	3E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Chemical Total	3E-06	- -	3E-06	- -	6E-06		1E-01	- -	7E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					2E-01
	Exposure Medium Total							6E-06					2E-01
Medium Total								6E-06					2E-01

TABLE 9.35.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	HB01/A6											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	1E-02	- -	N/A	1E-02
			Arsenic	1E-05	- -	6E-06	- -	2E-05	Skin	3E-01	- -	2E-01	5E-01
			Copper	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-04	- -	N/A	2E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-02	- -	N/A	1E-02
			Thallium	N/A	- -	N/A	- -	N/A	Blood	4E-02	- -	N/A	4E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Chromium VI	N/A	- -	N/A	- -	N/A	GI System	1E-03	- -	N/A	1E-03
			Chemical Total	1E-05	- -	6E-06	- -	2E-05		4E-01	- -	2E-01	5E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					5E-01
	Exposure Medium Total							2E-05					5E-01
Medium Total								2E-05					5E-01
Receptor Total								2E-05					7E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 7E-01

Total Blood HI =	6E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	1E-02
Total GI System HI =	1E-03
Total Immune System HI =	N/A
Total Kidney HI =	2E-02
Total Liver HI =	2E-04
Total Nervous System HI =	2E-02
Total Skin HI =	6E-01
Total Respiratory HI =	N/A

TABLE 9.35.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB01-Storm Event											
			Arsenic	--	- -	6E-09	- -	6E-09	Skin	- -	- -	5E-04	5E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-09	- -	6E-09		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						6E-09					1E-03
	Exposure Medium Total							6E-09					1E-03
Medium Total								6E-09					1E-03
Sediment	Sediment	HB01/A6											
			Benzo(a)anthracene	8E-10	- -	4E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	9E-09	- -	4E-08	- -	5E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-09	- -	6E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			bis(2-Ethylhexyl)phthalate	5E-10	- -	N/A	- -	5E-10	Liver	6E-05	- -	N/A	6E-05
			Dibenz(a,h)anthracene	1E-09	- -	6E-09	- -	8E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	6E-10	- -	3E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	8E-04	- -	N/A	8E-04
			Arsenic	2E-07	- -	4E-07	- -	7E-07	Skin	2E-02	- -	3E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	8E-04	1E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-04	- -	N/A	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	5E-04	- -	N/A	5E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	8E-04	- -	N/A	8E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	8E-04	- -	N/A	8E-04
			Zinc	N/A	- -	N/A	- -	N/A	Blood	6E-04	- -	N/A	6E-04
			Chemical Total	2E-07	- -	5E-07	- -	7E-07		2E-02	- -	4E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					6E-02
	Exposure Medium Total							7E-07					6E-02
Medium Total								7E-07					6E-02

TABLE 9.35.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	HB01/A6											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	7E-04	- -	N/A	7E-04
			Arsenic	3E-07	- -	4E-07	- -	7E-07	Skin	3E-02	- -	3E-02	5E-02
			Copper	N/A	- -	N/A	- -	N/A	Kidney	6E-04	- -	N/A	6E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	5E-05	- -	N/A	5E-05
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	3E-03	- -	N/A	3E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	5E-03	- -	N/A	5E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	6E-04	- -	N/A	6E-04
			Chromium VI	N/A	- -	N/A	- -	N/A	GI System	2E-04	- -	N/A	2E-04
			Chemical Total	3E-07	- -	4E-07	- -	7E-07		4E-02	- -	3E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					6E-02
	Exposure Medium Total							7E-07					6E-02
Medium Total								7E-07					6E-02
Receptor Total								1E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 1E-01

Total Blood HI =	6E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	2E-03
Total GI System HI =	2E-04
Total Immune System HI =	N/A
Total Kidney HI =	5E-03
Total Liver HI =	6E-05
Total Nervous System HI =	4E-03
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.36.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB02-Storm Event											
			bis(2-Ethylhexyl)phthalate	--	- -	6E-07	- -	6E-07	Liver	- -	- -	2E-02	2E-02
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	1E-03	1E-03
			Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	3E-03	3E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	7E-07	- -	7E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					3E-02
	Exposure Medium Total							7E-07					3E-02
Medium Total								7E-07					3E-02
Sediment	Sediment	HB02/HB04											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	3E-03	- -	N/A	3E-03
			Arsenic	6E-06	- -	7E-06	- -	1E-05	Skin	2E-01	- -	2E-01	3E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	2E-03	4E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	3E-03	- -	N/A	3E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-02	- -	N/A	2E-02
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	N/A	7E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Chemical Total	6E-06	- -	7E-06	- -	1E-05		2E-01	- -	2E-01	4E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					4E-01
	Exposure Medium Total							1E-05					4E-01
Medium Total								1E-05					4E-01

TABLE 9.36.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB02/HB04											
			Arsenic	4E-07	- -	2E-07	- -	7E-07	Skin	1E-02	- -	6E-03	2E-02
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	N/A	1E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Chemical Total	4E-07	- -	2E-07	- -	7E-07		1E-02	- -	6E-03	2E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					2E-02
	Exposure Medium Total							7E-07					2E-02
Medium Total								7E-07					2E-02
Receptor Total								1E-05					4E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 4E-01

Total Blood HI =	3E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	4E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-02
Total Liver HI =	2E-02
Total Nervous System HI =	8E-03
Total Skin HI =	4E-01
Total Respiratory HI =	N/A

TABLE 9.36.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB02-Storm Event											
			bis(2-Ethylhexyl)phthalate	--	- -	9E-09	- -	9E-09	Liver	- -	- -	1E-03	1E-03
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	1E-04	1E-04
			Arsenic	--	- -	4E-09	- -	4E-09	Skin	- -	- -	3E-04	3E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-04	4E-04
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	8E-05	8E-05
			Chemical Total	--	- -	1E-08	- -	1E-08		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						1E-08					2E-03
	Exposure Medium Total							1E-08					2E-03
Medium Total								1E-08					2E-03
Sediment	Sediment	HB02/HB04											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	7E-04	- -	N/A	7E-04
			Arsenic	5E-07	- -	1E-06	- -	2E-06	Skin	4E-02	- -	9E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	6E-04	- -	8E-04	1E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	5E-04	- -	N/A	5E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	7E-04	- -	N/A	7E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	3E-04	- -	N/A	3E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	6E-03	- -	N/A	6E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	5E-04	- -	N/A	5E-04
			Chemical Total	5E-07	- -	1E-06	- -	2E-06		5E-02	- -	9E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					1E-01
	Exposure Medium Total							2E-06					1E-01
Medium Total								2E-06					1E-01

TABLE 9.36.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	HB02/HB04											
			Arsenic	4E-08	- -	4E-08	- -	7E-08	Skin	3E-03	- -	3E-03	6E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	3E-04	- -	N/A	3E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	N/A	3E-04
			Chemical Total	4E-08	- -	4E-08	- -	7E-08		3E-03	- -	3E-03	6E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					6E-03
	Exposure Medium Total							7E-08					6E-03
Medium Total								7E-08					6E-03
Receptor Total								2E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 1E-01

Total Blood HI =	7E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	8E-04
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	4E-03
Total Liver HI =	1E-03
Total Nervous System HI =	1E-03
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.37.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB03-Storm Event											
			bis(2-Ethylhexyl)phthalate	--	- -	6E-07	- -	6E-07	Liver	- -	- -	2E-02	2E-02
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	1E-03	1E-03
			Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	3E-03	3E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	8E-04	8E-04
			Chemical Total	--	- -	7E-07	- -	7E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					3E-02
	Exposure Medium Total							7E-07					3E-02
Medium Total								7E-07					3E-02
Sediment	Sediment	HB03											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	2E-03	- -	N/A	2E-03
			Arsenic	3E-06	- -	3E-06	- -	6E-06	Skin	7E-02	- -	7E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	1E-03	2E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	4E-03	- -	N/A	4E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	2E-03	- -	N/A	2E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	6E-03	- -	N/A	6E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	5E-03	- -	N/A	5E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	9E-04	- -	N/A	9E-04
			Chemical Total	3E-06	- -	3E-06	- -	6E-06		9E-02	- -	7E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					2E-01
	Exposure Medium Total							6E-06					2E-01
Medium Total								6E-06					2E-01
Receptor Total								6E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 2E-01

Total Blood HI =	8E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	3E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	9E-03
Total Liver HI =	2E-02
Total Nervous System HI =	9E-03
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.37.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	HB03-Storm Event											
			bis(2-Ethylhexyl)phthalate	--	- -	9E-09	- -	9E-09	Liver	- -	- -	1E-03	1E-03
			Antimony	--	- -	N/A	- -	N/A	General Toxicity	- -	- -	1E-04	1E-04
			Arsenic	--	- -	4E-09	- -	4E-09	Skin	- -	- -	3E-04	3E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-04	4E-04
			Thallium	--	- -	N/A	- -	N/A	Blood	- -	- -	8E-05	8E-05
			Chemical Total	--	- -	1E-08	- -	1E-08		- -	- -	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						1E-08					2E-03
	Exposure Medium Total							1E-08					2E-03
Medium Total								1E-08					2E-03
Sediment	Sediment	HB03											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	5E-04	- -	N/A	5E-04
			Arsenic	2E-07	- -	5E-07	- -	7E-07	Skin	2E-02	- -	4E-02	5E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	5E-04	9E-04
			Copper	N/A	- -	N/A	- -	N/A	Kidney	4E-04	- -	N/A	4E-04
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	4E-04	- -	N/A	4E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	2E-03	- -	N/A	2E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	2E-04	- -	N/A	2E-04
			Chemical Total	2E-07	- -	5E-07	- -	7E-07		2E-02	- -	4E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					6E-02
	Exposure Medium Total							7E-07					6E-02
Medium Total								7E-07					6E-02
Receptor Total								7E-07					6E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-07

Total Hazard Across All Media: 6E-02

Total Blood HI =	2E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	6E-04
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-03
Total Liver HI =	1E-03
Total Nervous System HI =	2E-03
Total Skin HI =	5E-02
Total Respiratory HI =	N/A

TABLE 9.38.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	AR-Storm Event											
			Arsenic	--	- -	8E-08	- -	8E-08	Skin	- -	- -	2E-03	2E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Chemical Total	--	- -	8E-08	- -	8E-08		- -	- -	4E-03	4E-03
			Radionuclide Total										
		Exposure Point Total						8E-08					4E-03
	Exposure Medium Total							8E-08					4E-03
Medium Total								8E-08					4E-03
Sediment	Sediment	AR											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	4E-03	- -	N/A	4E-03
			Arsenic	5E-06	- -	5E-06	- -	1E-05	Skin	1E-01	- -	1E-01	3E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	8E-04	2E-03
			Copper	N/A	- -	N/A	- -	N/A	Kidney	6E-03	- -	N/A	6E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	6E-04	- -	N/A	6E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	3E-03	- -	N/A	3E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	5E-03	- -	N/A	5E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	6E-03	- -	N/A	6E-03
			Chemical Total	5E-06	- -	5E-06	- -	1E-05		2E-01	- -	1E-01	3E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					3E-01
	Exposure Medium Total							1E-05					3E-01
Medium Total								1E-05					3E-01
Receptor Total								1E-05					3E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 3E-01

Total Blood HI =	5E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	4E-03
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-02
Total Liver HI =	N/A
Total Nervous System HI =	5E-03
Total Skin HI =	3E-01
Total Respiratory HI =	N/A

TABLE 9.38.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	AR-Storm Event											
			Arsenic	--	- -	3E-09	- -	3E-09	Skin	- -	- -	2E-04	2E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	3E-09	- -	3E-09		- -	- -	4E-04	4E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					4E-04
	Exposure Medium Total							3E-09					4E-04
Medium Total								3E-09					4E-04
Sediment	Sediment	AR											
			Antimony	N/A	- -	N/A	- -	N/A	General Toxicity	9E-04	- -	N/A	9E-04
			Arsenic	4E-07	- -	9E-07	- -	1E-06	Skin	3E-02	- -	7E-02	1E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	4E-04	7E-04
			Copper	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-04	- -	N/A	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Nervous System	7E-04	- -	N/A	7E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	N/A	1E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-03	- -	N/A	1E-03
			Chemical Total	4E-07	- -	9E-07	- -	1E-06		4E-02	- -	7E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					1E-01
	Exposure Medium Total							1E-06					1E-01
Medium Total								1E-06					1E-01
Receptor Total								1E-06					1E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 1E-01

Total Blood HI =	1E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	9E-04
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-03
Total Liver HI =	N/A
Total Nervous System HI =	1E-03
Total Skin HI =	1E-01
Total Respiratory HI =	N/A

TABLE 9.39.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	BE-2-Storm Event											
			Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	5E-03	5E-03
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-03	1E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Sediment	Sediment	BE-2											
			Arsenic	3E-06	- -	3E-06	- -	6E-06	Skin	8E-02	- -	8E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	6E-04	- -	4E-04	1E-03
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	1E-03	- -	N/A	1E-03
			Thallium	N/A	- -	N/A	- -	N/A	Blood	4E-03	- -	N/A	4E-03
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	1E-02	- -	N/A	1E-02
			Zinc	N/A	- -	N/A	- -	N/A	Blood	1E-03	- -	N/A	1E-03
			Chemical Total	3E-06	- -	3E-06	- -	6E-06		9E-02	- -	8E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					2E-01
	Exposure Medium Total							6E-06					2E-01
Medium Total								6E-06					2E-01
Receptor Total								6E-06					2E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 2E-01

Total Blood HI =	6E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	1E-02
Total Liver HI =	N/A
Total Nervous System HI =	6E-03
Total Skin HI =	2E-01
Total Respiratory HI =	N/A

TABLE 9.39.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Recreational User
Receptor Age: Teenager (ages 12-18)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	BE-2-Storm Event											
			Arsenic	--	- -	6E-09	- -	6E-09	Skin	- -	- -	5E-04	5E-04
			Cadmium	--	- -	N/A	- -	N/A	Kidney	- -	- -	1E-04	1E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-04	4E-04
			Chemical Total	--	- -	6E-09	- -	6E-09		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						6E-09					1E-03
	Exposure Medium Total							6E-09					1E-03
Medium Total								6E-09					1E-03
Sediment	Sediment	BE-2											
			Arsenic	2E-07	- -	5E-07	- -	8E-07	Skin	2E-02	- -	4E-02	6E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	1E-04	- -	2E-04	4E-04
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	3E-04	- -	N/A	3E-04
			Thallium	N/A	- -	N/A	- -	N/A	Blood	6E-04	- -	N/A	6E-04
			Vanadium	N/A	- -	N/A	- -	N/A	Kidney	2E-03	- -	N/A	2E-03
			Zinc	N/A	- -	N/A	- -	N/A	Blood	1E-04	- -	N/A	1E-04
			Chemical Total	2E-07	- -	5E-07	- -	8E-07		2E-02	- -	4E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						8E-07					6E-02
	Exposure Medium Total							8E-07					6E-02
Medium Total								8E-07					6E-02
Receptor Total								8E-07					6E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 8E-07

Total Hazard Across All Media: 6E-02

Total Blood HI =	8E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	3E-03
Total Liver HI =	N/A
Total Nervous System HI =	7E-04
Total Skin HI =	6E-02
Total Respiratory HI =	N/A

TABLE 10.1.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment Cores	SC02	Arsenic						Skin	4E+00	- -	7E-01	4E+00
			Chemical Total	- -	- -	- -	- -	- -		4E+00	- -	7E-01	4E+00
			Radionuclide Total										
		Exposure Point Total						- -					4E+00
	Exposure Medium Total							- -					4E+00
Medium Total								- -					4E+00
Receptor Total								- -					4E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: - -

Total Hazard Across All Media: 4E+00

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	4E+00
Total Respiratory HI =	N/A

TABLE 10.2.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	SO	Arsenic						Skin	2E+00	- -	1E-01	2E+00
			Chemical Total	- -	- -	- -	- -	- -		2E+00	- -	1E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: - -

Total Hazard Across All Media: 2E+00

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	2E+00
Total Respiratory HI =	N/A

TABLE 10.3.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	SO	Arsenic	1E-03	- -	1E-04	- -	1E-03	Skin	3E+01	- -	3E+00	4E+01
			Chemical Total	1E-03	- -	1E-04	- -	1E-03		3E+01	- -	3E+00	4E+01
			Radionuclide Total										
		Exposure Point Total						1E-03					4E+01
	Exposure Medium Total							1E-03					4E+01
Medium Total								1E-03					4E+01
Receptor Total								1E-03					4E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-03

Total Hazard Across All Media: 4E+01

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	4E+01
Total Respiratory HI =	N/A

TABLE 10.3.CT

RISK SUMMARY

CENTRAL TENDENCY

INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Day Care Child
Receptor Age: Young Child (ages 1-6)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	SO	Arsenic	2E-04	- -	4E-05	- -	3E-04	Skin	2E+01	- -	3E+00	2E+01
			Chemical Total	2E-04	- -	4E-05	- -	3E-04		2E+01	- -	3E+00	2E+01
			Radionuclide Total										
		Exposure Point Total						3E-04					2E+01
	Exposure Medium Total							3E-04					2E+01
Medium Total								3E-04					2E+01
Receptor Total								3E-04					2E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-04

Total Hazard Across All Media: 2E+01

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	2E+01
Total Respiratory HI =	N/A

TABLE 10.4.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	SO	Arsenic						Skin	6E+00	2E-01	6E-01	7E+00
			Chemical Total	- -	- -	- -	- -	- -		6E+00	2E-01	6E-01	7E+00
			Radionuclide Total										
		Exposure Point Total						- -					7E+00
	Exposure Medium Total							- -					7E+00
Medium Total								- -					7E+00
Groundwater	Shallow Groundwater	Study Area	Arsenic						Skin	3E+00	- -	2E-01	3E+00
			Chemical Total	- -	- -	- -	- -	- -		3E+00	- -	2E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						- -					3E+00
	Exposure Medium Total							- -					3E+00
Medium Total								- -					3E+00
Receptor Total								- -					1E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: - -

Total Hazard Across All Media: 1E+01

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	1E+01
Total Respiratory HI =	N/A

TABLE 10.4.CT
RISK SUMMARY
CENTRAL TENDENCY
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	SO	Arsenic						Skin	2E+00	5E-02	2E-01	2E+00
			Chemical Total	- -	- -	- -	- -	- -		2E+00	5E-02	2E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: - -

Total Hazard Across All Media: 2E+00

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	2E+00
Total Respiratory HI =	N/A

TABLE 10.5.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	Study Area											
			Benzene	2E-05	- -	4E-05	- -	6E-05					
			Trichloroethene	7E-07	- -	1E-06	- -	2E-06					
			Pentachlorophenol	4E-08	- -	5E-06	- -	5E-06					
			Arsenic	3E-04	- -	2E-05	- -	3E-04	Skin	2E+00	- -	1E-01	2E+00
			Chemical Total	3E-04	- -	6E-05	- -	4E-04		2E+00	- -	1E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						4E-04					2E+00
	Exposure Medium Total							4E-04					2E+00

TABLE 10.5.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
	Indoor Air	Study Area											
			1,2-Dichloroethane	- -	1E-05	- -	- -	1E-05					
			Benzene	- -	4E-03	- -	- -	4E-03	Immune System	- -	5E+01	- -	5E+01
			Chloroform	- -	4E-06	- -	- -	4E-06					
			Methyl tert-Butyl Ether	- -	4E-06	- -	- -	4E-06					
			Trichloroethene	- -	2E-04	- -	- -	2E-04					
			Naphthalene						Respiratory	- -	6E+00	- -	6E+00
			Chemical Total	- -	4E-03	- -	- -	4E-03		- -	5E+01	- -	5E+01
			Radionuclide Total										
		Exposure Point Total						4E-03					5E+01
	Exposure Medium Total							4E-03					5E+01
Medium Total								5E-03					6E+01
Receptor Total								5E-03					6E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-03

Total Hazard Across All Media: 6E+01

Using the NCEA low-end slope factor/unit risk for TCE, the risk for this receptor would change to: 4E-03
Using the CalEPA slope factor/unit risk for TCE, the risk for this receptor would change to: 4E-03
Using the MADEP slope factor/unit risk for TCE, the risk for this receptor would change to: 4E-03

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	5E+01
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	2E+00
Total Respiratory HI =	6E+00

TABLE 10.5.CT
RISK SUMMARY
CENTRAL TENDENCY
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater	Study Area											
			Benzene	7E-06	- -	7E-06	- -	1E-05					
			Arsenic	9E-05	- -	3E-06	- -	1E-04	Skin	2E+00	- -	5E-02	2E+00
			Chemical Total	1E-04	- -	1E-05	- -	1E-04		2E+00	- -	5E-02	2E+00
			Radionuclide Total										
		Exposure Point Total						1E-04					- -
	Exposure Medium Total							1E-04					- -
	Indoor Air	Study Area											
			1,2-Dichloroethane	- -	4E-06	- -	- -	4E-06					
			Benzene	- -	1E-03	- -	- -	1E-03	Immune System	- -	4E+01	- -	4E+01
			Trichloroethene	- -	7E-05	- -	- -	7E-05					
			Naphthalene						Respiratory	- -	5E+00	- -	5E+00
			Chemical Total	- -	1E-03	- -	- -	1E-03		- -	5E+01	- -	5E+01
			Radionuclide Total										
		Exposure Point Total						1E-03					5E+01
	Exposure Medium Total							1E-03					5E+01
Medium Total								1E-03					5E+01
Receptor Total								1E-03					5E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-03

Total Hazard Across All Media: 5E+01

Using the NCEA low-end slope factor/unit risk for TCE, the risk for this receptor would change to: 1E-03
Using the CalEPA slope factor/unit risk for TCE, the risk for this receptor would change to: 1E-03
Using the MADEP slope factor/unit risk for TCE, the risk for this receptor would change to: 1E-03

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	4E+01
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	2E+00
Total Respiratory HI =	5E+00

TABLE 10.6.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Car Wash Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Indoor Air	Study Area											
			1,2-Dichloroethane	- -	1E-05	- -	- -	1E-05					
			Benzene	- -	6E-03	- -	- -	6E-03	Immune System	- -	7E+01	- -	7E+01
			Chloroform	- -	5E-06	- -	- -	5E-06					
			Methyl tert-Butyl Ether	- -	4E-06	- -	- -	4E-06					
			Trichloroethene	- -	3E-04	- -	- -	3E-04					
			Naphthalene						Respiratory	- -	5E+00	- -	5E+00
			Chemical Total	- -	6E-03	- -	- -	6E-03		- -	8E+01	- -	8E+01
			Radionuclide Total										
		Exposure Point Total						6E-03					8E+01
	Exposure Medium Total							6E-03					8E+01
Medium Total								6E-03					8E+01
Receptor Total								6E-03					8E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-03

Total Hazard Across All Media: 8E+01

Using the NCEA low-end unit risk for TCE, the risk for this receptor would change to: 6E-03
Using the CalEPA unit risk for TCE, the risk for this receptor would change to: 6E-03
Using the MADEP unit risk for TCE, the risk for this receptor would change to: 6E-03

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	7E+01
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	N/A
Total Respiratory HI =	5E+00

TABLE 10.6.CT
RISK SUMMARY
CENTRAL TENDENCY
INDUSTRI-PLEX SUPERFUND SITE

Scenario Timeframe: Future
Receptor Population: Car Wash Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Indoor Air	Study Area											
			1,2-Dichloroethane	- -	5E-06	- -	- -	5E-06					
			Benzene	- -	2E-03	- -	- -	2E-03	Immune System	- -	6E+01	- -	6E+01
			Trichloroethene	- -	9E-05	- -	- -	9E-05					
			Naphthalene						Respiratory	- -	4E+00	- -	4E+00
			Chemical Total	- -	2E-03	- -	- -	2E-03		- -	7E+01	- -	7E+01
			Radionuclide Total										
		Exposure Point Total						2E-03					7E+01
	Exposure Medium Total							2E-03					7E+01
Medium Total								2E-03					7E+01
Receptor Total								2E-03					7E+01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-03

Total Hazard Across All Media: 7E+01

Using the NCEA low-end unit risk for TCE, the risk for this receptor would change to: 2E-03
Using the CalEPA unit risk for TCE, the risk for this receptor would change to: 2E-03
Using the MADEP unit risk for TCE, the risk for this receptor would change to: 2E-03

Total Blood HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A
Total General Toxicity HI =	N/A
Total GI System HI =	N/A
Total Immune System HI =	6E+01
Total Kidney HI =	N/A
Total Liver HI =	N/A
Total Nervous System HI =	N/A
Total Skin HI =	N/A
Total Respiratory HI =	4E+00